

**MAY 1998
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NUMBER 5**

STORM DATA

**AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS**



noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

Cover: A photograph of an F3 (wind speeds 157-206 mph) tornado as it crosses Route 22 in southeast Iowa. This tornado caused extensive damage to the town of Washington in Washington County, Iowa on May 15, 1998. The tornado traveled 32 miles in 45 minutes before dissipating 5 miles southeast of Iowa City, Iowa. (Photograph courtesy of Tim Shy and Dr. Brian Jewett, Department of Atmospheric Science, University of Illinois, Champaign-Urbana, Illinois)

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STORM DATA

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The Storm Data and Unusual Weather Phenomena narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by cooperative efforts between the National Climatic Data Center and the Storm Prediction Center.

STORM DATA contains all confirmed information on storms available to our staff at the time of publication. However, due to difficulties inherent in the collection of this type of data, it is not all-inclusive. Late reports and corrections are printed in each edition.

Maps of the National Weather Service County Warning Areas which are used in the Storm Data and Unusual Weather Phenomena section will be printed in all editions.

Except for limited editing to correct grammatical errors, materials submitted are generally published as received.

Note: "None Reported" means that no severe weather occurred and "Not Received" means that no reports were received for this region at the time of printing.

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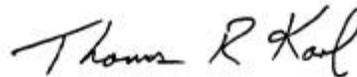
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The editors of **STORM DATA** solicits your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or unusual weather events (past or present). These could be for use in the "Outstanding Storms of the Month" or "Et Cetera" sections of **STORM DATA**. We request our subscribers or other interested persons to mail such items to:

Stuart Hinson
National Climatic Data Center
151 Patton Avenue
Asheville, NC 28801

Any such items received by the editor will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials submitted will be returned if requested in the original submission.

"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733."

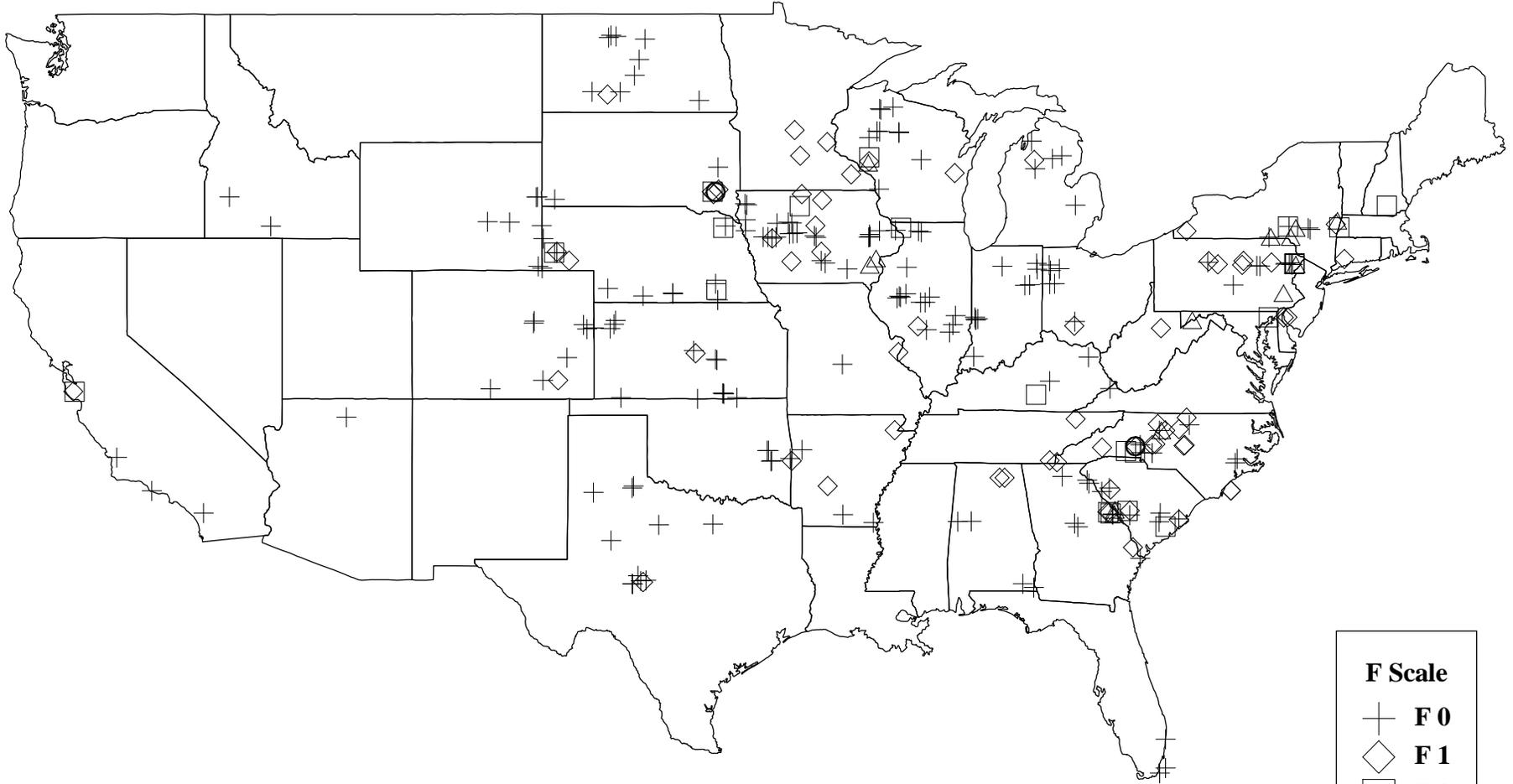


Thomas R. Karl
Director,
National Climatic Data Center

The Cyclone Track Map which usually appears on this page is not available for May 1998.

Should the data become available in the future, a cyclone track map will be produced and printed in a subsequent issue.

May 1998 Confirmed Tornadoes



4

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	188	63	21	13	2	0	287

F Scale	
+	F 0
◇	F 1
□	F 2
△	F 3
○	F 4
★	F 5

OUTSTANDING STORMS OF THE MONTH

1. TORNADO DESTROYS MUCH OF SPENCER, SOUTH DAKOTA

On May 30, 1998, an F4 tornado moved through southeast South Dakota, killing 6 people and injuring another 150 (almost one-half of the towns population of 320). The Storms Prediction Center (SPC) issued a Tornado Watch at 2:50 P.M. CST for eastern South Dakota through southern Minnesota, in effect until 9 P.M. CST. Tornado warnings were issued by the National Weather Service (NWS) office in Sioux Falls, SD at 7:01 P.M. CST for Hanson/Davison Counties and 7:32 P.M. for McCook County. A tornado touched down at approximately 7:30 P.M. CST (8:30 P.M. CDT) in Hanson County. The tornado crossed into McCook County at approximately 7:38 P.M. CST and moved through downtown Spencer, SD at approximately 7:39 P.M. CST. Many of the county's residents were aware of the dangerous weather and took refuge in basements or interior rooms of their homes. The total cost of damage was more than \$18 million with another \$500 thousand in crop damage.

(All Spencer, SD photographs are courtesy of Josh Wurman, Department of Meteorology, University of Oklahoma, Norman, OK)

Below: Photographs of the Spencer area. **Top Right:** A grain elevator in Spencer was completely destroyed. **Bottom Right:** One of the severely damaged homes which remains standing. **Bottom Left:** The toppled Spencer water tower and a vehicle. **Top Left:** All that remains of the home in the foreground is a pile of debris next to the basement.



2. STRONG TORNADO TOUCHES DOWN IN SOUTHEAST IOWA

On May 15, 1998, a series of tornadoes spawned from a severe thunderstorm over southeast Iowa. A surface low pressure system with a strong upper-level trough contributed to the formation of thunderstorms ahead of its associated cold front. A supercell thunderstorm developed in southern Washington County and moved north-northeast at 55 mph. A tornado touched down at 4:05 P.M. CST (5:05 P.M. CDT) in Washington County and moved through the city of Washington, injuring 28 people and causing \$9 million in property damage. It then crossed into Johnson County, injuring another 17 and causing \$6 million in property damage. The tornado was rated an F3 (wind speeds 157-206 mph) by the National Weather Service (NWS) after a survey of the damage. The total path length was 32 miles and reached a maximum width of 1/4 mile (400 yards). The same thunderstorm complex spawned a second tornado in Cedar County at 5:06 P.M. CST (6:06 P.M. CDT). This tornado was rated an F3, injuring 2 more people and causing another \$1.8 million in property damage.

(Special Thanks to Jim Meyer - Warning Coordination Meteorologist (WCM) and Kyle Weisser - Meteorologist, NWS, Davenport, Iowa for submitting this article and supplying the photographs. All photographs courtesy of Jim Meyer except the tornado photograph, which is courtesy of Tim Shy and Dr. Brian Jewett, Dept. of Atmospheric Science, University of Illinois, Champaign-Urbana, Illinois)

Top Left: The tornado after it crossed Highway 22, 15 miles south of Iowa City, Iowa. **Top Right:** Local residents inspect the remnants of the Goody farmhouse, 5 miles southwest of Downey, Iowa. **Bottom Right:** Another photo of the Goody farm. The debris in the center background was a large combine. **Bottom Left:** The Schreiber home located on Highway 22 was lifted from its foundation and displaced about 20 feet. No one was injured.



Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
ALZ044		Montgomery							
	01	1530CST			2	0	30K	0	High Wind (G38)
					Two construction workers were killed when strong wind from a passing thunderstorm moved overhead, causing a concrete wall that was under construction, to fall on top of them. They were working in a trench when the wall fell. M41OU, M34OU				
Marengo County									
5 N Sweet Water	03	1325CST			0	0	10K	4K	Hail (1.75)
					Golf ball size hail was reported north of Sweet Water.				
Perry County									
7 SE Marion	03	1330CST			0	0	10K	4K	Hail (1.75)
					Golf ball size hail was reported in Radford.				
Talladega County									
Lincoln	03	1345CST			0	0	10K	4K	Hail (1.75)
					Golf ball size hail was reported in Lincoln.				
Autauga County									
3 N Prattville	03	1400CST			0	0	0	0	Hail (0.88)
					Dime size hail was reported just north of Prattville.				
Cleburne County									
9 SSW Heflin	03	1415CST			0	0	0	0	Hail (0.75)
					Dime size hail was reported in Hollis Crossroads.				
Calhoun County									
Oxford	03	1415CST			0	0	10K	3K	Hail (1.75)
					Golf ball size hail was reported in Oxford.				
Elmore County									
8 SE Wetumpka	03	1420CST			0	0	10K	3K	Hail (1.75)
					Golf ball size hail was reported near Emerald Mountain.				
Marengo County									
Thomaston	03	1430CST			0	0	0	0	Hail (0.75)
					Dime size hail was reported by the sheriff's office.				
Elmore County									
2 W Tallassee	03	1433CST			0	0	2K	0	Hail (1.00)
					Hail the size of quarters was reported along SR 14 on the west side of Tallassee.				
Macon County									
Tuskegee	03	1455CST			0	0	0	0	Hail (0.88)
					Nickel size hail was reported at the Tuskegee News.				
Lowndes County									
7 NW Lowndesboro	03	1455CST			0	0	0	0	Hail (0.75)
					Dime size hail was reported in White Hall.				
Dekalb County									
Collinsville	03	1500CST			0	0	3K	0	Hail (1.00)
					One inch hail was reported in Collinsville by the EMA.				
Cherokee County									
Gaylesville	03	1511CST			0	0	10K	4K	Hail (1.75)
					Golf ball size hail was reported in Gaylesville.				
Bibb County									
West Blocton	03	1515CST			0	0	0	0	Hail (0.75)
					Dime size hail was reported in West Blocton.				
Montgomery County									
Montgomery	03	1520CST			0	0	2K	0	Hail (1.00)
					One inch hail was reported on the east side of Montgomery.				
Macon County									
3 N Tuskegee	03	1525CST			0	0	30K	10K	Hail (2.75)
					Golf ball to baseball size hail was reported north of Tuskegee along I-85.				
Montgomery County									
5 E Montgomery	03	1525CST			0	0	10K	3K	Hail (1.75)
					Golf ball size hail was reported east of Montgomery.				
Tuscaloosa County									
Duncanville	03	1525CST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
			Dime size hail was reported in Duncanville by the volunteer fire department.						
Russell County Hurtsboro	03	1530CST			0	0	0	0	Hail (0.88)
			Nickel size hail was reported by city hall.						
Dallas County 3 W Selma	03	1530CST			0	0	0	0	Hail (0.88)
			Nickel size hail was reported to the west of Selma.						
Tallapoosa County Alexander City	03	1546CST			0	0	10K	3K	Hail (1.75)
			Golf ball size hail was reported in Alexander City.						
Elmore County Wetumpka	03	1547CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported in Wetumpka.						
Montgomery County Pine Level	03	1555CST			0	0	2K	0	Hail (1.00)
			Hail the size of quarters was reported in the town of Pine Level.						
Barbour County Batesville	03	1600CST			0	0	10K	4K	Hail (1.75)
			Golf ball size hail was reported northeast of Batesville.						
Cleburne County Ranburne	03	1610CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported in the town of Ranburne.						
Randolph County 14 NE Wedowee	03	1610CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported outside the town of Graham.						
Bibb County Randolph	03	1620CST			0	0	45K	15K	Hail (2.75)
			Baseball size hail was reported in Randolph by the police department.						
Lee County Opelika	03	1630CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported in Opelika.						
Chilton County Jemison	03	1634CST			0	0	5K	2K	Hail (1.25)
			Half dollar size hail was reported in Jemison.						
Pike County 12 SW Troy	03	2058CST			0	0	60K	10K	Hail (2.75)
			Baseball size hail that damaged cars was reported in Goshen.						
Colbert County 2 N Littleville	06	1330CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported just north of Littleville.						
Morgan County Falkville	06	1435CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported in Falkville.						
Lawrence County 2 N Moulton	06	1445CST			0	0	2K	0	Hail (1.00)
			Quarter size hail was reported north of Moulton.						
Franklin County 6 E Russellville	06	1457CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported east of Russellville.						
Cullman County 4 SW Jones Chapel	06	1507CST			0	0	15K	5K	Thunderstorm Wind (G55)
			Trees were down and minor damage was done to some chicken houses and out buildings southwest of Jones Chapel.						
Cullman County 8 SW Cullman	06	1530CST			0	0	20K	0	Thunderstorm Wind (G50)
			Minor damage was done to a residence and a boat shed in the Trimble area.						
Winston County Addison	06	1550CST			0	0	2K	0	Hail (1.00)
			Hail the size of quarters was reported in Addison.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Winston County 4 ESE Addison	06	1555CST			0	0	50K	10K	Thunderstorm Wind (G50) Trees fell on three cars destroying one, and a tree fell on a mobile home cutting it in half, in the Helicon community.
Cullman County West Pt	06	1615CST			0	0	10K	3K	Thunderstorm Wind (G50) Trees were reported down near West Point.
Tuscaloosa County 6 NW Northport	06	1700CST			0	0	20K	0	Thunderstorm Wind (G50) A tree fell on a mobile home in the Mt. Olive community.
Tuscaloosa County Northport	06	1710CST			0	0	2K	0	Hail (1.00) Hail the size of quarters was reported in Northport.
Pickens County Reform	06	1715CST			0	0	0	0	Hail (0.88) Nickel size hail was reported in Reform.
Madison County Huntsville	06	1724CST			0	0	100K	0	Lightning Lightning struck an apartment building, setting it ablaze. Two apartments were heavily damaged and four others suffered moderate damage. A firefighter was injured while battling the blaze.
Tuscaloosa County Cottondale	06	1725CST			0	0	4K	0	Hail (1.25) Half dollar size hail was reported in Cottondale.
Jefferson County Huffman	06	1735CST			0	0	2K	0	Hail (1.00)
Jefferson County Trussville	06	1735CST			0	0	0	0	Hail (0.75) Quarter size hail was reported in Huffman. Dime size hail was reported in Trussville.
Tuscaloosa County Tuscaloosa	06	1745CST			0	0	5K	2K	Hail (1.25) Hail the size of half dollars was reported in Tuscaloosa.
Jefferson County Hoover	06	1745CST			0	0	0	0	Hail (0.88) Nickel size hail was reported at US 280 and I-459.
Shelby County 6 NW Chelsea	06	1750CST			0	0	0	0	Hail (0.75)
Shelby County 8 NW Vincent	06	1755CST			0	0	2K	0	Hail (1.00) Dime size hail was reported in Inverness. Hail the size of quarters was reported in Vandiver, in the northern part of the county.
Tuscaloosa County Duncanville	06	1755CST			0	0	2K	0	Hail (1.00) Quarter size hail was reported in Duncanville.
Bibb County 6 NW Centreville	06	1810CST			0	0	5K	0	Hail (1.25) Larger than quarter sized hail was reported in Eoline.
Bibb County Brent	06	1825CST			0	0	10K	2K	Hail (1.75) Golf ball size hail was reported in Brent.
Bibb County 6 SE Brent to 7 SE Brent	06	1845CST			0	0	40K	30K	Hail (2.00)
Perry County 18.5 NE Marion	06	1855CST			0	0	10K	20K	Hail (2.00) Four to five trailers had their windows knocked out by Hen Egg sized hail along SR 219. Twenty-three acres of timber was damaged due to the hail. The hail damage continued into Perry county along SR 219 where mostly tree damage occurred.
Chilton County 2 SW Maplesville	06	1915CST			0	0	2K	0	Hail (1.00) Quarter size hail was reported southwest of Maplesville.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Dallas County Plantersville	06	1930CST			0	0	0	0	Hail (0.75)
									Dime size hail was reported in Plantersville.
Montgomery County 4 S Ramer	06	2230CST			0	0	2K	0	Hail (1.00)
									Quarter size hail was reported south of Ramer.
Lauderdale County Lexington	07	0353CST			0	0	0	0	Hail (0.75)
Lauderdale County 9 NE Florence	07	0358CST			0	0	5K	0	Thunderstorm Wind (G50)
Lauderdale County Anderson	07	0406CST			0	0	10K	4K	Hail (1.75)
									Dime size hail was reported in Lexington. Trees were down in the Happy Hollow area. Golf ball size hail was reported in Anderson.
Limestone County Cairo	07	0408CST			0	0	0	0	Hail (0.75)
									Dime size hail was reported in Cairo.
Limestone County 5 SSE Ardmore	07	0449CST			0	1	50K	0	Thunderstorm Wind (G60)
									A person was injured when his mobile home was overturned and destroyed during a thunderstorm.
Limestone County Capshaw	07	0502CST			0	0	0	0	Hail (0.88)
									Dime size hail was reported north of US 72 along the Limestone/Madison county line.
Madison County Toney	07	0503CST	1.5	50	0	0	100K	0	Tornado (F1)
									Six homes were damaged in the Toney community, in northern Madison county. One home had major damage, one had moderate damage and four had minor damage.
Madison County New Market	07	0527CST 0530CST	2	75	0	0	110K	0	Tornado (F1)
									Trees were down in the New Market area, this damaged several homes in the area. One home had major damage and four homes had minor roof damage.
Jackson County Scottsboro	07	0527CST			0	0	0	0	Hail (0.75)
									Dime size hail was reported in Scottsboro.
Marshall County 4 N Guntersville	07	0545CST			0	0	10K	5K	Thunderstorm Wind (G50)
									Numerous trees were blown down near Claysville.
Dekalb County 5 NE Ider	07	0600CST			0	0	20K	4K	Thunderstorm Wind (G50)
									Trees were down and the Beulah Chapel Baptist Church sustained roof damage, all in the Cartersville community.
Limestone County Ardmore	07	1527CST			0	0	0	0	Hail (0.75)
									Dime size hail was reported in Ardmore.
Madison County Toney	07	1533CST			0	0	0	0	Hail (0.75)
Madison County Hazel Green	07	1543CST			0	0	2K	0	Hail (1.00)
									Dime size hail was reported in Toney. Hail the size of quarters was reported in Hazel Green.
Jackson County 5 E Bridgeport	07	1555CST			0	0	2K	0	Hail (1.00)
Jackson County Bridgeport	07	1556CST			0	0	5K	2K	Hail (1.50)
									Quarter size hail was reported in Bryant, in the northeast part of the county. Hail one inch to one and a half inches was reported in Bridgeport.
Madison County New Market	07	1604CST			0	0	10K	5K	Hail (1.75)
									Golf ball size hail was reported in New Market.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Jackson County 16 NW Scottsboro	07	1622CST			0	0	2K	0	Hail (1.00)
Jackson County Skyline	07	1625CST			0	0	2K	0	Hail (1.00)
One inch hail was reported in Princeton. One inch hail was reported in Skyline.									
Jackson County Hollywood	07	1644CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported in Hollywood.									
Dekalb County Henagar to 5 N Valley Head	07	1700CST 1710CST			0	0	45K	15K	Hail (1.75)
Hail fell in an area from Henagar to north of Valley Head. Half dollar size hail fell in Henagar with golf ball size hail in the Ider area and along I-59 at mile marker 235.									
Franklin County Belgreen	07	1810CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported in Belgreen.									
Limestone County 5 N Athens	07	1850CST			0	0	10K	5K	Hail (1.75)
Golf ball size hail was reported north of Athens.									
Jackson County Skyline	07	1855CST			0	0	0	0	Hail (0.75)
Penny sized hail was reported in Skyline.									
Winston County 10 NE Double Spgs	07	1855CST			0	0	10K	5K	Hail (1.75)
Golf ball size hail was reported in Grayson, in the northern part of the county.									
Cullman County Jones Chapel	07	1910CST			0	0	10K	5K	Hail (1.75)
Golf ball size hail was reported in Jones Chapel.									
Jackson County Hollywood	07	1915CST			0	0	40K	20K	Hail (2.50)
Tennis ball size hail was reported in Hollywood. It knocked out windows in a few mobile homes.									
Madison County Huntsville	07	1915CST			0	0	2K	0	Hail (1.00)
Hail the size of quarter was reported in Huntsville.									
Jackson County Rosalie	07	1920CST			0	0	10K	5K	Hail (1.75)
Golf ball size hail was reported in Rosalie.									
Dekalb County Henagar	07	1927CST			0	0	10K	5K	Hail (1.75)
Golf ball size hail was reported in Henagar.									
Cullman County Cullman	07	1929CST			0	0	10K	5K	Hail (1.75)
Golf ball size was reported in Cullman.									
Dekalb County Valley Head	07	1935CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Valley Head.									
Franklin County Russellville	07	1950CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Russellville.									
Winston County 5 NE Haleyville	07	1953CST			0	0	2K	0	Hail (1.00)
Quarter size hail was reported northeast of Haleyville.									
Morgan County Hartselle	07	1955CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in Hartselle.									
Blount County Cleveland	07	2005CST			0	0	0	0	Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Blount County 9 WNW Oneonta	07	2007CST			0	0	2K	0	Hail (1.00)
Blount County Locust Fork	07	2009CST			0	0	2K	0	Hail (1.00)
Nickel size hail was reported in Cleveland; Hail the size of quarters was reported in Nectar and in Locust Fork.									
Dekalb County Rainsville	07	2022CST			0	0	2K	0	Hail (1.00)
Dekalb County Ft Payne	07	2028CST			0	0	2K	0	Hail (1.00)
One inch hail was reported in Rainsville. Quarter size hail was reported in Fort Payne.									
Cullman County Trimble	07	2035CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Trimble.									
Etowah County 6 S Gadsden	07	2100CST			0	0	20K	5K	Thunderstorm Wind (G55)
Several trees were blown down and about six utility poles were clipped along SR 77. Part of a barn roof was also blown off in the same area.									
Winston County 3 E Haleyville	07	2105CST			0	0	2K	0	Hail (1.00)
Quarter size hail was reported between Haleyville and Double Springs.									
Franklin County 2 SW Phil Campbell	07	2110CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported southwest of Phil Campbell.									
Calhoun County 10 NE Anniston	07	2230CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported in White Plains.									
Cleburne County Heflin	07	2245CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported in Heflin.									
Pickens County 1.7 NW Carrollton to 1.2 NNE Carrollton	09	1809CST 1813CST	2.2	50	0	0	50K	10K	Tornado (F0)
A weak tornado touched down northwest of Carrollton and uprooted and snapped several trees. The tornado actually moved across the Pickens County Hospital on the north side of Carrollton on SR 17. Minor roof damage was done at the hospital but there were a number of trees down.									
Pickens County Reform	09	1810CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported in Reform by the EMA.									
Pickens County 2 SE Gordo	09	1820CST			0	0	10K	4K	Hail (1.75)
Golf ball size hail was reported by storm spotters, near US 82 and SR 86.									
Pickens County 1.4 S Gordo to 4 SE Gordo	09	1820CST 1826CST	3.8	75	0	0	25K	5K	Tornado (F0)
Tuscaloosa County 1.6 NW Holman to 2.3 NE Holman	09	1826CST 1830CST	2.7	60	0	0	15K	5K	Tornado (F0)
A weak tornado touched down in a wooded area south of Gordo producing damage along a 6.5 mile track crossing from Pickens County into Tuscaloosa County. Damage was primarily in the form of downed trees though several structures sustained minor damage. This tornado apparently came out of the same thunderstorm that produced the weak tornado on the north side of Carrollton earlier. This tornado damage path also crossed the damage path that occurred with the F3 tornado on April 8, 1998.									
Tuscaloosa County 3 N Tuscaloosa	09	1840CST			0	0	2K	0	Hail (1.00)
Tuscaloosa County 3 NW Northport	09	1849CST			0	0	10K	4K	Hail (1.75)
Tuscaloosa County 2 N Northport	09	1852CST			0	0	10K	4K	Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
			Hail the size of quarters was reported by storm spotters, north of Tuscaloosa. Golf ball size hail was reported by storm spotters, at SR 43 and CR 63. Golf ball size hail was reported by storm spotters, north of Northport.						
Pickens County Aliceville	09	1845CST			0	0	10K	5K	Hail (1.75)
			Golf ball size hail was reported in Aliceville by the EMA.						
Pickens County 2 S Aliceville	09	1845CST			0	0	15K	10K	Thunderstorm Wind (G60)
			Numerous trees were down on the south side of Aliceville.						
Greene County Union	09	1925CST			0	0	20K	6K	Hail (1.75)
			Golf ball size hail was reported in Union, damaging a few cars.						
Tuscaloosa County 4.5 SW Tuscaloosa to 9.4 SE Tuscaloosa	09	1927CST			0	0	75K	20K	Thunderstorm Wind (G65)
			Thunderstorm wind did minor damage to 17 homes and a business, just south of the Tuscaloosa city limits. Several trees were snapped and uprooted in a path that extended for about 11 miles. The area of the damage was from I-20 about 4 miles west of Exit 71 through the Taylorville area and along US 82 to about 2 miles south of Exit 77.						
Jefferson County Concord	09	1941CST			0	0	0	0	Hail (0.75)
Jefferson County Pleasant Grove	09	1941CST			0	0	0	0	Hail (0.75)
Jefferson County Bessemer	09	1945CST			0	0	50K	0	Thunderstorm Wind (G50)
			Dime size hail was reported in the Pleasant Grove area by storm spotters. Dime size hail was reported in Concord by storm spotters. A large metal Wal-Mart sign was twisted and bent over just off I-59 and a metal awning was destroyed at a furniture store.						
Tuscaloosa County Brookwood	09	1948CST			0	0	4K	4K	Hail (1.25)
			Dime to half dollar size hail was reported in Brookwood by storm spotters.						
Bibb County West Blocton	09	2000CST			0	0	15K	5K	Thunderstorm Wind (G55)
			Trees were downed falling on a house and a church in West Blocton.						
Chilton County 5 NNE Jemison	09	2030CST			0	0	15K	0	Thunderstorm Wind (G50)
			About a half dozen trees were down along I-65 north of Jemison along the west side of the interstate.						
Shelby County 2 S Montevallo	09	2043CST			0	0	5K	2K	Thunderstorm Wind (G50)
			Trees were reported down south of Montevallo.						
Tuscaloosa County Samantha	09	2135CST			0	0	0	0	Hail (0.88)
			Nickel size hail was reported by storm spotters at Northside High School in Samantha.						
Clay County Lineville	09	2230CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported by storm spotters in Lineville .						
Jefferson County Minor	09	2231CST			0	0	0	0	Hail (0.75)
Jefferson County Edgewater	09	2235CST			0	0	0	0	Hail (0.75)
Jefferson County Trussville	09	2248CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported by storm spotters in Minor and McDonalds Chapel. Dime size hail was also reported in Trussville.						
Randolph County 11 NE Wedowee	09	2245CST			0	0	0	0	Hail (0.75)
			Dime size hail was covering the ground in the Hawk community.						
Jefferson County 10 NE Birmingham	09	2258CST			0	0	0	0	Hail (0.75)
			Dime size hail was reported at Medical Center East.						
Tallapoosa County Alexander City	10	0504CST			0	0	75K	2K	Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, North Central</u>									
									A large Texaco sign was destroyed, several cars were pushed around at an apartment parking lot, and numerous trees and power lines were down.
Colbert County Muscle Shoals	26	1230CST 1330CST			0	0	15K	6K	Thunderstorm Wind (G50)
									EMA reported trees and powerlines down in Muscle Shoals. Hail reportedly covered the ground though no size was available.
Lauderdale County Cloverdale	26	1250CST			0	0	0	0	Hail (0.75)
Lauderdale County Cloverdale	26	1250CST 1259CST			0	0	8K	3K	Thunderstorm Wind (G50)
									Dime size hail was reported along with wind damage to several buildings in Cloverdale.
Limestone County Ripley	26	1320CST			0	0	2K	0	Hail (1.00)
Limestone County Ripley	26	1320CST			0	0	8K	0	Thunderstorm Wind (G50)
									Quarter size hail was reported at Ripley. EMA also reported several buildings sustained minor damage.
Lawrence County 13 NW Moulton	26	1336CST			0	0	2K	2K	Hail (1.00)
									Quarter size hail was reported at Wolf Springs just south of SR 157.
Limestone County 4.3 SW Athens	26	1345CST			0	0	0	0	Hail (0.75)
Limestone County 4.3 SW Athens	26	1345CST			0	0	5K	2K	Thunderstorm Wind (G50)
									Dime size hail and minor damage to several buildings was reported southwest of Athens in the Turner Chapel area.
Marshall County Grant	26	1524CST 1535CST			0	0	5K	10K	Thunderstorm Wind (G55)
									Numerous trees and several powerlines were reported down on Highway 79 east of Grant.
Lamar County Vernon	28	1905CST 1912CST			0	0	0	0	Hail (0.75)
									Marble to dime size hail was reported by EMA and the Lamar County Sheriff's Department in Vernon. The hail fell for about 7 minutes.
Calhoun County 2 N Anniston	29	1145CST			0	0	0	0	Hail (0.75)
									Dime size hail was reported at Saks on the north side of the city of Anniston by the Calhoun County Sheriff's Office.
Dallas County 3 W Selma	30	1530CST			0	0	0	0	Hail (0.88)
									Nickel size hail was reported to the west of Selma.
<u>ALABAMA, Southeast</u>									
Henry County Lawrenceville	03	1515EST			0	0			Hail (0.75)
									Dime sized hail reported 10 miles northeast of Abbeville (5 miles east of Lawrenceville) along State Highway 95.
Coffee County New Brockton	03	1730EST	0.3	.2	0	0	5K		Tornado (F0)
									Tornado downed trees and power lines at intersection of State Highways 233 and 167 near New Brockton. A funnel cloud was sighted earlier near Elba.
Coffee County Enterprise	03	2310EST			0	0			Hail (1.75)
									Golfball sized hail in Enterprise.
Henry County Abbeville	03	2310EST			0	0			Hail (1.00)
									Dime to quarter sized hail in Abbeville.
Dale County Ariton	03	2315EST			0	0			Hail (1.75)
									Golfball sized hail reported by Dale County S.O. in Ariton.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, Southeast</u>									
Houston County									
Dothan	04	0000EST 0010EST			0	0			Hail (1.75)
Numerous reports of dime to golfball sized hail in and around the city of Dothan. Nickel sized hail also observed in Ashford.									
Dale County									
Midland City	04	0015EST 0040EST			0	0			Hail (0.88)
Nickel sized hail in Midland City. Numerous reports of dime to quarter sized hail from Daleville and Fort Rucker.									
Houston County									
Wicksburg	04	0028EST			0	0			Hail (0.88)
Nickel sized hail in Wicksburg.									
Houston County									
Ashford	04	0128EST	0.2	.1	0	0			Tornado (F0)
Tornado spotted by public three miles east of Ashford.									
Geneva County									
Geneva	04	0130EST			0	0			Hail (0.75)
Dime sized hail reported by Geneva P.D.									
<u>ALABAMA, Southwest</u>									
Mobile County									
Prichard	02	1507CST 1509CST			0	0			Hail (1.00)
Quarter size hail fell in the community.									
Choctaw County									
Pennington to Butler	03	1330CST 1332CST			0	0			Hail (0.75)
Dime size hail fell from Butler to Pennington.									
Choctaw County									
Butler	03	1335CST 1337CST			0	0			Hail (1.00)
Quarter size hail fell in the community.									
Choctaw County									
Butler	03	1355CST 1356CST			0	0			Hail (0.75)
Dime size hail was reported in Butler.									
Wilcox County									
Camden	03	1440CST 1442CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down near Camden.									
Monroe County									
Nadawah	03	1445CST 1446CST			0	0			Hail (0.75)
Dime hail was reported near Nadawah.									
Conecuh County									
Brooklyn	03	1545CST 1547CST			0	0			Hail (0.75)
Dime size hail was reported just west of Brooklyn.									
Butler County									
Greenville	03	1555CST 1557CST			0	0	15K		Thunderstorm Wind (G75)
The county sheriff's office estimated thunderstorm winds near 80 mph in the community with reports of several trees down and some homes suffered window damage.									
Covington County									
River Falls	03	1604CST 1606CST			0	0	10K		Thunderstorm Wind (G55)
Numerous trees were reported down in the community.									
Covington County									
Andalusia	03	1640CST 1642CST			0	0			Hail (0.75)
Dime size hail fell in the community.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, Southwest									
Mobile County Saraland	03	1805CST 1807CST			0	0			Hail (0.88)
			Nickel size hail fell in the community.						
Mobile County Mt Vernon	03	1825CST 1827CST			0	0			Hail (1.75)
			Golfball size hail fell in the community.						
Washington County Mc Intosh	03	1828CST 1829CST			0	0			Hail (0.75)
			Dime size hail fell in the community.						
Escambia County Brewton	03	1830CST 1832CST			0	0			Hail (0.75)
			Dime size hail fell near the community.						
Clarke County Choctaw Bluff	03	1835CST 1836CST			0	0			Hail (0.75)
			Dime size hail was reported near Choctaw Bluff.						
Monroe County Mineola to Uriah	03	1850CST 1856CST			0	0	50K	30K	Hail (2.75)
			Baseball to golfball size hail fell from Miniola to Uriah. This is the second month in a row that this area has received large hail. The area did not suffer as much damage from this storm as they did from the April storm.						
Mobile County Citronelle	03	1850CST 1851CST			0	0			Hail (0.75)
			Dime size hail was reported just east of Citronelle.						
Monroe County Goodway	03	1854CST 1859CST			0	0			Hail (1.75)
			Golfball size hail fell near the community.						
Monroe County Chrysler	03	1855CST 1900CST			0	0	10K		Hail (2.75)
			Baseball size hail fell in the community. Some vehicles in the area of the large hail were damaged.						
Baldwin County Bay Minette	03	1908CST 1910CST			0	0			Hail (0.75)
			Dime size hail fell in the community.						
Monroe County Frisco City	03	1917CST 1922CST			0	0			Hail (1.75)
			Golfball size hail was reported in the community.						
Conecuh County Evergreen	03	1935CST 1936CST			0	0			Hail (0.75)
			Dime size hail was reported near Evergreen.						
Baldwin County Bay Minette	03	1938CST 1940CST			0	0			Hail (1.75)
			Golfball size hail was reported in the community.						
Baldwin County Bay Minette	03	2011CST 2013CST			0	0			Hail (0.75)
			Dime size hail was reported in the community.						
Crenshaw County Luverne	03	2025CST 2027CST			0	0	3K		Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALABAMA, Southwest

Trees and power lines were blown down just south of Luverne.

Butler County

Mc Kenzie	03	2030CST 2032CST			0	0			Hail (1.00)
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Quarter size hail was reported in the community.

Butler County

Mc Kenzie	03	2145CST 2147CST			0	0	10K		Hail (2.75)
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Baseball size hail was reported in the community. The hail damaged several vehicles where the large hail fell.

Conecuh County

Owassa	03	2205CST 2207CST			0	0	10K		Hail (2.75)
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Baseball size hail was reported near Owassa. Some damage to vehicles was reported.

Mobile County

Dauphin Is	06	1225CST 1229CST			0	0			Hail (1.75)
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Golfball size hail was reported on an oil rig just south side of the island with dime size hail reported on the west end of the island.

ALASKA, Northern

AKZ005

Upper Yukon Valley

	07	0000AST 2300AST			0	0			Heavy Snow
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Snowfall of 6 inches was reported on the Taylor Highway milepost 101, near the village of Eagle, by the Alaska Department of Transportation, Thursday morning. Total snowfall amount by the time the snow ended Thursday evening likely exceeded 6 inches, but is unknown.

AKZ007

Tanana Valley

	08	1000AST			0	0			High Wind (G52)
	09	1500AST							

A long period of strong southerly winds occurred through the Alaska Range. Wind gusts to 60 mph were reported at Healy on the morning of the 8th, and gusts to 52 mph at Delta Junction on the morning of the 9th.

AKZ007

Tanana Valley

	15	0600AST 1700AST			0	0			High Wind (G49)
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South winds increased through the Alaska Range resulting in winds gusting to 56 mph at both Healy and Delta Junction. Other unofficial sites in the Healy areas reported wind gusts to 82 mph and 68 mph.

AKZ007

Tanana Valley

	17	1400AST 1600AST			0	0			High Wind (G52)
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Strong winds through the Alaska Range brought gusts to 60 mph at Healy, and gusts to 53 mph at Delta Junction.

AKZ005

Upper Yukon Valley

	26	1500AST			0	0			Flood
	30	1400AST							

Koyukuk / Upr Kobuk Vly

Bettles Field to Central Portion	26	1500AST			0	0	250K		Flood
	31	0000AST							

Rain (26th-27th, and 30th-31st) over the northern Koyukuk Valley and northwest Upper Yukon Valley combined with rapid snowmelt to cause flooding on the Koyukuk River and the Chandalar River. High water on the Chandalar River at Venetie caused flooding of the sewage pond. On the Koyukuk River, high water flooded 1600 ft of a 4000ft gravel runway at Allakaket, swept away one floatplane dock at Bettles, and 30 ft of bank and road of the road from Bettles to Evansville (a mile or so away), some Bank erosion also occurred at Huslia, though no structures were damaged. On the Dalton Highway, the Snowden River (flowing into the Koyukuk River) rose high enough at MilePost 213.5 to cover the road the 26th, and receded later on the 27th. Rain amounts for the event ranged from .75 inch to 1.8 inch for the 26th-27th, and .5 inch to 1.7 inch for the 30th-31st. This event continued into June on the Koyukuk River only.

AKZ007

Tanana Valley

	30	1100AST 1300AST			0	0			High Wind (G47)
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A weather front moving north over the Alaska Range brought winds of 40 mph sustained with gusts to 54 mph at Delta Junction. Nearby Whitestone Farms Co-op site reported "Gale Force Winds" that same day.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

ALASKA, Southeast

NONE REPORTED.

ALASKA, Southern

AKZ019

Western Alaska Peninsula

01	1200AST								
	2200AST			0	0				High Wind (G53)

Southeast winds ahead of a moderate warm front were locally channelled around Cold Bay...producing wind gusts of 61 mph near the airport.

AKZ015-017-019>020

Cook Inlet - Central Gulf Coast - Western Alaska Peninsula - Aleutian Islands

03	0000AST								
	05 2200AST			0	0				High Wind (G55)

A moderate front moved into the extreme western Aleutians early Sunday...continuing to elongate east northeastward into the mainland. By late Tuesday evening, the front extended in a weakened form from the southwest corner of the Kuskokwim Valley into the western Alaska Range, through the Kenai Peninsula and into Middleton Island. Brisk southeasterly winds preceded the front. Gusts reached 63 mph across the Aleutians, 54 mph across the western Alaska Peninsula, 55 mph through Turnagain Arm and along the Anchorage Upper Hillside and 44 mph across exposed areas adjacent to Prince William Sound. Additionally, brisk westerly winds gusting near 60 mph were reported Monday along the south quadrant of the parent low...which moved all the way from just southeast of the Kamchatka Peninsula very early Sunday into the southcentral Bering Sea as a 972mb center Monday. The low finally began to weaken off the southwest coast of the State Tuesday and early Wednesday.

AKZ011-015-017-019>020

Kuskokwim Delta - Cook Inlet - Central Gulf Coast - Western Alaska Peninsula - Aleutian Islands

07	0000AST								
	09 2000AST			0	0				High Wind (G52)

A deepening low moved across the central Aleutians early Thursday...moving into the Pribilofs as a 976mb center early Friday. The low then curved northeast to Nunivak Island early Saturday weakening to 986 mbs. The low weakened rapidly thereafter. The associated front moved into the Alaska Peninsula and just southwest of the Alaskan coast early Friday, finally weakening in a long arc from the west-central Alaskan Interior to just east of Cordova into the southeastern Gulf of Alaska. Brisk southeast winds, gusting to 60 mph in channelled areas, preceded the front from the Aleutians to the Alaska Peninsula, into the Turnagain Arm and Upper Anchorage Hillside areas of the Cook Inlet zone...and finally into exposed areas adjacent to Prince William Sound, including Cordova and Middleton Island.

AKZ011-015-017-019>021

Kuskokwim Delta - Cook Inlet - Central Gulf Coast - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

13	1200AST								
	15 2359AST			0	0				High Wind (G63)

A strong 976mb low moved into the western Aleutians from the western Pacific early Thursday. The low moved by the Pribilofs early Friday...finally weakening near the Bering Strait late Friday. The associated front moved north and east...into the southwest Alaskan Coast early Friday...finally weakening in an arc from the northwest corner of the State into east Anchorage and across Middleton Island at 10 pm Friday. Moderate to locally strong southeasterly winds preceded the front...reaching gusts of 72 mph along the Anchorage Hillside and through Turnagain Arm. Brisk westerly winds were reported along the "back" side of the low along the Aleutians and Alaska Peninsula...gusting locally from 50 to near 60 mph.

AKZ011-015-017-019>021

Kuskokwim Delta - Cook Inlet - Central Gulf Coast - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

16	0000AST								
	19 1200AST			0	0				High Wind (G52)

An intensifying low moved across the central Aleutians late Saturday afternoon...reaching at least a 968mbs around the Pribilofs early Sunday. The center then looped slowly in the central Bering before weakening Monday. The associated front elongated out from the low into an arc from Norton Sound to Kodiak Island late Sunday...then from a frontal low east of Kodiak into the southeastern Gulf of Alaska late Monday afternoon. The front finally weakened in an arc across the Copper River Basin to near Cape Fairweather late Tuesday morning. Brisk southeast winds were observed in advance of the front, gusting up to 60 mph. Additionally, on the back side of the low, brisk westerly winds again raked the central and western Aleutians.

AKZ015-017

Cook Inlet - Central Gulf Coast

20	0000AST								
	2359AST			0	0				High Wind (G56)

A moderate front crossing the area from the southeast produced wind gusts near 45 mph across exposed areas adjacent to Prince William Sound and near 65 mph through Turnagain Arm and along the upper Anchorage Hillside.

AKZ015

Cook Inlet

22	0400AST								
	1400AST			0	0				High Wind (G54)

A moderate front moving northwestward through the Turnagain Arm area produced wind gusts up to 62 mph at the Portage Visitor

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Southern

Center located at the head of the Arm.

AKZ019>020		Western Alaska Peninsula - Aleutian Islands							
	23	1800AST			0	0			High Wind (G37)
	25	1600AST							
	A moderate front crossed east northeast through the Aleutians Sunday and through the Alaska Peninsula Monday. East to southeast winds preceding the front reached speeds of 43 mph in areas where winds are channelled by terrain. Both Cold Bay and Adak reported prefrontal wind gusts of 43 mph.								

AKZ019>020		Western Alaska Peninsula - Aleutian Islands							
	28	0300AST			0	0			High Wind (G42)
	29	1200AST							
	A moderate front, approaching the area from the North Pacific, was preceded by brisk southeasterly winds. Gusts reached 48 mph at the Dutch Harbor airport and 44 mph at Cold Bay...where at both locations southeasterly winds are channelled by terrain.								

AKZ015-019>020		Cook Inlet - Western Alaska Peninsula - Aleutian Islands							
	28	1200AST			0	0			High Wind (G35)
	30	1200AST							
	A moderate front, moving northeast through the area, was preceded by brisk southeasterly winds...gusting near 40 mph in channelled areas of the eastern Aleutians, the Alaska Peninsula and around Turnagain Arm.								

AMERICAN SAMOA

NOT RECEIVED.

ARIZONA, Central and Northeast

Coconino County									
15 E Jacob Lake	14	1215MST	0.1	25	0	0	0	0	Tornado (F0)
		1225MST							

Three NWS employees observed this weak tornado on the Kaibab Plateau.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

NONE REPORTED.

ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Marion County									
Peel	02	1634CST			0	0			Hail (0.88)
Baxter County									
Mountain Home	02	1705CST			0	0			Hail (0.88)
Newton County									
2 NE Deer	02	1710CST			0	0			Hail (0.75)
Scott County									
3 E Bates	02	1724CST			0	0			Hail (1.00)
Izard County									
5 N Pineville	02	1735CST			0	0			Hail (0.75)
Yell County									
Danville	02	1750CST			0	0			Thunderstorm Wind (G50)
	Thunderstorm winds downed some trees and power lines.								
Polk County									
5 NE Ink	02	1810CST			0	0			Hail (1.00)
Conway County									
Center Ridge	02	1825CST			0	0			Thunderstorm Wind (G50)
	Thunderstorm winds blew down some large tree limbs.								

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Faulkner County									
Guy	02	1840CST 1842CST			0	0			Hail (0.75)
			Hail up to dime size covered the ground at Guy.						
Faulkner County									
5 E Guy	02	2150CST			0	0			Hail (0.75)
Logan County									
8 SE Booneville	02	2155CST			0	0			Hail (0.75)
Pope County									
Russellville	02	2155CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some large tree limbs.						
Yell County									
Dardanelle	02	2155CST			0	0			Hail (0.88)
Pope County									
3 SW Atkins	02	2205CST			0	0			Hail (0.88)
Scott County									
Waldron	02	2205CST			0	0			Hail (1.00)
Conway County									
5 SW Ada	02	2215CST			0	0			Hail (1.00)
Perry County									
Adona	02	2223CST			0	0			Hail (0.88)
Perry County									
Perryville	02	2230CST			0	0			Hail (1.00)
Montgomery County									
Story	02	2245CST			0	0			Hail (0.75)
Pulaski County									
3 NW Roland	02	2249CST			0	0			Hail (1.75)
Pulaski County									
Maumelle	02	2255CST			0	0			Hail (0.75)
Pulaski County									
3 N Maumelle	02	2259CST			0	0			Hail (1.00)
Pulaski County									
North Little Rock	02	2312CST			0	0			Hail (0.75)
Pulaski County									
Gravel Ridge	02	2315CST			0	0			Hail (0.75)
Pulaski County									
Jacksonville	02	2320CST			0	0			Hail (1.75)
Lonoke County									
2 NW Lonoke	02	2325CST			0	0			Hail (0.75)
Garland County									
Lonsdale	02	2345CST			0	0			Hail (0.75)
Conway County									
Hattieville	03	0215CST			0	0	150K		Lightning
			Lightning struck several chicken houses near Hattieville, resulting in a fire. The fire destroyed one chicken house and damaged three others.						
Boone County									
Omaha	06	0055CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some large tree limbs.						
Polk County									
Mena	06	0357CST			0	0			Hail (1.25)
Montgomery County									
8 W Norman	06	0440CST			0	0			Hail (1.00)
Clark County									
Gum Spgs	06	0620CST			0	0			Hail (0.75)
Marion County									
Pyatt	06	1445CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Baxter County Clarkridge	06	1533CST			0	0			Hail (0.75)
Boone County 5 N Harrison	06	2005CST			0	0			Hail (0.75)
Marion County Oakland	06	2015CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds knocked down some large tree limbs.
Baxter County Clarkridge	06	2030CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Johnson County Clarksville	06	2045CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds blew down a large tree.
Fulton County 10 S Mammoth Spg	06	2050CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed numerous trees. One house sustained damage after a tree fell on it. Two outbuildings were also destroyed.
Johnson County 3 E Lamar	06	2100CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed some large tree limbs.
Yell County Rover	06	2100CST			0	0			Hail (1.00)
Pope County 3 S Oak Grove	06	2130CST			0	0			Hail (1.00)
Pope County 4 N Atkins	06	2135CST			0	0			Hail (1.00) Hail up to one inch in diameter damaged the roofs of several buildings and also damaged a few vehicles.
Conway County St Vincent	06	2200CST			0	0			Hail (0.75)
Faulkner County Conway	06	2225CST			0	0			Hail (1.75)
Faulkner County 3 S Greenbrier	06	2225CST			0	0			Hail (1.75)
Garland County 4 SW Hot Spgs to 3 SSE Hot Spgs	06	2231CST 2237CST	3	300	0	0	500K		Tornado (F1) The tornado touched down along Highway 70 near the entrance to the Hot Springs Airport. A number of trees were knocked down in the yard of a residence at this location. The storm continued to move east southeast onto the airport property where a couple of trees and signs were blown down at the airport entrance. A few storage buildings, as well as a large hangar, were also damaged at the airport. Several planes parked near the hangar were blown several hundred yards off the tarmac. The next damage noted was about one half mile east southeast of the airport where a number of trees and power lines were knocked down. Several homes in the area also suffered roof damage. More significant damage was found along Central Avenue in Hot Springs where a number of businesses in several shopping malls sustained structural damage. Numerous trees, power lines and signs were also knocked down in the area. More trees and power lines were blown down about a half mile farther southeast. Several homes, storage buildings and fences were also damaged. The tornado finally lifted 3 miles south southeast of Hot Springs. Damage noted along the path of the tornado was consistent with an F1 rating.
Pulaski County Marche	06	2245CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed some trees.
Monroe County Clarendon	07	0115CST			0	0			Hail (1.00)
Clark County Hollywood	07	1633CST			0	0			Hail (1.75)
Dallas County Sparkman	07	1852CST			0	0			Hail (0.75)
Clark County Whelen Spgs	07	1954CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Boone County									
Harmon	09	0823CST			0	0			Hail (0.88)
Marion County									
10 WNW Flippin	09	0829CST			0	0			Hail (0.75)
Baxter County									
Clarkridge	09	0857CST			0	0			Hail (1.75)
Boone County									
Bergman	09	1233CST			0	0			Hail (1.00)
Johnson County									
Coal Hill	09	1245CST			0	0			Hail (0.75)
Newton County									
Deer	09	1330CST			0	0			Hail (0.88)
Boone County									
Everton	09	1333CST			0	0			Hail (0.75)
Pope County									
7 E Russellville	09	1340CST			0	0			Hail (0.88)
Baxter County									
Buford	09	1352CST			0	0			Hail (1.00)
Baxter County									
6 S Mountain Home	09	1355CST			0	0			Hail (0.75)
Izard County									
3 E Wiseman	09	1610CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds destroyed a storage building at a local golf course.
Pike County									
Murfreeboro	09	1615CST			0	0			Hail (1.75)
Searcy County									
Marshall	09	1633CST			0	0			Hail (1.00)
Searcy County									
Marshall	09	1633CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a large tree.
Searcy County									
4 SW Marshall	09	1635CST			0	0			Hail (1.75)
Searcy County									
4 SW Marshall	09	1635CST			0	0			Thunderstorm Wind (G58)
									Thunderstorm winds gusting up to 67 mph, knocked down a few trees.
Clark County									
Okolona	09	1650CST			0	0			Hail (0.75)
Stone County									
Timbo	09	1710CST			0	0			Hail (1.50)
Scott County									
Cedar Creek	09	1714CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew off a portion of the roof of a chicken house.
Hot Spring County									
4 E Bismarck	09	1725CST			0	0			Hail (1.75)
									Hail up to golfball size damaged several vehicles.
Hot Spring County									
2 SE Bismarck	09	1730CST			0	0			Hail (1.00)
Hot Spring County									
Caney	09	1730CST			0	0			Hail (1.00)
Hot Spring County									
Bismarck	09	1735CST			0	0			Hail (1.50)
Ouachita County									
Harmony Grove	09	1734CST			0	0			Hail (1.00)
Ouachita County									
Harmony Grove	09	1737CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARKANSAS, Central and North Central

Ouachita County

1.5 WNW Harmony Grove to 2 ENE Harmony Grove	09	1735CST 1742CST	3.5	100	0	0			Tornado (F0)
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An F0 tornado touched down about 1.5 miles west northwest of Harmony Grove. The tornado travelled to the east northeast for about 3.5 miles before lifting. Damage along the path of the tornado consisted of a number of trees and power lines being blown down. Some of the trees were twisted and fell in various directions. Several buildings sustained some minor roof damage. A couple of home TV antennas were also bent over.

Ouachita County

Harmony Grove	09	1743CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew a tree onto a house and blew the roof off a trailer.

Stone County

Mountain View	09	1750CST			0	0			Hail (0.75)
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Stone County

Pleasant Grove	09	1810CST			0	0			Hail (0.75)
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Hot Spring County

4 W Malvern	09	1818CST			0	0			Hail (0.75)
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Calhoun County

1 SE Harrell	09	1820CST			0	0			Hail (0.88)
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Grant County

1 NW Leola	09	1820CST			0	0			Hail (0.75)
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Bradley County

10 S Warren	09	1835CST			0	0			Hail (0.88)
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Hot Spring County

Malvern	09	1835CST			0	0			Hail (0.75)
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Independence County

Pfeiffer	09	1845CST			0	0			Hail (0.75)
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Hot Spring County

Malvern	09	1900CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed trees and some city street signs.

Drew County

1 E Lacey	09	1900CST			0	0			Hail (0.75)
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Cleburne County

Prim	25	0503CST			0	0			Hail (0.75)
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Scott County

3 SW Blue Ball	26	0310CST			0	0			Hail (0.75)
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White County

El Paso	26	0335CST			0	0			Hail (0.88)
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Pulaski County

12 WSW Little Rock	26	0630CST			0	0			Hail (0.75)
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Ouachita County

Stephens	26	1437CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down some power lines and poles.

Pike County

Delight	28	0215CST 0415CST			0	0			Flash Flood
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Heavy rains caused flash flooding in Delight. Several streets were underwater for a period of time. No significant damage occurred.

Logan County

Booneville	29	1115CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees.

Scott County

Waldron	29	1125CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down some trees and power lines.

Polk County

Acorn	29	1207CST			0	0			Thunderstorm Wind (G50)
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Power lines were blown down.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, East									
Randolph County Pocahontas	01	1805CST 1810CST			0	0	5K		Thunderstorm Wind
									Several trees and power lines were knocked down.
Randolph County Pocahontas	01	1810CST 1815CST			0	0	0.10K		Hail (1.00)
Poinsett County Lepanto	06	0240CST 0245CST			0	0	0.75K		Hail (1.75)
Randolph County Ravenden Spgs	06	2115CST 2120CST			0	0	0.01K		Hail (0.75)
Greene County Delaplaine	06	2210CST 2215CST			0	0	0.01K		Hail (0.75)
Crittenden County Waverly	07	0130CST 0135CST			0	0	1K		Thunderstorm Wind
									A few trees were knocked down.
Randolph County Ravenden Spgs	09	1711CST 1715CST			0	0	0.01K		Hail (0.75)
Lawrence County Walnut Ridge	09	1723CST 1730CST			0	0	0.01K		Hail (0.75)
Randolph County Noland to Shannon	09	1725CST 1735CST			0	0	40K		Thunderstorm Wind
									An unoccupied trailer was turned over in Noland. A trailer home was destroyed in Shannon. Several other mobile homes and several houses were damaged. Several trees were knocked down.
Lawrence County 2 SE Walnut Ridge to 7 E Walnut Ridge	09	1735CST 1740CST	6	50	0	0	25K		Tornado (F0)
									A tornado touched down near Walnut Ridge and moved northeast. One mobile home was destroyed and several others were damaged. Several houses had roof damage.
Greene County 4 SW Light to 4 NE Light	09	1740CST 1750CST	8	50	0	0	50K		Tornado (F1)
									A tornado crossed in from Lawrence county and moved northeast toward the town of Light. Several houses were damaged or destroyed. A few trees and power lines were knocked down.
Greene County Paragould	09	1755CST 1810CST			0	0	10K		Thunderstorm Wind
									A cellular phone tower as well as a few trees and power lines were blown down just west of Paragould.
Craighead County 1 S Jonesboro	09	1835CST 1840CST			0	0	1K		Thunderstorm Wind
									Several trees were knocked down.
Poinsett County 5 E Harrisburg to 1 N Trumann	09	1857CST 1912CST			0	0	1.5K		Hail (1.75)
Craighead County 4 S Jonesboro	09	1912CST 1920CST			0	0	10K		Thunderstorm Wind
									A trailer was overturned. A tree fell on a house.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, East									
Poinsett County 3 W Lepanto	09	1925CST 1930CST			0	0	0.05K		Hail (0.88)
Mississippi County Blytheville	09	2115CST 2120CST			0	0	0.05K		Hail (0.88)
ARKANSAS, Northwest									
Sebastian County Hartford	02	1639CST			0	0			Hail (0.75)
Sebastian County Greenwood	02	2117CST			0	0			Hail (1.75)
Sebastian County Hackett	02	2120CST Nickel-sized hail covered the ground			0	0			Hail (0.88)
Sebastian County Greenwood	02	2121CST			0	0			Hail (0.88)
A severe thunderstorm developed in southern Sebastian County on the afternoon of May 2 ahead of a southward-moving cold front. That evening, another round of severe thunderstorms moved in from eastern Oklahoma as the actual cold front approached. The primary threat from these storms was large hail as evidenced by hail as large as golfballs at Greenwood.									
Washington County Springdale	05	0715CST			0	0			Hail (0.75)
An isolated severe thunderstorm, producing dime-sized hail, formed near Springdale in advance of a larger complex of thunderstorms over eastern Oklahoma.									
ARZ010									
Washington	05	0904CST			0	0			High Wind (G52)
A non-convective 60 mile per hour wind gust was recorded at the Springdale airport tower (KASG) associated with a "wake low" following the large complex of thunderstorms that moved through earlier in the morning.									
Crawford County 4 E Chester	06	1826CST Reported at Artist Point			0	0			Hail (1.00)
Crawford County 4 E Chester	06	1830CST			0	0	50K		Thunderstorm Wind
Thunderstorm winds damaged the Boston Mountain Riding Stables along US Hwy 71 just north of Artist Point. The roof of a house on Boston Mountain Road was also torn off and the old zoo building was destroyed. There was also some damage in and near Chester.									
Crawford County 4 E Chester	06	1835CST Reported at Artist Point			0	0			Hail (1.25)
Washington County 5 SW Winslow	06	1835CST			0	0			Hail (1.75)
Crawford County 6 E Chester	06	1839CST	0.5	50	0	0			Tornado (F0)
A tornado was reported over Lake Fort Smith. Amateur video captured this wide-funnelled storm as it moved across the hilly terrain of northern Crawford County. Path length and width are estimated.									
Crawford County 10 ENE Chester	06	1849CST Reported at Lake Shepherd Springs			0	0			Hail (1.75)
Madison County 3 SW Combs	06	1853CST			0	0	0.50K		Thunderstorm Wind
Numerous large tree limbs were blown down across a county road 3 miles southwest of Combs									
Washington County Fayetteville	06	1915CST			0	0	0.50K		Lightning
Lightning hit a tranformer in downtown Fayetteville, knocking out power to some downtown buildings									
Crawford County 1 W Cedarville	06	1930CST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Northwest									
Washington County Fayetteville	06	1930CST			0	0			Hail (0.75)
Crawford County Cedarville	06	1933CST			0	0			Hail (0.88)
Crawford County 4 N Alma	06	1950CST			0	0	2K		Thunderstorm Wind
Roof damage to a building along US Hwy 71 between mile marker 15 and 17 in Crawford County.									
Sebastian County Hartford	06	2006CST			0	0			Hail (1.00)
Sebastian County Hartford	06	2006CST			0	0	0.50K		Lightning
Lightning hit a transformer, causing a small power outage in Hartford.									
Sebastian County 4 ENE Hartford	06	2008CST			0	0	0.10K		Thunderstorm Wind
A tree was blown across SH 96 between Mansfield and Hartford.									
Sebastian County Huntington	06	2010CST			0	0			Hail (0.75)
Sebastian County 2 N Midland	06	2010CST			0	0			Hail (1.75)
Sebastian County Mansfield	06	2011CST			0	0	0.10K		Thunderstorm Wind
A large tree was blown down in Mansfield									
Summary of events for May 6 1998:									
Numerous severe thunderstorms developed during the late afternoon and evening over eastern Oklahoma and then moved into westcentral and northwest Arkansas between 700 and 930 PM CDT. Many of these thunderstorms developed rotation with one storm ultimately producing a tornado.									
The storm that produced a tornado was the first to move into Arkansas. It first developed over Sequoyah County in Oklahoma and then moved into northern Crawford County around 715 PM CDT. From there, it developed very rapidly and began rotating, finally producing a tornado touchdown near Lake Fort Smith. Besides a tornado, this storm also produced hail to the size of golfballs.									
Another cluster of severe thunderstorms, with a history of brief tornado touchdowns and funnel clouds in Oklahoma, moved across northern Crawford County between 830 and 900 PM CDT. Finally, a severe thunderstorm with a long history of rotation and tornadoes moved across southern Sebastian County between 900 and 930 PM CDT. Thankfully, there were no known tornadoes in Sebastian County, but the storm produced hail as large as golfballs.									
The severe thunderstorms formed as a weak cold front shifted south over the area and a wave of low pressure approached from the west and southwest. An upper level disturbance helped to break a cap of warm air in the mid-levels which had held firm for most of the day.									
Carroll County 4 N Eureka Spgs	09	0725CST			0	0			Hail (1.00)
Carroll County Berryville	09	0756CST			0	0			Hail (1.75)
Carroll County Oak Grove	09	0805CST			0	0			Hail (1.00)
Quarter-sized hail covered the ground									
Carroll County 3 NE Oak Grove	09	0811CST			0	0			Hail (1.75)
Golfball-sized hail along state line near Blue Eye, MO									
Madison County 15 S Huntsville	09	0815CST			0	0			Hail (0.75)
Madison County Marble	09	0830CST			0	0			Hail (0.88)
Carroll County Metalton	09	0845CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARKANSAS, Northwest

Benton County
Garfield **09** **1230CST** **0** **1** **Lightning**
 A 16-year old girl was struck by lightning along Shaffer Road in Garfield. The victim was listed in stable condition next day.

Franklin County
Altus **09** **1230CST** **0** **0** **Hail (0.75)**

Summary of events for May 9 1998:

Three isolated severe thunderstorms developed across northwest Arkansas to the north of a warm front on the morning of May 9. The first storm developed just north of Eureka Springs around 815 AM CDT and moved northeast into Missouri. A second severe storm formed to the south of Berryville around 850 AM CDT and moved northeast into Missouri by 915 AM CDT. A third severe storm formed over southern Madison County and moved across Marble and Metalton. Early in the afternoon, severe storms weakened as they moved out of eastern Oklahoma but reintensified to severe levels over southern Franklin County as an upper level low and cold air aloft approached and daytime heating took place. The primary threat with any of these storms was very large hail to the size of golfballs.

Benton County
Cave Spgs **25** **0200CST** **0** **0** **Hail (0.75)**

Madison County
Forum **25** **0230CST** **0** **0** **Thunderstorm Wind (G52)**
 Reported at Withrow Springs State Park

Carroll County
Eureka Spgs **25** **0240CST** **0** **0** **1K** **Thunderstorm Wind (G52)**
 Tree limbs were blown down onto power lines

Washington County
Fayetteville **25** **0300CST**
0400CST **0** **0** **5K** **Urban/Sml Stream Fld**
 AQ Chicken reported severe flooding and had to be closed until they could reclaim all of the dead chickens that floated away. There was an unofficial report of 1.5 inches in Wedington Woods falling in less than one hour. Debris was washed from ditches into streets in the city of Fayetteville.

Washington County
2 E Lincoln **25** **0305CST** **0** **0** **Hail (1.00)**

Washington County
Fayetteville **25** **0320CST** **0** **0** **0.10K** **Thunderstorm Wind**
 OES Director reported a tree down along SH 112 in north Fayetteville.

Washington County
(Fyv)Fayetteville Ar **25** **0322CST** **0** **0** **Tstm Wind/Hail**
 1/2 inch hail and 40 mph thunderstorm gust reported at Drake Field

Franklin County
Cass **25** **0420CST** **0** **0** **Hail (0.75)**

Summary of events for May 25, 1998:

Several severe thunderstorms moved out of northeast Oklahoma and into northwest Arkansas during the early morning hours of May 25 between 300 AM CDT and 530 AM CDT, producing hail as large as quarters, marginally severe wind gusts, and high rainfall rates. These thunderstorms moved east-southeast along an outflow boundary produced by earlier thunderstorms in southwest Missouri.

The first cluster of severe thunderstorms moved across Benton, Carroll, and extreme northern Madison Counties. As one storm moved across northern Madison County, it acquired strong rotation, and this storm produced severe wind gusts in northern Madison and Carroll Counties. A second cluster of severe storms moved across Washington County after 400 AM, weakening briefly over the far southeastern part of the county, and then reintensifying over northern Franklin County.

Sebastian County
Ft Smith **26** **1520CST** **0** **0** **Hail (1.00)**
 Quarter-sized hail in Fort Smith near the state line bordering Moffett

Crawford County
Cedarville **26** **1540CST** **0** **0** **Hail (1.00)**

Summary of events for May 26 1998:

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARKANSAS, Northwest

Two isolated thunderstorms developed on the afternoon of May 26: one over southern Sebastian and the other over northern Le Flore County. The more northerly one became severe when it moved to near Fort Smith. This thunderstorm continued to move northeast over Van Buren and finally weakened over northern Crawford County. This storm was responsible for hail as large as quarters. These thunderstorms formed near a weak low-level circulation center during peak daytime heating.

Benton County Cave Spgs	29	0845CST			0	0	1K		Thunderstorm Wind
									Power lines blown down
Washington County Canehill	29	0930CST			0	0	0.10K		Thunderstorm Wind
									Tree blown down on SH 45 near Canehill.
Washington County Winslow	29	0935CST			0	0	0.10K		Thunderstorm Wind
									Large tree branches blown down
Crawford County Mulberry	29	1015CST			0	0	0.50K		Thunderstorm Wind
									Several trees and numerous branches blown down
Franklin County 5 N Branch	29	1038CST			0	0	0.50K		Thunderstorm Wind
									Several trees blown down
Franklin County Charleston	29	1045CST			0	0	0.50K		Thunderstorm Wind
									Several trees blown down

Summary of events for May 29 1998:

A large complex of thunderstorms moving eastward across Kansas and Missouri early on the morning of May 29 turned right and moved southeastward across northwest Arkansas later on the morning of May 29 between 930 AM and Noon CDT. The strongest storms tracked from northwestern Benton County to southern Franklin County, producing marginally severe thunderstorm winds.

Sebastian County (Fsm)Ft Smith Muni A	31	1300CST 1600CST			0	0			Record Heat
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The high temperature of 97 degrees at the Fort Smith Regional Airport (KFSM) was hot enough to break the old record high of 94 degrees Fahrenheit set back in 1934.

ARKANSAS, Southeast

Ashley County Portland	09	1936CST	1	50	0	0			Tornado (F0)
									This tornado was sighted by spotters. It touched down briefly and did not produce any damage.
Chicot County 3 NE Lake Vlg	29	0035CST			0	0	4K		Thunderstorm Wind
									Several trees and power lines were blown down.
Chicot County Lake Vlg	29	0430CST 0530CST			0	0			Flash Flood
									Many roads and highways had significant flooding.

ARKANSAS, Southwest

Miller County Fouke	02	2100CST			0	0			Hail (0.88)
Miller County Texarkana	02	2130CST			0	0			Hail (0.75)
Miller County Fouke	26	1305CST			0	0			Thunderstorm Wind (G60)
Howard County Nashville	28	0050CST			0	0	500K		Flash Flood
									Numerous local and county roads were underwater and closed. Hwy 4 was completely underwater and washed out in two places. Nashville totalled 10.30 inches of rain. Numerous homes and businesses were also flooded.
Hempstead County Hope	28	0230CST			0	0	250K		Flash Flood

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARKANSAS, Southwest

A family was trapped in their trailer off Hwy 27 when flood waters overturned their trailer. Several highways were closed and/or washed out including Hwy 4, Hwy 29, and Interstate 30. High water over 355 overturned an 18-wheeler.

Lafayette County Stamps	28	0235CST			0	0			Hail (0.88)
Columbia County Waldo	28	0245CST			0	0			Hail (0.75)
Miller County 1 E Texarkana	28	0255CST			0	0			Hail (0.75)
Miller County Texarkana	28	0437CST			0	0	1.1M		Flash Flood
Excessive rain caused numerous flooding throughout the city. U.S. highway 82 at Arkansas 2378 was washed out. A private dam broke which led to the closure of County Road 290. Numerous homes were flooded. The County Judge declared a local disaster and the Red Cross set up emergency shelters. A total of 10.48 inches of rain fell from the storm which was a record for the date. Records began in 1930.									
Columbia County Waldo	28	0630CST			0	0			Flash Flood
Highway 82 was underwater and closed.									
Columbia County Waldo	28	1743CST			0	0			Hail (0.88)
Columbia County Village	28	1815CST			0	0			Funnel Cloud
Viewed by public and trained sheriff deputy storm spotter.									
Howard County Dierks	29	1310CST			0	0			Hail (0.75)
Sevier County De Queen	29	1315CST			0	0			Thunderstorm Wind (G65)

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

San Joaquin County Countywide	01 31	0001PST 2359PST			0	0	200M		Heavy Rain
Continued abnormally wet weather during the month of May caused huge crop and livestock losses in not only San Joaquin County, but many counties in the Central Valley. However, only San Joaquin County had preliminary estimates available. Crop losses due to record or near record rain during the period February 1998 to May 1998 in interior northern California may total in the billions.									
San Joaquin County 2 NW Tracy	05	1315PST 1325PST			0	0	0	0	Funnel Cloud
This sighting, confirmed by newspaper photos, was actually of two funnel clouds from one thunderstorm.									
Amador County Plymouth	05	1320PST 1325PST			0	0	0	0	Funnel Cloud
San Joaquin County Escalon	05	1500PST 2100PST			0	0	1.6M		Flash Flood
Extremely heavy rainfall, estimated at 3 to 5 inches in two hours, inundated 19 homes, 32 businesses, and 3 government buildings. The roofs of two buildings collapsed under the weight of the accumulated water; miraculously, no one was injured. The heaviest rainfall was observed between 330 pm and 400 pm.									
Stanislaus County Ceres	05	1540PST 1545PST			0	0	0	0	Funnel Cloud
Stanislaus County 6 N Modesto	05	1625PST			0	0	0	0	Funnel Cloud
Stanislaus County Salida	05	1650PST 1700PST			0	0	0	0	Funnel Cloud

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, North Central

Solano County (Suu)Travis Afb	12	1504PST 1540PST			0	0	0	0	Funnel Cloud
Solano County 6 SW (Suu)Travis Afb	12	1530PST 1540PST	0.2	15	0	0	0	0	Tornado (F0)
The tornado stayed over some marshland along Suisun Bay.									
Shasta County 2 N Bella Vista	15	1825PST 1835PST			0	0	0	0	Funnel Cloud
Butte County Richvale	16	1325PST 1335PST	0.1	10	0	0	0	0	Tornado (F0)

CALIFORNIA, Northeast

CAZ072	Greater Lake Tahoe Area								
	12	0600PST			0	0			Heavy Snow
	13	0600PST							
12 hour snow fall: Truckee Airport CA 8 inches, and Boca Reservoir CA 8 inches.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	12	0600PST			0	0			Heavy Snow
	13	0600PST							
12 hour snow fall: Brockway Pass CA 11 inches.									
CAZ072	Greater Lake Tahoe Area								
	12	1800PST			0	0			Heavy Snow
	13	0600PST							
12 hour snow fall: Truckee Airport CA 8 inches, and Boca Reservoir 8 inches.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	12	1800PST			0	0			Heavy Snow
	13	0600PST							
12 hour snow fall: Brockway Pass CA 11 inches.									
CAZ072	Greater Lake Tahoe Area								
	13	0000PST 0600PST			0	0			Heavy Snow
6 hour snow fall: Olympic Valley CA (near Squaw Valley CA) 9 inches.									

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

Fresno County Fresno	01 15	0001PST 1200PST			0	0		7.2M	Heavy Rain
Kern County Bakersfield	01 15	0001PST 1200PST			0	0		5.9M	Heavy Rain
Kings County Hanford	01 15	0001PST 1200PST			0	0		73.6M	Heavy Rain
Madera County Madera	01 15	0001PST 1200PST			0	0		7.1M	Heavy Rain
Merced County Merced	01 15	0001PST 1200PST			0	0		10.2M	Heavy Rain
Tulare County Visalia	01 15	0001PST 1200PST			0	0		5.3M	Heavy Rain

The final estimated total damage figures for agriculture by county for the late winter/spring rain and below normal temperatures (February through May) in Central California:

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, South Central

Madera \$7.1M ... Merced \$10.2M ... Fresno \$7.2M ... Kern \$5.9M ... Kings \$73.6M ... Tulare \$5.3M. Fresno County had specifically \$464K damage in May from inclement weather.

For the rain season through May 31, Fresno had 71 days of measurable rain with Bakersfield having 68. Total rainfall for Bakersfield in May was 1.33" which was the 5th wettest on record ... Fresno had 1.37" which was the 8th wettest. Bakersfield's year-to-date total as of 5/31/98 was 14.36" eclipsing the old record set in 1977-78 of 11.78" and compared to a normal of only 5.72". Fresno's total rain was at 18.43" which is the 5th wettest on record and compares to a normal of 10.60"/year.

There were no 90 degree days in Fresno or Bakersfield in May 1998. This is only the third time on record for either city that the warmest day did not reach 90 degrees during the month. The average monthly temperature for Bakersfield was only 61.0 degs F with the old record of 61.7 degs F in 1911. Fresno's average monthly temperature was 62.0 degs F with the coolest of 61.7 degs F in 1953. However, Fresno did have a record monthly low maximum temperature of 72.5 degs compared to the old record of 74.8 degs in 1953.

Fresno County Firebaugh

02	1200PST								
05	2000PST			0	0		200K	Heavy Rain	

Above normal rain at start of the May continued to plague the Central California multi-billion dollar ag industry. Rainfall as measured at Fresno and Bakersfield totalled close to an inch from 5/2 through 5/5. In the vicinity of the west valley town of Firebaugh, unofficial reports put 3" of rainfall on still near-saturated soils thereby continue to hamper agricultural field operations for not only Fresno County...but all of the Central Valley ag areas in Merced, Madera, Kings, Tulare, and Kern Counties.

Kern County Lamont

02	1615PST								
	1730PST			0	0			Urban/Sml Stream Fld	

With nearby thunderstorms and locally heavy rain...saturated soils continued to bring runoff into the town of Lamont where ponding basins are silted and water can only run down streets.

Kern County Arvin to 3 ENE Bakersfield

02	1622PST								
				0	0			Funnel Cloud	

Numerous sightings of funnel cloud from Arvin to East Bakersfield.

Kern County 3 ENE Bakersfield

02	1700PST								
	1942PST			0	0	250K	Flash Flood		

A convergence line over the southeast corner of the Southern San Joaquin Valley led to low-topped convection in a line from East Bakersfield southward toward Lamont. The resulting heavy rain from the narrow thunderstorm band over the sloped terrain of Northeast Bakersfield led to rapid rises in storm runoff with substantial water depths at several locations in a 12 square mile area bounded by the Panorama Bluffs to the north...River Blvd to the west...Fairfax Ave to the east...and State Highway 58 to the south. State Highways 178 and 58 were closed due to standing water in underpasses with numerous stalled vehicles throughout the area. Several residences and apartments were flooded due to the high runoff levels up to 3 feet in depth. A reliable spotter report indicated that 1.50" of rain fell between 1615-1715 PST (1.80" for the day) and was very similar in behavior to an event in June of 1972. Meadows Field only 3 miles to the west received only 0.17" of rain for the event.

Kings County 21 WSW Hanford Muni Arpt

04	1825PST								
	1833PST			0	0			Funnel Cloud	

This convective day saw a very unstable airmass support thunderstorms along the west side of the Central and Southern San Joaquin Valley. While most of the cells were not considered overly threatening...one cell formed in the northwest corner of Kern County with tops in excess of 25K feet and radar reflectivity reaching 66 dBz. This storm...in a very rural area of Kern County...prompted a severe thunderstorm warning (SVR) at 1603 PDT on its slow track northward toward Kings County. A subsequent SVR was issued at 1754 PDT and threatening Corcoran in Kings County. The storm subsequently split in with the right side continuing to move toward Corcoran but diminishing in intensity while the left side continued toward Hanford. A 3rd SVR was issued at 1838 PDT as the thunderstorm threatened the Hanford-Lemoore area. Again the storm split as it approached Hanford with the right half diminishing in intensity but the left side swinging northward into Lemoore. The thunderstorm over Lemoore was noted at 1835 PDT and supported numerous cloud-to-cloud lightning discharges. Pea-size hail with gusty wind no more than 30 MPH occurred at 1902 PDT. The rain was heavy but lasting only 30 minutes with amounts close to 1/2-inch in that time period. The thunderstorm cell outflow boundary then interacted with another from the north and developed a southwest-northeast line of thunderstorms along the Kings-Fresno County Line. In all cases SVRs for the day were issued on the basis of strong reflectivity values and storm structure...including a classic weak echo region...but the storm's track was over very remote areas of the counties except at its last stages so no verification of SVR criteria was observed.

Fresno County 1 W Huron

05	0015PST								
	1600PST			0	0			Urban/Sml Stream Fld	

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, South Central

Thunderstorm activity during the 4th and early on the 5th again provided saturated soils in West Fresno County. With locally heavy rain from thunderstorm activity late on the 4th, water from Arroyo Pasajero threatened Huron's west side. Low dikes were built which prevented water from entering the town to any great depth. Rainfall reports over the calendar day of 1.92 inches were reported by a Coalinga spotter (15 miles WSW).

Kern County Old River

05	0020PST		0	0				Lightning
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Lightning strike from the continued thunderstorm activity resulting from a closed low just off the Central California Coast. Thunderstorms occurred on the 4th and 5th in the Kern County area.

Kings County Lemoore

05	1030PST 1100PST		0	0				Urban/Sml Stream Fld
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Early convective activity on this day led to heavy rain...enough to cause street flooding in East Kings County. No damage reported.

Kern County 15 SW Bakersfield to 3 NE Bakersfield

05	1303PST 1511PST		0	0	100K			Urban/Sml Stream Fld
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Kern County Bakersfield

05	1430PST		0	1				Lightning
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While on the phone an office manager was mildly electrocuted due to a nearby lightning strike and the resulting electrical surge through the phone line.

Kern County Taft

05	1700PST 1815PST		0	0	20K			Urban/Sml Stream Fld
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An evening deluge brought substantial sheet flow through the City of Taft resulting in basement flooding of one home and other minor flooding problems.

An active thunderstorm band moved from southwest to northeast through west Kern County with 1/2-inch hail reported at Buena Vista Lake at 1403 PDT...torrential rain in southwest Bakersfield by 1515 PDT leading to widespread urban flooding...and flooding again in northeast Bakersfield by 1525 PDT. Pea-size hail piled 2-3 inches deep in SW Bakersfield by 1515PDT. Radar estimates placed numerous rainfall rate areas of 1.25-1.75" per hour southwest and west of Bakersfield. Downtown Bakersfield had several streets flooded including Chester Avenue just south of Highway 178...and the rail undercrossing on 'H' Street where one car was trapped. Two severe thunderstorm warnings (SVR) and one flash flood warning (FFW) were issued by NWSO HNX in response to this convective activity. While no severe threshold criteria were evidently met...torrential rain for the area was experienced and quotes such as "never seen it rain this hard" were common. The flooding was not classified as "flash flood" due to lack of movement in the deeply ponded water in the urban areas of Bakersfield. Radar estimates of precipitation for the period of 5/2/98 through 5/5/98 showed that primarily the west and south side of the HNX CWFA were affected by the convective activity...many areas had in excess of 1.5-2.5" of accumulated rainfall. The west edge of the Kings-Fresno County Line had radar estimates of 4-5" over the period. By the morning of the 5th...Porterville in Tulare County received another 0.22" of rain bringing the season total to 20.51"...second only to the 1968-69 record of 21.22".

Fresno County 5 SW Cantua Creek

05	1520PST 1900PST		0	0				Urban/Sml Stream Fld
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Runoff from the western hills of Fresno County continued to plague area agriculture and cause local road hazards. Water from Arroyo Hondo flowed over Highway 33 south of Mendota and north of Interstate-5 but not to any great depth.

Merced County Los Banos

05	1538PST 1700PST		0	0				Urban/Sml Stream Fld
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Very heavy rain from a thunderstorm ponded water on State Highway 152 on both the west and east ends of Los Banos in West Merced County.

As measured from an automated gauge...2.33 inches of rain fell in a 3-hour period between 1400-1700 PDT just west of Los Banos...rates of 1"/hour were seen for the two hours between 1500-1700. Heavy rain threatened to shut down Interstate-5 at 1608 PDT west of Los Banos due to water on the roadway. Again severe thunderstorm or flash flood criteria were not quite met from this thunderstorm although warnings were issued due to high VIL and storm structure. Pea-size hail was noted by a mobile weather spotter north of Los Banos from 1710-1720 PDT as the thunderstorm moved toward Gustine.

CAZ020>021

Central San Joaquin Valley - Southern San Joaquin Valley								
07	0600PST 0700PST		0	0				Fog

The moist conditions caused by late and near record rains this spring gave way to infrequent dense fog formation in the month of May in the Central and north portions of the Southern San Joaquin Valley. Visibilities dropped to less than 300 feet in west Merced County (near State Highway 152 and Interstate Highway-5) by 0600 PST with other reports of dense fog in Fresno and Kings Counties.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, Southwest

the season. The cold weather made it particularly difficult for undocumented immigrants travelling through the Laguna Mountains where wind-swept rain and snow fell. One 29 year-old man died of hypothermia on Mount Laguna. Convection in the cold air produced thunderstorms with locally heavy downpours of rain and gusty winds over the Inland Empire. Reports of funnel clouds were received from pilots and observers near March Air Force Base, and Homeland. One of the funnel clouds apparently touched down as a weak tornado in the Highland Palms mobile home park in Homeland ripping awnings from several trailers. Also of note, the persistent evening rain on the twelfth caused the first rain-out of a San Diego Padres game at the stadium in Mission Valley in over 15 years.

CALIFORNIA, Upper

Siskiyou County
3 NW Mt Shasta

07	2010PST 2120PST			0	0		Flash Flood
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Heavy thunderstorms also formed in northern California on the 7th. Rainfall amounts of three quarters to over an inch were reported near Mount Shasta and Black Butte. Subsequent flooding caused a washout of a road near Weed.

Siskiyou County
(Mhs)Mt Shasta

27	1700PST			0	0		Heavy Rain
28	1700PST						

Heavy rains in Mount Shasta vicinity produced 24-hour rainfalls of two to nearly three-and-a-half inches.

CALIFORNIA, West South Central

CAZ034>035-039>041 San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles

02	1000PST			1	0		Heavy Surf
03	1230PST						

Large swells, from storms in the South Pacific, produced heavy surf along the Central and Southern California coasts. Average surf heights of 7 to 9 feet with local sets to 12 feet were reported. In Rancho Palos Verdes, a man was swept away by the heavy surf while fishing on the rocks. M39IW

San Luis Obispo County

San Luis Obispo

05	0440PST 0450PST	0.3	15	0	0		Tornado (F0)
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A small tornado developed over the city of San Luis Obispo. The tornado knocked out power to several hundred homes. Also, four homes were damaged, including a home struck by a fallen cypress tree.

Ventura County

Ojai

05	0700PST 1000PST			0	0		Urban/Sml Stream Fld
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Heavy rain produced minor urban flooding across Ventura county. In the Ojai Valley, minor flooding temporarily closed parts of the Maricopa Highway.

Los Angeles County

Manhattan Beach

05	0927PST 0935PST			0	0		Funnel Cloud
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A funnel cloud developed over the community of Manhattan Beach. Only very minor damage was reported.

Los Angeles County

Glendora

05	1400PST 2000PST			0	0		Urban/Sml Stream Fld
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Heavy rain produced local urban flooding across Los Angeles county. In Glendora, local street flooding was reported.

San Luis Obispo County

South Portion

05	1530PST 2230PST			0	0		Flash Flood
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Santa Barbara County

North Portion

05	1530PST 2230PST			0	0		Flash Flood
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Heavy rain produced flash flooding and mudslides across Southern San Luis Obispo and Northern Santa Barbara counties. The flooding and mudslides closed portions of Highway 166 between Highways 101 and 33.

Los Angeles County

East Central Portion

05	1915PST			0	0		Flash Flood
06	0100PST						

Heavy rain produced flash flooding across the mountains and foothills of East Central Los Angeles county. Near the Morris Reservoir area, flash flooding was reported.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, West South Central

CAZ053>054	Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range								
	12	0700PST			0	0			Heavy Snow
	13	0600PST							
	A late-season storm brought heavy snow to the mountains of Ventura and Los Angeles counties. The storm produced up to 2 feet of new snow at resort levels.								
Los Angeles County									
Long Beach	13	0420PST 0425PST			0	0			Thunderstorm Wind (G60)
	Strong thunderstorm winds produced damage across parts of the Long Beach area. At a car dealership, the roof of a couple of service bays was blown off. Next door, a 600 square-foot section of roof was torn off a aircraft instrument company.								
Ventura County									
Camarillo Arpt	13	0905PST 0908PST	0.1	8	0	0			Tornado (F0)
	A weak tornado formed four miles southeast of the Camarillo Airport. No damage was reported.								

CALIFORNIA, Western

Santa Clara County									
Mountain View	05	1315PST			0	0			Funnel Cloud
	Funnel cloud passed over El Camino Real in Mountain View CA								
Santa Clara County									
Los Altos	05	1630PST	0.3	75	0	1	300K		Tornado (F1)
	A tornado briefly touched down in Los Altos CA on Alicia Way and continued to the Los Altos High School. A woman Tennis Coach at the high school was picked up and hurled around 20 feet and sustained injuries.								
Santa Clara County									
Sunnyvale	05	1643PST 1644PST	0.6	100	0	1	3.8M		Tornado (F2)
Santa Clara County									
Palo Alto	05	1650PST			0	0	0		Funnel Cloud
	A funnel cloud was reported over the mud flats on the East side of HWY 101 in Palo Alto.. No buildings and only low vegetation exist in this low lying area so it could not be confirmed if the funnel actually touched down in this area. A Tornado touched down in the Chevy Chase residential area of Sunnyvale, CA near Hwy 85. The storm survey assessed the Damage to 15 home and a large church as a minimal F2.. One woman was injured when struck by flying debris. The storm was well documented on a video shot by a person from their backyard. The storm appears to be rotating anticyclonically from this video. This storm apparently developed from thunderstorms that developed in the lee of the Santa Cruz mountains over the W Santa Clara Valley.								

COLORADO, Central and Northeast

Weld County									
7 SW Carr	04	0156MST			0	0			Hail (0.75)
Larimer County									
Drake	04	1608MST			0	0			Hail (1.00)
Larimer County									
.3 NW Ft Collins	04	1612MST			0	0			Hail (0.75)
Larimer County									
Ft Collins	04	1614MST			0	0			Hail (0.75)
Larimer County									
26 NW Red Feather Lakes	04	1730MST			0	0			Hail (1.00)
Weld County									
Evans	05	1445MST			0	0			Hail (1.00)
Washington County									
11 W Elba	05	1555MST			0	0			Hail (0.75)
Phillips County									
13 S Haxtun	08	1430MST			0	0			Hail (0.75)
	Torrential hail covered Highway 59, up to 10 inches deep in spots, for a quarter mile stretch near the Phillips/Yuma County Line. Snowplows had to be called out to clear the highway. Substantial crop damage was also reported in the area, although no estimate of the damage was available.								
Washington County									
1 SW Lindon	08	1512MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, Central and Northeast</u>									
Larimer County									
Ft Collins	10	1612MST			0	0			Hail (1.00)
Larimer County									
Ft Collins	10	1615MST			0	0			Hail (0.75)
Larimer County									
4 E Ft Collins	10	1625MST			0	0			Hail (1.00)
Weld County									
Hereford	10	1840MST 1843MST			0	0			Hail (0.75)
Weld County									
8 NE Grover	10	1938MST			0	0			Hail (0.75)
Weld County									
8 NE Grover	10	1938MST			0	0			Thunderstorm Wind (G50)
Lincoln County									
4 SW Arriba	11	1645MST			0	0			Hail (0.75)
Lincoln County									
1 NW Hugo	11	1826MST			0	0			Hail (0.75)
Jefferson County									
4 S Lakewood	11	1845MST			0	0			Hail (1.00)
Arapahoe County									
Littleton	11	1915MST			0	0			Hail (1.00)
Douglas County									
11 WNW Parker	11	1915MST			0	0			Hail (0.75)
Douglas County									
Parker	11	1950MST			0	0			Hail (1.25)
Weld County									
3 S Windsor	14	1500MST			0	0			Dry Microburst Microburst winds flipped over 2 metal barns, or lean-tos, and tore the siding off a nearby trailer. The barns were lifted 4 feet off the ground and blown 6 to 8 feet. No one was injured, but a dog received a broken leg when one of the barns flipped over on him.
Larimer County									
9 WSW Rustic	17	1400MST			0	0			Thunderstorm Wind (G56)
Logan County									
14 NW Sterling	19	2015MST			0	0			Hail (1.00)
Logan County									
10 WNW Padroni	19	2022MST			0	0			Hail (0.75)
Washington County									
10 W Elba	20	1700MST			0	0			Hail (1.75)
Washington County									
10 N Anton	20	1735MST			0	0			Hail (1.75)
Washington County									
4 NE Anton	20	1744MST			0	0			Hail (2.75)
Washington County									
13 SE Elba	20	1800MST			0	0			Hail (1.50)
Washington County									
2 N Arickaree	20	1815MST			0	0			Hail (2.00)
Washington County									
20 S Otis	20	1830MST			0	0			Hail (1.75)
Weld County									
18 N New Raymer	21	1530MST			0	0			Hail (0.75)
Weld County									
20 N New Raymer	21	1530MST			0	0			Hail (0.75)
Weld County									
23 NNE New Raymer	21	1535MST			0	0			Hail (1.00)
Weld County									
22 N Stoneham	21	1545MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, Central and Northeast</u>									
Sedgwick County 12 SE Sedgwick	21	1630MST			0	0			Hail (0.75)
Sedgwick County 5 E Julesburg	21	1636MST			0	0			Hail (1.75)
Logan County 8 N Sterling	21	1639MST			0	0			Hail (1.75)
Logan County 22 W Peetz	21	1642MST			0	0			Hail (1.75)
Phillips County 10 NW Holyoke	21	1645MST			0	0			Hail (1.75)
Phillips County 11 N Holyoke	21	1657MST			0	0			Hail (1.00)
Sedgwick County 16 S Julesburg	21	1702MST			0	0			Hail (1.75)
Logan County 5 SW Peetz	21	1705MST			0	0			Hail (1.00)
Sedgwick County 16 W Julesburg	21	1707MST			0	0			Hail (2.50)
Phillips County Amherst	21	1715MST			0	0			Hail (2.75)
Logan County 9 SW Fleming	21	1825MST			0	0			Hail (1.50)
Weld County 4 S Buckingham	21	1859MST			0	0			Hail (1.00)
Weld County 5 SE Buckingham	21	1907MST			0	0			Hail (0.75)
Larimer County 13 WNW Ft Collins	21	2153MST			0	0			Hail (1.00)
Boulder County Broomfield	22	1110MST			0	0			Hail (1.50)
Boulder County Broomfield	22	1137MST			0	0			Hail (1.00)
Boulder County Broomfield	22	1140MST			0	0			Hail (1.00)
Adams County Brighton	22	1207MST			0	0			Hail (1.00)
Weld County 6 W Wattenburg	22	1211MST			0	0			Hail (0.75)
Weld County 5 SE Ft Lupton	22	1230MST 1300MST			0	0			Hail (0.75)
		Hail caused substantial crop damage in this area as it piled up 3 to 5 inches deep.							
Weld County Hudson	22	1242MST			0	0			Hail (1.50)
Weld County 4 W Greeley	22	1256MST			0	0			Hail (0.75)
Weld County Roggen	22	1308MST			0	0			Hail (1.25)
Weld County 5 SE Keenesburg	22	1321MST			0	0			Hail (1.00)
Weld County Ft Lupton	22	1330MST			0	0	0		Lightning
		Lightning ignited a house fire in Ft Lupton.							
Weld County 15 N Stoneham	22	1340MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Morgan County 8 S Wiggins	22	1407MST 1412MST			0	0			Hail (1.75)
Adams County 1 W Watkins	22	1411MST			0	0			Hail (1.00)
Morgan County 4 E Wiggins	22	1428MST			0	0			Hail (1.75)
Morgan County 8 W Ft Morgan	22	1430MST			0	0			Hail (2.00)
Morgan County 2 SW Brush	22	1450MST 1510MST			0	0			Hail (0.75)
Morgan County Brush	22	1513MST			0	0			Hail (1.75)
Larimer County Loveland	22	1530MST			0	0	0		Lightning Lightning damaged a utility pole in Big Thompson Canyon. As a result, 300 residents in Loveland were without electrical service for several hours.
Morgan County Brush	22	1535MST			0	2	2.2M	1M	Hail (1.50) Large hail pummelled the towns of Greeley, Brush and Fort Morgan. In Brush, some roofs collapsed under the deluge and one roof was blown off. Two people received minor injuries. One woman was injured, while in her home, when large hail broke through the window. Hundreds of cars were also damaged and some were stuck in the hail, up to 18 inches deep, until snowplows could clear the roads off. Crops were shredded during the hailstorm and fields flooded. Approximately 140,000 acres of cropland in and around Brush were devastated. Damage estimates to homes and vehicle in the Greeley, Brush and Fort Morgan areas was estimated at \$2.2 million. In addition, crop losses from the storm were expected to exceed \$1.0 million.
Washington County 25 SE Akron	22	1621MST			0	0			Hail (0.75)
Denver County Denver	22	1900MST			0	0			Hail (1.00)
Denver County Denver	22	1900MST			0	1	0		Lightning A warehouse worker was injured when he was knocked off a loading dock by a lightning bolt. The bolt skipped off a nearby radio tower and struck him in the arm. He was treated for numbness in his right arm and released. The time of the incident was approximated.
Lincoln County 10 N Limon	24	0920MST 0935MST			0	0			Hail (1.75) Large hail was piled up 6 inches deep in spots.
Elbert County 9 SE Agate	24	1005MST			0	0			Hail (0.75)
Arapahoe County 10 SE (Bkf)Buckley Fld Nas	24	1232MST	0.1	25	0	0	0	0	Tornado (F0) Weak landspout touched down briefly in an open field.
Arapahoe County 9 E (Bkf)Buckley Fld Nas to 11 NE (Bkf)Buckley Fld Nas	24	1246MST 1251MST	2	50	0	0	100K		Tornado (F0) A tornado struck a wooden hangar at Aurora Airpark. The hangar collapsed damaging a car and a single engine plane parked inside. A neighbouring steel hangar sustained only minor damage. The tornado moved northeast, hopped Interstate 70, and touched down again in an open field. The path length and duration of the tornado were estimated.
Elbert County 13 NE Simla	24	1400MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>COLORADO, Central and Northeast</u>									
Elbert County 8 SE Matheson	24	1403MST 1408MST			0	0			Hail (0.75)
Elbert County 12 E Matheson	24	1408MST			0	0			Hail (1.00)
Lincoln County 25 NW Karval	24	1420MST			0	0			Hail (1.25)
		Large hail broke the windows of a house.							
Lincoln County 23 W Karval	24	1432MST			0	0			Hail (2.50)
Lincoln County 14 SW Karval	24	1509MST			0	0			Hail (2.00)
Lincoln County 8 SW Karval	24	1510MST			0	0			Hail (1.75)
Lincoln County 5 S Karval	24	1527MST			0	0			Hail (1.25)
Weld County 5 S Buckingham	26	1700MST 1720MST			0	0			Hail (0.75)
<u>COLORADO, East Central</u>									
Kit Carson County 6 S Burlington	03	1720MST			0	0			Hail (0.88)
Kit Carson County 15 NNE Stratton	03	1740MST			0	0			Hail (0.88)
		Dime to nickel hail reported.							
Yuma County 5 SW Joes	03	1825MST			0	0			Hail (0.75)
Yuma County 7 W Vernon	03	1830MST			0	0			Hail (0.75)
Yuma County Vernon	03	1857MST			0	0			Hail (0.88)
Yuma County 11 W Idalia	04	1915MST			0	0			Hail (0.75)
Yuma County 6 SW Joes	05	1618MST			0	0			Hail (0.88)
Kit Carson County 15 N Vona	05	1635MST	0.2	30	0	0			Tornado (F0)
		Brief tornado observed by law enforcement.							
Kit Carson County 5 NW Bethune	05	1730MST 1732MST	0.3	40	0	0			Tornado (F0)
		Tornadic debris cloud observed by spotters.							
Kit Carson County 8 NNE Stratton	05	1730MST			0	0			Hail (0.88)
Kit Carson County 8 NNE Stratton	05	1750MST			0	0			Hail (1.75)
		Hail 1/2 inch to golfball size; also 2.75 inches of rain in less than 60 minutes.							
Kit Carson County Bethune	05	1800MST			0	0			Hail (0.75)
Kit Carson County 6 SSW Burlington	05	1820MST			0	0	1K		Thunderstorm Wind (G57)
		Estimated 60 to 70 mph winds blew out windows.							
Kit Carson County 7 S Burlington	05	1831MST			0	0			Hail (1.00)
Kit Carson County 5 S Burlington	05	1840MST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, East Central									
NWS employee observed hail up to half dollar size along Highway 385 from 1S to 7S of Burlington.									
Yuma County 7 W Clarkville	08	1145MST			0	0			Hail (0.88)
Yuma County Yuma	08	1405MST			0	0			Hail (0.75)
Yuma County Yuma	08	1425MST			0	0			Hail (1.75)
Also, 1 inch hail reported 7NNE Yuma at 1432 MST.									
Yuma County 4 NW Yuma	08	1618MST			0	0			Hail (1.00)
Cheyenne County 12 SSW Cheyenne Wells	11	1510MST			0	0			Hail (0.88)
Kit Carson County 6 S Seibert	11	1655MST			0	0			Hail (0.75)
Yuma County 19 S Yuma	20	1900MST			0	0			Hail (1.25)
Yuma County 20 SSE Yuma	20	1915MST			0	0			Hail (1.75)
Yuma County 6 SSW Yuma	20	1935MST			0	0			Hail (1.50)
Yuma County 2 E Yuma	20	1958MST			0	0			Hail (0.75)
Yuma County 2 E Clarkville	21	2021MST			0	0			Hail (0.75)
Yuma County 23 NE Yuma	21	2045MST			0	0			Hail (0.88)
Yuma County 17 SSE Yuma	22	1645MST			0	0			Hail (1.75)
Yuma County Vernon	22	1717MST			0	0			Hail (1.75)
Accompanied by 60 to 70 mph wind. Lasted 10 minutes.									
Yuma County 7 S Laird	22	1734MST			0	0			Hail (1.75)
Yuma County 3 N Beecher Is	22	1735MST			0	0			Hail (1.50)
Yuma County 13 SSW Wray	22	1750MST			0	0			Hail (0.75)
Accompanied by winds gusting to 60 mph.									
Yuma County 7 NE Idalia	22	1755MST			0	0			Hail (1.88)
Accompanied by wind gusting to 68 mph.									
Kit Carson County 10 ENE Burlington to 11 E Burlington	22	1854MST 1903MST	2	50	0	0			Tornado (F0)
Tornado videographed by spotter as it moved southeast.									
Kit Carson County 3 SW Bethune	24	0921MST			0	0			Hail (0.75)
Kit Carson County Burlington	24	0941MST			0	0			Hail (0.75)
Kit Carson County 9 SE Stratton	24	1006MST			0	0			Hail (0.75)
Kit Carson County Burlington	24	1019MST			0	0			Urban/Sml Stream Fld
Street Flooding reported in Burlington									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, East Central</u>									
Yuma County									
10 E Idalia	28	1910MST			0	0			Hail (0.75)
<u>COLORADO, South Central and Southeast</u>									
Baca County									
Walsh	05	1905MST 1910MST			0	0			Hail (0.75)
Prowers County									
3 NE Lamar	07	1345MST 1350MST			0	0			Hail (0.75)
Prowers County									
18 S Holly	07	1455MST 1500MST			0	0			Hail (1.00)
Otero County									
10 S Fowler	08	1355MST 1400MST	0.1	50	0	0			Tornado (F0)
A brief tornado was reported over open country of western Otero county. There was no known damage.									
Otero County									
3 W La Junta	08	1455MST 1500MST			0	0			Hail (0.75)
Bent County									
2 W Las Animas	08	1517MST 1522MST			0	0			Hail (1.00)
El Paso County									
3 S Colorado Spgs	08	1524MST 1529MST			0	0			Hail (1.00)
Bent County									
12 ESE Las Animas	08	1545MST 1550MST			0	0			Hail (0.88)
Prowers County									
20 S Lamar	08	1630MST 1633MST			0	0			Funnel Cloud
Prowers County									
6 SSW Lamar	08	1635MST 1640MST			0	0			Hail (0.75)
Kiowa County									
Towner	11	1445MST 1450MST			0	0			Hail (1.00)
El Paso County									
Colorado Spgs	24	1200MST 1212MST			0	0			Hail (0.88)
El Paso County									
27 E Colorado Spgs	24	1331MST 1336MST			0	0			Hail (1.75)
El Paso County									
Security	24	1435MST 1440MST			0	0			Hail (0.75)
Pueblo County									
Pueblo West	24	1520MST 1525MST			0	0			Hail (1.75)
Kiowa County									
17 W Eads	24	1620MST 1630MST			0	0			Hail (0.75)
Kiowa County									
11 W Eads	24	1652MST 1657MST			0	0			Hail (1.50)
Kiowa County									
2 N Haswell	24	1655MST 1700MST	0.1	25	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, South Central and Southeast									
A brief tornado was reported north of Haswell over open country. There was no known damage.									
Otero County Fowler	24	1717MST 1722MST			0	0			Hail (0.75)
Otero County 7 W La Junta	24	1730MST 1735MST			0	0			Funnel Cloud
Otero County 1 N La Junta	24	1735MST 1740MST			0	0			Funnel Cloud
Otero County Rocky Ford	24	1737MST 1742MST			0	0			Hail (0.75)
Otero County 2 W La Junta	24	1741MST 1746MST			0	0			Hail (0.75)
Otero County La Junta	24	1748MST 1753MST			0	0			Hail (0.75)
Otero County La Junta Arpt	24	1752MST 1757MST			0	0			Hail (1.00)
Otero County La Junta Arpt	24	1752MST			0	0	25K		Thunderstorm Wind (G73)
Damaging winds moved through the industrial park and airport complex north of La Junta. Several windows were blown out of the municipal golf course clubhouse. A partially erected building in the complex was destroyed. The roof of a restroom facility was blown off. Several trees were uprooted. A trailer just south of the complex was blown on its side.									
Otero County 9 W La Junta to 8 W La Junta	24	1735MST 1740MST	1	50	0	0	50K		Tornado (F1)
A narrow tornado and 80 to 100 mph straight-line winds downed power lines... damaged several grain bins and storage silos...uprooted large trees...shattered some windows...and partially ripped off some roofs in the rural Star Valley area west of La Junta. A large 40x100 foot machine shop was destroyed. Several small sheds were also destroyed. Power was not restored to some parts of the area until the following afternoon.									
Bent County Las Animas	24	1743MST 1748MST			0	0			Hail (0.75)
Otero County La Junta	24	1745MST 1750MST			0	0	25K		Thunderstorm Wind (G71)
Damaging straight-line winds moved through mainly northern La Junta. Hardest hit was the Fair View Cemetery, on the northwest side of town, where about 25 large trees were damaged or uprooted. Spotty roof and sign damage occurred on the north side of La Junta.									
Prowers County 10 N Holly	24	1821MST 1826MST			0	0			Hail (0.75)
Kiowa County 30 E Eads	24	1825MST 1830MST			0	0			Hail (0.75)
Alamosa County 10 WNW Alamosa	25	1655MST 1700MST	0.1	25	0	0			Tornado (F0)
State trooper reported seeing a small tornado briefly touch down in western Alamosa county near the Rio Grande county line near Highway 160/285.									
Pueblo County 4 W Pueblo	26	1350MST 1355MST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
Pueblo County 6 ESE Pueblo	26	1429MST 1434MST			0	0			Hail (0.75)
El Paso County 9 S Yoder	26	1505MST			0	0			Thunderstorm Wind (G52)
El Paso County 5 S Yoder	26	1530MST 1535MST			0	0			Hail (1.00)
<u>COLORADO, West</u>									
Delta County 11 N Hotchkiss to 1 SW Hotchkiss	02 03	1630MST 0400MST			0	0	1.4M	100K	Flash Flood
The Carl Smith Dam at Patterson Reservoir #3 failed, sending a wall of water down Leroux Creek. The earthen dam break was 200 feet wide and 45 feet high. The wall of water was up to 10 feet high and averaged 100 feet in width. Many bridges and irrigation structures were damaged or washed out. One house was flooded. Many farm and ranch buildings were destroyed or washed away. 92 lambs drowned.									
Rio Blanco County 2 NW Rangely to 1.5 NW Rangely	09	1500MST 1505MST			0	0			Funnel Cloud
A long narrow funnel cloud was observed in the oil fields near Rangely. The tail of the funnel cloud was on the other side of a low ridge from the observers. If the funnel cloud did not touch down, at least it came very close to the ground.									
COZ007									
Debeque Rifle Glenwood Springs Corridor									
	18	0300MST			0	0	1K		Flood
	20	2300MST							
Parachute Creek overflowed its banks just north of the Parachute city limits. Corrals and a barn were flooded by about two feet of water which reached up to the front porch of a residence. Livestock had to be moved to higher ground. Some hay was destroyed.									
Rio Blanco County 37 SW Meeker	24	1130MST 1330MST			0	0			Wild/Forest Fire
Lightning ignited a brush fire 14 miles up Ryan Gulch from the Piceance Creek road.									
Mesa County 6 S Loma	24	1800MST 1907MST			0	0			Funnel Cloud
<u>CONNECTICUT, Northeast</u>									
CTZ002	Hartford								
	06	1700EST 2100EST			0	0			Heavy Rain
A slow moving cold front caused thunderstorms which dropped heavy rain across north central Connecticut, affecting parts of Hartford and Tolland Counties.. In Enfield, 4 inches of rain fell in about a 4-hour period between 6 PM and 10 PM, with a 26-hour total of 5.40 inches ending at 10 PM on May 6th. Urban street flooding was reported. In Hartford, a rainfall rate of 2.8 inches per hour was reported. Street flooding was reported in Hartford and West Hartford. There were reports of small hail, including pea size hail at Rocky Hill and Somers.									
CTZ002>004	Hartford - Tolland - Windham								
	09	1800EST			0	0			Heavy Rain
	11	1200EST							
CTZ002	Hartford								
	11	2300EST			0	0			Flood
	13	0000EST							
A strong low pressure system to the south and southeast of Cape Cod combined with high pressure over eastern Canada to produce a 3-day nor'easter. Periods of heavy rain occurred from May 9th into May 11th. Rainfall totals of 2 to 3 inches were common. The maximum storm total reported was 5.10 inches at Windsor Center. Some other amounts included: 3.07 inches at Southington, 2.90 inches at Mansfield Hollow, 2.71 inches at Unionville, and 2.39 inches at Hartford. Eventually, minor flooding occurred along the Farmington River. At Simsbury, the Farmington River reached flood stage of 12.0 feet at midnight at the beginning of May 12th, crested at 12.2 feet at 4 PM on the 12th, then fell below flood stage at 1 AM on the 13th.									
Hartford County Enfield	29	1725EST			0	0			Hail (0.75)
Hartford County Enfield	29	1803EST			0	0	20K		Lightning
A severe thunderstorm dropped penny size hail in Enfield in Hartford County. Also, a lightning strike ignited a hotel fire in Enfield.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

CONNECTICUT, Northeast

Little details were available on the fire, thus damage amount is purely an estimate.

Hartford County

Windsor to Enfield	31	2045EST 2051EST			0	0			Thunderstorm Wind (G56)
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A severe thunderstorm produced a wind gust to 65 mph as reported by a spotter in Windsor, while a peak gust to 61 mph was reported at Bradley International Airport in Windsor Locks. Trees were reported blown down in Enfield, per the local police. In East Windsor, trees and wires which were blown down forced the closing of a local trolley museum for several days.

CONNECTICUT, Northwest

Litchfield County

Canaan	29	1645EST			0	0	3K		Thunderstorm Wind
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Litchfield County

Sharon	29	1650EST			0	0	3K		Thunderstorm Wind
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During the afternoon of May 29, a line of fast moving severe thunderstorms crossed northwest Connecticut. The severe thunderstorms developed well ahead of a strong cold front and produced damaging winds which downed trees across parts of Litchfield County.

Litchfield County

1.3 SW Washington	31	2030EST 2032EST	0.3	17	0	0	4K		Tornado (F1)
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Litchfield County

New Milford	31	2050EST			0	0	4K		Thunderstorm Wind
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During the morning hours of May 31, a strong low pressure system over the upper Great Lakes pushed a warm front across eastern New York and western New England. This set the stage for severe weather in Litchfield County. An F1 tornado downed a 50 foot wide by quarter mile long swath of trees just southwest of Washington. The damage path was in a west to east direction. A severe thunderstorm downed trees and wires at New Milford. Approximately 700 customers lost power during the storms.

CONNECTICUT, Southern

Fairfield County

Countywide	09 10	0200EST 2330EST			0	0			Heavy Rain
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Middlesex County

Countywide	09 10	0200EST 2330EST			0	0			Heavy Rain
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New Haven County

Countywide	09 10	0200EST 2330EST			0	0			Heavy Rain
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New London County

Countywide	09 10	0200EST 2330EST			0	0			Heavy Rain
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A slow moving storm moved south and east of the Mid-Atlantic Coast from Friday, May 8th through Monday, May 11th.

Measurable rain developed across the region during Friday, May 8th. Rain was occasionally heavy during both Saturday, May 9th and Sunday, May 10th and ended on Monday, May 11th.

Heavy rain caused urban flooding of streets, poor drainage and low-lying areas. It also caused flooding of small streams. The Quinnipiac River at Wallingford was above its' flood stage (up to 1.15 ft.) from May 10th at 10:45 am EST to May 12th at 6:45 am EST.

Rainfall amounts generally ranged from 2.00 to 4.00 inches. Here are selected rainfall amounts for:

- o Fairfield County - from 2.52 inches at Danbury to 2.87 inches at Bridgeport.
- o New Haven County - from 1.89 inches at Hamden to 3.70 inches at Meriden.
- o New London County - from 2.17 inches at Lebanon to 2.40 inches at Norwich.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CONNECTICUT, Southern

Fairfield County Weston	20	1730EST			0	0			Lightning
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A thunderstorm produced lightning that struck near the attic portion of the second floor at 24 Blue Spruce Circle in Weston. The fire was brought under control within 20 minutes. The extent of the damage to the attic is unknown. No injuries were reported.

Fairfield County Danbury	29	1725EST			0	0			Thunderstorm Wind (G50)
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New Haven County Middlebury to Wolcott	29	1745EST			0	0			Thunderstorm Wind (G50)
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Fairfield County North Greenwich to North Stamford	29	1805EST			0	0			Thunderstorm Wind (G50)
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Fairfield County Stamford	29	1805EST			0	0			Lightning
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With a warm, moist, and unstable airmass in place, lines of thunderstorms (some severe) moved southeast across the region ahead of an approaching cold front.

Severe thunderstorms produced high winds that downed trees onto power lines at (and in between) the locations listed above. High winds downed a tree on a car that was moving on Long Ridge Road in Stamford. Luckily, the passengers suffered only minor injuries.

Thunderstorms also produced frequent and vivid lightning strikes. Lightning struck the north tower of an apartment building on the corner of Washington Blvd. and North Street in Stamford, sending about a dozen bricks crashing down on four cars. Although no one was injured, the cars were heavily damaged.

Fairfield County Danbury	31	2132EST			0	0			Hail (1.75)
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New Haven County Derby	31	2157EST			0	0			Hail (0.88)
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Fairfield County Trumbull	31	2200EST			0	1			Lightning
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Fairfield County New Canaan	31	2201EST			0	0			Lightning
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Severe thunderstorms (in lines and clusters) formed and moved over parts of Southwest Connecticut. They formed in a moist and unstable airmass ahead of an approaching cold front.

Severe thunderstorms produced large hail, frequent lightning, heavy rain and gusty winds. Frequent lightning strikes also downed trees onto power lines and houses.

Lightning travelled through a telephone line at the Trumbull Police Headquarters and injured the Communications Officer, who was taken to a hospital. The Trumbull Department's primary radio system was knocked out.

Lightning blew out the second floor light and light switch of a Snowberry Lane residence in New Canaan.

DELAWARE

Kent County Harrington	06	1630EST			0	0	0		Lightning
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Lightning struck a house on Whitleysburg Road within Harrington. It made a hole in the foundation of the house and smoke filled the crawl space. It also damaged some of the electrical wiring within the house.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

DELAWARE

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

08	0400EST				0	0			Prolonged Rain
12	2200EST								

A series of low pressure systems that passed through the Middle Atlantic States and then stalled offshore gave Delaware nearly five days of continuous rain from when it started Friday morning the 8th until it exited state from north to south on Tuesday the 12th. Storm totals ranged from 2.6 to 4.2 inches. Overall there were few periods of heavy downpours and there were sufficient lulls of light rain or drizzle to keep most small streams and creeks within bankfull. Flooding problems were confined to flooded basements, backyards and some poor drainage areas.

The heaviest rain for any given day during this event was mainly Friday the 8th. The axis of heavy rain slowly shifted north over the weekend into Pennsylvania. A second shot of heavy rain fell on Tuesday the 12th as the system was finally leaving the area. Storm totals included 4.23 inches in Dover (Kent County), 3.73 inches in Georgetown (Sussex County), 3.61 inches in Wilmington (New Castle County), 3.41 inches in Lewes (Sussex County), 3.00 inches in Odessa (New Castle County), 2.65 inches at the New Castle County Airport and 2.60 inches in Newark (New Castle County). In addition to the heavy rain, as the low departed the area and the high pressure system moved in, strong winds occurred during the daylight hours on the 12th. The loose ground from the rain left the trees vulnerable and some of the weaker ones were knocked over and caused scattered outages mainly in Sussex County. Peak wind gusts included 58 mph at the Pilot Tower at Cape Henlopen and 47 mph at the Indian River Inlet.

A low pressure system heading toward the Middle Atlantic States was in the lower Ohio Valley the morning of the 7th. By the morning of the 8th, it moved into northern Indiana as a secondary low was forming in Virginia. On the morning of the 9th, this secondary low was located about 275 miles eastsoutheast of Indian River Inlet. But, it became trapped by a low at upper levels of our atmosphere and drifted slowly south through the morning of the 10th. Meanwhile, a large high pressure system started building into Northern New England. Yet another low pressure system developed over the Southern Plains on the 9th and was in the Tennessee Valley the morning of the 10th. On the morning of the 11th, two low pressure systems, one trapped under the closed low in the western Atlantic and the other just east of Charleston, South Carolina continued the wet onshore flow. These two lows merged into one by the morning of the 12th about 275 miles east of Cape Hatteras, North Carolina and remained nearly stationary through the 14th. The high pressure system over Northern New England slowly built south and brought drier air into the region and gave the state its first prolonged rain-free period of the month from the 13th onward.

DEZ003>004

Inland Sussex - Delaware Beaches

11	1800EST				0	0			Coastal Flooding
12	2100EST								

A persistent northeast flow caused by a high pressure system building south from Canada and a couple of low pressure systems that moved off the Middle and South Atlantic States produced minor coastal flooding from the 10th through the 13th. Tidal flooding became locally moderate during the evening high tides on the 11th and 12th, especially in the inlets. The water in the inlets had a hard time draining because of the persistent onshore winds. Tidal departures averaged about 1.5 to 2.0 feet above normal at times of high tide along the ocean front. Tides were already astronomically high because of the full moon. The highest tides occurred during the evening of the 11th. At Lewes, the tide was 6.7 feet above mean lower low water that evening. In addition to the tidal flooding, the pounding surf created more erosion problems along the shore.

A low pressure system developed over Virginia on the 8th. It moved offshore by the morning of the 9th and was about 275 miles eastsoutheast of Indian River Inlet. Unfortunately, it was caught by a closed low at higher levels of the atmosphere and drifted slowly south through the 10th. Meanwhile a high pressure system was slowly building south into the United States from Canada. Another low pressure system moved into the Tennessee Valley the morning of the 10th and moved off the South Carolina Coast the morning of the 11th. These two lows combined into one east of Cape Hatteras, North Carolina by the morning of the 12th and remained nearly stationary through the 14th. The high pressure system eventually built far enough south to end the onshore flow across the area.

DISTRICT OF COLUMBIA

NONE REPORTED.

FLORIDA, East Central

Orange County 5 SW Orlando	04	1307EST			0	0		Hail (1.00)
Osceola County Kissimmee	04	1312EST			0	0		Hail (1.75)
Brevard County Cocoa	04	1405EST			0	0		Funnel Cloud

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, East Central									
A funnel cloud was reported by local police in Cocoa.									
Brevard County 9 W Melbourne	04	1410EST			0	0			Hail (1.00)
One inch diameter hail was also reported in Melbourne.									
Osceola County Deer Park	04	1410EST			0	0			Hail (1.00)
Brevard County Palm Bay	04	1425EST			0	0			Hail (1.25)
Brevard County 8 E Cape Canaveral	04	1445EST			0	0			Waterspout
Thunderstorms in the off shore waters produced eight waterspouts in a short period of time.									
Brevard County Grant	04	1447EST			0	0			Hail (1.00)
Brevard County Micco	04	1450EST			0	0	15K		Thunderstorm Wind (G55)
Thunderstorm winds destroyed carports on two mobile homes.									
Brevard County Palm Bay	04	1450EST			0	0			Hail (0.88)
Indian River County 2 E Sebastian	04	1455EST			0	0			Waterspout
A waterspout was sighted off the coast of Sebastian Inlet.									
St. Lucie County 5 E Ft Pierce	04	1533EST			0	0			Waterspout
A waterspout was sighted over the Indian River Lagoon near F. Pierce.									
Okeechobee County Okeechobee	04	1534EST			0	0	20K		Thunderstorm Wind (G55)
Thunderstorm winds damaged carports and blew down large tree limbs.									
St. Lucie County 8 S Ft Pierce	04	1545EST			0	0			Hail (1.75)
Osceola County 10 S Kissimmee to Kissimmee	05	1100EST			0	0			Hail (0.75)
Osceola County St Cloud	05	1118EST			0	0			Hail (1.00)
Orange County Lockhart	05	1212EST			0	0			Hail (1.00)
Brevard County Port St John	05	1230EST			0	0			Hail (1.00)
Brevard County Titusville Ti Co Arp	05	1235EST			0	0			Thunderstorm Wind (G70)
Thunderstorm winds produced wind gusts to 70 knots turning a jet C23 jet aircraft on the tarmac.									
Orange County Maitland	05	1315EST			0	0			Hail (1.00)
Seminole County Winter Spgs	05	1316EST			0	1			Hail (1.00)
One inch hail fell in Maitland injuring a woman. One inch hail also fell in Apopka.									
Seminole County (Sfb)Sanford Arpt	05	1345EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down trees in Geneva.									
Seminole County Geneva	05	1345EST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>FLORIDA, East Central</u>									
Lake County									
Clermont	05	1400EST			0	0			Hail (0.75)
Okeechobee County									
Okeechobee	05	1415EST			0	0			Hail (0.75)
Okeechobee County									
Okeechobee	05	1415EST			0	0			Thunderstorm Wind (G55)
			Thunderstorm winds blew down trees in the town of Okeechobee.						
Orange County									
Ocoee	05	1415EST			0	0			Hail (0.88)
Orange County									
Orlando	05	1418EST			0	0			Hail (0.88)
Lake County									
Clermont	05	1425EST			0	0			Hail (1.25)
Martin County									
Port Mayaca	05	1430EST			0	0			Hail (1.25)
Volusia County									
1 E New Smyrna Beach	05	1433EST			0	0			Waterspout
			A waterspout was sighted one mile east of New Smyrna Beach.						
Orange County									
1 E Orlando	05	1435EST			0	0			Hail (1.00)
Martin County									
Indiantown	05	1450EST			0	0			Hail (1.00)
Orange County									
Apopka	05	1450EST			0	0			Hail (1.25)
St. Lucie County									
Ft Pierce	05	1518EST			0	0			Hail (1.25)
Indian River County									
Vero Beach	05	1710EST			0	0			Hail (0.75)
<u>FLORIDA, Northeastern</u>									
Putnam County									
Palatka	03	1300EST			0	0	5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Putnam County									
5 NW Palatka	03	1320EST			0	0			Thunderstorm Wind (G65)
St. Johns County									
St Augustine	04	1205EST			0	0			Thunderstorm Wind (G75)
Hamilton County									
Jasper	04	1615EST			0	0			Hail (0.75)
Suwannee County									
Dowling Park	07	0640EST			0	0			Hail (1.00)
Duval County									
Jacksonville	18	1415EST			0	0			Hail (0.75)
			Memorial Hospital						
Putnam County									
Palatka	18	1420EST			0	0	3K		Thunderstorm Wind
			Large trees were blown down. House damaged.						
Putnam County									
Palatka	18	1427EST			0	0			Thunderstorm Wind (G65)
Putnam County									
Palatka	18	1443EST			0	0			Hail (1.75)
Duval County									
Jacksonville	18	1445EST			0	0			Hail (1.00)
			Downtown.						
Marion County									
Ocala West	18	1510EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, Northeastern

Putnam County
Crescent City **18** **1515EST**
 Large trees and power lines were blown down. **0** **0** **3.5K** **Thunderstorm Wind**

Marion County
Ocala **18** **1545EST**
 Large trees and power lines were blown down. **0** **0** **3.5K** **Thunderstorm Wind**

St. Johns County
Hastings **18** **1550EST**
Hail (0.75)

Marion County
Ocala **18** **1725EST**
Hail (0.75)

FLORIDA, Northwest

Jackson County
Graceville **04** **0215EST**
 Golfball sized hail in Graceville. **0** **0** **Hail (1.75)**

Jackson County
Campbellton **04** **0245EST**
 Dime sized hail in Campbellton. **0** **0** **Hail (0.75)**

Jackson County
Sneads **04** **0352EST**
 Dime sized hail in Sneads. **0** **0** **Hail (0.75)**

Bay County
Vicksburg **04** **0415EST**
 Dime sized hail reported in the Sand Hills Subdivision off Spikes Road five miles west of Vicksburg. **0** **0** **Hail (0.75)**

Franklin County
Carrabelle **04** **0750EST**
 Dime to golfball sized hail in Carrabelle, Dog Island, and Lenark Village. **0** **0** **Hail (1.75)**

Madison County
Cherry Lake **04** **1505EST**
 Dime to golfball sized hail covering the ground in Cherry Lake. **0** **0** **Hail (1.75)**

Madison County
Pinetta **04** **1510EST**
 Dime to golfball sized hail along State Highway 145 just south of Pinetta. **0** **0** **Hail (1.75)**

Jefferson County
Dills **07** **0515EST**
 Trees down along State Highway 146 10 miles north of Aucilla near Dills. **0** **0** **1K** **Thunderstorm Wind**

Madison County
Greenville **07** **0525EST**
 Trees down along U.S. Highway 90 in southeast Greenville. **0** **0** **1K** **Thunderstorm Wind**

Madison County
Madison **07** **0535EST**
 Trees down at intersection of Interstate 10 and State Highway 14. **0** **0** **1K** **Thunderstorm Wind**

Wakulla County
Southwest Portion **25** **1200EST**
 31 **2359EST**
 Lightning sparked wild fires in the Wakulla Ranger District of the 50,000-acre Apalachicola National Forest, at the junction of Forest Service Roads 348 and 329 (SE corner of Bradwell Bay). Hot, dry conditions, along with occasionally gusty, shifting winds have complicated the firefighting efforts. By midnight Sunday, May 31, wild fires consumed nearly 2,800 acres. No homes or other structures have been threatened. Over 180 firefighters from federal, state, and local departments were called to action. Leon County supported the efforts of the Division of Forestry, U.S. Forest Service, and the Wakulla County fire departments.

FLORIDA, Southern

Glades County
Moore Haven **04** **1525EST**
 Male was swept overboard from 30 foot sailboat. He was rescued as he clung to a buoy and his mate and sailboat drifted about one half mile away on Lake Okeechobee. **0** **0** **Thunderstorm Wind (G55)**

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
FLORIDA, Southern									
Dade County									
Redland	04	1640EST 1650EST	0.1	10	0	0			Tornado (F0)
		Metro Dade police reported a brief touchdown near SW 154th Ave north of Quail Roost Dr. A storm spotter reported seeing three funnel clouds near Krome Ave/Quail Roost Dr.							
Broward County									
Andytown to Davie	04	1730EST 1750EST			0	0			Funnel Cloud
		Some tree limbs were downed near US 27 and I-595 with associated thunderstorm. Funnel was spotted farther south over davie at 1746 est.							
Broward County									
Hollywood	04	1750EST 1805EST			0	0			Thunderstorm Wind (G55)
		A large tree was uprooted at Topeekegee Yugnee Park. Pea sized hail was reported in numerous locations around southern Broward County.							
Dade County									
Carol City	04	1805EST 1820EST			0	0			Thunderstorm Wind (G60)
		Tree down at Krome Ave and Okeechobee Rd.							
Palm Beach County									
Greenacres City	04	1805EST	0.1	10	0	0			Tornado (F0)
		Brief touchdown with no damage reported by Palm Beach County sheriff. Possible Gustnado as convective cores where west of area.							
Dade County									
Sweet Water	04	1820EST 1830EST			0	0			Tstm Wind/Hail
		Three quarter to one inch hail observed at NWSFO Miami near Florida turnpike and SW 8th St.							
Dade County									
(Mia)Miami Intl	04	1828EST			0	0			Thunderstorm Wind (G55)
Dade County									
Kendall	04	1835EST 1850EST			0	0			Tstm Wind/Hail
		One inch hail reported by NWS employee at SW 104th St and 99 Ave.							
Dade County									
Cutler Ridge	04	1840EST 1900EST			0	0			Hail (0.75)
		From Saga Bay...also reported g47 knots and 1.17 inches of rainfall.							
Dade County									
Perrine	04	1844EST 1900EST			0	0			Hail (1.75)
		Several trees were downed in the area.							
Dade County									
Cutler Ridge	04	1845EST 1900EST			0	0			Hail (1.00)
		Also reported g50 knots.							
Dade County									
South Miami	04	1845EST 1900EST			0	0			Hail (2.00)
		Hail one to two inches reported by NWS employee at US1 and SW 142nd St.							
Dade County									
Miami Beach	04	1900EST	0.2	20	0	0			Tornado (F0)
		Brief touchdown of funnel cloud near Alton Rd/Dade Blvd reported by several witnesses to WFOR-TV. Powerlines downed and tree branches broken.							
Monroe County									
Marathon	04	2000EST 2030EST			0	0			Thunderstorm Wind (G74)
		Radioed in by vessel off Sombrero Key.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Southern									
Monroe County Marathon	04	2000EST 2030EST			0	0			Thunderstorm Wind (G86)
									Reported by yacht in Looe Key harbor that 6 occupied boats were capsized with 2 boats being over 20 feet. A cluster of severe thunderstorms moved southeast mainly over the southwest suburbs of Broward...and most of populated Dade County. Numerous locations reported pea sized hail with surface accumulations over one inch. Widespread power outages resulted from downed trees and powerlines.
Broward County Deerfield Beach	05	1600EST			0	1			Lightning
Palm Beach County Riviera Beach	05	1620EST 1630EST			0	0			Hail (1.75)
									Reported from Singer Island to WPTV-TV.
Dade County (Mia)Miami Intl	06	1405EST 1415EST			0	0			Funnel Cloud
									Brief funnel cloud reported by spotter about 10 miles west of MIA west of the Florida turnpike and NW 36th St.
Dade County (Mia)Miami Intl	06	1455EST 1700EST			0	0			Tstm Wind/Hail
									Three quarter inch hail reported by observer at MIA at 1607 est. Half inch hail observed at Miami NWSFO at 1545 est. Half inc h hail reported by viewer in Opa-Locka to WTVJ meteorologist at 1500 est.
Dade County Redland	06	1810EST			0	0			Funnel Cloud
									Pilot reported funnel cloud over the everglades about 3nm south of Chekika State Recreational Area about 3nm west of Krome Ave . Shower movement was to the south at 10 mph.
Palm Beach County Belle Glade	06	1920EST 1930EST			0	0			Hail (1.75)
									Reported by Palm Beach County sheriff deputy.
Broward County Ft Lauderdale	15 16	0000EST 2359EST			0	0			Rip Currents
Dade County Miami Beach	15 16	0000EST 2359EST			0	0			Rip Currents
Palm Beach County Palm Beach	15 16	0000EST 2359EST			0	0			Rip Currents
									A stalled low pressure system well offshore the Florida northeast coast resulted in moderate northeast swells over the coastal waters of southeast Florida. Beaches were closed with no deaths or injuries reported. Lifeguards confirmed rip current conditions with the largest swells about 5 feet in Palm Beach County.
Collier County	28	0730EST 1145EST			0	0			Urban/Sml Stream Fld
									Street flooding and overflowing canals resulted as a line of thunderstorms dumped near three inches of rain in the morning hours. The county Government Center measured 2.73 inches between 7:30 and 11:45 am.
Monroe County Big Coppit Is	29	1615EST 1630EST			0	0			Waterspout
									Spotter reported waterspout north of mile marker 10. Little movement.
Broward County Ft Lauderdale	30	1025EST 1045EST			0	0			Waterspout
									Pilot reported several waterspouts about 25nm east of Fort Lauderdale/Hollywood International airport(FLL). Shower movement was to the northeast at 5 to 10 knots.
Monroe County Flamingo	31	0805EST			0	0			Waterspout
									Pilot reported 5-8nm SW of Cape Sable. Shower movement was to the northeast at 5 to 10 knots.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Hillsborough County									
Brandon	04	1233EST			0	0	0	0	Hail (1.75)
Golfball sized hail was reported near the intersection of Interstate 75 and State Road 60.									
Polk County									
Mulberry to Auburndale	04	1254EST 1315EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported from Mulberry to Auburndale.									
Hernando County									
25 W Brooksville	04	1315EST			0	0	0	0	Waterspout
Hernando County									
Spring Hill	04	1315EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds downed several large branches in Spring Hill. A few of the large downed limbs broke windows of adjacent homes in Spring Hill.									
Polk County									
Lake Wales	04	1335EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported near the intersection of U.S. Highway 27 and State Road 60 by Skywarn Spotters.									
Highlands County									
3 W Avon Park	04	1350EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported at the Avon Park Municipal Airport.									
Hardee County									
10 E Wauchula	04	1350EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported near the intersection of State Road 64 and Charlie Creek.									
Highlands County									
Avon Park	04	1400EST			0	0	0	0	Hail (1.75)
Highlands County									
4 S Avon Park	04	1420EST			0	0	0	0	Hail (0.75)
Manatee County									
8 SW Bradenton	04	1420EST			0	0	0	0	Thunderstorm Wind
A 70 mph wind gust was reported at Coquina Beach by a lifeguard.									
Sarasota County									
5 SE Sarasota	04	1430EST			0	0	0	0	Thunderstorm Wind
A 65 mph wind gust was reported by a Skywarn Spotter.									
Sarasota County									
Sarasota	04	1430EST			0	0	0	0	Hail (0.75)
Highlands County									
3 NW Sebring to Sebring	04	1435EST 1440EST			0	0	100K	0	Thunderstorm Wind
Thunderstorm winds removed the roof structure of a fifteen vehicle aluminum carport 25 to 30 feet away from the Highlands Regional Medical Center on U.S. Highway 27. Several large tree limbs were also downed by thunderstorm winds in Sebring.									
Highlands County									
Lake Placid to 2 SW Lake Placid	04	1444EST 1455EST			0	0	0	0	Hail (0.75)
Sarasota County									
South Venice	04	1500EST 1505EST			0	1	10K	0	Thunderstorm Wind
A 23 year-old man trying to take down a flag suffered several broken bones when he was lifted and thrown 20 to 30 feet over the corner of a restaurants roof as he clung to the tethered line of the flagpole during a thunderstorm downburst.									
Thunderstorm winds also downed a large tree atop a home which caused roof, lanai and screen porch damage in Sarasota.									
Sarasota County									
Englewood	04	1520EST			0	1	12K	0	Tstm Wind (G40)
Thunderstorm winds of up to 45 mph produced five foot waves which capsized a fourteen foot boat and injured a man thrown overboard in Lemon Bay.									
Charlotte County									
Englewood to Port Charlotte	04	1536EST 1540EST			0	0	0	0	Hail (0.88)
Nickel to dime sized hail was observed from Englewood to Port Charlotte.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

Lee County 4 S Ft Myers	04	1615EST			0	0	0	0	Thunderstorm Wind (G50) A thunderstorm wind gust of 58 mph was measured at Page Field in Ft. Myers.
Lee County Cape Coral to Sanibel	04	1630EST			0	0	15K	0	Thunderstorm Wind Thunderstorm winds blew off the roof of a commercial building at the intersection of Pine Island Road and Andalusia Boulevard. Also, thunderstorm winds downed several large branches on Sanibel Island.
Lee County 10 SE Ft Myers	04	1640EST			0	0	0	0	Thunderstorm Wind (G54) A 62 mph wind gust was measured at Regional Southwest Airport in Ft. Myers.
Manatee County 13 ENE Bradenton	05	0818EST			0	0	0	0	Hail (1.75) Golfball sized hail was reported in Parrish near the intersection of State Road 64 and County Road 675.
Pinellas County St Petersburg to 3 NNE St Petersburg	05	0844EST 0854EST			0	0	0	0	Hail (0.88)
Hillsborough County Brandon	05	0923EST 0927EST			0	0	0	0	Hail (0.88) Nickel to dime sized hail was reported by off-duty NWS meteorologists in Brandon.
Hillsborough County 1 S Tampa	05	0940EST			0	0	500K	0	Thunderstorm Wind (G74) Thunderstorm winds measured at 85 mph damaged nine parked aircraft and nine hanger doors at the Peter O. Knight Airport on Davis Island. At least 27 drydocked sailboats and five moored power boats were damaged by the thunderstorm wind at a marina on Davis Island.
Polk County 1 S Lakeland	05	0958EST			0	0	0	0	Hail (0.75) Dime sized hail was reported in South Lakeland by a Skywarn Spotter.
Polk County Auburndale	05	1016EST			0	0	0	0	Hail (1.00)
Polk County Haines City	05	1040EST			0	0	0	0	Hail (0.75)
Hillsborough County 3 S Plant City	05	1140EST			0	0	0	0	Hail (0.88)
Polk County Eagle Lake	05	1217EST			0	0	0	0	Hail (0.75)
Manatee County 8 SW Bradenton	05	1340EST			0	0	0	0	Hail (1.75) Golfball sized hail was reported by a Skywarn Spotter on Longboat Key.

FLORIDA, West Panhandle

Escambia County Molino	03	2026CST 2028CST			0	0			Hail (1.75) Golfball size hail was reported in the community.
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GEORGIA, East Central

Burke County 5 N Waynesboro	03	1306EST			0	0		0	Thunderstorm Wind (G55) A severe thunderstorm took down several trees on highway 25.
Burke County 5 S Waynesboro	07	1220EST			0	0	0	0	Hail (0.75) EOC reported 3/4 inch hail.
Lincoln County Lincolnton	07	1814EST			0	0			Hail (0.88) Sheriff reported nickel size hail.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GEORGIA, East Central</u>									
Lincoln County Lincolnton	07	1824EST			0	0			Hail (1.75)
		Sheriff reported golf ball size hail.							
Lincoln County 2 W Lincolnton to 1.5 WSW Lincolnton	07	1833EST 1835EST	0.5	100	0	0	50K		Tornado (F1)
		An F1 tornado destroyed two chicken sheds, tore a roof off a home, and turned a home 90 degrees and moved it off its foundation.							
Lincoln County 1 SE Lincolnton to 1.5 SE Lincolnton	07	1841EST 1843EST	1	200	0	8	300K		Tornado (F2)
		An F2 tornado hit the Pine Woods subdivision destroying 12 homes and causing major damage to 15 homes and minor damage to 8 homes.							
Lincoln County New Hope	07	1847EST 1849EST	1	100	0	0	50K		Tornado (F1)
		An F1 tornado did major damage and minor damage to several homes and mobile homes.							
Lincoln County 5 ESE New Hope to 5.5 ESE New Hope	07	1853EST 1855EST	0.5	200	0	0	350K		Tornado (F2)
		An F2 tornado destroyed 7 homes and did major and minor damage to about a dozen others at Indian Cove.							
Lincoln County Amity	07	2025EST			0	0			Hail (0.88)
		Sheriff reported nickel size hail.							
Columbia County Leah	07	2040EST			0	0			Hail (1.75)
		Sheriff reported golf ball size hail.							
Lincoln County Lincolnton	07	2210EST			0	0	0	0	Hail (0.75)
		Sheriff reported 3/4 inch hail.							
Columbia County Pollards Corner	07	2250EST			0	0			Hail (0.88)
		Sheriff reported nickel size hail.							
Columbia County 5 E Pollards Corner	07	2305EST			0	0		0	Thunderstorm Wind (G50)
		EOC reported trees down near Industrial Dr.							
<u>GEORGIA, Lower</u>									
Jeff Davis County Hazelhurst	03	1220EST			0	0	2K		Thunderstorm Wind
		Large trees were blown down.							
Bacon County Alma	03	1230EST			0	0			Hail (0.75)
Echols County Statenville	03	1545EST			0	0			Hail (1.00)
Clinch County Fargo	03	1600EST			0	0	2.5K		Thunderstorm Wind
		Large trees were blown down.							
Ware County 5 NW Waycross	03	1819EST			0	0			Hail (0.88)
Appling County Baxley	03	1910EST			0	0	3K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Jeff Davis County Hazelhurst	03	1940EST			0	0			Hail (0.75)
Pierce County Blackshear	04	1230EST			0	0	1.5K		Thunderstorm Wind
		Large trees were blown down.							
Wayne County Screvan	04	1235EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GEORGIA, Lower</u>									
Ware County									
Dixie Union	04	1240EST			0	0			Hail (0.75)
Pierce County									
Blackshear	04	1335EST			0	0			Hail (0.75)
Wayne County									
Screvan	04	1400EST			0	0			Hail (0.88)
Appling County									
Baxley	04	1459EST			0	0			Hail (0.88)
Wayne County									
Jesup	04	1505EST			0	0			Hail (0.75)
Bacon County									
Sessoms Station	04	1600EST			0	0			Hail (1.00)
Pierce County									
Bristol	04	1645EST			0	0			Hail (0.75)
Pierce County									
1 N Blackshear	04	1630EST			0	0			Hail (0.75)
Appling County									
Baxley	04	1630EST			0	0			Hail (1.00)
Bacon County									
Alma	04	1635EST			0	0			Hail (1.00)
Wayne County									
Screvan	04	1725EST			0	0			Hail (0.88)
Wayne County									
Screvan	04	1745EST			0	0			Hail (0.88)
Echols County									
Statenville	04	1805EST			0	0			Hail (0.75)
Bacon County									
Alma	08	1330EST			0	0	2K		Thunderstorm Wind
		Large trees were blown down.							
Coffee County									
Nicholls	08	1332EST			0	0	3K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Pierce County									
Blackshear	08	1355EST			0	0	1.5K		Thunderstorm Wind
		Large trees were blown down.							
Wayne County									
Jesup	08	1400EST			0	0	2.5K		Thunderstorm Wind
		Large trees were blown down.							
Coffee County									
Mora	08	1410EST			0	0			Hail (0.75)
Camden County									
Spring Bluff	08	1425EST			0	0			Hail (0.75)
Brantley County									
Hoboken	08	1430EST			0	0			Hail (0.75)
Brantley County									
Hickox	08	1450EST			0	0	2.5K		Thunderstorm Wind
		Large trees were blown down.							
<u>GEORGIA, North and Central</u>									
Forsyth County									
5 S Cumming	01	0055EST			0	0			Hail (0.75)
Hall County									
Gainesville	01	0143EST			0	0			Hail (0.75)
Hall County									
Gainesville	01	0230EST			0	0			Hail (0.75)
Banks County									
1 N Homer	01	0242EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Coweta County 1 E Moreland	03	0905EST			0	0			Hail (0.75)
			Dime size hail was reported on Tabby Lynch Road.						
Bibb County Macon	03	1100EST			0	0			Hail (0.75)
Floyd County 10 NW Rome to 3 E Rome	03	1435EST 1515EST			0	0	10K		Hail (1.75)
			Numerous public reports indicated large hail fell across Floyd county. Quarter size up to golf ball size hail was reported 10 miles northwest of Rome. Dime to nickel size was indicated in Rome, Armuchee, and the eastern parts of the county. It hailed continuously for 20 minutes to the east of Rome.						
Bartow County 10 N Kingston to 10 N Cartersville	03	1513EST 1532EST			0	0			Hail (1.25)
			Several reports of hail from quarter to half dollar size were received. Hail covered the ground in some areas.						
Bartow County 10 N Cartersville to 6 E Cartersville	03	1534EST 1555EST			0	0	2K		Hail (1.75)
			Reports from eastern Bartow county indicated up to golf ball size hail.						
Cherokee County 8 SW Canton to Hickory Flat	03	1555EST 1620EST			0	0	20K		Hail (2.00)
			Numerous public and spotter reports indicated dime to golf ball size hail fell across the south half of Cherokee county. Cars and roof tops were damaged a mile south of Holly Springs, where 2 inch hail was reported. Nickel size hail covered the ground 2 inches deep southwest of Canton.						
Cherokee County Canton	03	1600EST			0	0	5K		Lightning
			Four homes in Cherokee county sustained minor damage when struck by lightning.						
Cherokee County 5 S Canton	03	1605EST 1610EST			0	0	2K		Thunderstorm Wind
			The Cherokee county EMA reported thunderstorm winds knocked down trees and power lines.						
Floyd County 2 E Rome to 5 E Rome	03	1615EST 1630EST			0	0			Hail (0.88)
			Dime to nickel size hail was reported.						
Fulton County Crabapple to 2 N Alpharetta	03	1624EST 1635EST			0	0	2K		Hail (1.75)
			Public and spotter reports indicated golf ball size hail in Crabapple and 1.5 miles west of exit 11 off Georgia highway 400.						
Fulton County Alpharetta to 5 N Alpharetta	03	1635EST 1650EST			0	0	5K		Hail (1.75)
			Numerous public reports indicated dime to golf ball size hail fell across northern Fulton county in the Alpharetta area.						
Forsyth County 4 W Big Creek to 2 SE Big Creek	03	1640EST 1650EST			0	0			Hail (1.00)
			Nickel to quarter size hail fell in southern Forsyth county. Small trees were downed near the Fulton county line.						
Floyd County Rome	03	1648EST			0	0			Hail (1.00)
Gwinnett County Suwanee to Buford	03	1655EST 1715EST			0	0	2K		Hail (1.75)
			Several public reports indicated hail ranging from dime to golf ball size fell in Suwanee, Sugar Hill, and Buford.						
Floyd County Rome to 2 E Rome	03	1700EST 1710EST			0	0			Hail (0.88)
			Several public reports indicated dime to nickel size hail.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Coweta County Madras	03	1708EST			0	0			Hail (1.00)
Coweta County Newnan	03	1710EST			0	0			Funnel Cloud
A funnel cloud was reported over East Poplar Road.									
Coweta County 2 SW Madras to Thomas Xrds	03	1715EST 1720EST			0	0			Hail (0.75)
The public reported dime size hail.									
Lamar County Milner	03	1718EST			0	0			Hail (0.88)
Lamar County 4.5 SW Barnesville to 5 SE Barnesville	03	1720EST 1725EST			0	0	75K		Thunderstorm Wind
Severe thunderstorm winds knocked down 3 chicken houses and damaged the roof and shingles of 3 homes. A well house was blown away and large tree tops were twisted off. A funnel cloud was spotted over the area about 30 feet off the ground.									
Fayette County Peachtree City to Fayetteville	03	1730EST 1750EST			0	0	500K		Hail (3.00)
Large hail from a severe thunderstorm was reported in several areas of Fayette county. The largest hail was across the southern part of the county. An off-duty NWS meteorologist reported 2 inch hail covering the ground near Peachtree city. Numerous other reports from Peachtree City indicated silver dollar size, tennis ball size and as large as 3 inch hail. There were many cars and house roofs damaged. The hail broke a window at the number 5 fire station and caused a roof to collapse on Greenville Road. Quarter size to golf ball size hail was reported in Fayetteville and other parts of Fayette county.									
Carroll County 2 S Roopville	03	1735EST			0	0			Hail (1.00)
A spotter reported dime to quarter size hail near the Carroll/Heard county line.									
Fayette County Peachtree City	03	1742EST			0	0	1K		Thunderstorm Wind
A spotter reported 8 inch diameter trees were snapped off about 10 feet up.									
Sumter County 9 NW Americus	03	1745EST			0	0	1K		Thunderstorm Wind
Thunderstorm winds knocked trees down.									
Houston County Perry to 5 E Perry	03	1746EST 1800EST			0	0			Hail (0.75)
Public and spotter reports indicated dime size hail.									
Clayton County Jonesboro	03	1748EST			0	0			Hail (0.75)
Heard County Franklin	03	1800EST			0	0			Funnel Cloud
A funnel cloud and small hail were reported in Franklin.									
Houston County Hayneville	03	1800EST			0	0			Funnel Cloud
The Houston county EMA and 3 of his spotters reported spotting a funnel cloud from near Pabst to Hayneville. The funnel remained aloft and no damage was reported.									
Bibb County 5 SE Macon	03	1814EST			0	0			Hail (1.00)
Dime to quarter size hail was reported in south Bibb county near Jones Road.									
Spalding County Sunny Side	03	1825EST			0	0			Hail (1.00)
The Spalding county EMA Director reported quarter size hail.									
Bibb County 8 NW Macon	03	1830EST			0	0	5K		Thunderstorm Wind
The Monroe county fire chief reported numerous trees were knocked down by thunderstorm winds.									
Butts County 5 W Indian Spgs to Flovilla	03	1830EST 1845EST			0	0	5K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
GEORGIA, North and Central									
									Police and rescue units reported trees knocked down across the county. There were reports of funnel clouds and 3 tornado touchdowns, but no confirmation.
Monroe County 2 SW Dames Ferry to 2 S Dames Ferry	03	1830EST 1835EST	1.5	100	0	2	100K		Tornado (F0)
									A severe thunderstorm cell spawned a tornado in the southeast corner of the county. The damage path was surveyed by a NWS employee who reported damage at the Whispering Pines mobile home park. Four mobile homes and a van were destroyed, mainly from trees falling on them. Two minor injuries occurred. Numerous trees and power lines were downed. Most of the damage appeared to be straight-line winds, but there was evidence of circulation in some of the tree damage sites near the mobile home park. A metal outbuilding was lifted from a concrete pad and dropped 100 feet away, but items beneath the storage building remained intact on the pad. Eyewitness reports described the funnels as they ascended and descended. One person reported his truck was turned around in almost a complete circle but was left upright.
Monroe County 10 N Forsyth	03	1833EST	0.1	50	0	0	2K		Tornado (F0)
									Police also reported a brief tornado touchdown from another storm in northern Monroe county. Trees were damaged along highway 42 near Blount. No injuries or significant damage were reported. The path length and width were estimated.
Butts County Indian Spgs	03	1845EST			0	0	2K		Hail (1.75)
									Golf ball size hail was reported in the southern part of the county.
Cobb County Acworth to 5 NE Marietta	03	1845EST 1900EST			0	0	2K		Hail (1.75)
									The public reported golf ball size hail near Kennesaw and dime to quarter size around Acworth and Marietta. A funnel cloud was reportedly spotted in the Kennesaw area.
Crisp County Cordele	03	1915EST			0	0			Hail (0.75)
Spalding County Griffin	03	1915EST 1921EST			0	0			Hail (0.88)
									The ground was half covered with dime to nickel size hail.
Fulton County Alpharetta	03	1920EST			0	0			Funnel Cloud
									The public reported a funnel cloud moving east.
Crisp County Arabi	03	1925EST			0	0			Funnel Cloud
									Crisp county 911 received a public report of a funnel cloud south of Arabi.
Hall County Oakwood	03	1929EST 1930EST			0	0			Funnel Cloud
									Hall county 911 received separate public reports of funnel clouds near Oakwood and near the intersection of State Road 60 and Nancy Creek Road.
Carroll County Carrollton	03	1945EST 2000EST			0	0			Hail (1.00)
									Public reports indicated quarter size hail fell in downtown Carrollton. Dime size hail covered the ground and shredded leaves off trees near Lake Carroll.
Gwinnett County 4 N Snellville	03	2000EST 2005EST			0	0			Hail (1.00)
Banks County Homer	03	2005EST			0	0			Hail (1.00)
									Banks county 911 received a report of quarter size hail accumulating to 2 inches on a deck.
Gwinnett County 1 NE Grayson	03	2010EST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds knocked trees down that blocked highways 81 and 316 in Gwinnett county.
Gwinnett County 2 W Lawrenceville to 7 SE Lawrenceville	03	2010EST 2025EST			0	0	5K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Several public reports indicated dime to golf ball size hail from west of Lawrenceville through the Snellville area to near the Walton county line. There was a report of tornado sounds near Snellville.									
Walton County Bold Spgs	03	2015EST			0	0			Hail (1.00)
The public reported dime to quarter size hail.									
De Kalb County Lithonia	03	2030EST 2032EST			0	0			Hail (0.88)
Nickel size hail was reported near the De Kalb/Rockdale county line near Covington highway.									
Oconee County 4 NW Eastville to 2 NE Watkinville	03	2053EST 2122EST			0	0			Hail (1.00)
The public reported dime to quarter size hail at several locations in northern Oconee county.									
Newton County Oxford	03	2054EST 2104EST			0	0			Hail (0.75)
Clayton County Morrow	03	2100EST			0	0			Hail (1.25)
Henry County 3 W Flippen	03	2100EST			0	0			Hail (1.00)
Henry County 3 W Flippen	03	2100EST			0	0	1K		Thunderstorm Wind
The public reported quarter size hail and tree tops snapped off.									
Dooly County Vienna	04	0040EST 0045EST			0	0			Hail (0.88)
The Dooly county sheriff reported nickel size hail covering the ground.									
Dodge County Eastman	04	0130EST			0	0	2K		Hail (1.75)
The public reported golf ball size hail covering the yard.									
Montgomery County Mt Vernon	04	0135EST			0	0			Hail (0.75)
Sumter County Americus	04	0143EST			0	0			Hail (0.75)
Toombs County Vidalia	04	0145EST 0200EST			0	0			Hail (0.75)
Sumter County Americus	04	0216EST			0	0			Hail (0.75)
Cherokee County Ball Ground	07	0742EST			0	0			Hail (0.75)
Polk County Cedartown	07	0815EST			0	0			Hail (0.75)
Carroll County Carrollton	07	0840EST			0	0			Hail (0.75)
Gordon County Plainville	07	0900EST			0	0			Hail (0.88)
Bartow County 2 S Adairville	07	0911EST			0	0			Hail (0.88)
Gwinnett County Sugar Hill	07	0920EST			0	0			Hail (0.75)
Barrow County Winder	07	0950EST			0	0			Hail (0.88)
Clarke County Athens	07	1000EST			0	0	5K		Hail (1.75)
The public reported quarter to golf ball size hail.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
De Kalb County									
Lithonia	07	1000EST			0	0			Hail (0.75)
Clarke County									
Athens	07	1015EST			0	0			Hail (0.88)
Oglethorpe County									
Lexington	07	1035EST			0	0			Hail (0.75)
Towns County									
Hiawassee	07	1440EST 1445EST			0	0			Hail (1.00)
The public reported quarter size hail and a funnel cloud.									
Union County									
Ivy Log to 3 NE Blairsville	07	1455EST 1505EST			0	1	50K		Hail (2.75)
Union County									
Ivy Log to 3 NE Blairsville	07	1455EST 1505EST	9	100	0	0	50K		Tornado (F0)
A severe thunderstorm tracked across northern Union county spawning an intermittent F0 tornado. A combination of tornadic winds, downburst winds and large hail caused damage in a path from Ivy Log to northeast of Blairsville. Sight survey by NWS employees showed 25 homes and 100 vehicles were damaged. Numerous small trees were downed at the Arrowhead RV park on Ivy Log road. Many RVs had dents and damaged windows from hail. Also, several houses had tin roofs blown off. Another was damaged due to a falling tree. An above-ground pool was destroyed and damage to other homes occurred on Timothy Ingram Road and Ross Ridge Drive. The EMA director reported a tornado on the ground and the sight survey showed trees were occasionally downed in a twisting pattern. One minor injury occurred when a young boy was hit by hail. Other reports northeast of Blairsville indicated up to baseball size hail damaged cars. Trees and power lines were downed along highway 76. Some of the trees fell on a car.									
Towns County									
Young Harris to Hiawassee	07	1506EST 1520EST			0	0	5K		Hail (2.75)
The public reported golf ball to baseball size hail in Young Harris. Up to one and a half inch diameter hail was reported in Hiawassee.									
Dawson County									
1 S Dawsonville	07	1528EST			0	0			Hail (0.75)
Hall County									
7 NW Gainesville to 6 S Gainesville	07	1535EST 1545EST			0	0			Hail (0.88)
A few public reports indicated dime to nickel size hail north and south of Gainesville.									
Gordon County									
Resaca	07	1543EST			0	0			Hail (0.88)
Banks County									
5 SW Homer to 4 NE Homer	07	1603EST 1618EST			0	0	5K		Hail (1.75)
The public reported golf ball size hail near highway 52 southwest of Homer and also 4 miles northeast of Homer.									
Dawson County									
7 NW Juno	07	1630EST			0	0			Hail (1.00)
Gilmer County									
10 SE Ellijay	07	1640EST			0	0	2K		Hail (1.75)
The public reported quarter to golf ball size hail.									
Dawson County									
4 NW Dawsonville	07	1645EST			0	0			Hail (1.00)
Cherokee County									
Waleska to 10 E Canton	07	1650EST 1710EST			0	0	5K		Hail (2.75)
Spotter and public reports indicated nickel to quarter size hail from Waleska to near Canton. Golf ball to baseball size hail was reported 10 miles east of Canton.									
Cherokee County									
2 NE Canton	07	1700EST			0	0			Funnel Cloud
Two spotters reported a funnel cloud.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Dade County									
Trenton	07	1700EST			0	0			Hail (1.00)
A spotter reported quarter size hail and wind estimated at 55 mph.									
Cherokee County									
Free Home	07	1709EST			0	0	1K		Hail (1.75)
Golf ball size hail was reported by the public.									
Forsyth County									
8 W Cumming to Matt	07	1710EST 1735EST			0	0	5K		Hail (1.75)
Numerous public reports were received of hail from quarter to golf ball size. The largest hail apparently fell in Cumming.									
Lumpkin County									
1 W Dahlonega to 15 S Dahlonega	07	1711EST 1715EST			0	0	1K		Hail (1.75)
The public reported dime to golf ball size hail west and south of Dahlonega.									
Dade County									
Trenton	07	1715EST			0	0	1K		Hail (1.75)
The Dade county EMA director reported golf ball size hail damaged a house. Tree limbs were also knocked down.									
Walker County									
6 S Chickamauga to Rock Spg	07	1720EST 1725EST			0	0			Hail (1.00)
The public reported dime to quarter size hail.									
Lumpkin County									
Dahlonega to 3 E Dahlonega	07	1732EST 1739EST			0	0	5K		Hail (3.00)
The public reported baseball size and 3 inch diameter hail in the Dahlonega area.									
Hall County									
Murrayville	07	1735EST			0	0	1K		Thunderstorm Wind
Hall county 911 reported tree damage. There was an unconfirmed report of a tornado.									
Hall County									
Clermont to 1 SE Flowery Branch	07	1743EST 1745EST			0	0	2K		Hail (1.75)
Hall county 911 reported 1 inch hail and a funnel cloud near Clermont moving southeast. Reports near another storm in southern Hall county indicated quarter to golfball size hail in the Flowery Branch area.									
Whitfield County									
5 S Rocky Face to Tilton	07	1745EST 1800EST			0	0	25K		Hail (2.75)
Several public reports indicated hail ranged from golf ball to baseball size. Lots of damage to cars and house roofs occurred.									
Gordon County									
Resaca	07	1749EST			0	0	2K		Hail (2.75)
A public report indicated golf ball to baseball size hail.									
Jackson County									
Braselton to 5 SE Arcade	07	1750EST 1815EST			0	0	2K		Hail (1.75)
Several public reports indicated quarter to golf ball size hail. In addition to hail, a funnel cloud and high winds were reported along highway 129 near the Clarke county line.									
Wilkes County									
Tignall to Danburg	07	1753EST 1805EST			0	0	2K		Hail (1.75)
A couple of public reports indicated golf ball size hail fell.									
Whitfield County									
Carbondale	07	1758EST			0	0	20K		Thunderstorm Wind
Trees were knocked down. Houses were damaged and roofs torn off. There was an unconfirmed report of a tornado.									
Barrow County									
4 E Winder	07	1806EST			0	0			Hail (1.00)
Barrow County									
5 NW Winder to 4 E Winder	07	1810EST 1820EST			0	0	150K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Severe thunderstorm winds damaged a number of houses and mobile homes. One trailer was moved 5 inches off its foundation. Numerous trees were downed, some falling onto houses. At least 6 chicken houses were severely damaged and over 60,000 chickens were killed. Power lines and power poles were also knocked down, causing power outages. The EMA office found no evidence of tornadoes and said the damage was in paths from downdrafts.									
Gordon County 2 NW Resaca	07	1810EST			0	0	5K		Hail (1.75)
	Golf ball size hail was reported on Interstate 75 near the Whitfield/Gordon county line.								
Clarke County 6 NW Athens	07	1815EST			0	0			Funnel Cloud
	Gainseville Field Office of GEMA reported a funnel cloud, high winds and quarter to golf ball size hail on highway 129 at the Clarke/Jackson county line.								
Clarke County 6 NW Athens	07	1815EST			0	0	2K		Hail (1.75)
Gordon County 5 W Fairmount to Oakman	07	1820EST 1825EST			0	0	5K		Thunderstorm Wind
	A spotter reported 10 to 15 hardwood trees knocked down by thunderstorm winds. The report stated that the trees were felled in a confined area and that there were other reports of trees down in the Oakman area. It appeared the storm was propagating downbursts as it moved east. There was rotation and what appeared to be a lowered cloud base.								
Chattooga County Trion	07	1829EST 1840EST			0	0	2K		Hail (1.75)
	The public reported quarter to golf ball size hail.								
Walker County Center Post	07	1829EST			0	0			Hail (1.00)
	Quarter size hail was reported near the Walker/Chattooga county line in Walker county.								
Clarke County Athens	07	1832EST 1838EST			0	0	2K		Hail (1.75)
	The public reported dime to golf ball size hail.								
Chattooga County Trion	07	1837EST			0	0	5K		Thunderstorm Wind
	Thunderstorm winds knocked several trees down. One fell on a deputy's car. Quarter size hail was also reported.								
Pickens County Jasper to 12 SE Jasper	07	1850EST 1855EST			0	0	1K		Hail (1.50)
	Several reports indicated hail ranged from dime to ping pong ball size.								
Floyd County Armuchee to Shannon	07	1855EST 1900EST			0	0	2K		Hail (2.00)
	A public report indicated 2 inch hail in Armuchee and a spotter reported 3/4 to 1 inch hail in Shannon.								
Cherokee County 5 W Canton to Ball Ground	07	1859EST 1910EST			0	0	5K		Hail (2.75)
	A spotter reported quarter size hail and public reports indicated hail ranging in size from dime to as large as a baseball fell across west and north Cherokee county.								
Cherokee County Waleska to 3 N Canton	07	1900EST 1905EST			0	0			Funnel Cloud
	A funnel cloud was spotted by a deputy and several motorists. An unrelated death occurred when a 64 year old male died of a heart attack after reportedly leaving his vehicle to seek refuge from the storm under an overpass on I-575.								
Forsyth County Ducktown to Cumming	07	1900EST 1923EST			0	0	10K		Hail (4.00)
	A public report said hail as large as 3 to 4 inches fell in Cumming, while several other reports indicated golf ball to baseball size hail in Ducktown, Matt, and Cumming.								
Gordon County Plainville	07	1900EST			0	0	1K		Hail (1.25)
	Half dollar size hail was reported by the public.								

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Oglethorpe County 2.5 S Lexington	07	1900EST			0	0	5K		Hail (3.00)
									The public reported hail from dime size to as big as a fist covered the ground.
Bartow County Adairsville to Cartersville	07	1905EST 1932EST			0	0	3K		Hail (1.75)
									Several public reports stated that hail ranging from dime to as large as golf ball size fell in Adairsville, Cassville, and Cartersville.
Forsyth County Cumming	07	1925EST			0	0	2K		Thunderstorm Wind
									The Forsyth county EMA reported several trees and power lines down.
Forsyth County Cumming to 8 N Cumming	07	1928EST 1940EST			0	0	2K		Hail (1.75)
Bartow County Cartersville	07	1930EST			0	0			Funnel Cloud
									Reports from a sheriff's deputy and a citizen indicated a funnel cloud.
Forsyth County 4 S Cumming to 7 N Cumming	07	1930EST 1940EST			0	0			Funnel Cloud
									There were several reports of funnels in the Cumming area.
Bartow County 8 NW Cartersville to 5 SE Cartersville	07	1933EST 1946EST			0	0	20K		Hail (2.75)
									Numerous public reports indicated large hail fell in central and east Bartow county. The hail ranged in size from quarter to baseball size.
Bartow County 4 W Cartersville	07	1940EST			0	0	25K		Thunderstorm Wind (G65)
									Severe thunderstorm winds knocked trees down, primarily in the Five Forks area. Roads were blocked and power lines were taken down by trees. Power outages affected 5700 people. The public reported winds estimated at 60-65 mph that moved cars. Isolated flooding occurred in the southern part of the county that closed part of Parr Wade Road.
Cherokee County 8 SW Cherokee to 2 E Woodstock	07	1940EST 2015EST			0	0	75K		Hail (4.00)
									Large hail as big as softballs was reported across southern Cherokee county causing damage to cars and RVs. Skylights and glass panels were damaged and destroyed at a hardware store in Woodstock.
Cobb County Kennesaw	07	1940EST			0	0			Hail (0.75)
Hall County 5 SW Flowery Branch to Gainesville	07	1940EST 1955EST			0	0	5K		Hail (2.75)
									Several public reports indicated hail ranging from baseball size near the Gwinnett county line at Shoal Creek down to dime size in Gainesville.
Wilkes County Metasville	07	1940EST			0	0	50K		Thunderstorm Wind
									Newspaper accounts stated that a barn was destroyed and windows blown out of the house on a farm in Metasville. A funnel cloud was reported, but there was no confirmation of a tornado at the farm.
Gwinnett County Buford	07	1945EST 1950EST			0	0	1K		Hail (1.75)
									A public report indicated hail ranging dime to golf ball size.
Cobb County Acworth to 10 NE Marietta	07	1955EST 2016EST			0	0	5K		Hail (4.00)
									Several public reports from across northern Cobb county indicated hail ranging from dime size to as big as a fist. Damage to a house was reported.
Jackson County Braselton	07	2010EST 2015EST			0	0	2K		Hail (2.00)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
The public reported 2 inch hail.									
Fulton County Roswell to Alpharetta	07	2015EST 2038EST			0	0	1K		Hail (1.50)
The public made several reports of dime size to 11/2 inch hail.									
Barrow County 3 NE Winder	07	2023EST			0	0	5K		Hail (1.75)
The Barrow county EMA director reported golf ball size hail damaged cars.									
Gwinnett County Duluth	07	2040EST			0	0			Hail (0.75)
Chattooga County Summerville	07	2105EST			0	0			Hail (1.00)
Oglethorpe County 2.5 S Lexington	07	2110EST			0	0			Hail (0.75)
Walton County Loganville to Monroe	07	2120EST 2139EST			0	0	2K		Hail (1.75)
Public reports indicated dime to golf ball size hail.									
Bartow County Cartersville	07	2202EST			0	0			Hail (1.00)
Banks County 3 SW Homer to Homer	07	2227EST 2230EST			0	0	2K		Hail (1.75)
The public reported dime to golf ball size hail.									
Cherokee County Woodstock	07	2230EST			0	0			Hail (1.00)
Floyd County Silver Creek	07	2230EST			0	0			Hail (0.75)
Fulton County Roswell to 10 E Alpharetta	07	2235EST 2317EST			0	0	2K		Hail (1.75)
The public reported nickel to golf ball size hail across northern Fulton county.									
Forsyth County 3 W Cumming to Cumming	07	2254EST			0	0	2K		Hail (1.75)
The public reported quarter to golf ball size hail.									
Gwinnett County Duluth to Dacula	07	2307EST 2345EST			0	0	5K		Hail (2.75)
Several public reports of hail from dime size to as large as baseballs were received from Duluth, Suwanee, Lawrenceville, Grayson , and Dacula.									
Carroll County Bowdon to Carrollton	07	2320EST 2335EST			0	0	25K		Hail (2.50)
From 3/4 inch to 21/2 inch hail was reported by the public and an off-duty Weather Service employee. The hail was reported as golf ball size in Bowdon and up to tennis ball size in Carrollton. Cars were dented and had windshields broken. Roofs of houses were damaged and leaves were shredded leaves off trees.									
Carroll County Mt Zion to Carrollton	07	2320EST 2330EST			0	0	10K		Thunderstorm Wind
Numerous trees were downed by thunderstorm winds. A canopy over gas pumps at a convenience store was knocked over. Localized flooding occurred when about 21/4 inches of rain fell in 2 hours.									
Barrow County Auburn	07	2332EST 2345EST			0	0	2K		Hail (1.75)
The public reported dime to golf ball size hail.									
Coweta County 1 W Sargent to Sharpsburg	07 08	2350EST 0015EST			0	0	5K		Hail (2.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
									Several public reports were received from across Coweta county of hail ranging from dime size to 2 inches in diameter. At least 1 car was dented.
Carroll County Roopville	08	0000EST			0	0	10K		Thunderstorm Wind Thunderstorm winds knocked trees down and damaged house roofs.
Carroll County Mt Zion	08	0010EST			0	0			Hail (1.00)
Walton County 4 N Monroe to Mt Vernon	08	0010EST 0020EST			0	0			Hail (1.00) Two public reports indicated nickel to quarter size hail fell in Walton county.
Fayette County Tyrone to Starrs Mill	08	0015EST 0040EST			0	0			Hail (1.00) Several public reports indicated dime to quarter size hail.
Fulton County Alpharetta	08	0015EST			0	0	2K		Thunderstorm Wind The public reported 2 large trees down on a house.
Carroll County Carrollton to Whitesburg	08	0025EST 0045EST			0	0	2K		Hail (1.75) The public reported dime size and golf ball size hail.
Oconee County 3 N Watkinsonville to 3 SE Watkinsonville	08	0030EST 0036EST			0	0	50K		Thunderstorm Wind Newspaper reports said there were dozens of trees knocked down by a powerful thunderstorm. At least 3 homes, several vehicles, and other structures were damaged. Most of the damage occurred in the Oak Pointe subdivision off Flat Rock Road about 3 miles southeast of Watkinsonville. One tree fell on a pickup truck then onto the roof of a home. A funnel cloud was observed in the same area. The Oconee county EMA reported trees and power lines down along highway 78 north of Watkinsonville.
Coweta County 5 N Newnan to Sharpsburg	08	0035EST 0045EST			0	0	2K		Hail (1.75)
Coweta County Sharpsburg	08	0045EST			0	0	3K		Thunderstorm Wind Trees were knocked down and golf ball size hail was reported.
Fayette County 5 NE Peachtree City	08	0050EST			0	0			Hail (0.88)
Fulton County Palmetto	08	0100EST			0	0			Hail (1.00) The public reported quarter size hail.
Heard County 4 E Franklin	08	0105EST			0	0			Hail (0.75)
Henry County Locust Grove	08	0105EST			0	0			Hail (0.88)
Wilkes County Washington	08	0105EST			0	0	25K		Thunderstorm Wind Thunderstorm winds ripped a canopy from the front of a downtown business. Other damage was noted at shopping center where utility buildings on display were destroyed.
Butts County Jackson	08	0110EST			0	0			Hail (0.75)
Spalding County 7 N Griffin	08	0110EST			0	0			Hail (1.00) The public reported quarter size hail.
Jones County 5 SW Gray	08	0235EST			0	0			Hail (0.75)
Taylor County 10 N Butler	08	0455EST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Crawford County 10 S Roberta	08	0515EST			0	0			Hail (1.00)
Peach County Ft Vly to Powersville	08	0522EST 0540EST			0	0	2K		Hail (1.75)
The public reported dime size hail in Fort Valley and Peach county 911 reported golfball size hail in Powerville.									
Taylor County Reynolds	08	0525EST			0	0			Hail (1.00)
Houston County Centerville to Bonaire	08	0527EST 0540EST			0	0	10K		Hail (1.75)
Numerous public reports indicated hail ranging from dime size to as large as golf balls in Centerville, Perry, Warner Robins, and Bonaire.									
Houston County Perry	08	0551EST			0	0			Hail (1.00)
Twiggs County Tarversville	08	0555EST			0	0	1K		Hail (1.75)
The public reported from pea to golf ball size hail at the intersection of highways 96 and 87.									
Peach County Ft Vly	08	0610EST			0	0	1K		Hail (1.75)
A second storm produced golf ball size hail in Fort Valley.									
Laurens County Dublin	08	0625EST 0630EST			0	0			Hail (1.00)
Pulaski County Hawkinsville	08	0740EST			0	0			Hail (0.88)
Pulaski county 911 received several reports of dime to nickel size hail in and around Hawkinsville.									
Telfair County Jacksonville	08	1225EST			0	0			Hail (0.75)
Polk County 5 S Cedartown to 5 E Cedartown	09	2250EST 2253EST			0	0			Hail (0.75)
Bartow County 4 SE Cartersville	09	2330EST			0	0			Hail (1.00)
Cobb County Vinings	09	2350EST			0	0			Hail (0.75)
Fulton County Sandy Spgs	09	2350EST 2355EST			0	0			Hail (0.75)
Several public reports indicated dime size hail fell. One said it covered the ground.									
De Kalb County Brookhaven to Dunwoody	09 10	2355EST 0005EST			0	0			Hail (0.75)
Carroll County Carrollton	10	0005EST			0	0			Hail (1.00)
Gwinnett County Norcross	10	0008EST			0	0			Hail (0.75)
Forsyth County 8 SW Cumming	10	0010EST			0	0			Hail (0.75)
Fulton County Palmetto	10	0034EST			0	0			Hail (1.00)
Douglas County 8 W Douglasville	10	0050EST			0	0			Hail (0.75)
Cobb County Marietta	10	0140EST			0	0			Hail (0.75)
Fulton County Sandy Spgs	10	0143EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Paulding County 8 S Dallas to Hiram	10	0205EST 0215EST			0	0			Hail (1.00)
			Three reports indicated dime to quarter size hail fell between New Georgia and Hiram.						
Bartow County 5 SE Cartersville	10	0230EST			0	0	100K		Lightning
			A fire ignited by lightning destroyed a home on Kings Camp Road.						
De Kalb County 1 N Doraville	10	0313EST 0318EST			0	0			Hail (0.88)
Gwinnett County Lilburn to Lawrenceville	10	0315EST 0325EST			0	0			Hail (1.00)
			Numerous reports of dime to quarter size hail were received from the public.						
White County Helen	10	0845EST			0	0			Hail (1.00)
Greene County White Plains	18	1500EST			0	0			Hail (1.00)
			The sheriff's office in White Plains reported nickel to quarter size hail.						
Dodge County Chauncey	28	1645EST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds snapped 2 large pecan trees off halfway up.						
Carroll County Bowdon	29	1505EST			0	0	4K		Thunderstorm Wind
			The public reported thunderstorm winds blew shingles from a house, knocked down power lines, and broke off 6 to 8 inch diameter tree limbs.						
Harris County Waverly Hall	29	1515EST			0	0			Hail (0.75)
Coweta County Handy	29	1520EST			0	0			Hail (0.75)
Harris County Waverly Hall	29	1525EST			0	0	1K		Thunderstorm Wind
			The Waverly fire department reported dime size hail and 2 trees down.						
Houston County Elko to Hayneville	29	1600EST 1615EST			0	0	3K		Thunderstorm Wind
			The public reported thunderstorm winds knocked trees down and tore shingles off roofs.						
Fulton County East Pt	29	1630EST			0	0	1K		Thunderstorm Wind
			An off-duty NWS employee reported 2 trees were uprooted on Arrowwood Drive.						
Rockdale County Conyers	29	1720EST 1745EST			0	0	3K		Hail (1.75)
			Dime size to golf ball size hail was reported in Conyers. At least 1 car was dented and had its windshield broken. A large tree was also blown across a road.						
Newton County 5 W Covington	29	1755EST			0	0			Hail (1.00)
			The public reported quarter size hail and wind strong enough to blow objects across the road.						
Pulaski County Hawkinsville	29	1820EST			0	0			Hail (0.75)
Gwinnett County Lawrenceville	30	0845EST			0	0	75K		Lightning
			A home off Old Norcross Road near Lawrenceville was gutted by fire after being struck by lightning.						
Cobb County Marietta	30	0930EST			0	0	10K		Lightning
			Lightning hit a house on Chelsea Drive, setting the chimney on fire and causing a small hole in the roof.						
Montgomery County Tarrytown	30	1220EST			0	0	15K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GEORGIA, North and Central</u>									
Montgomery county 911 reported trees down, tops blown off buildings, power lines down, and some hail of unknown size.									
Houston County 5 W Kathleen	30	1438EST			0	0			Hail (0.88)
<u>GEORGIA, Northeast</u>									
Habersham County 7 S Clarkesville	03	1915EST			0	0			Hail (0.75)
Elbert County Bowman	03	2120EST			0	0			Hail (1.50)
A line of thunderstorms developed ahead of an advancing cold front and moved east across extreme northeast Georgia. A couple thunderstorms became severe and produced hail ranging in size from dimes to slightly smaller than golf balls.									
Habersham County 2 W Clarkesville	07	0845EST			0	0			Hail (0.88)
Habersham County Clarkesville	07	0900EST			0	0			Hail (1.50)
A severe thunderstorm produced large hail in and around Clarkesville during the morning.									
Habersham County 1 E Tallulah Falls	07	1553EST			0	0			Hail (2.75)
Rabun County 5 S Clayton	07	1555EST			0	0			Hail (1.75)
Franklin County 10 W Carnesville	07	1630EST			0	0			Hail (1.00)
Elbert County 3.5 ENE Elberton	07	1715EST 1722EST			0	0			Hail (2.75)
Elbert County 3.5 N Elberton to 3 N Elberton	07	1724EST	0.1	15	0	0		5K	Tornado (F0)
Rabun County Clayton	07	1805EST			0	0			Hail (1.75)
Rabun County Clayton	07	1843EST			0	0			Hail (1.00)
A warm front slowly moving north across northeast Georgia combined with a strong jet stream to produce multiple supercells that produced mainly quarter to baseball size hail. One weak tornado briefly touched down north of Elberton and cut a short path through a grain field. Some property damage resulted from the baseball size hail and possibly the tornado, but a dollar amount was undetermined.									
<u>GEORGIA, Southeast</u>									
Tattnall County Collins	03	1302EST 1305EST			0	0			Hail (0.75)
Jenkins County 8 NE Millen	03	1312EST 1317EST			0	0			Hail (0.75)
Tattnall County 10 SW Reidsville	03	1325EST 1330EST			0	0			Hail (0.75)
Screven County 2 S Hilltonia	03	1330EST 1335EST			0	0			Hail (0.75)
Bryan County Pembroke	03	1408EST 1413EST			0	0			Hail (1.00)
Bryan County Pembroke	03	1420EST 1422EST			0	0			Hail (0.75)
Chatham County Port Wentworth	03	1435EST 1438EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, Southeast									
			Trees down.						
Evans County Hagan	03	2145EST 2150EST			0	0			Hail (1.00)
Bryan County Pembroke	03	2208EST 2213EST			0	0			Hail (1.00)
Effingham County Meldrim	03	2230EST 2233EST			0	0			Hail (1.75)
Bulloch County Portal to Statesboro	04	0220EST 0226EST			0	0			Hail (0.75)
Candler County Metter	04	0220EST 0225EST			0	0			Hail (0.75)
Effingham County 2 SW Rincon	04	0320EST 0323EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Long County 8 N Donald	04	1255EST 1258EST			0	0			Hail (0.75)
Tattnall County Glennville	04	1300EST 1305EST			0	0			Hail (0.75)
Tattnall County 2 E Glennville	04	1303EST 1308EST			0	0			Hail (0.88)
Bryan County Ellabell	04	1325EST 1328EST			0	0			Hail (1.00)
Effingham County Rincon	04	1350EST 1355EST			0	0			Hail (0.75)
Chatham County Wilshire	08	1301EST 1305EST			0	0			Hail (1.00)
Chatham County Wilshire	08	1301EST 1303EST			0	0			Thunderstorm Wind (G52)
Chatham County 1 S Savannah to 6 S Savannah	08	1310EST 1318EST	5	40	0	0			Tornado (F0)
			Trees and limbs down and minor damage at local mall.						
Chatham County Isle Of Hope	08	1318EST 1323EST			0	0			Hail (1.75)
Screven County 2 WNW Newington to 1 NW Newington	10	1320EST 1325EST	0.5	100	0	0	10K		Tornado (F1)
			An above ground swimming pool destroyed, out buildings destroyed, minor roof damage to homes and numerous trees snapped off or uprooted.						
Jenkins County 5 E Perkins	17	1928EST 1930EST			0	0			Hail (0.88)
Chatham County Savannah Beach	31	1230EST 1300EST			0	0			Waterspout

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GEORGIA, Southeast</u>									
Several waterspouts reported by public.									
<u>GEORGIA, Southwest</u>									
Randolph County									
Cuthbert	03	1025EST			0	0			Hail (0.75)
Dime sized hail reported by Cuthbert F.D.									
Colquitt County									
Funston	03	1216EST			0	0			Hail (1.75)
Colquitt County									
Hartsfield	03	1250EST			0	0			Hail (1.75)
Public reported golfball sized hail in Funston and Hartsfield.									
Colquitt County									
Moultrie	03	1320EST			0	0			Hail (1.00)
Dime to quarter sized hail reported by Moultrie radio station.									
Cook County									
Adel	03	1345EST 1350EST			0	0	50K		Hail (2.75)
Golfball to baseball sized hail damaged numerous vehicles and residences in and around Adel.									
Berrien County									
Ray City	03	1415EST			0	0			Hail (1.75)
Golfball sized hail reported along U.S. Highway 129 about 4 miles north of Ray City.									
Lanier County									
Lakeland	03	1420EST			0	0			Hail (1.00)
Quarter sized hail reported three miles north of Lakeland.									
Early County									
Blakely	03	1425EST			0	0			Hail (0.75)
Dime sized hail in Blakely.									
Early County									
Damascus	03	1430EST 1440EST			0	0			Hail (1.75)
Numerous reports of dime to golfball sized hail countywide. The largest hail observed near Damascus.									
Randolph County									
Cuthbert	03	1605EST			0	0			Hail (0.75)
Dime sized hail reported in Cuthbert by Georgia Highway Patrol.									
Terrell County									
Dawson	03	1650EST			0	0			Hail (1.00)
Quarter sized hail covering the ground.									
Lee County									
Leesburg	03	1712EST			0	0			Hail (1.50)
Dime to ping pong ball sized hail along U.S. Highway 19 near Leesburg.									
Worth County									
Warwick	03	1737EST			0	0			Hail (0.75)
Dime sized hail reported by Warwick P.D.									
Early County									
Cedar Spgs	04	0145EST			0	0			Hail (0.75)
Dime sized hail in Cedar Springs.									
Miller County									
Colquitt	04	0155EST			0	0			Hail (0.75)
Dime sized hail in Colquitt.									
Lowndes County									
Valdosta	04	1415EST			0	0			Hail (1.75)
Golfball sized hail reported along U.S. Highway 41 at North Valdosta Road (just north of Valdosta).									
Lowndes County									
Bemiss	04	1423EST			0	0			Hail (1.75)
Golfball sized hail reported near Bemiss and Moody Air Force Base.									
Lowndes County									
Valdosta	04	1450EST			0	0			Hail (1.75)
Marble to golfball sized hail in Valdosta.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GEORGIA, Southwest

Worth County Bridgeboro	07	0410EST			0	0			Hail (0.75)
Dime sized hail in Bridgeboro reported by WALB-TV Albany.									
Worth County Bridgeboro	07	0415EST			0	0			Hail (0.75)
Dime sized hail 5 miles southeast of Bridgeboro near Ticknor.									
Colquitt County Moultrie	07	0430EST			0	0			Hail (0.88)
Nickel sized hail reported by storm spotter three miles north of Moultrie.									
Brooks County Morven	07	0535EST			0	0			Hail (1.00)
Quarter sized hail accumulated four inches deep in Morven.									
Lowndes County Valdosta	07	0540EST 0610EST			0	0	250K		Thunderstorm Wind
Straight-line winds destroyed three mobile homes, a wood frame house, and a church in Valdosta. Numerous trees and power lines downed throughout Valdosta. Dime sized hail reported in northeast Valdosta.									
Randolph County Shellman	30	1700EST			0	0	100K	3M	Lightning
Fire destroyed more than 4,000 tons of peanuts after lightning struck a warehouse at the Locke Farm Center in Shellman.									

GEORGIA, West Central

Quitman County Hatcher	03	1455CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in Hatcher.									
Stewart County Richland	04	0008CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Richland by the sheriff's office.									
Muscogee County 3 ENE Columbus Metro Arpt	30	1340CST			0	0	0	0	Hail (0.75)
A storm spotter reported dime size hail about 3 miles east-northeast of the Columbus airport.									
Muscogee County Columbus	30	1530CST			0	0	40K	0	Lightning
Lightning struck the Whisperwood Apartments and caused smoke and fire damage to one apartment and minor smoke damage to another.									

HAWAII

HIZ002>005	Oahu - Maui - Island Of Hawaii - Molokai								
	01	0000HST			0	0			Drought
	31	2359HST							
The drought in Hawaii continued through May, but conditions did improve in some areas.									

Below average precipitation occurred across parts of the state in May. However, many locales, especially on the islands of Kauai and Hawaii, received above average rainfall amounts for the month. On the other hand, Oahu and Maui were drier than average, with only a few locations receiving average or above average rainfall. Though a long term deficit of precipitation continued over the state, many areas that are dependent on catchment systems for their water supply have been receiving some rain. This has lessened the drought conditions in those areas.

May is a month that is a transition from spring weather to a more summer, and drier, pattern. However, moisture carried by the trade winds was sufficient enough to sustain windward and mauka showers across the state for much of the month. Most leeward areas, though, continued to be much drier than average.

The following are rainfall statistics and comparative data (in inches) for selected locations around the state. The island and station name are listed with the May 1998 rainfall total. For comparison, the average for the month and percent of average are listed for each station in the following two columns.

	May 98	Avg.	%Avg.
Oahu			
Honolulu	0.16	1.1	15
Waianae	0.01	0.7	1

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

HAWAII

Hawaii Kai	0.19	1.1	17		
Manoa Lyon A.	12.54	12.2	101		
Waialua	0.59	1.7	35		
Ahuimanu (windward)	2.48	5.6	44		
Maui					
Kahului	0.45	0.8	56		
Hana	1.26	6.2	20		
Kihei	0.00	0.2	0		
Lahainaluna	0.10	0.7	14		
Wailuka	0.30	1.2	25		
Island of Hawaii					
Hilo	15.65	9.9	158		
Pahala	0.58	3.8	15		
Honaunau (Captain Cook)	2.41	7.0	34		
Kamuela	8.11	4.0	203		
Kamuela (Higher Elev.)	11.74	3.9	301		
Laupahoehoe	17.19	11.7	147		
Molokai					
Kaunakakai	0.33	0.9	37		

The drought, although less severe on the Island of Hawaii over the last two months than it had been in the previous four, is nonetheless expected to cause the loss of as much as 40 percent of flower growers' income in 1998 because of lost production. It has also hit coffee and macadamia nut producers very hard. The full impact that the drought has had on farmers, however, will not be known until sometime in 1999.

Hawaii County

Kamuela to	01	0000HST	0	0	Wild/Forest Fire
Pahala	31	2359HST			

Honolulu County

Pacific Palisades to	01	0000HST	0	0	Wild/Forest Fire
Waianae	31	2359HST			

An area of about 1700 acres burned near the 15-mile marker on the Mamalahoa Highway in the North Kona District during the second week of May. This was one of the 167 brush fires that scorched parts of the Island of Hawaii during the first five months of 1998. These fires had burned more than 14,000 acres through the end of May. As a comparison, over the same time frame last year, the Big Island had had 183 fires that affected only 820 acres. More land was burned in 1998 because of the combination of drought conditions from El Nino and an abundance of overgrowth and underbrush that acted as fuel for the fires. It has cost Hawaii County more than \$3 million to fight the blazes so far this year.

At the same time, brush fires seared hundreds of acres on Oahu as well. From the central parts of the island to the western shores, 452 fires occurred in the first five months of this year. This is compared to 124 fires over the same time period in 1997. Cost figures for fighting the blazes on Oahu are not yet complete, but the Department of Land and Natural Resources has spent about \$269 thousand just to contend with 12 upper-elevation wild fires since the beginning of January.

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai	13	1000HST	0	0	High Surf
		2000HST			

Strong storm low in the Southern Hemisphere produced surf of 4 to 6 feet on the southern shores of all the Hawaiian Islands.

Hawaii County

Kamuela	19	1500HST	0	0	Funnel Cloud
		1530HST			

Funnel clouds were sighted near Kamuela (Waimea) and on the north side of Mauna Kea.

Hawaii County

Hilo	19	2030HST	0	0	Urban/Sml Stream Fld
		2330HST			

Heavy rain fell in the windward sections of the Big Island, including parts of the Hamakua, North and South Hilo, and Puna Districts.

IDAHO, Extreme Southeast

Bear Lake County

Montpelier	16	1500MST	0	0	0.30K	1K	Thunderstorm Wind (G52)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IDAHO, Extreme Southeast

A spotter measured a wind gust to 60 mph (52kts) from a severe thunderstorm.

IDAHO, North

Lemhi County

Gibbonsville	08	1400MST			0	0			Hail (1.00)
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Quarter sized hail was reported.

Idaho County

Grangeville	20	1450PST 1550PST			0	0			Hail (0.75)
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Hail to 3/4 inch was reported 3 miles southwest of Grangeville.

Idaho County

Fenn	20	1515PST			0	0			Hail (0.75)
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Hail to 3/4 inch was reported by severe weather spotter in Fenn.

IDAHO, Northwest

Bonner County

Sandpoint	26	1800PST			0	0	100K	0	Flood
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27 0600PST
significant street flooding

Boundary County

Bonnors Ferry	26	1800PST			0	0	500K	0	Flood
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27 0600PST
Mudslides from heavy rain.

Boundary County

Moyie Spgs	26	1800PST			0	0	10K	0	Heavy Rain
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27 0600PST
3 inches of rain overnight

IDAHO, Southeast

Bannock County

Portneuf	06	1512MST			0	0			Hail (1.50)
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Lincoln County

Richfield	06	1520MST			0	0			Hail (1.50)
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Lincoln County

Richfield	06	1600MST			0	0			Hail (0.75)
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Bonneville County

Idaho Falls	06	1740MST			0	0			Hail (0.75)
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Bonneville County

25 W Idaho Falls	08	1435MST			0	0			Thunderstorm Wind (G64)
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Butte County

30 SW Arco	09	1115MST			0	0			Funnel Cloud
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Fremont County

Chester	10	1130MST 1200MST			0	0			Funnel Cloud
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IDAHO, Southwest

Boise County

Banks to Garden Vly	03	1610MST 1625MST			0	0			Hail (0.75)
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A severe thunderstorm produced 3/4 inch hail at Banks and Garden Valley.

Jerome County

Jerome	05	1610MST			0	0			Hail (1.75)
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The Jerome County Sheriff reported 1.75 inch hailstones from a severe thunderstorm.

Adams County

Council	05	1805MST			0	0			Hail (0.75)
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A severe thunderstorm produced 3/4 inch hail at Council.

Boise County

Placerville to Horseshoe Bend	06	1700MST 1950MST			0	0			Hail (1.75)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

IDAHO, Southwest

A cluster of severe thunderstorms produced hailstones ranging in size from .8 inch to 1.75 inches over the Boise Mountains.

Ada County

7 SE (Boi)Gowen Fld Boise to 9 SE (Boi)Gowen Fld Boise	10	1637MST 1700MST	2	50	0	0			Tornado (F0)
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During the evening of May 10th, a tornado formed to the south east of the Boise Airport. The tornado was observed by Weather Service and Air Traffic Control personnel and lasted for about 20 minutes. The tornado moved very slowly through sage brush desert terrain causing no damage before dissipating.

IDZ021

Lower Snake River Plain

11	1200MST				0	0			Flood
15	1200MST								

Recent rainfall and spring snow melt caused the Portneuf River at Pocatello to rise to .6 feet above flood stage. Little damage was reported.

Twin Falls County

4 NW Buhl	12	1345MST 1417MST	1	50	0	0			Tornado (F0)
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A thunderstorm produced a weak tornado near Buhl. Numerous spotters reported a funnel cloud which briefly touched down and was photographed by a local newspaper. The tornado was short lived and produced no known damage over open and unpopulated terrain.

Ada County

2 NE Boise Terminal Arpt to 2 NE Boise	12	1855MST			0	0			Hail (0.75)
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A spotter reported 3/4 inch hail from a severe thunderstorm over south east Boise.

Owyhee County

Homedale to 12 W Grandview	13	1400MST 1600MST			0	0			Urban/Sml Stream Fld
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Scattered heavy showers and thunderstorms over south west Idaho produced small stream flooding in Owyhee County during the afternoon of May 13th. Flood waters from Catherine Creek washed out a bridge near Grandview. Small stream flooding was also reported on Succor Creek and Sheep Creek near Homedale. Reported damage was minor and confined mainly to roads and far m land.

Twin Falls County

Buhl	16	1325MST			0	0			Hail (0.75)
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Gooding County

Gooding	16	1340MST			0	0			Hail (0.88)
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A severe thunderstorm produced hail ranging in size from 3/4 inch to 7/8 inch from Buhl in Twin Falls County to Gooding in Gooding County.

IDZ013

Boise Mountains

21	0800MST 1615MST				0	0			Heavy Snow
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Twelve inches of new snow were reported at the Bogus Basin Ski Resort in the Boise Mountains. Spotter reports indicated 2 to 4 inches of snow fell during the day at lower elevations of the Boise Mountains.

IDZ021

Lower Snake River Plain

22	1200MST				0	0			Flood
25	1200MST								

Due to recent rains and snow melt, the Portneuf River at Pocatello once again rose slightly above flood stage, cresting at .4 feet above flood stage. No damage reported.

IDZ012-014

Lower Treasure Valley - Upper Treasure Valley

26	1645MST				0	0			Flood
31	2359MST								

Unusually heavy rainfall during the month of may caused many Idaho rivers to crest above flood stage. In south west Idaho, the Weiser River and Snake River at Weiser, the Payette River at Emmett and the Boise River at Boise all flooded during the final week of the month. The Weiser crested at 2.3 feet above flood stage closing a section of Highway 95, and flooded a car dealership, radio station and a church. This flooding was exacerbated by flood levels on the Snake River, which crested at Weiser 1.8 feet above flood stage.

The Payette River at Emmett crested at 1200 cfs higher than flood flow which broke a levee and caused the evacuation of 30 families along the river. In Boise, the Boise River crested at 1300 cfs over flood flow. Mostly farmland and city park land was flooded, however a flood caused levee break forced the evacuation of a trailer park along the river. The Boise river continued to

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IDAHO, Southwest									
									flood until June 10th.
ILLINOIS, Central									
Effingham County									
Altamont	02	1425CST			0	0	0	0	Hail (0.75)
Champaign County									
Tolono	02	1442CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field just outside of Tolono. No injuries or damage were reported.
Edgar County									
3 N Paris to 2 E Paris	02	1524CST 1530CST			0	0		0	Hail (1.75)
Edgar County									
2 E Paris	02	1530CST			0	0		0	Thunderstorm Wind (G65) A severe thunderstorm moved southeast across the Paris area. It dumped a large amount of hail, up to golfball size, which caused damage to siding on a couple of homes, defoliated trees, stripped bark, and killed birds in the trees. Also, thunderstorm winds estimated near 75 mph knocked down an oak tree and snapped several evergreens in half 2 miles east of Paris. No injuries were reported and no damage estimate was available.
Effingham County									
5 W Effingham	02	1844CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field 5 miles west of Effingham. No injuries were reported and only two trees were blown down. No structural damage was reported.
Logan County									
1 NW Lawndale to 3 E Lawndale	02	1852CST 1857CST			0	0			Hail (1.00)
De Witt County									
Wapella	02	1955CST			0	0		0	Hail (1.00)
Schuyler County									
Littleton	12	1720CST 1746CST			0	0			Hail (4.50) Hail fell over Littleton covering the ground. Some of the hail stones were 4.5 inches in diameter. Numerous cars and machinery sustained damage.
Cass County									
5 S Beardstown	12	1723CST			0	0			Hail (1.50)
Schuyler County									
2 W Littleton	12	1728CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field 2 miles west of Littleton. No injuries or damage were reported.
Fulton County									
1 S Vermont	12	1737CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field one mile south of Vermont. No injuries or damage were reported.
Morgan County									
Chapin	12	1745CST			0	0			Hail (1.75)
Tazewell County									
Pekin	12	1750CST			0	0			Hail (1.75)
Scott County									
Winchester	12	1754CST			0	0			Hail (1.50)
Fulton County									
Table Grove to Ipava	12	1812CST 1828CST			0	0	14K	0	Hail (1.75) Hail caused considerable damage to 3 police cars. The hail smashed the windshields and back windows on all three cars and damaged the light bars on each about one mile west of Ipava. No injuries were reported and damage was estimated around \$14,000.
Peoria County									
2 S Hanna City to Norwood	12	1812CST 1825CST			0	0			Hail (1.00)
Morgan County									
Waverly	12	1845CST			0	0	0	0	Hail (0.75)
Woodford County									
1 N Goodfield	12	1900CST			0	0	0		Thunderstorm Wind A tree was blown down across a road one mile north of Goodfield.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Mason County Kilbourne to 1 W Mason City	12	1927CST 1949CST			0	0			Hail (1.50)
Menard County Oakford	12	1940CST			0	0			Hail (1.75)
Mclean County Hudson	12	1945CST			0	0	0		Thunderstorm Wind Thunderstorm winds blew down a tree which damaged a chimney on a house in Hudson. No injuries were reported and no dollar amount damage was available.
Menard County 2 E Petersburg	12	1955CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field 2 miles east of Petersburg. No injuries or damage were reported.
Logan County 2 W Elkhart	12	2013CST	0.1	10	0	0	0	0	Tornado (F0) A tornado briefly touched down in a field 2 miles west of Elkhart. No injuries or damage were reported.
Logan County Elkhart	12	2027CST			0	0			Hail (1.50)
Mclean County 4 W Lexington	12	2120CST			0	0	0	0	Hail (0.75)
Mclean County Chenoa	12	2135CST			0	0	0		Thunderstorm Wind Thunderstorm winds blew down a motel sign in Chenoa. No injuries were reported.
Macon County Oreana	12	2142CST			0	0			Hail (1.75)
Piatt County Cisco	12	2145CST			0	0			Hail (1.00)
Champaign County 2.5 NE Ivesdale to 1 S Sidney	12	2228CST 2325CST			0	0			Hail (1.75)
Schuyler County Rushville	15	1825CST			0	0	0		Thunderstorm Wind A large tree was blown down across a road in Rushville. No injuries were reported.
Knox County Hermon to Williamsfield	15	1830CST 1852CST			0	0	0		Thunderstorm Wind Thunderstorm winds blew down over a dozen trees between Hermon and Williamsfield. One tree fell onto a house causing minor damage and two other homes sustained shingle damage. Also, numerous large tree limbs were blown down. No injuries were reported and no damage estimate was available.
Fulton County 1 SW Bryant	15	1905CST	0.8	150	0	0	4K	0	Tornado (F0) A tornado touched down one mile southwest of Bryant. It blew down 4 large trees, one of which fell onto a house causing minor damage. A barn sustained minor damage, a shed was destroyed, and a swingset was thrown 150 feet. Also, a john boat was picked up and tossed into a hay rake, damaging both. No injuries were reported and damage was estimated around \$4,000.
Fulton County 3.5 SW Little America to 2 W Little America	15	1905CST 1910CST			0	0	0	0	Thunderstorm Wind Thunderstorm winds blew down 4 large trees 3.5 miles southwest of Little America. Also, several power lines and power poles, as well as, large tree limbs were blown down. Two miles west of Little America, a barn was blown off of its foundation. No injuries were reported and no damage estimate was available.
Peoria County 1 NW Alta	15	1945CST			0	0	0		Thunderstorm Wind Thunderstorm winds blew down several trees, broke one off about 4 feet above the ground, and blew down numerous large tree limbs in the Rock Island State Trail area one mile northwest of Alta. No injuries were reported.
Mason County 3.5 NNW Easton to 1.5 W Mason City	15	1952CST 2020CST			0	0	0		Thunderstorm Wind Thunderstorm winds blew down several large trees. No injuries were reported.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Knox County									
Dahinda	19	1613CST			0	0			Hail (1.75)
Vermilion County									
Sidell	19	1620CST			0	0			Hail (1.75)
Vermilion County									
1 W Ridge Farm	19	1630CST	0.3	40	0	0	50K		Tornado (F0)
									A tornado touched down one mile west of Ridge Farm. It destroyed a barn and machine shed. Also, it damaged another barn, machine shed, and a grain bin. No injuries were reported and damage was estimated around \$50,000.
Knox County									
Yates City	19	1635CST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds blew down several large trees, as well as, several power poles in Yates City. No injuries were reported.
Knox County									
Yates City	19	1640CST			0	0	0	0	Hail (1.00)
Peoria County									
Elmwood	19	1648CST			0	0	0	0	Hail (0.75)
Peoria County									
Elmwood	19	1648CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down several large trees in Elmwood. No injuries or damage to property were reported.
Vermilion County									
Potomac	19	1659CST			0	0			Hail (1.75)
Fulton County									
Ellisville to Farmington	19	1700CST 1705CST			0	0	0.50K		Thunderstorm Wind
									Thunderstorm winds blew down several large trees and power lines between Ellisville and Farmington. No injuries were reported.
Marshall County									
Lacon	19	1720CST			0	0			Thunderstorm Wind (G52)
Vermilion County									
Danville to Georgetown	19	1730CST 1745CST			0	0	350K		Thunderstorm Wind
									A severe thunderstorm moved south across Vermilion County. It caused considerable damage to the roof of a canning factory in Danville, as well as, destroying a nearby gas station's sign and causing minor damage to a hotel roof. As the storm moved into Georgetown, it blew down several large tree limbs and power lines. No injuries were reported. Damage to the canning factory was estimated around \$350,000.
Vermilion County									
Georgetown	19 20	1730CST 0600CST			0	0	0		Flash Flood
Edgar County									
Chrisman	19 20	1827CST 0600CST			0	0			Flash Flood
Champaign County									
Broadlands	19 20	1838CST 0600CST			0	0	80K		Flash Flood
									A series of thunderstorms moved across extreme southeastern Champaign, southern Vermilion, and northern Edgar counties over a three hour period. The storms dumped between 2.5 and 5 inches of rain during that time. This caused numerous roads in the area to be flooded. Also, between 25 to 30 basements in Chrisman were flooded causing extensive damage. In Broadlands, the school had a couple of inches of water in the locker room and one of its storage buildings had a foot of water in it. A grocery store and two other homes in town sustained water damage, as well as, the local grain elevator. A couple of motors on the drying equipment for the elevator were destroyed. A number of cars had water in them from either being driven into flooded roadways or high water flowed past where they were parked. The water treatment plant in Georgetown was threatened by flood waters as the Little Vermilion River rose quickly. Area personnel sandbagged throughout the night to protect the plant. No structural damage occurred in Vermilion County and damage in Champaign County was estimated around \$80,000. No damage estimate was available for Edgar County. No injuries were reported.
Woodford County									
3 N Roanoke	19	1740CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds moved one grain bin off its foundation and caused another one to cave in 3 miles north of Roanoke. Also, a storage building had its north facing doors blown in and numerous tree limbs were blown down. No injuries were reported.
Tazewell County									
Countywide	19	1740CST 1805CST			0	0	0		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Logan County San Jose to Atlanta	19	1806CST 1821CST			0	0			Thunderstorm Wind (G65)
Numerous trees and tree limbs were blown down in Pekin, Hopedale, Delavan, Minier, and Armington as a severe thunderstorm moved through the area. No injuries or structural damage were reported.									
Logan County 1 N Atlanta	19	1820CST	0.2	30	0	0	1K	0	Tornado (F0)
As a severe thunderstorm moved across the northern portions of Logan county it caused spotty damage. In San Jose, the winds blew some siding off of a home on the north side of town. In Atlanta on the northeast side of town, thunderstorm winds estimated around 75 mph blew down 6 power poles, caused roof and siding damage to one home, and a 4.5 foot diameter tree was broken off three feet above the ground. No injuries were reported and no damage estimate was available.									
Edgar County Chrisman	19	1825CST			0	0	0	0	Hail (0.75)
Edgar County 1 E Chrisman	19	1830CST	0.1	10	0	0	0	0	Tornado (F0)
Edgar County 4 SE Chrisman	19	1830CST	0.1	10	0	0	0	0	Tornado (F0)
Sheriff's and Fire Department officials witnessed two tornado touch downs near Chrisman at the same time. One touched down one mile east of Chrisman and the other touched down 4 miles southeast of Chrisman. Both touched down in empty fields, so no damage or injuries were reported.									
Edgar County Scotland	19	1838CST			0	0	1K		Thunderstorm Wind
Thunderstorm winds blew down several large trees and a chapel lost some guttering in Scotland. Also, numerous tree limbs and power lines were blown down. No injuries were reported.									
De Witt County Waynesville to 3 NE Wapella	19	1838CST 1850CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew down several power lines and trees between Waynesville and 3 miles northeast of Wapella. No injuries were reported.									
Macon County Decatur	19	1907CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree on the northside of Decatur. No structural damage or injuries were reported.									
Piatt County 3 SSE Bement to Atwood	19	1910CST 1920CST			0	0	4K		Thunderstorm Wind
As a severe thunderstorm moved southeast across southern Piatt county, it blew down numerous power lines, trees, and tree limbs. Also, the winds damaged several storage sheds and barns. No injuries were reported.									
Moultrie County Lovington to 3 NE Cadwell	19	1915CST 1925CST			0	0	42K		Thunderstorm Wind
Thunderstorm winds knocked down between 50 and 100 power poles between Lovington and Arthur (Douglas County). Also, a barn was damaged two miles north of Cadwell. No injuries were reported and damage was estimated around \$42,000.									
Douglas County Garrett to 1 S Arcola	19	1921CST 1932CST			0	0	5K		Thunderstorm Wind
Thunderstorm winds blew down numerous power lines, trees, and tree limbs. Also, two barns were damaged, one just southeast of Arthur and another 1 mile south of Arcola. Some homes sustained siding damage. No injuries were reported.									
Coles County Countywide	19	1931CST 2018CST			0	0	60K		Thunderstorm Wind
A line of severe thunderstorms moved southeast across Coles County. It caused considerable damage. Numerous trees, power poles, and power lines were blown down throughout the county. One tree fell onto a house in Mattoon damaging the roof and front porch. Also, the thunderstorm winds peeled about a third of the roof off the high school gym in Mattoon. No injuries were reported and damage to the high school was estimated around \$60,000.									
Douglas County Arcola	19	1940CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ILLINOIS, Central									
Coles County 4 NW Mattoon	19	1945CST	0.5	10	0	0			Tornado (F0)
									A tornado briefly touched down 4 miles northwest of Mattoon. It twisted off the tops of several trees and caused minor damage to three homes in the area. No injuries were reported.
Coles County Mattoon	19	1950CST			0	0	0	0	Hail (1.00)
Crawford County Oblong	19	2047CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down two trees in Oblong. No injuries or structural damage were reported.
Morgan County Jacksonville to 1 E Alexander	20	0820CST 0840CST			0	0	6K		Thunderstorm Wind
									As a thunderstorm moved east across Morgan County its winds blew down several trees and power lines in Jacksonville and one mile east of Alexander. Also, the winds caused minor damage to the roof of a livestock building at the Morgan County Fairgrounds in Jacksonville. No injuries were reported.
Scott County Winchester to Manchester	22	0238CST 0252CST			0	0	1K		Thunderstorm Wind
									As a severe thunderstorm moved southeast across Scott County it blew down numerous trees and power lines in Winchester, Glasgow, Aalsey, and Manchester. No injuries were reported.
Morgan County Woodson	22	0300CST			0	0	0.50K	0	Thunderstorm Wind
									Thunderstorm winds blew down numerous power lines in the Woodson and Murrayville areas. No injuries were reported.
Clay County Flora	22	0505CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down several trees in Flora. No injuries or structural damage were reported.
Sangamon County 1 NW Glenarm	22	0830CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down a tree across county road 11S one mile northwest of Glenarm. No injuries or structural damage were reported.
Christian County Kincaid	22	2127CST			0	0	0	0	Hail (1.00)
Moultrie County 1 S Sullivan	22	2149CST			0	0		0	Thunderstorm Wind
									Thunderstorm winds bent over a ham radio tower one mile south of Sullivan. No injuries were reported.
Piatt County Monticello	23	0155CST			0	0	0	0	Hail (0.75)
Champaign County Mahomet	23	0232CST			0	0			Hail (1.75)
Fulton County Vermont	24	0021CST			0	0		0	Thunderstorm Wind
									Thunderstorm winds blew down a large tree limb onto a car in Vermont. No one was in the car at the time and damage was minor.
Cass County 2 SSW Chandlerville to 3 E Chandlerville	24	0039CST 0045CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down several trees near Chandlerville, as well as, numerous tree limbs. No injuries or structural damage were reported.
Menard County 1 SE Oakford to 3 S Petersburg	24	0050CST 0055CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down a large tree onto Hwy 97 three miles south of Petersburg. Also, numerous tree limbs were blown down. No injuries or structural damage were reported.
Mason County Kilbourne	24	0050CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew down a large tree in Kilbourne, as well as, numerous tree limbs. No injuries or structural damage were reported.
Logan County 2 S New Holland	24	0120CST			0	0	0		Thunderstorm Wind

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May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Thunderstorm winds blew down several trees 2 miles south of New Holland. No injuries or structural damage were reported.									
Shelby County Henton to Windsor	24	0125CST 0140CST			0	0			Hail (1.75)
Tazewell County Pekin	24	0125CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree limb onto a driveway in Pekin. No injuries or structural damage were reported.									
Macon County Macon	24	0141CST			0	0			Hail (1.75)
Mclean County Bloomington	24	0149CST 0155CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down numerous power and cable lines in Bloomington, as well as, numerous tree limbs. No injuries were reported.									
Crawford County 3 N Hutsonville	31	1345CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down over a dozen trees three miles north of Hutsonville. No injuries were reported.									
Crawford County Hutsonville	31	1345CST			0	0	0		Hail (1.00)
Lawrence County 3 E Birds to 7 E Birds	31	1427CST 1435CST			0	0			Hail (2.75)
Hail up to baseball size caused considerable damage to 13 parked cars at one residence 3 miles east of Birds, breaking house and car windows. It also seriously dented the vehicles and siding on the house. A mile down the road the hail damaged another car. No injuries were reported and no damage estimate was available.									
ILLINOIS, Northeast									
Livingston County Dwight	05	1750CST			0	0			Hail (1.00)
Cook County South Portion	06	1245CST 1500CST			0	0			Flash Flood
Grundy County South Portion	06	1245CST 1500CST			0	0			Flash Flood
Will County South Portion	06	1245CST 1500CST			0	0			Flash Flood
Strong thunderstorms moved through northeast Illinois during the afternoon, producing heavy rainfall across the area. A cooperative observer at Matteson, in southern Cook County, reported 3.10 inches of rain in 45 minutes had flooded an underpass. Flooding was also reported in Orland Park, in southern Cook County. Near Park Forest flooding occurred along Thorn Creek in a Forest preserve and some roads were flooded.									
In southern Grundy County, 1 inch of rain fell in 20 minutes in Mazon and hail, a half-inch in diameter, was reported in Coal City. Radar estimated between 1 and 2 inches of rain had fallen in southern Grundy and Will counties.									
La Salle County Earlville	12	1942CST			0	0			Hail (2.25)
Kane County Maple Park to Carpentersville	12	2019CST 2047CST			0	0			Hail (2.75)
Gusty winds, large hail and dozens of lightning strikes were responsible for downed tree limbs and power lines, with the worst of it in the Dundee Township area. A lightning strike started a fire in a Carpentersville home. The lightning hit the front of the home near the gas meter, starting a fire in the wall. Damage was moderate. A wind gust of 73 mph was reported in Carpentersville.									
De Kalb County 5 E Cortland	12	2019CST			0	0			Hail (1.00)
Lake County 6 SW Wauconda	12	2055CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Northeast									
Mchenry County									
Algonquin	12	2055CST			0	0			Hail (0.75)
Lake County									
Libertyville	12	2125CST			0	0			Hail (1.75)
Ogle County									
Oregon	12	2128CST			0	0			Hail (0.75)
Lee County									
5 S Amboy	12	2130CST			0	0			Hail (1.00)
			Some residents in the western part of the county sustained to their homes as winds and large hail broke windows. A garage was blown off its foundation and shifted. The roof of another garage was blown off.						
Lee County									
2 NW Paw Paw	12	2203CST			0	0			Hail (0.75)
Livingston County									
Odell	19	1440CST			0	0			Hail (1.75)
De Kalb County									
Malta	19	1505CST			0	0			Thunderstorm Wind (G50)
			Strong thunderstorm winds downed trees, ripped barn roof off, and blew over a fuel storage tank. Nickel size hail also reported.						
Kankakee County									
Kankakee	19	1518CST			0	0			Hail (1.75)
De Kalb County									
5 E De Kalb	19	1520CST			0	0			Hail (1.00)
Kankakee County									
Momence to St Anne	19	1530CST			0	0			Hail (1.75)
De Kalb County									
Countywide	19	1540CST 1630CST			0	0			Flash Flood
Kane County									
West Portion	19	1540CST 1630CST			0	0			Flash Flood
			Heavy rain caused street flooding in eastern De Kalb and western Kane Counties. Interstate 88 was closed due to flooding at Watson Road in Kane County. Perry Road in northern De Kalb County was closed. There was standing water in fields and basements were flooded.						
Ford County									
Paxton to Roberts	19	1830CST			0	0			Thunderstorm Wind (G50)
			Trees were downed on a nursing home in Paxton. A telephone pole fell on 4 cars. In Roberts, extensive damage occurred as gutters were torn from houses, and winds uprooted trees which created roads to be blocked.						
Ford County									
Piper City	19	1830CST			0	0			Hail (1.75)
Winnebago County									
Rockford	28	0755CST			0	0			Hail (1.00)
Lake County									
Waukegan	28	0930CST			0	0	500K		Lightning
			Lightning struck the roof of a million dollar home, causing serious damage to the roof and attic. Total estimated damage - \$500,000.00.						
Mchenry County									
Woodstock to Richmond	28	2005CST 2105CST			0	0			Thunderstorm Wind (G61)
			Strong thunderstorm winds gusted to 68mph in McHenry and 70mph in Richmond.						
Ogle County									
Polo	28	2010CST			0	0			Thunderstorm Wind (G50)
			Strong winds downed trees.						
Lee County									
Countywide	28	2010CST			0	0			Thunderstorm Wind (G50)
			Strong winds downed trees.						
Winnebago County									
Countywide	28	2025CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ILLINOIS, Northeast</u>									
Strong winds downed trees and power lines.									
Boone County Poplar Grove	28	2040CST			0	0			Thunderstorm Wind (G50)
Trees were blown down across a road in the northern part of the county.									
De Kalb County 2 S Cortland	28	2045CST			0	0			Thunderstorm Wind (G50)
A semi-tractor trailer was blown over on interstate 88.									
Kane County Carpentersville	28	2110CST			0	0			Thunderstorm Wind (G65)
Du Page County West Chicago	28	2116CST 2125CST			0	0			Thunderstorm Wind (G50)
DuPage EOC reported a 58 mph wind gust and a 52 mph wind gust was reported at the DuPage airport. Strong winds downed trees.									
Lake County Lake Villa to Lindenhurst	28	2127CST 2140CST			0	0			Thunderstorm Wind (G52)
Scattered power outages were reported countywide, which also resulted in some school closures. A tree fell on a vehicle in the area of Route 83 and Route 137. No injuries were reported.									
Kendall County Yorkville	28	2130CST			0	0			Thunderstorm Wind (G50)
Strong winds blew a tree down on to Highway 71.									
Cook County Arlington Hgts to Country Club Hills	28	2145CST 2200CST			0	0			Thunderstorm Wind (G56)
Strong thunderstorm winds downed trees and numerous power lines. Commonwealth Edison estimated 150,000 households were without power in northern Illinois for about 12 hours.									
Wind gust reached 65 mph in Country Club Hills and 60 mph in Arlington Heights. In Arlington Heights, the public works department reported 15 homes had been hit by felled trees and between six and 10 cars were hit by trees.									
In Wheeling, a roof of an apartment complex was torn off and slammed into the parking lot. Approximately 100 cars were damaged.									
De Kalb County De Kalb Muni Arpt	28	2151CST			0	0			Thunderstorm Wind (G58)
<u>ILLINOIS, Northwest</u>									
Hancock County Nauvoo to 1 S Nauvoo	12	1617CST			0	0			Hail (1.75)
Hancock County Niota	12	1627CST			0	0			Hail (0.75)
Hancock County Fountain Green	12	1713CST			0	0			Hail (0.75)
Mcdonough County 5 NW Colchester	12	1725CST			0	0			Hail (1.00)
Mcdonough County 5 NW Colchester	12	1725CST			0	0			Thunderstorm Wind (G50)
Mcdonough County 4 E Industry	12	1738CST	0.1	.5	0	0	0		Tornado (F0)
A brief tornado touched down then lifted as the thunderstorm producing the tornado moved east. No damage was reported.									
Mcdonough County Adair	12	1814CST			0	0			Hail (1.75)
Whiteside County Tampico	12	2043CST			0	0	0.01K		Thunderstorm Wind
A gusty thunderstorm wind caused a tree to fall onto powerlines producing a brief power outage in Southeast Whiteside county.									
Henry County Orion to Woodhull	15	1827CST 1840CST			0	0			Thunderstorm Wind (G56)
Thunderstorm winds knocked down tree limbs and power lines across Western Henry county,									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Northwest									
Henry County Galva	15	1855CST	1	1	0	0	0.05K		Tornado (F0) Brief tornado downed powerlines and damaged rooftops in Galva.
Carroll County Shannon	15	1928CST			0	0			Thunderstorm Wind (G56)
Whiteside County Lyndon	15	1930CST			0	0			Thunderstorm Wind (G56) Thunderstorm winds downed tree limbs producing light damage in the city of Lyndon.
Mcdonough County 2 SE Blandinsville	19	1650CST			0	0			Hail (1.25)
Putnam County 1 N Magnolia	19	1715CST			0	0	0.02K		Thunderstorm Wind Strong thunderstorm winds downed trees and power lines.
Hancock County Carthage	23	1923CST			0	0			Hail (1.00)
Mcdonough County Colchester	23	1946CST			0	0			Hail (1.00)
Hancock County Countywide	23 24	2337CST 0230CST			0	0			Urban/Sml Stream Fld Heavy rain producing thunderstorms moved across extreme Southeast Iowa into Western Illinois. There were numerous reports of water ponding along roadways and small hail. In Niota a spotter measured nearly one half inch of rain in 10 minutes.
Stephenson County 7 W Lena	28	1923CST	0.1	.2	0	0			Tornado (F0) Brief tornado touched down in open farm land.
Jo Daviess County Countywide	28	1930CST 2000CST			0	0	2K		Thunderstorm Wind (G66) Thunderstorm winds produced widespread damage to trees, homes, and power lines across the county.
Stephenson County Eleroy	28	1946CST	0.1	.5	0	0	1K		Tornado (F0) Brief tornado damaged and uprooted trees.
Carroll County Countywide	28	1950CST 2010CST			0	0	4K		Thunderstorm Wind (G52) Strong thunderstorm winds downed numerous trees and power lines across the county. A roof was blown off a building 1 mile South of Mount Carroll and buildings were blown across the road between Thompson and Savanna.
Whiteside County 2 N Sterling	28	2025CST			0	0	1K		Thunderstorm Wind Thunderstorm winds downed trees and limbs in Northeast Whiteside county.
ILLINOIS, South									
ILZ087-090>094	Gallatin - Pope - Hardin - Alexander - Pulaski - Massac								
	01	0001CST			0	0			Flood
	20	1600CST							Moderate flooding of the lower Ohio River continued into mid May. The river crested 6 to 8 feet above flood stage at Shawneetown, Brookport, and Grand Chain. The crest at Cairo was 10 feet over the 40-foot flood stage due partly to backwater from the swollen Mississippi River. The dates of the crest were on the 5th or 6th at Brookport, Grand Chain, and Cairo. The crest date upstream at Shawneetown was on the 12th. Flooding of low-lying agricultural areas, riverside parks, and river access roads was significant.
ILZ084-088-092	Jackson - Union - Alexander								
	01	0001CST			0	0			Flood
	08	0800CST							Minor flooding of the Mississippi River continued into early May. The river crested two feet above flood stage at Thebes on the 3rd of May. Flooding was generally confined to low-lying agricultural areas and access roads.
ILZ084	Jackson								
	01	0001CST			0	0			Flood
	16	1700CST							

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
The Big Muddy River, which had been above flood stage since March 19, fell below flood stage on May 16. The crest during May was 23.6 feet on the 4th, which was about 7 feet over flood stage. Flooding of woodlands and agricultural land was moderate. Some parks were inundated.									
Pope County Herod	02	1528CST			0	0			Hail (1.00)
Saline County South Portion	02	1530CST 1930CST			0	0	5K		Flash Flood
Prolonged thunderstorm activity produced flash flooding of roads and some creeks. Radar estimated up to 3 inches fell in an hour in isolated spots. Several roads were under water, including U.S. Highway 45 south of Carrier Mills and Illinois Highway 34 near Rudement.									
Pope County North Portion	02	1630CST 1930CST			0	0	8K		Flash Flood
Prolonged thunderstorms produced an estimated 2.5 inches of rain per hour. Flooding of roads and creeks resulted. Up to 5 feet of water covered some roads. Illinois Route 145 was flooded near the Saline County line.									
Hardin County West Portion	02	1630CST 1930CST			0	0	10K		Flash Flood
Prolonged thunderstorms produced copious amounts of rainfall in a relatively short time. Radar estimated over 4 inches fell in about 3 hours. Flooding of roads and streams resulted. Up to 5 feet of water covered some roads for a short time.									
Wabash County 2 W Allendale to 1.8 W Allendale	03	1506CST	0.2	40	0	0	20K		Tornado (F0)
A cold air funnel briefly touched ground in northeast Wabash County. Along the quarter-mile long damage path, a trailer was moved, and several small trees were broken.									
ILZ083		White							
	06 16	0300CST 1400CST			0	0			Flood
Minor flooding of the Little Wabash River occurred from May 6 to May 16. The river crested near 30 feet on the 8th, about 3 feet above flood stage. Flooding mainly affected agricultural land.									
Wayne County Wayne City	20	1130CST			0	0			Hail (0.75)
Hamilton County Blairsville	20	1150CST			0	0			Hail (0.75)
White County Springerton	20	1159CST 1203CST			0	0			Hail (1.75)
White County Carmi	20	1218CST			0	0	3K		Thunderstorm Wind (G50)
Small trees were down in Carmi.									
White County Carmi	20	1218CST			0	0			Hail (0.75)
Jackson County (Mdh)Crbandl/Mrfysbro to Vergennes	21	1409CST			0	0	25K		Thunderstorm Wind (G57)
A wind gust to 65 MPH was measured at the Southern Illinois Airport. Damage was limited to a few fallen trees. Portions of a fallen tree damaged three cars in a lot next to Memorial Hospital of Carbondale. In Vergennes, a 70-foot grain silo was toppled.									
Perry County Du Quoin	21	1409CST			0	0			Thunderstorm Wind (G50)
Spotters estimated gusts to 60 MPH. Tree limbs up to 3 inches in diameter were blown down.									
Williamson County Marion	21	1432CST			0	0			Thunderstorm Wind (G50)
Wind gusts to 58 MPH were recorded at the Veterans Hospital. Damage was confined to just a few trees down.									
Johnson County Goreville	21	1440CST			0	0			Thunderstorm Wind (G50)
A few trees were down in northwest Johnson County.									

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ILLINOIS, South</u>									
Union County Dongola	21	1445CST			0	0	5K		Thunderstorm Wind (G50)
									Trees were blown down.
Saline County Harrisburg to Eldorado	21	1458CST 1510CST			0	0	5K		Thunderstorm Wind (G50)
									Large tree limbs were down in Harrisburg. Trees were down near Eldorado.
Massac County Boaz to Metropolis	21	1512CST 1520CST			0	0	4K		Thunderstorm Wind (G50)
									Power lines were down in Boaz. Two small trees and some branches were down on the west side of Metropolis.
Jefferson County Dix	22	0521CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds downed trees.
Franklin County 2 E Sesser to 6 E Sesser	23	1828CST			0	0	30K		Thunderstorm Wind (G55)
									A severe thunderstorm struck the Rend Lake area, a major recreational area. A boat capsized on the lake. Damage occurred along a four-mile wide path in the vicinity of Illinois 154. Light poles were down.
Jackson County Dowell	31	1410CST			0	0			Hail (0.75)
Franklin County Zeigler to Royalton	31	1415CST			0	0	25K		Hail (1.75)
									Golf ball size hail in the Royalton and Zeigler areas dented vehicles.
Franklin County West Frankfort	31	1422CST			0	0			Hail (0.75)
Wayne County Fairfield	31	1514CST			0	0			Hail (1.75)
Edwards County 6.5 SSE Albion	31	1545CST			0	0			Hail (1.75)
									Golf ball size hail fell near Grayville.
<u>ILLINOIS, Southwest</u>									
Macoupin County Carlinville	01	1641CST			0	0			Hail (0.75)
									A storm spotter reported 3/4 inch hail.
Macoupin County Carlinville	01	1650CST			0	0			Hail (1.00)
									Storm spotters reported 1 inch hail.
Jersey County Grafton	01	1715CST 1720CST			0	0			Hail (0.75)
									Storm spotters reported that 3/4 inch hail fell for several minutes near Pere Marquette State Park.
Randolph County 5 S Sparta	02	1450CST			0	0			Hail (0.75)
									Spotters reported 3/4 inch hail south of Sparta.
Adams County 8 S Kellerville	12	1620CST			0	0	9K		Hail (2.75)
									Several park vehicles were damaged by golfball to baseball size hail at Siloam Springs State Park.
Brown County 1 NE Versailles	12	1700CST			0	0			Hail (1.75)
									Emergency management personnel reported golfball size hail.
Brown County Hersman	12	1703CST			0	0			Hail (1.25)
Brown County 3 S Hersman	12	1705CST			0	0			Hail (2.75)
									Storm spotters reported 1 1/4 inch hail in Hersman. A few minutes later emergency management personnel reported baseball size

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
			hail just south of Hersman.						
Pike County									
Milton	12	1735CST			0	0			Hail (1.75)
			The public reported golfball size hail.						
Greene County									
Carrollton	12	1818CST			0	0			Hail (0.88)
Greene County									
Carrollton	12	1821CST			0	0			Hail (0.88)
			The county sheriff and emergency management personnel reported nickel size hail.						
Greene County									
Greenfield	12	1850CST			0	0			Hail (0.75)
Macoupin County									
Modesto	12	1906CST			0	0			Hail (1.75)
Macoupin County									
Palmyra	12	1911CST			0	0			Hail (1.25)
Macoupin County									
1 N Palmyra	12	1915CST			0	0			Hail (1.75)
			Storm spotters reported half-dollar to baseball size hail.						
Macoupin County									
.5 E Palmyra to 1.5 E Palmyra	12	1916CST 1919CST	1	200	0	0	50K		Tornado (F1)
			A small tornado caused damage to a couple of farms. Three barns and a grain bin were destroyed and a truck was overturned.						
Macoupin County									
Girard	12	1936CST			0	0			Hail (0.75)
Montgomery County									
5 N Farmersville	12	1945CST			0	0			Hail (0.75)
			Emergency Management officials reported 3/4 inch hail north of Farmersville.						
Montgomery County									
6 W White Oak to 6 E White Oak	12	1945CST			0	0			Hail (0.75)
Macoupin County									
Standard City	12	1946CST			0	0			Hail (0.75)
Montgomery County									
5 W Witt	12	2116CST	0.1	50	0	0			Tornado (F0)
			A storm spotter reported a brief tornado touchdown west of Witt. There was no damage.						
Montgomery County									
Nokomis	12	2130CST			0	0			Hail (0.75)
Macoupin County									
Bunker Hill	12	2133CST			0	0			Hail (0.75)
			Storm spotters reported 3/4 inch hail.						
Montgomery County									
Litchfield	12	2202CST			0	0			Hail (1.75)
Montgomery County									
Litchfield	12	2205CST			0	0			Hail (1.00)
Montgomery County									
Hillsboro	12	2216CST			0	0			Hail (1.75)
			Amateur radio spotters reported that hail up to golfball size covered the ground in Litchfield. Golfball size hail also fell in the Lake Glenn Shoals area near Hillsboro.						
Macoupin County									
Hornsby	12	2206CST			0	0			Hail (1.75)
Macoupin County									
Bunker Hill	12	2216CST			0	0			Hail (1.75)
Macoupin County									
Bunker Hill	12	2220CST			0	0			Hail (1.75)
			Amateur radio spotters reported golfball size hail in Hornsby and Bunker Hill.						
Adams County									
Quincy	20	0745CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
Adams County (Uin)Quincy Muni Arp	20	0810CST			0	0			Thunderstorm Wind (G51)
									Storm spotters reported 1 inch hail. A wind gusts of 59 mph was recorded at the Quincy Airport.
Pike County Barry	20	0830CST			0	0			Thunderstorm Wind (G54)
Pike County Martinsburg	20	0830CST			0	0			Thunderstorm Wind (G54)
Pike County Baylis	20	0835CST			0	0			Thunderstorm Wind (G54)
Pike County Pittsfield	20	0835CST			0	0			Thunderstorm Wind (G54)
									Thunderstorm wind gusts downed trees and utility lines across the central part of the county. Trees went down on the north side of the square in Pittsfield knocking out the power to much of the north side of town. Large trees and power lines were also downed in Martinsburg, Barry and Baylis. In Barry, one home, a boat and a motorcycle were damaged by falling limbs.
Madison County Fosterburg	21	1235CST			0	0			Thunderstorm Wind (G55)
Madison County Troy	21	1245CST			0	0			Thunderstorm Wind (G55)
									The county sheriff and amateur radio spotters reported trees and a few power poles down.
St. Clair County Freeburg	21	1245CST			0	0			Hail (0.75)
St. Clair County O Fallon	21	1250CST			0	0			Thunderstorm Wind (G54)
									City officials reported 3/4 inch hail in Freeburg and power lines down in O'Fallon.
Clinton County Trenton	21	1305CST			0	0			Hail (1.00)
									A storm spotter reported 1 inch hail.
Jersey County Jerseyville	22	0100CST			0	0			Hail (0.75)
									Storm spotters reported 3/4 inch hail.
Jersey County Grafton	22	0215CST			0	0			Thunderstorm Wind (G55)
									The county sheriff reported numerous trees down across the southern part of the county near Grafton.
Pike County Pittsfield	22	0225CST			0	0			Thunderstorm Wind (G55)
									The County Sheriff reported numerous trees down across town.
Greene County Wrights	22	0305CST 0310CST			0	0			Thunderstorm Wind (G56)
Greene County Carrollton	22	0310CST			0	0			Thunderstorm Wind (G56)
									Thunderstorm wind gusts estimated around 65 mph downed trees in parts of Greene County.
Macoupin County Carlinville	22	0325CST			0	0			Thunderstorm Wind (G55)
Macoupin County Gillespie	22	0330CST			0	0			Thunderstorm Wind (G56)
Macoupin County Staunton	22	0345CST			0	0			Thunderstorm Wind (G56)
									Thunderstorm wind gusts estimated at 60 to 65 mph downed trees and some powerlines across the south 1/2 of Macoupin County.
Macoupin County Mt Olive	22	0330CST			0	0			Hail (1.50)
									Storm spotters reported 1 1/2 inch hail in Mt. Olive.
Bond County Greenville	22	0415CST			0	0			Hail (0.75)
									Local police reported 3/4 inch hail.
Marion County Salem	22	0459CST			0	0			Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ILLINOIS, Southwest

Thunderstorm wind gusts downed trees and some powerlines. Radio station WJBD lost the top of their transmitter tower.

Pike County Pittsfield	22	0730CST			0	0			Thunderstorm Wind (G55)
Pike County Detroit	22	0735CST			0	0			Thunderstorm Wind (G55)
Pike County Griggsville	22	0735CST			0	0			Lightning
Pike County Griggsville	22	0735CST			0	0			Thunderstorm Wind (G55)
Thunderstorm wind gusts downed trees and utility lines across the east central part of the county. 6 power pole were downed on the south side of Pittsfield. A few fences were damaged and a few homes sustained minor damage from broken limbs. In Detroit, a car was destroyed by a fallen tree. In Griggsville, a home sustained moderate damage from a fire started by a lightning strike. Two firemen suffered minor injuries fighting the fire when a ceiling collapsed.									
Macoupin County Carlinville	22	0815CST			0	0			Thunderstorm Wind (G55)
Macoupin County Palmyra	22	0815CST			0	0			Thunderstorm Wind (G55)
The County Sheriff reported a few trees, some large limbs, and a few powerlines down across central Macoupin County.									
Montgomery County Farmersville	22	0830CST			0	0			Thunderstorm Wind (G55)
Thunderstorm winds downed several trees in Farmersville.									
Monroe County Columbia	23	1710CST			0	0			Thunderstorm Wind (G52)
The County Sheriff reported trees and powerlines down.									
St. Clair County Centerville	23	1715CST			0	0			Thunderstorm Wind (G51)
The County Sheriff reported wind gusts around 60 mph which caused some tree and minor roof damage.									
St. Clair County 2 E O Fallon	23	1725CST			0	0			Thunderstorm Wind (G55)
St. Clair County Freeburg	23	1730CST			0	0			Thunderstorm Wind (G55)
St. Clair County Lebanon	23	1735CST			0	0			Thunderstorm Wind (G55)
The County Sheriff reported trees and powerlines down just east of O'Fallon. Freeburg officials reported trees and powerlines down around town. Trees were also downed on the west side of Lebanon.									
Madison County East Alton	23	1755CST			0	0			Thunderstorm Wind (G51)
Storm spotters reported trees down.									
Clinton County Trenton	23	1800CST			0	0			Thunderstorm Wind (G55)
Clinton County Breese	23	1805CST			0	0			Thunderstorm Wind (G55)
The County Sheriff reported trees and powerlines down across parts of Clinton County, primarily in the Trenton and Breese areas.									
Adams County Quincy	23	2346CST			0	0			Tstm Winds
Thunderstorm winds downed powerlines.									
Randolph County Steeleville	25	0345CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed a few trees in Steeleville.									
<u>INDIANA, Central</u>									
Vigo County New Goshen	02	1700EST			0	0	1K		Thunderstorm Wind
Trees and power lines downed.									
Vigo County Seelyville	02	1712EST			0	0			Thunderstorm Wind (G51)
Clay County 1 E Stearleyville	02	1723EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Central									
Howard County Greentown	03	1740EST 1743EST			0	0			Hail (1.00)
Vermillion County 4 N Dana	13	0040EST			0	0			Hail (0.75)
Montgomery County New Market	13	0215EST 0216EST			0	0			Hail (1.75)
Warren County Williamsport	19	1725EST 1726EST			0	0	0.50K		Thunderstorm Wind
									Trees and power lines blown down.
Vermillion County Rileysburg	19	1725EST 1726EST			0	0	0.50K		Thunderstorm Wind
									Trees and power lines blown down.
Fountain County Veedersburg	19	1805EST 1806EST			0	0			Hail (0.80)
Fountain County Hillsboro	19	1823EST 1824EST			0	0			Thunderstorm Wind (G60)
Vermillion County 1 N Dana to .9 N Dana	19	1840EST 1841EST	0.1	75	0	0	10K		Tornado (F0)
									Tornado damaged several storage buildings and blew down numerous trees.
Warren County Marshfield	19	1840EST 1841EST			0	0	1K		Thunderstorm Wind
									Trees and power lines blown down.
Parke County Bloomington	19	1910EST 1911EST			0	0			Hail (0.75)
Boone County 4 N Lebanon	19	1920EST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew over semi-trailor.
Warren County Marshfield	19	1920EST 1921EST			0	0	0.50K		Thunderstorm Wind
									More trees downed.
Clay County Brazil	19	1950EST 1951EST			0	0	5K		Thunderstorm Wind
									Trees blown down and few shed roofs blown off.
Johnson County Bargersville	19	2038EST			0	0	0.50K		Thunderstorm Wind
									Power lines blown down.
Fountain County Countywide	19	2040EST 2200EST			0	0			Flash Flood
Vermillion County Countywide	19	2040EST 2200EST			0	0			Flash Flood
Clay County Brazil	19	2130EST 2350EST			0	0			Urban/Sml Stream Fld
Owen County Cataract	19	2130EST 2350EST			0	0			Urban/Sml Stream Fld

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
INDIANA, Central									
Vigo County East Glenn	19	2130EST 2350EST			0	0			Urban/Sml Stream Fld
									Thunderstorms producing heavy rain in a short period of time caused some street flooding.
Knox County Vincennes	19	2228EST 2229EST			0	0	1K		Thunderstorm Wind
									Trees and power lines blown down.
Knox County Monroe City	20	1341EST 1342EST			0	0	1K		Thunderstorm Wind
									Trees downed.
Daviess County Washington	20	1410EST 1411EST			0	0	1K		Thunderstorm Wind
									A few trees and numerous limbs were blown down.
Owen County 1 E Spencer	23	0656EST 0657EST			0	0			Hail (1.75)
Owen County Spencer	23	0720EST			0	0			Urban/Sml Stream Fld
Monroe County Ellettsville	23	0722EST 0723EST			0	0			Hail (1.75)
Marion County Ind Eagle Creek Arpt	23	1357EST			0	0			Hail (1.00)
Vigo County Prairieton	23	2125EST 2126EST			0	0	0.50K		Thunderstorm Wind
									Power lines blown down.
Montgomery County New Richmond	24	0435EST 0436EST			0	0	10K		Thunderstorm Wind
									Large tree blown down on house causing extensive roof damage.
Tippecanoe County Lafayette	24	0453EST 0454EST			0	0			Hail (1.75)
Hamilton County Carmel	24	0500EST			0	0	400K		Lightning
									Lightning struck 5 Carmel area homes igniting fires.
Delaware County Eaton	29	1512EST 1514EST			0	0			Hail (1.75)
Delaware County 2.5 E Eaton	29	1517EST 1525EST			0	0			Hail (2.00)
Delaware County Eaton	29	1530EST 1630EST			0	0			Urban/Sml Stream Fld
									Heavy rains caused some flooding of households in Eaton.
Delaware County Eaton	29	1536EST			0	0	10K		Thunderstorm Wind
									Several trees blown down. One fell on mobile home.
Carroll County Burrows	29	1705EST 1707EST			0	0	1K		Thunderstorm Wind
									Winds blew down power poles.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
INDIANA, Central									
Carroll County									
Burrows	29	1705EST 1707EST			0	0	10K		Thunderstorm Wind
			Tstm winds took out 6 power lines and power substation.						
Carroll County									
Wheeling	29	1803EST 1805EST			0	0			Hail (0.88)
Knox County									
Vincennes	29 30	2335EST 0400EST			0	0			Tstm Wind/Hail
			Heavy rains caused widespread minor flooding in Vincennes and much of county.						
Daviess County									
Washington	29 30	2335EST 0400EST			0	0			Urban/Sml Stream Fld
			Heavy rains flooded many parts of the county.						
Brown County									
1 E Trevlac	30	0024EST 0026EST			0	0	0.50K		Thunderstorm Wind
			Tstm winds blew down several trees and power lines.						
Bartholomew County									
Waynesville	30	0105EST 0430EST			0	0			Urban/Sml Stream Fld
Knox County									
Bruceville	31	1542EST			0	0			Hail (1.75)
Daviess County									
Montgomery	31	1630EST 1631EST			0	0	10K		Thunderstorm Wind
Martin County									
2 S Loogootee	31	1635EST 1636EST			0	0	15K		Thunderstorm Wind
Daviess County									
Cannelburg	31	1640EST 1641EST			0	0	25K		Thunderstorm Wind
Knox County									
Vincennes	31	1640EST			0	0			Thunderstorm Wind (G50)
Martin County									
1.5 S Loogootee	31	1645EST 1646EST			0	0	1K		Thunderstorm Wind
Daviess County									
2 E Cannelburg	31	1701EST 1702EST			0	0	1K		Thunderstorm Wind
Knox County									
Wheatland	31	1711EST 1712EST			0	0	1K		Thunderstorm Wind
Knox County									
Monroe City	31	1715EST 1716EST			0	0	1K		Thunderstorm Wind
Daviess County									
Glendale	31	1730EST			0	0	5K		Thunderstorm Wind
Martin County									
Windom	31	1730EST 1731EST			0	0	2K		Thunderstorm Wind
			Numerous severe thunderstorms raked across southwest Indiana producing widespread damage across Knox, Daviess, and Martin counties of southwest Indiana. Damage included numerous trees and power lines blown down. Near Montgomery, a trailer was tipped over and destroyed. Near Cannelburg, a 575 foot long turkey barn was destroyed. Near Logootee, a silo was blown down on a barn destroying it. At the same site, a garage was also destroyed by straightline winds.						
Delaware County									
Eaton	31	1625EST 1626EST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>INDIANA, Central</u>									
Hancock County Greenfield	31	1731EST 1732EST			0	0	0.50K		Tstm Wind/Hail
			Severe thunderstorms moving across central Indiana were producing large hail and isolated wind damage. In the Greenfield area, thunderstorms blew down trees and produced nickel size hail.						
Hendricks County Lizton	31	1715EST 1716EST			0	0	0.50K		Thunderstorm Wind
			Trees blown down.						
Hancock County Greenfield	31	1731EST 1732EST			0	0	0.50K		Tstm Wind/Hail
			Thunderstorm winds blew down several trees.						
<u>INDIANA, Northeast</u>									
Allen County 3 NE Monroeville	03	1513EST 2113EST	0	0	0	0			Tornado (F0)
			BRIEF TOUCHDOWN						
Allen County New Haven	03	1521EST	0	0	0	0			Tornado (F0)
			BRIEF TOUCHDOWN ALONG ROUTE 30 AND LINCOLN HIGHWAY						
Allen County Monroeville	03	1525EST	0	0	0	0			Tornado (F0)
			BRIEF TOUCHDOWN						
Fulton County 2 N Rochester to Rochester	03	1625EST			0	0			Hail (0.75)
Huntington County 4 N Huntington	03	1636EST	0	0	0	0			Tornado (F0)
			BRIEF TOUCHDOWN						
Allen County New Haven	03	1730EST			0	0			Hail (1.00)
Allen County Ft Wayne	03	1740EST			0	0			Hail (0.75)
			SOUTHEAST SIDE OF TOWN						
Allen County Ft Wayne	03	1745EST			0	0			Hail (1.00)
			DOWNTOWN						
Whitley County 2 W Larwill	03	1749EST			0	0			Hail (0.75)
Allen County Ft Wayne	03	1810EST			0	0			Flash Flood
			AT LEAST 5 HOMES FLOODED. MANY PEOPLE RESCUED FROM VEHICLES						
Noble County Albion	19	0737EST			0	0			Hail (0.75)
Pulaski County Medaryville	19	1730EST 1745EST			0	0			Hail (1.00)
Fulton County Kewanna	19	1732EST			0	0	10K		Hail (1.75)
Fulton County Rochester	19	1805EST			0	0			Hail (1.00)
Fulton County Rochester	19	1810EST			0	0			Hail (1.00)
Fulton County Rochester	19	1810EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Northeast									
Starke County									
Bass Lake	19	1810EST	0	0	0	0	0	0	Tornado (F0)
Pulaski County									
Star City	19	1822EST			0	0			Hail (0.75)
Fulton County									
Kewanna	19	1845EST			0	0			Hail (0.75)
Wabash County									
Urbana	19	1845EST	0	0	0	0	0	0	Tornado (F0)
Wabash County									
Urbana	19	1852EST			0	0			Thunderstorm Wind (G79)
Wabash County									
Wabash	19	1900EST			0	0			Thunderstorm Wind (G79)
Huntington County									
Bippus	19	1905EST			0	0			Hail (0.88)
Huntington County									
Huntington	19	1907EST			0	0			Thunderstorm Wind (G52)
Huntington County									
Huntington	19	1907EST			0	0			Thunderstorm Wind (G52)
Adams County									
Monroe	19	1935EST			0	0			Hail (0.75)
Adams County									
Monroe	19	1935EST			0	0			Thunderstorm Wind (G56)
Adams County									
Pleasant Mills	19	2030EST			0	0			Hail (1.75)
St. Joseph County									
St Joseph Res	29	0035EST			0	0			Thunderstorm Wind (G50)
Elkhart County									
Elkhart	29	0100EST			0	0			Thunderstorm Wind (G50)
St. Joseph County									
St Joseph Res	29	0120EST			0	0			Thunderstorm Wind (G50)
Grant County									
Fowlerton	29	1355EST			0	0			Hail (0.75)
Grant County									
Fowlerton	29	1359EST			0	0			Hail (0.75)
Blackford County									
Shamrock Lakes	29	1408EST			0	0			Hail (0.75)
Cass County									
Royal Center	29	1536EST			0	0			Thunderstorm Wind (G50)
		Utility pole blown down							
Cass County									
Royal Center	29	1540EST			0	0			Hail (0.75)
Cass County									
Royal Center	29	1540EST			0	0			Thunderstorm Wind (G50)
		Multiple trees down							
Cass County									
Logansport	29	1545EST			0	0			Hail (0.75)
Grant County									
Matthews	29	1547EST			0	0			Hail (1.00)
Miami County									
Denver	29	1600EST			0	0	20K		Thunderstorm Wind
		Facia torn from roof of North Miami Elementary							
Huntington County									
Bippus	29	1615EST			0	0			Hail (0.75)
Miami County									
Denver	29	1623EST			0	0			Thunderstorm Wind (G50)
		2 light poles down							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Northeast									
Cass County Logansport	29	1654EST			0	0			Thunderstorm Wind (G50)
Cass County Logansport	29	1715EST			0	0			Thunderstorm Wind (G50)
		Multiple trees down							
Blackford County Hartford City	29	1733EST			0	0			Hail (0.75)
Miami County (Gus)Grissom Afb Per	29	1735EST			0	0			Hail (0.75)
Miami County (Gus)Grissom Afb Per	29	1735EST			0	0			Hail (0.75)
Adams County Decatur	29	1820EST			0	0			Thunderstorm Wind (G50)
Noble County Albion	31	1240EST			0	0			Hail (0.75)
Steuben County Ashley	31	1242EST			0	0			Hail (0.75)
De Kalb County Spencerville	31	1244EST	0	0	0	0			Tornado (F0)
		Law Enforcement report							
Noble County Kendallville	31	1245EST			0	0			Hail (0.88)
De Kalb County Auburn	31	1255EST			0	0			Hail (0.75)
Whitley County Columbia City	31	1305EST			0	0			Hail (0.88)
Noble County Ligonier	31	1310EST			0	0			Hail (0.75)
De Kalb County Auburn	31	1315EST	0	0	0	0			Tornado (F0)
De Kalb County Spencerville	31	1320EST			0	0			Hail (0.75)
De Kalb County St Joe	31	1320EST			0	0			Hail (0.75)
Grant County Fairmount	31	1350EST			0	0			Hail (1.75)
Blackford County Hartford City	31	1400EST			0	0			Hail (0.75)
Grant County Gas City	31	1402EST			0	0			Thunderstorm Wind (G60)
Blackford County Hartford City	31	1415EST			0	0			Hail (1.75)
Grant County Gas City	31	1425EST			0	0			Hail (1.75)
Grant County Gas City	31	1425EST			0	0			Thunderstorm Wind (G65)
Adams County Geneva	31	1431EST			0	0			Hail (0.75)
Wells County Domestic	31	1435EST			0	0			Thunderstorm Wind (G60)
Blackford County Montpelier	31	1436EST			0	0			Hail (1.75)
Blackford County Millgrove	31	1524EST			0	0			Thunderstorm Wind (G60)
Jay County Portland	31	1630EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>INDIANA, Northwest</u>									
Jasper County Rensselaer	03	2140EST 2330EST			0	0			Urban/Sml Stream Fld
Heavy rain with embedded thunderstorms moved across the southern portion of the county, and accumulated around 2 inches of rain in and around Rensselaer. No major flooding was reported.									
Newton County Lake Vlg to Morocco	19	1718EST			0	0			Thunderstorm Wind (G50)
A tree fell on a house in Lake Village. Strong winds tore part of a roof off of a house and damaged a machine shed.									
<u>INDIANA, South Central</u>									
Dubois County 4 E Jasper	02	1835EST			0	0			Hail (0.75)
Dispatch reported dime size hail.									
Orange County Orangeville	19	2250EST			0	0			Hail (0.75)
Dime size hail reported by spotter.									
Washington County Campbellsburg	19	2250EST			0	0			Thunderstorm Wind (G50)
Orange County Paoli	19	2255EST			0	0			Thunderstorm Wind (G50)
Dispatch reported several trees down some across roads.									
Orange County Orangeville	19	2250EST			0	0			Hail (0.75)
Spotter reported dime size hail.									
Dubois County Jasper	20	1420EST			0	0			Thunderstorm Wind (G50)
Dubois County Birdseye	20	1430EST			0	0			Thunderstorm Wind (G50)
Perry County Tell City	20	1450EST			0	0	2K		Thunderstorm Wind (G60)
Crawford County Marengo	20	1535EST			0	0			Thunderstorm Wind (G50)
Harrison County Corydon	20	1540EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down as reported by area DES, dispatch and spotters. A roof off one house in Tell City was damaged.									
Washington County Little York	31	1520EST 1525EST			0	0			Thunderstorm Wind (G100)
Scott County Austin	31	1525EST 1530EST			0	0			Hail (1.75)
Scott County Austin	31	1530EST			0	0	20K		Thunderstorm Wind (G60)
Jefferson County Madison	31	1550EST			0	0			Thunderstorm Wind (G50)
Orange County Paoli	31	1653EST			0	0			Hail (1.00)
Harrison County Corydon	31	1710EST			0	0			Thunderstorm Wind (G50)
Dubois County Jasper	31	1745EST 1750EST			0	0			Hail (1.75)
Dubois County Jasper	31	1745EST			0	0			Thunderstorm Wind (G50)
A supercell thunderstorm moved across south central Indiana producing wind damage and large hail as reported by DES, spotters and the public. The National Weather Service survey team noted microburst damage to a home in Austin. Otherwise, trees were reported down scattered across these counties. Additional development took place later across the western part of Louisville's south									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, South Central									
central Indiana CWA in the early evening.									
INDIANA, Southeast									
Wayne County									
Hagerstown	24	0726EST 0730EST			0	0			Hail (1.00)
INDIANA, Southwest									
INZ085-087									
Posey - Warrick									
	01	0001CST			0	0			Flood
	15	2200CST							
Minor flooding of the Ohio River persisted into mid month. Crests were from 1 to 3 feet above flood stage at Mt. Vernon and at Newburgh. The crest occurred on the 7th at Newburgh and on the 11th at Mt. Vernon. Minor flooding of low-lying agricultural areas occurred.									
Posey County									
1 N Griffin	02	1658CST			0	0			Funnel Cloud
A funnel cloud was reported just north of Griffin off Interstate 64. There was an unconfirmed report that it briefly touched down in open fields.									
Gibson County									
Ft Branch	02	1745CST			0	0	2K		Thunderstorm Wind (G50)
Tree limbs were blown down.									
Warrick County									
.5 N Chandler	02	1800CST			0	0	5K		Thunderstorm Wind (G50)
A few trees were down across a road.									
INZ085									
Posey									
	03	1100CST			0	0			Flood
	18	1600CST							
Minor flooding of the lower Wabash River occurred through mid month. The river crested at 17.5 feet at New Harmony, which was 2.5 feet above flood stage. The crest occurred on the 11th. Flooding was generally confined to low-lying agricultural areas.									
Posey County									
1 N Mt Vernon	07	0013CST			0	0	3K		Thunderstorm Wind (G50)
Cable wires were downed by thunderstorm winds. In the Mt. Vernon area, lawn furniture was blown off a porch, and tree limbs were down.									
Vanderburgh County									
1 NW Evansville	07	0020CST			0	0	2K		Thunderstorm Wind (G50)
Power lines were downed by thunderstorm winds.									
INZ081									
Gibson									
	07	1100CST			0	0			Flood
	14	1800CST							
The Patoka River crested at Princeton at 20.1 feet, about 2 feet above flood stage, on May 9. The minor flooding was generally confined to low-lying agricultural areas and river access roads.									
Posey County									
New Harmony to Wadesville	20	1235CST			0	0	5K		Thunderstorm Wind (G52)
Trees were down along Route 66 from the New Harmony area to Wadesville.									
Vanderburgh County									
Evansville	20	1259CST			0	0	100K		Thunderstorm Wind
A roof was blown off an industrial building on Diamond Avenue. Debris was scattered across First Avenue, which disrupted traffic. Trees and wires were blown down. About 3,000 Vanderburgh County electric customers were still without power a few hours later.									
Gibson County									
Francisco	20	1300CST 1315CST			0	0	3K		Thunderstorm Wind (G50)
Trees were down in eastern Gibson County.									
Pike County									
Winslow	20	1300CST			0	0	3K		Thunderstorm Wind (G50)
Trees were down at several locations around the county.									
Warrick County									
.5 N Newburgh	20	1313CST			0	0			Thunderstorm Wind (G52)
Trees were blown down on Indiana 261.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Southwest									
Spencer County									
Chrisney	20	1335CST			0	0	3K		Thunderstorm Wind (G50)
Trees were down near Chrisney and at several other locations in the county.									
Posey County									
St Philip	22	2020CST			0	0			Hail (1.50)
Vanderburgh County									
2 W Evansville	22	2035CST			0	0			Hail (1.00)
Numerous reports of dime to quarter size hail were received from the west side of Evansville.									
Vanderburgh County									
Evansville	22	2045CST			0	0			Urban/Sml Stream Fld
A severe thunderstorm produced about an inch of rainfall in less than 45 minutes over the Evansville area. Street flooding occurred in Evansville.									
Warrick County									
Newburgh	22	2055CST			0	0			Hail (1.00)
Vanderburgh County									
Evansville	23	2125CST			0	0			Thunderstorm Wind (G52)
A few small trees were blown down in Evansville.									
IOWA, Central									
Marion County									
Knoxville	06	2115CST			0	0	50K		Urban/Sml Stream Fld
	07	0830CST							
Lucas County									
Chariton	06	2200CST			0	0	75K		Urban/Sml Stream Fld
	07	0700CST							
Warren County									
Indianola	06	2200CST			0	0	50K		Urban/Sml Stream Fld
		2359CST							
An unsettled weather pattern was over the central U.S. with numerous closed lows moving around a larger upper level trough of low pressure trough. A deformation area of rain formed during the late afternoon hours over Iowa. During the evening, the areas became more concentrated and remained nearly stationary over southern Iowa. Localized heavy rainfall occurred initially from the band of rain. By mid to late evening a large area of moderate to heavy rainfall ensued. One and one half to three inches of rain was common over Marion, Lucas, and Warren Counties. The heaviest rainfall reported was 3.54 inches in Warren County at Hartford. Other heavy totals included 2.65 inches in Chariton in Lucas County, and 2.63 inches in Indianola in Warren County. Damage was relatively minor and restricted to basement flooding and agricultural ponding. Some of the small streams overflowed their banks, especially the White Breast Creek.									
IAZ061-074>075-083>084-095>096 Jasper - Marion - Mahaska - Clarke - Lucas - Wayne - Appanoose									
	07	0100CST			0	0	175K	70K	Flood
	08	1800CST							
After a fairly extended period of dry weather across Iowa, the rains returned to the state. The rainfall for the month was near normal, however isolated pockets of heavy rainfall occurred resulting in isolated river flooding. The heaviest rain events occurred on the 6th, 15th-16th, and the 23rd-24th. Much of the flooding was agricultural flooding and flooding to low lying areas. Dollar damage was therefore minimized. The rain event of the 6th resulted in flooding along parts of the Chariton and Skunk River Basins. Once again, this flooding was restricted to low lying and agricultural areas.									
Pocahontas County									
Pocahontas	09	1645CST			0	0	30K		Urban/Sml Stream Fld
		1900CST							
A rather chaotic but weak upper level flow was over Iowa. The air mass became unstable during the late afternoon as temperatures warmed in to the mid 70s. Thunderstorms erupted and moved very slowly west. One of the storms remained nearly stationary over Pocahontas County. One and one half inches of rain fell in 45 minutes in Pocahontas, with 2.75 inches in a 90 minute period. The heavy rain caused some urban flooding in the county, however it was not widespread.									
Cass County									
15 SSW Atlantic	15	0840CST			0	0	10K		Thunderstorm Wind (G57)
Cass County									
Griswold	15	0841CST			0	0	20K		Thunderstorm Wind (G65)
Cass County									
Lewis	15	0847CST			0	0	150K	25K	Thunderstorm Wind (G72)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Audubon County Audubon	15	0858CST			0	0	5K		Thunderstorm Wind (G50)
Audubon County 3 W Audubon	15	0858CST			0	0	45K		Thunderstorm Wind (G65)
Crawford County Charter Oak	15	0900CST			0	0	15K	2K	Thunderstorm Wind (G56)
Crawford County Schleswig	15	0900CST			0	0	5K		Thunderstorm Wind (G50)
Crawford County Denison Muni Arpt	15	0902CST			0	0	2K		Thunderstorm Wind (G52)
Audubon County Exira	15	0910CST			0	0	75K	5K	Thunderstorm Wind (G61)
Carroll County Manning	15	0911CST			0	0	35K		Thunderstorm Wind (G57)
Crawford County 3 SE Buck Grove	15	0912CST			0	0	20K		Thunderstorm Wind (G61)
Carroll County Carroll	15	0916CST			0	0	25K		Thunderstorm Wind (G61)
Carroll County Templeton	15	0919CST			0	0	5K		Thunderstorm Wind (G52)
Crawford County Denison	15	0920CST			0	0	25K		Thunderstorm Wind (G56)
Carroll County Carroll Neu Arpt	15	0922CST			0	0	3K		Thunderstorm Wind (G51)
Carroll County Glidden	15	0932CST			0	0	2K		Thunderstorm Wind (G50)
<p>Warm and very humid air streamed north into Iowa during the afternoon of the 14th into the early morning hours of the 15th. An unseasonably strong upper level jet stream speed maximum was crossing the Rockies during the night with speeds in excess of 100 MPH. At the same time, a strong upper level disturbance moved across the Texas Panhandle and headed toward Iowa. Thunderstorms erupted over the southern high Plains and moved northeast toward Iowa at 65 to 70 MPH. A bow echo formed as it moved into Iowa. High winds were widespread over southwest into west central Iowa. Wind gusts of 60 to 75 MPH were quite common with widespread damage reported. Some of the damage, besides numerous trees and power lines, included a barn blown down west of Audubon in Audubon County, a roof taken off of a barn southeast of Buck Grove in Crawford County, and billboard sign damage in Crawford County near Denison. Western Cass County was also hard hit as the storms went through. Widespread damage occurred between Griswold and Lewis as winds in excess of 80 MPH tore through the area. Barns were downed and damage occurred on numerous outbuildings. There was also fairly widespread wind damage across the northern part of the county as the storms spread into that area as well. The storms moved northeast rapidly and finally weakened as they moved into northern Iowa.</p>									
Carroll County Carroll	15	1155CST			0	0	25K	5K	Hail (1.50)
Carroll County Breda	15	1200CST			0	0	75K	7K	Thunderstorm Wind (G69)
Calhoun County 3 SW Lake City	15	1214CST			0	0	5K	5K	Hail (1.00)
Webster County Gowrie	15	1225CST			0	0	150K	20K	Thunderstorm Wind (G72)
Calhoun County Lake City	15	1228CST			0	0	0.50K		Hail (0.75)
Humboldt County Humboldt	15	1233CST			0	0	25K	5K	Hail (1.75)
Calhoun County 5 W Manson	15	1234CST			0	0	40K		Thunderstorm Wind (G61)
Kossuth County 1 N Algona	15	1244CST			0	0	5K	5K	Hail (1.00)
Cass County Atlantic Arpt	15	1247CST			0	0	40K		Thunderstorm Wind (G79)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Kossuth County Lakota	15	1250CST			0	0	25K	2K	Thunderstorm Wind (G56)
Kossuth County Bancroft to Lakota	15	1255CST 1305CST			0	0	500K	50K	Thunderstorm Wind (G61)
Kossuth County 5 W Bancroft	15	1259CST			0	0	15K	5K	Hail (1.75)
Carroll County 6.5 S Glidden	15	1300CST			0	0	60K	10K	Thunderstorm Wind (G69)
Kossuth County Bancroft	15	1306CST			0	0	250K	25K	Thunderstorm Wind (G78)
Humboldt County 3 S Ottosen	15	1310CST			0	0	100K	10K	Thunderstorm Wind (G74)
Kossuth County Algona Muni Arpt	15	1316CST			0	0	3K		Thunderstorm Wind (G52)
Kossuth County Algona	15	1319CST			0	0	15K		Thunderstorm Wind (G52)
Kossuth County Algona	15	1320CST			0	0	50K		Hail (1.75)
Hancock County Britt	15	1323CST			0	0	5K		Lightning
Kossuth County Algona	15	1325CST			0	0	350K	25K	Thunderstorm Wind (G74)
Kossuth County 3 S Algona to 5 NE Ledyard	15	1330CST 1410CST	31.3	175	0	0	1M	75K	Tornado (F2)
		Intermittent track							
Wright County Belmond	15	1330CST			0	0		5K	Hail (0.75)
Guthrie County .5 E Guthrie Center	15	1338CST			0	0	25K	3K	Thunderstorm Wind (G61)
Butler County Dumont	15	1355CST			0	0	10K		Thunderstorm Wind (G50)
Dallas County Dawson	15	1355CST			0	0	5K		Thunderstorm Wind (G52)
Dallas County Perry	15	1355CST			0	0	30K		Thunderstorm Wind (G63)
Greene County 4 E Churdan	15	1355CST			0	0	50K	5K	Thunderstorm Wind (G61)
Dallas County 3 S Dawson	15	1357CST			0	0	2K		Thunderstorm Wind (G50)
Kossuth County Swea City	15	1400CST 1600CST			0	0	20K		Urban/Sml Stream Fld
Boone County Ogden	15	1417CST			0	0	25K		Thunderstorm Wind (G56)
Webster County 4 S Ft Dodge	15	1429CST			0	0	15K		Thunderstorm Wind (G63)
Boone County 3 N Boone	15	1430CST			0	0	50K	5K	Thunderstorm Wind (G65)
Dallas County Waukee	15	1430CST			0	0	30K		Thunderstorm Wind (G65)
Hamilton County Webster City Arpt	15	1433CST			0	0	5K		Thunderstorm Wind (G54)
Boone County Boone Muni Arpt	15	1435CST			0	0	1K		Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Wright County Clarion Arpt	15	1438CST			0	0	1K		Thunderstorm Wind (G50)
Kossuth County 2.5 W Titonka	15	1439CST			0	0	100K	10K	Thunderstorm Wind (G65)
Kossuth County Titonka	15	1442CST			0	0	35K		Thunderstorm Wind (G52)
Story County Slater	15	1445CST 1450CST			0	0	20K	1K	Thunderstorm Wind (G52)
Story County Ames	15	1450CST			0	0	50K		Thunderstorm Wind (G57)
Crawford County Denison	15	1453CST			0	0	10K		Thunderstorm Wind (G52)
Hancock County Garner	15	1455CST			0	0	50K	3K	Thunderstorm Wind (G57)
Story County Colo	15	1455CST			0	0	3K		Thunderstorm Wind (G50)
Wright County 1 E Eagle Grove to 7 NNW Clarion	15	1458CST 1508CST	11	60	0	0	50K	0.50K	Tornado (F1)
Calhoun County Lake City	15	1500CST			0	0	40K	3K	Thunderstorm Wind (G56)
Crawford County 1.5 SE Denison to 3 E Denison	15	1500CST 1503CST	2.5	50	0	0	100K	0.50K	Tornado (F1)
Crawford County .3 NE Denison	15	1500CST	0.2	20	0	0			Tornado (F0)
Wright County Belmond	15	1505CST			0	1	2K		Lightning
Hardin County Hubbard	15	1510CST			0	0	20K		Thunderstorm Wind (G57)
Sac County Wall Lake	15	1510CST			0	0	40K	5K	Thunderstorm Wind (G56)
Wapello County Ottumwa	15	1510CST			0	0	30K		Thunderstorm Wind (G58)
Winnebago County 3 E Forest City	15	1510CST			0	0	25K	5K	Thunderstorm Wind (G61)
Wright County Belmond	15	1510CST			0	0	5K		Thunderstorm Wind (G56)
Worth County Hanlontown	15	1514CST			0	0	40K	5K	Thunderstorm Wind (G61)
Crawford County Vail	15	1515CST			0	0	10K	1K	Thunderstorm Wind (G56)
Wapello County Chillicothe	15	1515CST	0.1	20	0	0			Tornado (F0)
Winnebago County Forest City	15	1515CST			0	0	75K	5K	Thunderstorm Wind (G61)
Worth County 2 S Joice to 2 E Joice	15	1516CST 1520CST	2.8	50	0	0	150K	15K	Tornado (F1)
Crawford County Westside	15	1518CST			0	0	10K	1K	Thunderstorm Wind (G56)
Sac County Auburn	15	1521CST	0.1	20	0	0			Tornado (F0)
Worth County Northwood	15	1522CST			0	0	50K	5K	Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Story County									
Story City	15	1527CST			0	0	25K		Thunderstorm Wind (G54)
Cerro Gordo County									
Mason City	15	1528CST			0	0	40K		Thunderstorm Wind (G54)
Crawford County									
Schleswig	15	1530CST			0	0	20K		Thunderstorm Wind (G54)
Franklin County									
Geneva	15	1530CST			0	0	75K	5K	Thunderstorm Wind (G65)
Hardin County									
Steamboat Rock	15	1540CST			0	0	30K	3K	Thunderstorm Wind (G57)
Hardin County									
Eldora	15	1543CST			0	0	50K	3K	Thunderstorm Wind (G57)
Pocahontas County									
Pocahontas	15	1543CST			0	0	30K		Thunderstorm Wind (G61)
Butler County									
Dumont	15	1545CST			0	0	15K	2K	Thunderstorm Wind (G61)
Butler County									
Aredale	15	1555CST			0	0	75K	5K	Thunderstorm Wind (G65)
Butler County									
Dumont	15	1556CST			0	0	10K		Thunderstorm Wind (G50)
Tama County									
Gladbrook	15	1600CST			0	0	10K		Thunderstorm Wind (G52)
Tama County									
Garwin	15	1603CST			0	0	10K		Thunderstorm Wind (G52)
Grundy County									
Wellsburg	15	1609CST			0	0	10K		Thunderstorm Wind (G50)
Butler County									
Bristow	15	1610CST			0	0	10K	1K	Thunderstorm Wind (G56)
Tama County									
Tama	15	1612CST			0	0	15K		Thunderstorm Wind (G52)
Butler County									
7 W Greene	15	1613CST			0	0	3K		Thunderstorm Wind (G52)
Butler County									
Clarksville	15	1625CST			0	0	50K		Thunderstorm Wind (G57)
Black Hawk County									
3 NE Cedar Falls	15	1634CST			0	0	5K		Thunderstorm Wind (G50)
Bremer County									
Sumner	15	1700CST			0	0	40K	5K	Thunderstorm Wind (G65)

As the system mentioned above continued to evolve, a widespread outbreak of severe weather took place over Iowa. Strong upper level dynamics moved over the state over the top of an unstable air mass. Surface dew point temperatures were in the low 70s with actual temperatures in the upper 70s to low 80s. CAPE values rose to between 2500 and 3500 J/kg. The situation became complex during the afternoon as several bands of severe thunderstorms developed. Some areas of the state were affected three times during the day as the storms raced northeast around 60 MPH. The main severe feature with the storms was high wind. There were numerous reports of wind gusts of 60 to 75 MPH. Some were even higher. One of the highest reports came from Atlantic in Cass County. Ninety one MPH winds there threw several cars and a few semi-tractortrailer trucks off of Interstate 80. High winds in Kossuth County at Algona resulted in roof damage at a nursing home there. Part of the roof was removed by the winds with the damage estimates to the building places at around \$200,000. Another cluster of storms moved into north central Iowa and caused widespread damage in Cerro Gordo and Worth Counties. Both were hit with winds around 70 MPH. There were numerous other reports of damage to farm buildings around the state ranging from corn cribs damaged to barns being destroyed. Damage to trees and power lines was extensive. North of Algona, along U.S. Highway 169, seventy eight power poles were downed by the high winds resulting in a four day closure of the highway. Utility damage around the county was estimated at between \$600,000 and \$800,000, while insurance adjusters estimated damage around the county at \$1.2 million. There were some reports of hail, especially during the first few hours of the event. The largest hail was around golf ball in size. In addition to the wind and hail, there were several tornado touch downs in the state. A tornado touched down in Kossuth County and did over \$1 million in damage. The tornado destroyed 2 houses with another 10 sustaining major damage. Fifteen farmsteads were destroyed as well. Kossuth County was later declared a disaster area. There was also considerable damage to barns and other farm buildings across the county. The outflow from the tornadic storm in Kossuth County pushed an 85 MPH wind gust south into Humboldt County. The

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

IOWA, Central

high winds blew over 41 railroad cars of the Union Pacific Railroad south of Ottosen. A band of 80 to 90 MPH winds swept across Franklin and Butler Counties. Damage was widespread. There was one report of the wind carrying the family dog over one half mile from home. The dog was later found safe and healthy. Another of the stronger tornadoes included one in Wright County that was on the ground for over 10 miles. It damaged several farm buildings along its path. Several 2 x 4's were driven into the ground north of Clarion by the tornado. Another fairly strong tornado touched down in Crawford County. The rope tornado touched down southeast of Denison. It hit a train about 3 miles east of Denison and derailed nine cars of the Union Pacific freight train. The engineer saw it coming and thought it was so small that nothing would happen. There was also minor damage to 1 house and several out buildings. There were a few other brief touch downs around the state, however no damage was reported with them. The rapid movement of the storms prevented a lot of the flooding that would have otherwise occurred. Repeat thunderstorms passing over Kossuth County did cause some urban flooding. Damage was relatively minor, however several homes reported minor flooding. As the storms moved across Hancock County, lightning struck a house in the town of Britt. The kitchen sink was blown away from the wall and all of the appliances and the electrical equipment in the house was damaged. Lightning struck very close to another house in Wright County in Belmond. A 75-year old woman received minor injuries as she was struck by lightning as she unplugged her TV near a large window.

IAZ004>005-024-034-045>046-059 Emmet - Kossuth - Humboldt - Calhoun - Carroll - Greene - Dallas

16	1800CST			0	0	140K	70K	Flood
18	0600CST							

Spotty heavy rainfall on the 15th and 16th lead to significant rises on the Des Moines and Raccoon River Basins. The flooding was once again minor and restricted to low lying and agricultural lands. Flood crest were only two feet or less above flood stage and duration was not very long. This limited damage.

Polk County 2 N Runnells	19	1406CST			0	0	0.50K	5K	Hail (0.75)
Polk County 2 N Runnells	19	1416CST			0	0	0.50K	3K	Hail (0.75)
Polk County Ankeny	19	1515CST			0	0	150K	10K	Hail (1.75)
Jasper County 3 W Colfax	19	1524CST			0	0	10K	10K	Hail (1.00)
Marion County 1 W Pleasantville to .5 N Pleasantville	19	1545CST 1550CST	0.7	30	0	0		1K	Tornado (F0)
									Small tornado with numerous brief touchdowns
Polk County 8 W Runnells	19	1545CST	0.2	25	0	0		0.50K	Tornado (F0)
									Small tornado with brief touchdown
Marshall County Haverhill	19	1647CST			0	0	1K	5K	Hail (1.00)
Polk County Johnston	19	1647CST			0	0	0.50K		Hail (0.75)
Marshall County Marshalltown Arpt	19	1650CST			0	0	10K	5K	Hail (1.50)
Polk County Johnston	19	1650CST			0	0	0.50K		Hail (0.88)
Dallas County Waukee	19	1655CST			0	0	20K	8K	Hail (1.75)
Mahaska County Leighton	19	1659CST			0	0	0.50K	5K	Hail (0.75)
Polk County 4 N Johnston	19	1700CST			0	0	6K	1K	Hail (1.75)
Dallas County Waukee	19	1702CST			0	0	1K	5K	Hail (1.00)
Polk County Ankeny	19	1712CST			0	0	2K	3K	Hail (0.88)
Polk County Ankeny	19	1713CST			0	0	50K	5K	Hail (1.75)
Story County Colo	19	1713CST			0	0	500K	100K	Hail (3.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Ground covered 4 inches deep between Colo and Collins									
Jasper County Colfax	19	1715CST 2000CST			0	0	30K	2K	Urban/Sml Stream Fld
Polk County Ankeny	19	1715CST 2000CST			0	0	50K	2K	Urban/Sml Stream Fld
Polk County Grimes	19	1720CST			0	0	0.50K	10K	Hail (0.75)
Wapello County Eddyville	19	1729CST			0	0	100K	15K	Hail (1.75)
Wapello County Ottumwa Arpt	19	1827CST			0	0	15K	5K	Hail (1.00)
Warren County Indianola	19	1833CST			0	0	200K	20K	Hail (1.75)
Warren County Medora	19	1900CST			0	0	30K	25K	Hail (1.75)
<p>A warm and humid air mass was located over Iowa during the afternoon of the 19th. Temperatures in this air were around 90 degrees F. Dew point temperatures were in the low to mid 70s, making for an unstable situation. A cold front was poised to the north of Iowa and was sagging southward slowly. Thunderstorms began to form over central Iowa during the mid afternoon hours. They formed rather quickly into a cluster of storms, with repeated development in the same areas. Most of the individual cells were right turning cells and many produced hail. Numerous reports of hail up to golf ball in size were received from in the Des Moines area, southeast toward Ottumwa. The cluster of storms that initially formed over central Iowa did eventually drift southeast toward the Ottumwa area just before sunset. The largest hail report came from Colo in Story County. Three inch diameter hail covered the ground to a depth of 4 inches between Colo and Collins. Needless to say, there were many reports of damage to roofs and cars. Fortunately, the largest hail remained just north and east of the densely populated Des Moines metro area. During the early stages of the storms development, a couple small tornadoes were reported. One was in Polk County, while the second was over Marian County. Both were small and only touched down briefly. The one over Marian County dipped up and down from the clouds several times during it's brief life span. No serious damage occurred as the tornadoes touched down in rural areas. In addition to the hail and tornadoes, the storms produced copious amounts of rainfall. Reports from the Ankeny area east toward Newton indicated very heavy rainfall from the storms. The southeast side of Ankeny reported 3.27 inches of rain in less than two hours time. This resulted in local flooding, however no widespread flooding occurred.</p>									
Crawford County Dow City	20	0313CST			0	0	5K		Thunderstorm Wind (G61)
Crawford County Dow City	20	0433CST			0	0	0.50K		Thunderstorm Wind (G52)
Warren County Cumming	20	0440CST			0	0	3K		Thunderstorm Wind (G55)
Polk County Des Moines Arpt	20	0455CST			0	0			Thunderstorm Wind (G52)
<p>The cold front that moved south across Iowa during the afternoon of the 19th became stationary to the south of the state during the night. Warm air continued to feed north over the top of the boundary. Surface dew point temperatures to the south of the front were in the 70s. Thunderstorms fired up initially over Nebraska with a north/south bow echo forming in central Nebraska. It raced east and entered Iowa during the predawn hours. High winds were reported in several area. Most locations received at least 50 MPH winds as the storms moved through. Spotty reports were received of wind gusts between 60 and 70 MPH. Damage was limited to tree damage for the most part.</p>									
Marion County Knoxville	20	0925CST			0	0	1K	5K	Hail (1.00)
Marion County 5 NW Knoxville	20	0953CST			0	0	10K	10K	Hail (2.50)
Monroe County Hiteman	20	1005CST			0	0	100K	25K	Hail (3.25)
Wapello County 8 W Ottumwa	20	1015CST			0	0	10K	10K	Hail (1.75)
Wapello County Blakesburg	20	1020CST			0	0	20K	7K	Hail (1.75)
Wapello County 2 W Ottumwa	20	1020CST			0	0	10K	5K	Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Wapello County Ottumwa	20	1024CST			0	0	3K		Hail (1.00)
Wapello County 1 S Agency	20	1030CST			0	0	5K	7K	Hail (1.25)
Mahaska County 4 S Rose Hill	20	1047CST			0	0	3K	5K	Hail (1.00)
Thunderstorms fired up during the mid morning hours on the outflow boundary left behind by convection the previous night and early morning. The airmass was quite unstable and the storms became severe quickly. The main weather feature with the storms was hail. Numerous reports of large hail came in from a four county area, with many of them up go golf ball in size. Hail nearly the size of baseballs fell northwest of Knoxville in Marion County, with one confirmed report of hail over three inches in diameter measured in the town of Hiteman..									
Audubon County Kimballton	21	1945CST			0	0	10K	1K	Thunderstorm Wind (G52)
Cass County 7 NW Atlantic	21	2000CST			0	1	50K	5K	Thunderstorm Wind (G57)
Cass County 7 NE Atlantic	21	2010CST			0	0	10K	5K	Thunderstorm Wind (G57)
Cass County Atlantic Arpt	21	2012CST			0	0	1K		Thunderstorm Wind (G54)
Cass County Atlantic	21	2013CST			0	0	70K	3K	Thunderstorm Wind (G69)
Cass County Anita	21	2015CST			0	0	10K		Thunderstorm Wind (G56)
Cass County Atlantic	21	2018CST			0	0	15K		Thunderstorm Wind (G52)
Audubon County Brayton	21	2020CST			0	0	10K	10K	Hail (1.75)
Audubon County 7 SE Exira to 6 SE Exira	21	2020CST			0	0	4K		Thunderstorm Wind (G61)
Cass County 1 N Anita	21	2020CST	0.5	35	0	0	75K	2K	Tornado (F1)
Cass County 5 NW Atlantic	21	2020CST			0	0	1K	5K	Hail (1.00)
Cass County 2 E Atlantic	21	2020CST			0	0	3K	10K	Thunderstorm Wind (G52)
Small hail covered the ground									
Cass County Wiota	21	2022CST			0	0	50K	5K	Thunderstorm Wind (G69)
Cass County 1 N Anita	21	2023CST			0	0	1K	5K	Hail (1.00)
Cass County 3 N Wiota	21	2023CST			0	0	1K	5K	Hail (1.00)
Audubon County Brayton	21	2024CST			0	0	5K		Thunderstorm Wind (G52)
Cass County 2 W Wiota	21	2025CST			0	0	4K	25K	Hail (1.75)
Union County Afton	21	2027CST			0	0	20K	5K	Thunderstorm Wind (G58)
Adair County Fontanelle	21	2045CST			0	0	100K	5K	Thunderstorm Wind (G70)
Adair County Bridgewater	21	2050CST			0	0	5K	0.50K	Thunderstorm Wind (G61)
Adair County 5 W Greenfield	21	2115CST			0	0	10K	1K	Thunderstorm Wind (G67)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Madison County Macksburg	21	2130CST			0	0	10K	1K	Thunderstorm Wind (G61)
Madison County Truro	21	2130CST			0	0	1K		Thunderstorm Wind (G50)
Union County Lorimor	21	2130CST			0	0	2K		Thunderstorm Wind (G50)
Dallas County Adel	21	2135CST			0	0	1K		Thunderstorm Wind (G52)
Union County 3 NW Creston	21	2135CST			0	1	10K	1K	Thunderstorm Wind (G55)
Madison County Truro	21	2140CST			0	0	2K		Thunderstorm Wind (G50)
Union County 6 N Creston	21	2140CST			0	0	5K		Thunderstorm Wind (G56)
Union County Creston	21	2140CST			0	0	15K	1K	Thunderstorm Wind (G61)
Clarke County Osceola	21	2205CST			0	0	5K		Thunderstorm Wind (G50)
Warren County 3 NW Indianola	21	2208CST			0	0	5K		Thunderstorm Wind (G50)
Wayne County 8 S Humeston	21	2230CST			0	0	10K	1K	Thunderstorm Wind (G56)
Lucas County Lucas	21	2240CST			0	0	2K		Thunderstorm Wind (G50)
Wayne County Corydon	21	2240CST			0	0	5K		Thunderstorm Wind (G52)
Wayne County Promise City	21	2243CST			0	0	3K		Thunderstorm Wind (G52)
Wayne County Seymour	21	2300CST			0	0	70K	10K	Thunderstorm Wind (G65)
Appanoose County Centerville	21	2315CST			0	0	2K		Thunderstorm Wind (G50)
Appanoose County Moulton	21	2340CST			0	0	3K		Thunderstorm Wind (G52)
<p>A frontal boundary remained nearly stationary to the south of Iowa. Thunderstorms fired up as warm air over ran the cooler air at the surface. Storms formed over Nebraska and moved into western Iowa during the mid evening hours, then continued to advance east across the state. For the most part the storms produced high winds with wind gusts to 70 MPH or more at times. Winds gusted to 77 MPH west of Greenfield in Adair County. There were numerous reports of trees and power lines downed. One injury occurred in Union County as campers were overturned at Green Valley State Park by the high winds. Another injury occurred in Cass County when 65 to 80 MPH winds blew through. Three semi-tractortailers and one car were overturned by high winds in Interstate 80. There were also many reports of farm sheds and buildings being damaged or destroyed by the winds. Some building damage was reported in Creston. A barn and farm shed was destroyed by high winds in Wayne County near Seymour. Early in the storms development, a small tornado touched down in Cass County north of Anita. The tornado destroyed several sheds and grain bins there. In addition to the wind, there were numerous reports of marble size hail. Hail was not a major event with these storms however. The only large hail reports came early on in the event with golf ball size hail at Brayton in Audubon County, and one inch diameter hail reported in Cass County northwest of Atlantic.</p>									
Adair County Greenfield	22	0120CST			0	0	50K	10K	Thunderstorm Wind (G64)
Adair County Greenfield	22	0130CST			0	0	1K	5K	Hail (1.00)
Taylor County Lenox	22	0200CST			0	0	200K	10K	Thunderstorm Wind (G69)
Ringgold County Tingley	22	0215CST			0	0	50K	10K	Thunderstorm Wind (G69)
Ringgold County Ellston	22	0225CST			0	0	75K	10K	Thunderstorm Wind (G69)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Decatur County Van Wert	22	0300CST			0	0	150K	10K	Thunderstorm Wind (G69)
Decatur County Leon	22	0310CST			0	0	25K	3K	Thunderstorm Wind (G56)
Decatur County 3 NE Van Wert	22	0315CST			0	0	100K	10K	Thunderstorm Wind (G69)
<p>A second round of thunderstorms moved into Iowa during the early morning hours. A mesoscale convective system developed in Nebraska north of a stationary frontal boundary and raced east into Iowa. The storms weakened as they moved to the east, but were able to drop one inch diameter hail in Adair County at Greenfield and produced winds around 80 MPH in Taylor County at Lenox, and 73 MPH winds at Greenfield in Adair County. The winds in Lenox caused about \$150,000 damage to a farm supply building there. A 30 square foot section of the roof was damaged and a large entrance door on the building was torn off. The storms moved east during the night and produced high winds in Ringgold and Decatur Counties. Damage was reported over many sections of the county ranging from blown over trees to structural damage such as occurred around the Van Wert, Tingley, and Ellston areas.</p>									
Cerro Gordo County Mason City	23	1045CST			0	0	1K		Hail (1.00)
Cerro Gordo County Mason City	23	1047CST			0	0	0.20K		Hail (0.75)
<p>Thunderstorms developed over north central Iowa during the late morning hours. They were not widespread, but one of the storms did become severe. As it passed over Mason City, hail up to an inch in diameter fell on the city, causing some minor damage.</p>									
Butler County Shell Rock	23	1458CST			0	0	50K	15K	Hail (3.00)
Butler County Parkersburg	23	1502CST			0	0	25K	5K	Hail (1.75)
<p>The airmass remained very unstable over Iowa into the afternoon hours. Thunderstorms erupted over northeast Iowa and became severe quickly. The result was large hail. Three inch diameter hail fell on Butler County at Shell Rock, with golf ball size hail in Parkersburg. Damage was reported to cars with broken windows and dents. Some windows were knocked out of a few houses as well. Needless to say, crops were damaged as well.</p>									
Carroll County Manning	23	1730CST			0	0	0.20K	2K	Hail (0.75)
Greene County Churdan	23	1742CST			0	0	10K	1K	Hail (1.75)
Webster County 4 NE Gowrie	23	1800CST			0	0	0.20K	3K	Hail (0.75)
Hamilton County 2 E Stanhope	23	1815CST			0	0	0.20K	3K	Hail (0.75)
Monroe County 9 SE Albia	23	1826CST			0	0	0.50K	3K	Hail (1.00)
<p>torrential rainfall</p>									
Greene County 4 N Scranton	23	1830CST 2030CST			0	0	30K	2K	Urban/Sml Stream Fld
Appanoose County 2 SE Monrovia	23	1900CST 2145CST			0	0	50K	5K	Urban/Sml Stream Fld
Davis County Bloomfield	23	1900CST 2145CST			0	0	50K	5K	Urban/Sml Stream Fld
Wapello County Ottumwa	23	1900CST 2145CST			0	0	50K	5K	Urban/Sml Stream Fld
Appanoose County 5 SE Moravia	23	1917CST			0	0	3K	5K	Hail (1.00)
Davis County Bloomfield	23	1954CST			0	0	3K	5K	Hail (1.00)

A complex weather situation unfolded over Iowa. Initially, a stationary front was located to the south of the state. An upper low pressure system was poised to the southwest of Iowa and began to lift out. As it lifted out and its associated vorticity maximum moved northeast, a line of thunderstorms formed in western Iowa. This line advanced east across the west half of the state producing hail and heavy rainfall. Some of the hail was up to golf ball in size. Rainfall rates were in excess of 1.5 inches per hour.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, Central

In Greene County, flooding washed a police squad car off of a highway north of Scranton. While all of this was going on, another mesoscale convective system formed over Missouri. Iowa was on the north edge of this system as it advanced northward and merged with the line of thunderstorms moving east into Iowa. The system in Missouri formed as the surface low pressure system moved east across northern Missouri. There was little in the way of severe weather over southern Iowa from the convective system. Though there was some hail, the main feature was heavy rainfall. Nearly 3 inches of rain fell in under 3 hours southeast of Moravia in Appanoose County, causing local flooding there. There were numerous reports of lowland flooding throughout Appanoose, Davis, and Wapello Counties.

IAZ061-074>075-083>084 Jasper - Marion - Mahaska - Clarke - Lucas

24	0600CST								
26	1200CST				0	0	125K	50K	Flood

Another round of rainfall occurred in the state on the 23rd and 24th. This caused rises on the Skunk and Chariton Rivers and flooded low lying and agricultural lands along those rivers. Once again, damage was quite limited since rivers did not exceed flood stage by more than a foot or two and the duration was fairly short.

Pocahontas County 6 NW Pocahontas

28	1440CST	0.2	25						0.10K	Tornado (F0)
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Hardin County

Iowa Falls

28	1559CST								400K	100K	Hail (3.00)
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Hardin County

Iowa Falls

28	1559CST								100K	10K	Thunderstorm Wind (G69)
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Hardin County

Radcliffe

28	1623CST								50K	1K	Thunderstorm Wind (G61)
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Grundy County

1 N Grundy Center

28	1642CST								25K	1K	Thunderstorm Wind (G61)
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Webster County

Badger

28	1653CST								10K	3K	Hail (1.75)
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A very unstable airmass as located over Iowa following an extended period of southerly winds. Surface dew point temperatures were in the 70 degree F. range to the south of a weak cold front that was entering the state from the north. An east-west line of thunderstorms formed during the mid to late afternoon hours. The storms became severe very quickly with a tornado dropping out of one of the first storms to form. It touched down briefly northwest of Pocahontas in an open field. The rest of the storms that formed produced very high winds and large hail. Hail larger than baseball in size pelted the town of Iowa Falls in Hardin County, causing considerable damage in the town. Crops were also damaged by the hail. In addition to the hail, 80 MPH winds accompanied the storm as it moved through Iowa Falls. High winds were also reported elsewhere around the county and extended into Grundy County as well. The line of storms eventually weakened, but not before dropping golf ball size hail in Webster County at Badger.

Calhoun County

Lake City

28	1956CST								1K	1K	Hail (1.00)
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Calhoun County

4 E Lake City

28	1956CST	0.3	30							0.20K	Tornado (F0)
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Crawford County

1 N Charter Oak

28	2020CST	0.1	20								Tornado (F0)
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Webster County

1 N Lanyon

28	2026CST								1K	3K	Hail (1.00)
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Crawford County

2 N Schleswig

28	2040CST									1K	Hail (0.75)
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Crawford County

5 NW Denison

28	2051CST								5K	5K	Hail (1.75)
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Crawford County

3 SE Deloit

28	2112CST								5K	5K	Hail (1.75)
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Crawford County

Vail

28	2118CST								15K	2K	Hail (1.75)
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Carroll County

2 SW Arcadia to 2 SE Arcadia

28	2136CST	0.2	25							0.10K	Tornado (F0)
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Carroll County

10 SW Carroll

28	2145CST									5K	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Crawford County									
Manilla	28	2215CST			0	0	15K	100K	Hail (1.75)
A very unstable airmass as located over Iowa following an extended period of southerly winds. Surface dew point temperatures were in the 70 degree F. range to the south of a weak cold front that was entering the state from the north. An east-west line of thunderstorms formed during the mid to late afternoon hours. The storms became severe very quickly but died down during the late afternoon hours. The break was fairly short as the atmosphere was able to recharge during the early evening hours. The low level jet increased and fed the new storms. Initially, the storms became tornadic with brief tornado touchdowns. No serious damage was reported with the tornadoes however. The main severe weather with the storms was hail during much of the evening. Hail up to golf ball in size was reported in many locations, resulting in fairly widespread crop damage and some property damage.									
Audubon County									
Audubon	29	0040CST			0	0	10K	5K	Hail (1.75)
Cass County									
Lewis	29	0055CST			0	0	10K	5K	Hail (1.75)
Adams County									
Corning	29	0110CST			0	0	10K	5K	Hail (1.75)
Adams County									
Corning	29	0110CST			0	0	15K	0.50K	Thunderstorm Wind (G54)
Union County									
1 SW Creston	29	0143CST			0	0	1K	5K	Hail (1.00)
During the evening hours, thunderstorms formed over Nebraska and moved east rapidly into Iowa after midnight. The storms lost a lot of their punch as they moved east, but did produce hail over southwest Iowa. A few reports of hail of one inch up to golf ball in size were received. The storms weakened as they moved farther east into Iowa, but still produced pea to marble size hail and wind gusts of 40 to 50 MPH as they moved across the south half of the state.									
Sac County									
Early	30	1058CST			0	0		3K	Hail (0.75)
Sac County									
1 N Sac City	30	1105CST			0	0	0.20K	5K	Hail (1.00)
Calhoun County									
6 SW Pomeroy to 10 SW Pomeroy	30	1115CST			0	0	0.10K	5K	Hail (1.00)
Sac County									
Auburn	30	1115CST			0	0	25K	20K	Hail (2.00)
Calhoun County									
Rockwell City	30	1123CST			0	0	10K	5K	Hail (1.75)
Calhoun County									
Rockwell City	30	1126CST			0	0	10K	5K	Hail (1.75)
Tree damage caused by the hail									
Calhoun County									
Lake City	30	1138CST			0	0	750K	20K	Hail (2.50)
Trees damaged by the hail									
Calhoun County									
Lohrville	30	1138CST			0	1	1M	80K	Hail (2.75)
Calhoun County									
Farnhamville	30	1140CST			0	0	75K	30K	Hail (2.75)
Calhoun County									
Farnhamville	30	1140CST	0.1	25	0	0		0.50K	Tornado (F0)
Calhoun County									
Lake City	30	1159CST			0	0	25K	5K	Hail (2.75)
Webster County									
Harcourt	30	1200CST			0	0	150K	50K	Hail (3.50)
Hail covered the ground									
Greene County									
Jefferson	30	1205CST			0	0	25K	10K	Hail (1.75)
Wind gusts to 50 MPH.									
Boone County									
Pilot Mound	30	1218CST			0	0	250K	50K	Hail (2.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Boone County 3 W Boxholm	30	1220CST			0	0	40K	30K	Hail (2.75)
Boone County 1 SE Boone	30	1223CST	0.1	20	0	0		0.10K	Tornado (F0)
Boone County Boone	30	1225CST			0	0	100K	10K	Hail (2.75)
Boone County Fraser	30	1231CST	0.2	25	0	0		0.10K	Tornado (F0)
Story County Gilbert	30	1243CST			0	0	1K	10K	Hail (1.25)
Story County Gilbert	30	1250CST			0	0	100K	50K	Hail (4.00)
Story County 2 NE Gilbert	30	1251CST			0	0	50K	50K	Hail (5.00)
Story County 1 E Gilbert	30	1253CST			0	0	20K	15K	Hail (1.75)
Story County 5 SW Nevada to 7 SE Colo	30	1256CST 1330CST	14	45	0	0	5K	1K	Tornado (F1)
		Intermittent path							
Story County 1 N Nevada	30	1307CST			0	0	75K	10K	Hail (2.75)
Story County 3 N Nevada	30	1308CST			0	0	10K	10K	Hail (1.75)
Story County 5 NE Ames	30	1309CST			0	0	40K	10K	Hail (3.00)
Marshall County 5 S State Center	30	1325CST			0	0	10K	10K	Hail (1.75)
Marshall County 3.5 NW Rhodes to Melbourne	30	1330CST 1350CST	8	45	0	0	2K	0.50K	Tornado (F1)
		Intermittent path							
Marshall County State Center	30	1335CST			0	0	100K	5K	Hail (2.75)
Marshall County 1 W State Center	30	1338CST			0	0	10K	10K	Hail (1.75)
Marshall County State Center	30	1339CST			0	0	50K	5K	Hail (2.75)

A very unstable airmass was over Iowa. In spite of the instability, the atmosphere was capped by very warm air aloft. Temperatures at the 700 mb level were between 12 degrees C and 14 degrees C. As a result, thunderstorms had a difficult time forming. The atmosphere was primed with CAPE values in the 4000 to 6000 J/kg range by late morning. Helicity values were near 300 M2/S2. One cell was able to break the cap and became severe. It was a prolific hail producer as well as spawning several tornadoes. Hail reports indicated frequent baseball size hail with a few reports to softball size and larger. The largest report was an incredible 5 inch diameter stone north of Gilbert in Story County. The damage caused was incredible. In some town, every north facing window was broken out by the hail. On one building, the hail was so large that it broke the stone tile roof in the building, smashing it into pieces. Property damage was extensive in a swath from Sac County through Marshall County. Total property damage was estimated to be well in excess of \$5,000,000. In Calhoun County, the town of Lohrville was hard hit by baseball size hail. Damage in the town was estimated at \$1 million as the hail knocked out windows in almost all of the 225 buildings in town. One injury was reported in Lohrville as a woman was treated for an eye injury as shards of glass flew into her eye from a car windshield broken by the hail. Crop damage was difficult to assess, but was extensive. Thousands of acres of crops were shredded by the hail. In Webster County, estimates of crop damage indicated 24,000+ acres had total crop loss and 20,000+ acres suffered 30-50% loss. Crop loss in the county was expected to be over \$14 million. In addition to the crop loss, property loss was estimated at between \$2 and \$4 million. Many emergency managers described the hail event as the worst in 25 years in some areas to the worst they have ever seen in others. To give some idea of the severity, the hail was large enough to shatter tile roofs. Scenes of broken tiles falling off of houses were common. The hail also took a toll on wildlife. Numerous Pheasants, rabbits, and other small animals were killed by the hail, not to mention the smashed birds eggs. The thunderstorm cell itself was a classic cell on WSR-88D radar. It contained a clear hook echo and bounded weak echo region. In spite of the structure looking text book perfect, the cell had a hard time producing a tornado. Several brief touchdowns were reported from northwest of Boone to the vicinity of Boone. The cell became

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, Central

better organized as it moved into central Iowa. A tornado touched down in Story County and moved into Marshall County. This tornado was fairly small and had a very intermittent track. Storm chasers indicated that the tornado lifted several times during its life. Damage was limited as the tornado tracked totally across open country and caused only crop damage for the most part.

Cerro Gordo County Meservey	30	2300CST			0	0	50K	5K	Thunderstorm Wind (G78)
Cerro Gordo County Mason City	30	2310CST			0	0	25K		Thunderstorm Wind (G50)

The airmass over Iowa continued to be capped through the late afternoon and early evening hours with the exception of the storms that produced the incredible hail damage over the northwest and central sections of the state during the afternoon. Thunderstorms did eventually fire after sunset and move across northern Iowa toward midnight. High winds of 90 MPH were reported in Meservey, causing damage there. High winds also swept through the Mason City area, though damage was not as serious. About \$20,000 damage was done to a church that was under construction in Mason City.

IOWA, East Central and Southeast

Linn County 2 E Center Pt	08	1740CST	0.1	1	0	0	0.50K		Tornado (F0)
Brief tornado damaged shingles on farm buildings.									
Linn County Toddville	08	1801CST	0.1	1	0	0			Tornado (F0)
A brief tornado touchdown left no apparent damage.									
Keokuk County Hayesville	15	1526CST			0	0			Hail (1.75)
Keokuk County 2 SW Sigourney to Sigourney	15	1541CST 1547CST			0	0			Hail (1.75)
Lee County Montrose	12	1611CST			0	0			Hail (1.75)
Dubuque County Worthington	12	1758CST			0	0			Tstm Wind/Hail
Strong thunderstorm winds and three quarter inch hail caused a widespread power outage across the city of Worthington.									
Jefferson County Fairfield	15	1540CST			0	0	1K		Thunderstorm Wind
Strong thunderstorm winds caused a major power outage across the city due to downed powerlines and tree limbs.									
Washington County 2 SW Washington to 16 NE Washington	15	1605CST 1624CST	18	400	0	28	9M		Tornado (F3)
Johnson County 4 SE Hills to 5 SE Iowa City	15	1624CST 1650CST	14	400	0	17	6M		Tornado (F3)
Cedar County Downey to 1 W Clarence	15	1706CST 1727CST	15	400	0	2	1.8K		Tornado (F3)
Jones County 8 SSW Onslow to 1 W Oxford Mills	15	1730CST 1732CST	0.2	3	0	0	1K		Tornado (F0)
Dubuque County 7 SW Dubuque	15	1810CST 1820CST	0.3	1	0	0	0.20K		Tornado (F0)

A tornado developed two miles Southwest of Washington Iowa and produced a 30 mile long continuous path of damage and debris as it moved to the Northeast at nearly 30 mph. The tornado weakened and lifted before reaching I-80 near West Branch Iowa shortly before 6pm. The tornado continued Northeast across Cedar County Iowa producing another 15 miles of isolated damage...not continuous. The storm producing this tornado continued Northeast producing a brief touchdown one mile west of Oxford Mills Iowa near the intersection of county roads E53 and X64. Another brief touchdown occurred south of Dubuque near Zwingle Iowa before the storm moved into Wisconsin.

In Washington Iowa extensive damage was reported to businesses, a church, numerous homes, an apartment complex housing elderly residents and a livestock sale barn. Fourteen single family homes were destroyed, another fourteen received major damage and forty five reported minor damage. Three multi-family housing units were destroyed and two received major damage. Twenty six detached units (sheds and garages) were destroyed or sustained major damage. Across Washington county fourteen farmsteads

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, East Central and Southeast

were hit by the tornado with damage ranging from moderate to heavy. Utility damage was listed at \$218,000. In the city of Washington twenty seven individuals sustained minor injuries requiring medical treatment. One person was hospitalized for treatment of injuries he received when his automobile was picked up and rolled over by the tornado.

In Johnson County twenty miles of power lines and poles were damaged, fifteen roads were closed due to debris and one bridge was destroyed. Six residences were destroyed, eight more sustained minor the major damage, and three farms were affected. Seventeen people were treated and released for injuries in Johnson County. In Cedar County moderate to heavy damage was reported to five different properties as the tornado destroyed a home, barns, grain bins, machine and hog sheds, a hog nursery and a chicken coop. Two persons near Downey suffered injuries requiring stitches when bricks and debris fell upon them while they were taking shelter in their basement.

Washington County Brighton	15	1627CST			0	0			Hail (1.50)
Jackson County 3 NW Maquoketa	15	1808CST			0	0			Hail (1.00)
Dubuque County Zwingle	15	1810CST 1820CST			0	0			Thunderstorm Wind (G61)
Muscatine County Conesville	19	1525CST			0	0			Hail (1.75)
Lee County Keokuk	20	0745CST			0	0			Hail (1.00)
Jefferson County Batavia	20	1043CST			0	0			Hail (1.00)
Van Buren County Utica	20	1108CST			0	0			Hail (1.50)
Strong thunderstorms with gusty wind, heavy rain, and large hail originated in Missouri and moved across portions of Southeast Iowa into West Central Illinois.									
Lee County Keokuk	20	0745CST			0	0			Hail (1.00)
Jefferson County Batavia	20	1043CST			0	0			Hail (1.00)
Van Buren County Utica	20	1108CST			0	0			Hail (1.50)
Strong thunderstorms with gusty wind, heavy rain, and large hail originated in Missouri and moved across portions of Southeast Iowa into West Central Illinois. Little damage was reported.									
Lee County Countywide	23 24	2337CST 0230CST			0	0			Urban/Sml Stream Fld
Heavy rain producing thunderstorms in Missouri moved across extreme Southeast Iowa into Western Illinois. There were numerous reports of water ponding along roadways and small hail. In Keokuk several intersections were closed due to the rising water.									
Buchanan County Fairbank	28	1713CST			0	0			Hail (0.75)
Buchanan County Aurora	28	1720CST 1724CST			0	0			Hail (1.75)
Buchanan County Lamont	28	1725CST			0	0			Hail (1.50)
Buchanan County Fairbank	28	1728CST 1730CST			0	0			Hail (1.75)
Benton County Mt Auburn to Garrison	28	1740CST 1742CST			0	0			Thunderstorm Wind (G52)
Benton County Newhall	28	1803CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, East Central and Southeast</u>									
Linn County 2 W Palo	28	1805CST	0.1	.5	0	0			Tornado (F0)
Linn County 3 NW Cedar Rapids Airpark	28	1812CST	0.1	.5	0	0			Tornado (F0)
Jones County Monticello	28	1822CST			0	0			Thunderstorm Wind (G50)
Dubuque County Dyersville	28	1825CST			0	0			Thunderstorm Wind (G56)
Dubuque County Worthington	28	1832CST	0.1	.5	0	0			Tornado (F0)
Jones County Anamosa to Onslow	28	1840CST			0	0	0.12K		Thunderstorm Wind
Dubuque County Cascade	28	1858CST			0	0			Hail (1.00)
Dubuque County Peosta	28	1858CST			0	0			Thunderstorm Wind (G52)
Jackson County Maquoketa	28	1901CST			0	0	0.20K		Thunderstorm Wind
Clinton County Grand Mound	28	1905CST			0	0			Thunderstorm Wind (G78)
Muscatine County Wilton	28	1916CST			0	0			Thunderstorm Wind (G52)
Severe thunderstorms blasted across Northeast Iowa causing widespread damage to trees, buildings and power lines. Most damage was due to strong wind gusts from 50 to 100 mph. The storms also produced three brief tornados in Linn and Dubuque counties. Near Onslow a semi-tractor rig was toppled by high winds. In Clinton county the Red Cross provided emergency shelter to a family from Lost Nation after a large tree fell through a window of their mobile home. In Vinton a fallen utility pole and electric transformer smashed a car. The city of Preston suffered heavy tree damage with many homes sustaining minor to moderate damage. West of Preston lightning struck a home and caused about \$10,000 to \$12,000 worth of smoke damage. In the Cedar Rapids area about 9,400 customers were without electrical service after power lines were downed by falling tree limbs. Near the Kirkwood Community College softball fields high winds picked up aluminum bleachers and pushed them through a backstop.									
<u>IOWA, Northeast</u>									
Mitchell County 2 N Carpenter	15	1613CST			0	0	10K		Thunderstorm Wind (G55)
Fayette County West Union	15	1730CST			0	0	16K	10K	Hail (1.75)
Winneshiek County Castalia	15	1755CST			0	0	23K		Thunderstorm Wind (G54)
Winneshiek County Frankville	15	1803CST			0	0	13K		Thunderstorm Wind (G52)
Allamakee County 3 N Waukon	15	1808CST			0	0	7K		Thunderstorm Wind (G53)
Winds of 60 to 65 mph downed trees, power lines and blew roofs off of a couple buildings.									
Floyd County Rockford	28	1520CST			0	0		25K	Hail (1.00)
Floyd County Floyd	28	1542CST			0	0	22K		Hail (1.00)
Chickasaw County 5 NE New Hampton	28	1553CST			0	0		30K	Hail (1.00)
Winneshiek County Calmar	28	1626CST			0	0			Hail (0.75)
Winneshiek County Spillville	28	1630CST			0	0		18K	Hail (0.75)
Winneshiek County Decorah	28	1640CST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Northeast</u>									
Winneshiek County Decorah	28	1645CST			0	0	27K		Hail (1.75)
Winneshiek County Decorah	28	1650CST			0	0		30K	Hail (1.00)
Winneshiek County 4 NE Decorah	28	1700CST			0	0		27K	Hail (1.00)
Winneshiek County 3 E Decorah	28	1715CST			0	0		30K	Hail (1.75)
Winneshiek County 3 E Decorah	28	1715CST			0	0		25K	Thunderstorm Wind (G54)
Allamakee County 5 N Waukon	28	1730CST			0	0			Hail (0.75)
Storm spotters and law enforcement officials reported hail the size of dimes, quarters and even golf balls. A funnel cloud was also sighted near Decorah.									
Howard County Florenceville to Cresco	30	2301CST			0	0	40K	35K	Thunderstorm Wind (G56)
Floyd County Floyd	30	2332CST			0	0	2K		Thunderstorm Wind (G53)
Winneshiek County 5 NE Decorah	30	2342CST			0	0	20K		Thunderstorm Wind (G56)
Chickasaw County Alta Vista	31	0010CST			0	0	35K	50K	Thunderstorm Wind (G57)
Fayette County 11 E Oelwein	31	0040CST			0	0	25K	17K	Thunderstorm Wind (G55)
Allamakee County Waukon	31	0045CST			0	0	85K		Thunderstorm Wind (G53)
Clayton County Strawberry Pt	31	0050CST			0	0	15K		Thunderstorm Wind (G57)
60 to 70 mph wind gusts associated with a fast moving line of severe thunderstorms knocked down trees and power lines. A machine shop near Waukon was heavily damaged.									
<u>IOWA, Northwest</u>									
Woodbury County Sioux City Arpt	11	2107CST			0	0			Thunderstorm Wind (G67)
Ida County Ida Grove	15	0934CST			0	0			Thunderstorm Wind (G61)
Woodbury County Salix	15	0936CST			0	0			Thunderstorm Wind (G52)
Woodbury County Sioux City Arpt	15	0942CST			0	0			Thunderstorm Wind (G59)
Woodbury County Correctionville	15	0944CST			0	0	10K		Thunderstorm Wind (G59)
Thunderstorm winds blew over a camper and overturned a semi trailer.									
Woodbury County Sioux City	15	0949CST			0	0			Thunderstorm Wind (G52)
Buena Vista County Storm Lake	15	0953CST			0	0			Thunderstorm Wind (G55)
Cherokee County Washta	15	1002CST			0	0			Thunderstorm Wind (G61)
Cherokee County Cherokee	15	1011CST			0	0	10K		Thunderstorm Wind (G61)
Thunderstorm winds blew over a semi trailer.									
Clay County Everly to Webb	15	1012CST 1025CST			0	0	20K		Thunderstorm Wind (G52)
Thunderstorm winds blew down numerous trees in Clay County.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Northwest									
Buena Vista County Sioux Rapids	15	1014CST			0	0			Thunderstorm Wind (G57)
Plymouth County Kingsley	15	1015CST			0	0	20K		Thunderstorm Wind (G52)
Thunderstorm winds blew down power lines and tree limbs.									
Sioux County Orange City Arpt	15	1018CST			0	0			Thunderstorm Wind (G52)
Sioux County Sioux Center	15	1023CST			0	0			Hail (0.75)
Sioux County Sioux Center	15	1023CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew tree limbs down.									
Sioux County 2 E Boyden	15	1025CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds flipped a semi trailer on its side.									
Sioux County 7 SW Rock Vly	15	1030CST	1	50	0	0	30K		Tornado (F0)
A tornado blew down trees and damaged a house.									
Buena Vista County Sioux Rapids	15	1230CST			0	0	10K		Lightning
Lightning started a house fire.									
Sioux County 3 W Ireton	15	1513CST	0.1	50	0	0			Tornado (F0)
A tornado touch down briefly but no damage was reported.									
Sioux County 5 W Sioux Center	15	1520CST	0.1	50	0	0			Tornado (F0)
A tornado touched down briefly but no damage was reported.									
O'Brien County Primghar to Paullina	18	1020CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds blew down trees, one of which knocked over a power pole and lines.									
Buena Vista County 3 W Albert City to 2 W Albert City	28	1425CST 1433CST	1	50	0	0			Tornado (F0)
A tornado observed by the county Sheriff caused no reported damage.									
Buena Vista County Marathon	28	1426CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Osceola County Melvin	28	1700CST			0	0			Hail (1.75)
O'Brien County Primghar	28	1710CST			0	0			Hail (1.00)
Clay County Spencer to Royal	28	1728CST 1739CST			0	0			Hail (2.50)
Hail fell over a large area but with only a few of the largest stones. Also, little wind with the hail limited property and crop damage.									
Cherokee County 8 S Marcus	28	1800CST			0	0			Hail (1.75)
Woodbury County Sioux City	28	1820CST			0	0	500K		Hail (1.75)
Woodbury County Sioux City	28	1910CST			0	0	100K		Hail (1.00)
Woodbury County Climbing Hill	28	1955CST 2015CST			0	0	1.4M	1M	Hail (1.75)
Widespread hail caused extensive damage to windows and crops, with other home damage also occurring.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Northwest</u>									
Plymouth County 3 S Le Mars	28	1830CST			0	0			Hail (2.50)
Ida County Galva	28	1832CST			0	0			Hail (1.75)
Clay County Spencer Arpt	28	1832CST			0	0			Hail (1.75)
Buena Vista County Alta	28	1834CST			0	0	50K		Hail (1.75)
Buena Vista County Storm Lake	28	1845CST			0	0	50K		Hail (1.75)
Buena Vista County Newell	28	1900CST			0	0	50K		Hail (1.75)
		Widespread hail damaged crops in Buena Vista County.							
Plymouth County 3 E Hinton	28	1855CST			0	0			Hail (0.75)
Woodbury County Sioux City Arpt	28	1905CST	0.1	50	0	0			Tornado (F0)
		A brief tornado caused no reported damage.							
Woodbury County Sioux City	30	0805CST			0	0			Hail (1.50)
Plymouth County 5 SW Hinton	30	0815CST			0	0			Hail (1.00)
Ida County 2 N Galva	30	1018CST			0	0			Hail (0.75)
Buena Vista County 8 SW Storm Lake	30	1030CST			0	0			Hail (1.75)
<u>IOWA, Southwest</u>									
Fremont County 5 E Hamburg	15	0800CST			0	0			Thunderstorm Wind (G73)
		Buildings destroyed. Large trees fell on playground equipment causing severe damage.							
Page County 1.5 WSW Shenandoah	15	0803CST			0	0			Thunderstorm Wind (G66)
		Barn along Highway 2 destroyed.							
Page County Shenandoah Muni Arpt	15	0803CST			0	0			Thunderstorm Wind (G68)
		Two hangers severely damaged. Airplane damaged.							
Fremont County 1 S Percival	15	0804CST			0	0			Funnel Cloud
Fremont County Imogene to 1.5 E Imogene	15	0805CST			0	0			Thunderstorm Wind (G68)
		Barn roof blown off and hit a car. Many power poles downed.							
Page County 7 N Shenandoah	15	0805CST			0	0			Thunderstorm Wind (G66)
		Barn destroyed. Pole shed damaged. Car damaged.							
Pottawattamie County 5 N Council Bluffs	15	0838CST			0	0			Thunderstorm Wind (G52)
Pottawattamie County 3 E Hancock	15	0840CST			0	0			Thunderstorm Wind (G70)
		Home severely damaged.							
Pottawattamie County Honey Creek	15	0841CST			0	0			Thunderstorm Wind (G61)
Harrison County Missouri Vly	15	0842CST			0	0			Thunderstorm Wind (G60)
		44 empty rail cars were blown from their tracks.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Southwest									
Pottawattamie County .5 S Loveland to .5 N Walnut	15	0855CST 0859CST			0	0			Thunderstorm Wind (G70)
			24 Semi trucks and other high profile vehicles were blown over on Interstate 80.						
Shelby County 1 SW Shelby	15	0900CST			0	0			Thunderstorm Wind (G68)
			Barns and sheds destroyed.						
Shelby County 4 SE Portsmouth	15	0905CST			0	0	100K		Thunderstorm Wind (G70)
			Large confinement building destroyed.						
Shelby County 3.5 SE Portsmouth	15	0905CST			0	0	120K		Thunderstorm Wind (G70)
			Two sheds destroyed.						
Shelby County 3 NE Portsmouth	15	0905CST			0	0	80K		Thunderstorm Wind (G70)
			Two grain bins destroyed.						
Shelby County 5 SW Elk Horn to 6 NW Elk Horn	15	0905CST 0911CST			0	0	100K		Thunderstorm Wind (G70)
			Cement shed, barn, and machine shed destroyed. Another machine shed was also damaged.						
Shelby County Harlan	15	0907CST			0	0	60K		Thunderstorm Wind (G70)
			Storage building destroyed.						
Shelby County 1.5 NW Harlan	15	0907CST			0	0	70K		Thunderstorm Wind (G70)
			Two walls at the landfill destroyed.						
Shelby County 2.5 SE Jacksonville	15	0908CST			0	0	20K		Thunderstorm Wind (G70)
			Machine shed destroyed.						
Shelby County 1.5 W Elk Horn	15	0908CST			0	0	20K		Thunderstorm Wind (G70)
			Machine shed destroyed.						
Shelby County 3.5 NW Kirkman	15	0910CST			0	0	20K		Thunderstorm Wind (G70)
			Shed destroyed.						
Shelby County 3 SW Earling	15	0911CST			0	0	25K		Thunderstorm Wind (G70)
			Machine shed destroyed.						
Shelby County 3 S Defiance	15	0912CST			0	0	45K		Thunderstorm Wind (G70)
			Shed and hog house destroyed.						
Shelby County 1 NE Kirkman	15	0913CST			0	0	20K		Thunderstorm Wind (G70)
			Chicken house roof and two shop doors destroyed.						
Monona County Onawa	15	0930CST			0	0			Thunderstorm Wind (G50)
Mills County Malvern	15	1354CST			0	0			Thunderstorm Wind (G62)
Pottawattamie County 1 N Minden	15	1409CST			0	0			Thunderstorm Wind (G62)
Harrison County Woodbine	15	1430CST			0	0			Thunderstorm Wind (G62)
			Grain bin destroyed						
Shelby County Irwin	15	1440CST			0	0			Thunderstorm Wind (G52)
Fremont County Riverton	19	0810CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Southwest									
Fremont County 8 S Farragut	19	0838CST			0	0			Hail (1.00)
Fremont County 9 S Farragut	19	0842CST			0	0			Hail (1.75)
Page County Northboro	19	0845CST			0	0			Hail (0.75)
Harrison County 3 NW Little Sioux	20	0238CST			0	0			Thunderstorm Wind (G56)
Monona County Turin	20	0245CST			0	0			Thunderstorm Wind (G52)
Shelby County Harlan	20	0300CST			0	0			Thunderstorm Wind (G56)
		Large tree limbs downed.							
Harrison County 3 N Little Sioux	21	1840CST			0	0			Thunderstorm Wind (G61)
Harrison County 1 W Little Sioux to 1 S Little Sioux	21	1846CST 1854CST			0	0			Thunderstorm Wind (G61)
Harrison County 1 W Little Sioux	21	1846CST			0	0			Funnel Cloud
Monona County 2 S Blencoe	21	1854CST			0	0			Hail (0.75)
Harrison County 2 S Magnolia to Woodbine	21	1901CST 1910CST			0	0			Thunderstorm Wind (G56)
		Trees downed.							
Harrison County Woodbine	21	1906CST			0	0			Hail (0.75)
Harrison County 4 NE Logan	21	1910CST			0	0			Hail (0.75)
Harrison County Woodbine	21	1910CST			0	0			Thunderstorm Wind (G61)
		Many tree limbs downed.							
Harrison County 2 E Magnolia	21	1920CST			0	0			Thunderstorm Wind (G70)
		Trees uprooted and power lines downed.							
Monona County Castana	21	1930CST 1931CST	0.2	50	0	0			Tornado (F0)
Shelby County Harlan	21	1945CST			0	0			Thunderstorm Wind (G61)
		Roof blown off a building.							
Shelby County Shelby	21	1949CST			0	0			Funnel Cloud
Fremont County Shenandoah	22	0125CST			0	0	2K		Thunderstorm Wind
		Tree branches downed onto power lines.							
Shelby County Panama	23	1655CST			0	0			Hail (0.75)
Shelby County Irwin	23	1730CST			0	0			Hail (1.75)
Pottawattamie County Crescent	24	1832CST			0	0			Hail (1.00)
Pottawattamie County 2 W Crescent	24	1834CST			0	0			Hail (0.75)
Pottawattamie County 2 W Crescent	24	1834CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Southwest</u>									
Pottawattamie County 1.3 N Crescent	24	1938CST			0	0			Hail (0.75)
Pottawattamie County Council Bluffs	24	1956CST			0	0			Hail (0.75)
			At the Lewis and Clark monument						
Monona County Mapleton	28	2011CST			0	0			Hail (1.75)
Monona County Blencoe	28	2112CST			0	0			Hail (1.75)
Monona County 1 S Blencoe	28	2129CST			0	0			Thunderstorm Wind (G54)
			Trees downed.						
Monona County 1 S Blencoe	28	2129CST			0	0			Hail (0.75)
Harrison County Logan	28	2214CST			0	0			Hail (0.75)
Pottawattamie County 8 SE Council Bluffs	29	0025CST			0	0			Hail (0.75)
Mills County Glenwood	29	0115CST			0	0			Thunderstorm Wind (G52)
<u>KANSAS, East</u>									
Clay County 4 E Longford	06	2110CST			0	0			Hail (1.00)
Cloud County 3 NW Macyville	11	1935CST			0	0			Hail (1.50)
Ottawa County Culver	11	2015CST			0	0			Hail (0.75)
Cloud County Concordia	11	2015CST			0	0			Hail (0.75)
Osage County 1 S Scranton	11	2345CST			0	0			Thunderstorm Wind (G56)
			A strong wind gust blew out a window on a house.						
Lyon County 1 E Plymouth	12	0032CST			0	0			Hail (0.75)
KSZ008	15	0100CST 0300CST			0	0			High Wind (G50)
			A period of high winds not directly associated with thunderstorms knocked down several trees and large tree limbs, as well as numerous power lines in Norway, Courtland, Belleville and Scandia.						
Morris County Delavan	15	0605CST			0	0			Thunderstorm Wind (G56)
Lyon County Emporia	15	0606CST			0	0	3K		Thunderstorm Wind
			Strong winds downed numerous large limbs onto power lines and several vehicles.						
Lyon County Emporia Arpt	15	0607CST			0	0			Thunderstorm Wind (G55)
Lyon County 15 N Emporia	15	0608CST			0	0			Thunderstorm Wind (G56)
Morris County 5 W Council Grove	15	0610CST			0	0			Thunderstorm Wind (G52)
Wabaunsee County Alta Vista	15	0620CST			0	0			Thunderstorm Wind (G57)
			Strong winds broke 8 to 10 inch tree limbs.						
Morris County Council Grove	15	0620CST			0	0			Thunderstorm Wind (G57)
			Strong winds knocked down large tree limbs and several utility poles.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Morris County 5 N Council Grove	15	0622CST			0	0	30K		Thunderstorm Wind
									Strong winds tore a large section of the roof off two houses and ripped the entire roof off of a storage shed. The winds also downed several large trees.
Morris County Dunlap	15	0630CST			0	0			Thunderstorm Wind (G52)
									Strong winds downed several large limbs.
Geary County Junction City	15	0635CST			0	0			Thunderstorm Wind (G50)
									Strong winds knocked down power lines.
Shawnee County Auburn	15	0640CST			0	0			Thunderstorm Wind (G52)
Pottawatomie County 1 W Westmoreland	15	0645CST			0	0			Thunderstorm Wind (G52)
Pottawatomie County Wamego	15	0645CST			0	0			Thunderstorm Wind (G50)
									Strong winds knocked down one utility pole and several large trees.
Pottawatomie County St George	15	0645CST			0	0	9K		Thunderstorm Wind
									Strong winds damaged three trailer homes in addition to downing power lines and several large trees.
Riley County Zeandale	15	0645CST			0	2	25K		Thunderstorm Wind
									Strong winds overturned and destroyed a mobile home, injuring two people.
Shawnee County Topeka	15	0645CST			0	0			Thunderstorm Wind (G52)
									Strong winds knocked down 8 utility poles along 29th street in the southwest part of town.
Pottawatomie County 5 N Wamego	15	0650CST			0	0	5K		Thunderstorm Wind
									Strong winds destroyed a large hog shed.
Riley County 3 S Randolph	15	0650CST			0	0			Thunderstorm Wind (G61)
									A large truck was overturned by strong winds.
Pottawatomie County 3 W Olsburg	15	0650CST			0	0	60K		Thunderstorm Wind
									Strong winds toppled a 60 foot silo onto several pieces of farm machinery including a tractor and pick-up truck. The winds also tore the roof off two metal sheds and knocked down large tree limbs.
Pottawatomie County 5 W Olsburg	15	0650CST			0	0			Lightning
									Lightning struck a house and caused a small fire. No major damage occurred.
Shawnee County Topeka	15	0653CST			0	0	3K		Thunderstorm Wind
									Strong wind downed several large limbs, one of which punch a small hole in the roof of a house and smashed the windshield on an adjacent car.
Marshall County Lillis	15	0656CST			0	0	1K		Thunderstorm Wind
									Strong winds knocked down a small shed.
Jefferson County 1 W Meriden	15	0658CST			0	0			Thunderstorm Wind (G52)
									Strong winds downed several large trees.
Pottawatomie County Olsburg	15	0705CST			0	0	2K		Thunderstorm Wind
									Strong winds flattened two small sheds and knocked down a large tree.
Pottawatomie County Wheaton	15	0705CST			0	0	8K		Thunderstorm Wind
									Strong winds destroyed three small sheds and one large barn.
Jackson County Hoyt	15	0705CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Marshall County 4 SW Waterville	15	0708CST			0	0	4K		Thunderstorm Wind
	Two sheds and several large tree limbs were knocked down by strong wind gusts.								
Marshall County 1 W Blue Rapids	15	0708CST			0	0	10K		Thunderstorm Wind
	Strong winds tore a small section of the roof off one house and shattered windows on another. The winds also destroyed two hay barns and down numerous large tree limbs and several large trees.								
Nemaha County Corning	15	0708CST			0	0			Thunderstorm Wind (G50)
	Strong winds downed large tree limbs.								
Jackson County Mayetta	15	0710CST			0	0	2K		Thunderstorm Wind
	Strong winds damaged a barn.								
Jackson County Denison	15	0710CST			0	0			Thunderstorm Wind (G55)
	Strong winds knocked down several large trees.								
Marshall County 1 N Marysville	15	0710CST			0	0			Thunderstorm Wind (G52)
Marshall County Marysville	15	0712CST			0	0	82K		Thunderstorm Wind
	Strong winds tore all or most of the roof off a house, a mobile home, and two businesses. An automobile shop also lost a wall and two bay doors. Windows were shattered on many other homes and businesses. Numerous large trees and tree limbs were knocked down as well. The strong winds downed 14 utility poles extending from just north of Marysville to near Blue Rapids.								
Marshall County 9 N Marysville	15	0714CST			0	0	1K		Thunderstorm Wind
	Strong winds rolled over a camper.								
Jackson County 1 NW Netawaka	15	0715CST			0	0			Thunderstorm Wind (G55)
	Utility poles were knocked down at the intersection of Kansas road K9 and US Highway 75.								
Nemaha County Centralia	15	0715CST			0	0	1K		Thunderstorm Wind
	Strong winds downed large trees and damaged several small sheds.								
Marshall County Marysville	15	0719CST			0	0			Thunderstorm Wind (G52)
	Large tree limbs were knocked down by strong winds.								
Nemaha County Sabetha	15	0720CST			0	0	2K		Thunderstorm Wind
	Strong winds damaged the roof of a building and downed several large trees.								
Brown County Hiawatha	15	0720CST			0	0			Thunderstorm Wind (G50)
	Several utility poles were snapped in half.								
Brown County Padonia	15	0745CST			0	0			Thunderstorm Wind (G50)
	Strong winds downed power lines.								
Ottawa County Minneapolis	18	2155CST			0	0			Thunderstorm Wind (G56)
	Strong winds downed power lines, several large trees, and numerous large tree limbs.								
Dickinson County Moonlight	19	0024CST			0	0			Thunderstorm Wind (G56)
KSZ035-037-054	Dickinson - Morris - Lyon								
	19	0300CST			0	1	22K		High Wind (G56)
		0700CST							

An extended period of strong winds from collapsing thunderstorms downed trees and utility poles, especially in Lyon County. In Emporia storage sheds of several businesses were damaged or destroyed, the sales office of a business was damaged and windows of a car were shattered when a 30 foot section of an awning from a mall was thrown into it. A strong wind gust overturned two semi-trailer trucks, injuring one of the drivers. Law enforcement also reported that several other more minor accidents also occurred along the Kansas Turnpike as a result of the winds. Wind gusts of 60 mph were reported in Diamond Springs, Wilsey, and

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, East</u>									
Herington.									
Pottawatomie County 2 N Flush	20	1710CST			0	0			Hail (1.75)
Pottawatomie County 3 N Flush	20	1735CST			0	0	1K		Hail (3.50)
Hail ranging from golf ball to between baseball and softball size shattered the windshields of several vehicles.									
Jackson County 2 NE Delia	20	1740CST			0	0			Hail (0.75)
Pottawatomie County Westmoreland	20	1750CST			0	0			Hail (1.75)
Anderson County 1 W Harris	24	1956CST			0	0			Hail (0.75)
Nemaha County 2 SW Woodlawn	29	0250CST			0	0			Hail (1.00)
Osage County 1 SW Scranton	29	0410CST			0	0			Hail (1.00)
Osage County 3 SE Overbrook	29	0435CST			0	0			Hail (0.75)
Franklin County 1 SW Rantoul	29	0450CST			0	0			Hail (1.00)

KANSAS, Extreme Southeast

NONE REPORTED.

KANSAS, North Central

Mitchell County 2 W Beloit	06	1928CST			0	0	0	100K	Hail (0.75)
A severe thunderstorm west of Beloit produced hail that knocked down a wheat field.									
Mitchell County Beloit	11	1902CST			0	0	50K	100K	Hail (0.75)
Mitchell County 6 S Beloit	11	1920CST			0	0	25K	500K	Hail (1.75)
Thunderstorms rumbled across parts of north-central Kansas during the evening hours. Storms dropped hail in the Beloit area.									
Mitchell County Beloit	15	0030CST			0	0	10K	0	Thunderstorm Wind (G55)
Mitchell County Glen Elder	15	0045CST			0	0	15K	0	Thunderstorm Wind (G65)
Osborne County Osborne	15	0058CST			0	0	5K	0	Thunderstorm Wind (G52)
Smith County Smith Center	15	0115CST			0	0	45K	0	Thunderstorm Wind (G60)
Overnight thunderstorms produced high winds across parts of north-central Kansas. Smith Center reported tree damage, power lines down and some roof and small building damage. At Waconda Lake, a roof near the marina was damaged while a window was pulled from a home near Glen Elder.									
Smith County Smith Center	15	0916CST			0	0	10K	0	Thunderstorm Wind (G50)
Smith County Smith Center	28	2357CST			0	0	0	0	Hail (0.75)

KANSAS, Northeast

Atchison County Arrington to Muscotah	15	0728CST			0	0			Thunderstorm Wind (G65)
Severe thunderstorm winds gusted to 65 MPH at Arrington. Strong winds from the same severe thunderstorm damaged the roof of a building in Muscotah.									
Doniphan County Highland	15	0730CST			0	0			Thunderstorm Wind (G60)
Highland City Hall reported large tree limbs blown down in Highland as a result of severe thunderstorm winds.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Northeast</u>									
Miami County Beagle	29	0513CST			0	0			Hail (0.75)
									The same severe thunderstorm that produced the 65 MPH wind gust at Beagle also produced dime-size hail..
Miami County Beagle	29	0513CST			0	0			Thunderstorm Wind (G65)
									The Miami County Sheriff's office reported a 65 MPH wind gust at Beagle during a severe thunderstorm.
<u>KANSAS, Northwest</u>									
Sheridan County 5 W Hoxie	04	1910CST			0	0			Hail (0.75)
Thomas County 4 N Colby	04	1915CST			0	0			Hail (1.75)
									Dime to golfball hail reported.
Sheridan County 5 W Hoxie	04	1925CST			0	0			Hail (0.75)
Thomas County 4 NNE Colby	04	1930CST 1940CST			0	0			Hail (0.75)
Thomas County 1.5 SW Halford	04	2020CST			0	0			Hail (0.75)
Sherman County 2 S Goodland	04	2030MST			0	0			Thunderstorm Wind (G51)
									Reported by Goodland CATV. Also, tree branches 3 to 4 inches in diameter downed 1E of Goodland at 2030 MST.
Sheridan County 5 ESE Angelus	04	2120CST			0	0			Hail (1.00)
									Nickel to quarter size hail also reported 6ESE of Angelus at 2124 CST.
Wallace County 8 N Weskan	05	1920MST			0	0			Hail (0.75)
Logan County 8.5 WSW Winona	06	1430CST			0	0	1.5K		Hail (0.88)
									Hail dented pickup and damaged wheat.
Logan County Page City	06	1450CST			0	0			Funnel Cloud
Wichita County 4 E Marienthal	06	1618CST			0	0			Hail (0.88)
Greeley County 4 S Tribune	11	1520MST			0	0			Hail (1.00)
									One inch diameter hail also reported 5S of Tribune at 1520 CST.
Wichita County 3.5 SE Selkirk	11	1632CST			0	0			Hail (1.50)
Wichita County Leoti	11	1641CST			0	0			Hail (0.75)
Greeley County 12 SW Tribune	18	1530MST			0	0			Thunderstorm Wind (G52)
									Spotter estimated 60 mph gust.
Graham County 12 SSE Hill City	21	1630CST			0	0			Thunderstorm Wind (G52)
									Spotter estimated thunderstorm wind gust to 60 mph.
Cheyenne County 17 NE St Francis	22	1842CST			0	0			Hail (1.00)
Sherman County 17 NE Goodland Arpt	22	1850MST	0.2	30	0	0			Tornado (F0)
									Brief tornado observed by NWS personnel.
Cheyenne County 15 NW St Francis	22	1853CST			0	0			Hail (1.75)
Cheyenne County 9 N St Francis	22	1909CST			0	0			Hail (3.00)
									One inch diameter hail reported at 1905 CST.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
KANSAS, Northwest									
Cheyenne County 16 NW St Francis	22	1911CST			0	0	50K		Hail (2.75)
									Hail damaged several vehicles and buildings.
Cheyenne County 10 N Bird City	22	1930CST			0	0			Hail (1.50)
Cheyenne County St Francis	22	1936CST			0	0			Hail (0.75)
Cheyenne County St Francis	22	1936CST			0	0			Thunderstorm Wind (G52)
Cheyenne County 15 SE St Francis	22	1940CST			0	0			Thunderstorm Wind (G52)
									Brief gustnado observed by NWS personnel.
Rawlins County 3 S Mc Donald	22	1956CST	0.2	30	0	0			Tornado (F0)
									Brief tornado observed by NWS employee.
Rawlins County 7 NW Atwood	22	2005CST 2010CST			0	0			Hail (2.50)
Rawlins County 10 S Mc Donald	22	2007CST			0	0			Hail (1.25)
Rawlins County 7 SW Atwood	22	2015CST			0	0			Hail (1.00)
Rawlins County 2 S Atwood	22	2020CST			0	0			Hail (1.00)
Thomas County 5 N Colby	22	2042CST			0	0			Hail (0.88)
									Dime sized hail reported 8N of Colby at 2040 CST.
Thomas County 4 ENE Colby	22	2050CST			0	0			Funnel Cloud
Thomas County 2 E Colby	22	2057CST			0	0			Hail (1.00)
									Nickel sized hail reported 4E of Colby at 2100 CST.
Decatur County Cedar Bluffs	22	2106CST			0	0			Thunderstorm Wind (G78)
									Spotter estimated 90 mph wind gust.
Sheridan County 7 N Hoxie	22	2132CST			0	0			Hail (1.75)
									Also, quarter sized hail observed at 8N Hoxie.
Sheridan County Selden	22	2132CST			0	0			Hail (0.75)
Decatur County Norcatour	22	2152CST			0	0			Hail (1.00)
									Dime hail at 2149 CST.
Graham County 3 N Hill City	22	2200CST			0	0			Hail (1.00)
Sheridan County 6 N Tasco	22	2202CST			0	0			Hail (1.00)
Norton County 2 W Dellvale	22	2208CST			0	0			Hail (1.75)
Norton County Clayton	22	2210CST			0	0			Hail (1.50)
Graham County 5 N Penokee	22	2212CST			0	0			Hail (1.75)
Sheridan County 15 NE Hoxie	22	2212CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Northwest									
Graham County 3 N Hill City	22	2225CST			0	0			Hail (1.00)
Graham County 9 E Hill City	22	2235CST			0	0			Hail (0.75)
Sherman County 8 NE Goodland	23	1355MST			0	0			Hail (0.75)
Logan County Oakley	23	1605CST			0	0			Hail (1.75)
		Golfball hail started at 1558 CST.							
Gove County 3 W Campus	23	1610CST			0	0			Hail (1.75)
		Hailed from 1605 to 1615 CST.							
Sherman County 1 NW Ruleton	24	0917MST			0	0			Hail (0.75)
Sherman County 15 SW Goodland	24	0928MST			0	0			Hail (0.75)
		Also, 0.90 inch of rainfall in 30 minutes.							
Sherman County 5 S Goodland	24	0933MST			0	0			Hail (0.88)
Wallace County 17 NNE Wallace	24	1030MST			0	0			Hail (0.75)
Sherman County 15 SSE Goodland	24	1035MST			0	0			Hail (0.75)
Thomas County 10 S Levant	24	1130CST			0	0			Hail (1.00)
Logan County 3 SW Page City	24	1230CST 1254CST			0	0			Hail (1.75)
		Hail accumulated to 5 inches deep.							
Thomas County 16 SSW Colby	24	1230CST			0	0			Hail (0.75)
Logan County 3 S Winona	24	1235CST			0	0			Hail (1.75)
		Dime sized hail reported at Winona at 1224 CST.							
Logan County 10 S Oakley	24	1330CST			0	0			Hail (0.88)
Gove County 17 SW Gove	24	1348CST			0	0	10K		Hail (3.00)
		Destroyed satellite dish and numerous windows and crops							
Gove County 11 S Gove	24	1415CST			0	0	5K		Hail (2.50)
		Broken windows							
Gove County 13 S Gove	24	1422CST			0	0			Thunderstorm Wind (G52)
		Wind accompanied by nickel sized hail.							
Gove County 13 SSE Gove	24	1430CST			0	0			Hail (2.50)
Gove County 15 S Quinter	24	1440CST			0	0			Hail (1.75)
Sherman County 2 S Goodland	24	1725MST	0.2	20	0	0			Tornado (F0)
		Brief tornado reported by public.							
Cheyenne County 12 WSW St Francis	28	2015CST			0	0			Hail (0.88)
Cheyenne County 8.5 S St Francis	28	2030CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Lincoln County 3 NW Sylvan Grove	06	1920CST			0	0			Hail (1.75)
Russell County 2 E Lucas	06	1920CST			0	0			Hail (1.75)
Russell County 5 S Dorrance	11	1745CST			0	0			Hail (1.75)
Russell County 5 S Dorrance	11	1753CST			0	0			Hail (1.00)
Ellsworth County 9 NW Ellsworth	11	1811CST	1	100	0	0			Tornado (F0)
Ellsworth County 7 N Ellsworth	11	1840CST			0	0			Hail (1.75)
Ellsworth County 10 N Ellsworth	11	1848CST			0	0			Hail (1.75)
Ellsworth County 10 W Ellsworth	11	1904CST			0	0	10K		Hail (1.75)
									Windows broken in an area near Wilson.
Ellsworth County 10 W Ellsworth	11	1904CST			0	0			Thunderstorm Wind (G56)
Ellsworth County Ellsworth	11	1907CST			0	0			Hail (1.75)
Ellsworth County Ellsworth	11	1907CST			0	0	100K		Thunderstorm Wind (G65)
									Hospital, under construction, sustained extensive damage when 750 feet of metal frame was blown down.
Ellsworth County 2 S Ellsworth to Kanopolis	11	1914CST 1920CST	5	200	0	0	10K		Tornado (F1)
									Extensive damage to farm outbuildings, trucks and a camper.
Lincoln County 4 E Lincoln	11	1915CST			0	0			Hail (0.75)
Ellsworth County Lorraine	11	1934CST			0	0			Hail (0.75)
Rice County 8 NW Lyons	11	1947CST			0	0			Hail (1.00)
Ellsworth County 10 SE Lorraine	11	1949CST			0	0			Hail (0.75)
Rice County 4 N Lyons	11	2005CST			0	0			Hail (0.75)
Saline County Assaria	11	2027CST			0	0			Hail (1.75)
Saline County Salina	11	2030CST			0	0	15K		Thunderstorm Wind (G56)
									Severe thunderstorm winds blew a tree onto a car.
Mcperson County Mc Pherson	11	2037CST			0	0			Hail (0.88)
Mcperson County 4 NE Mc Pherson	11	2048CST	1	100	0	0			Tornado (F0)
Mcperson County 6 W Mc Pherson	11	2058CST			0	0			Hail (1.75)
Mcperson County 5 NE Inman	11	2119CST			0	0			Hail (1.75)
Marion County 4 W Durham	11	2134CST			0	0			Hail (1.00)
Mcperson County 2 S Galva	11	2153CST	1	100	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Marion County 2 W Hillsboro	11	2217CST			0	0			Hail (1.00)
Harvey County Hesston	11	2229CST			0	0			Hail (1.75)
Harvey County 3 W Hesston	11	2230CST			0	0			Hail (1.00)
Marion County 1 N Goessel	11	2236CST			0	0			Hail (1.75)
Harvey County 3 W Hesston	11	2317CST			0	0			Hail (1.75)
Marion County Florence	11	2336CST			0	0			Hail (0.75)
Chase County Cottonwood Falls	12	0006CST			0	0			Hail (0.75)
Barton County 4 NE Great Bend	14	2327CST 2359CST			0	0			Thunderstorm Wind (G52)
Barton County 6 NE Great Bend	14	2332CST 2359CST			0	0			Thunderstorm Wind (G58)
Barton County 3 N Albert	14	2336CST 2359CST			0	0			Thunderstorm Wind (G52)
Rice County Alden	14	2339CST			0	0			Thunderstorm Wind (G65)
Ellsworth County 9 SE Lorraine	14	2341CST			0	0			Thunderstorm Wind (G61)
Barton County 3 N Albert	14	2347CST 2359CST			0	0			Thunderstorm Wind (G61)
Russell County Russell	14	2353CST			0	0			Thunderstorm Wind (G52)
Barton County Great Bend	14	2359CST			0	0	50K		Thunderstorm Wind (G61) Store-front windows blown out of several businesses, uprooted a large tree, toppled over a light standard at an athletic field.
Rice County Bushton	14	2359CST			0	0			Thunderstorm Wind (G65) Large tree limbs downed including some trees completely uprooted.
Lincoln County Sylvan Grove	15	0001CST			0	0			Thunderstorm Wind (G65) Large tree limbs downed.
Russell County Russell	15	0010CST			0	0			Thunderstorm Wind (G58) Wind gust measured by KSN weatherlab.
Lincoln County Lincoln	15	0015CST			0	0	50K		Thunderstorm Wind (G65) Widespread tree damage, including a large tree falling onto a truck. Roofs were damaged to several businesses including one restaurant.
Russell County Lucas	15	0015CST			0	0	20K		Thunderstorm Wind (G65) Two 1,000 bushel grain bins destroyed with small sheds and stock tanks damaged. Widespread tree damage, including a large tree falling onto a mobile home as well as numerous power poles and power lines blown down.
Sedgwick County Clearwater	15	0410CST			0	0	50K		Thunderstorm Wind (G52) Several farm buildings damaged as well as a large scoreboard blown over at a sports complex. A few homes sustained damage from falling trees.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Harper County Harper	15	0443CST			0	0	10K		Thunderstorm Wind (G56)
									Machine shed blown over. Numerous trees downed.
Sumner County Belle Plaine	15	0450CST			0	0	10K		Thunderstorm Wind (G61)
									Widespread tree damage, including a large tree that fell onto a car and totaled a storage shed.
Sedgwick County Clearwater	15	0451CST			0	0			Thunderstorm Wind (G57)
Sumner County 5 NE Ashton	15	0455CST			0	0			Thunderstorm Wind (G61)
Cowley County 7 NW Winfield	15	0500CST			0	0	100K		Thunderstorm Wind (G61)
									Substantial damage to homes, a hospital, temporary storage structures, campers and vehicles. Widespread tree damage and downed power lines. Damage also occurred at nearby Strother Field and at Rock where nine steel bins were damaged with one blown over.
Sumner County Wellington	15	0500CST			0	0	5K		Thunderstorm Wind (G61)
									Large tree blown over, downing power lines and landing onto the roof of a neighbor's garage and pulling the electric meter from the house.
Sedgwick County Wichita	15	0502CST			0	0	50K		Thunderstorm Wind (G61)
									Observed at Mid-Continent Airport. In addition, 3 miles north of the airport an empty tractor-trailer was flipped over. Widespread tree damage, downed power lines and power poles resulted in prolonged power outages.
Sedgwick County Clearwater	15	0503CST			0	0			Hail (1.00)
Sedgwick County Wichita	15	0503CST			0	0			Thunderstorm Wind (G74)
									Winds reported at 44th St. S and Seneca.
Butler County Douglass	15	0511CST			0	0			Thunderstorm Wind (G52)
Sedgwick County Wichita	15	0512CST			0	0			Thunderstorm Wind (G52)
									Occurred downtown.
Harvey County Halstead	15	0520CST			0	0			Thunderstorm Wind (G58)
Sedgwick County Park City	15	0520CST			0	0			Thunderstorm Wind (G61)
Butler County Augusta	15	0521CST			0	0			Thunderstorm Wind (G52)
Butler County Rose Hill	15	0521CST			0	0			Thunderstorm Wind (G52)
Harvey County Newton	15	0524CST			0	0	50K		Thunderstorm Wind (G61)
									Motel sustained roof damage with several local businesses sustaining sign and awning damage. Numerous trees blown down, including a few falling onto cars and homes as well as power lines.
Butler County Towanda	15	0529CST			0	0			Thunderstorm Wind (G61)
Butler County Augusta	15	0530CST			0	0	20K		Thunderstorm Wind (G61)
									Widespread tree damage, numerous power lines downed, two barns blown away, and a mobile home lost part of it's roof.
Butler County El Dorado	15	0530CST			0	0	20K		Thunderstorm Wind (G61)
									Widespread damage to trees, power lines and mobile homes.
Butler County 10 N El Dorado	15	0530CST			0	0			Thunderstorm Wind (G61)
Butler County Cassoday	15	0540CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Chase County Cedar Pt	15	0540CST			0	0	10K		Thunderstorm Wind (G56)
			Two-foot diameter tree uprooted. Garage damaged.						
Marion County Marion	15	0600CST			0	0	100K		Thunderstorm Wind (G74)
			Minor damage sustained to boats and docks at Glen Elder Lake Marina, widespread tree damage, power lines downed.						
Chase County 2 SE Cottonwood Falls	15	0602CST			0	0	10K		Thunderstorm Wind (G56)
			Shed blown down. Tree damage.						
Chase County 20 NE Cottonwood Falls	15	0612CST			0	0	10K		Thunderstorm Wind (G56)
			One-two foot diameter tree limbs broken off and doors blown off barns.						
Chase County 1 NE Elmdale	15	0612CST			0	0	100K		Thunderstorm Wind (G56)
			Widespread tree damage, including several trees that fell onto houses. One car was lifted off a highway but driver was unharmed.						
Marion County Peabody	15	0615CST			0	0	20K		Thunderstorm Wind (G61)
			Widespread tree damage and a windmill blown over.						
Montgomery County 10 SE Independence	15	0707CST			0	0			Hail (0.75)
Montgomery County 3 S Bolton	15	0709CST			0	0			Hail (0.75)
Neosho County Thayer	15	0805CST			0	0			Hail (0.88)
Ellsworth County Ellsworth	15	2330CST			0	0	6.3K		Thunderstorm Wind (G61)
			The remaining 50 feet of the metal frame of a hospital under construction were blown down. (This was the same hospital that sustained extensive damage from the severe thunderstorm event of 05/11/98.)						
KSZ049-052			Saline - Marion						
	18	1045CST			0	0	75K		High Wind (G55)
	19	0245CST							
			Extensive outflow from dissipating thunderstorms in Lincoln and Ellsworth counties produced damaging winds in Salina that uprooted trees and blew out a plate glass window at a car dealership. One truck and three cars sustained damage at the dealership from broken glass.						
Chase County Cedar Pt	18	1050CST			0	0			Hail (0.75)
Ellsworth County 8 S Wilson	18	2010CST			0	0			Thunderstorm Wind (G52)
Barton County 3 N Albert	18	2018CST			0	0			Thunderstorm Wind (G52)
Barton County 3 N Albert	18	2024CST			0	0			Hail (0.75)
Barton County 3 N Albert	18	2024CST			0	0			Thunderstorm Wind (G56)
Barton County 6 S Great Bend	18	2033CST			0	0			Thunderstorm Wind (G52)
Lincoln County 9 N Lincoln	18	2124CST			0	0			Thunderstorm Wind (G52)
Saline County Salina	18	2145CST			0	0			Thunderstorm Wind (G52)
Barton County Galatia to Odin	24	1612CST			0	0	300K	4M	Hail (1.75)
			A 4-mile wide swath of hail ranging from marble to golfball-sized stretched from Galatia to Odin. Wheat planted in this area was a total loss.						
Russell County 7 S Gorham	24	1650CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Sedgwick County Viola	24	1717CST			0	0			Hail (1.00)
Ellsworth County Holyrood	24	1745CST			0	0	250K		Hail (1.00)
Kingman County 1 SW Adams	24	1747CST			0	0			Hail (2.75)
Reno County Arlington	24	1748CST			0	0	40K	750K	Hail (1.00)
Kingman County Norwich	24	1750CST			0	0		1.8M	Hail (0.75)
Harper County Waldron	24	1753CST 1755CST			0	0			Hail (2.00)
		Hail ranged from 1.75-2.00 inches.							
Ellsworth County 2 S Wilson	24	1800CST			0	0			Hail (2.75)
Harper County 4 E Waldron	24	1810CST	1	50	0	0	25K		Tornado (F0)
		Power poles damaged 4 miles east of Waldron.							
Reno County 5 SW Hutchinson	24	1817CST			0	0			Hail (0.75)
Kingman County 8 W Kingman	24	1819CST			0	0			Hail (1.75)
Sumner County 5 E Belle Plaine	24	1819CST			0	0			Hail (1.75)
Kingman County Penalosa	24	1820CST			0	0			Hail (1.75)
Kingman County Kingman	24	1825CST			0	0			Hail (1.75)
Sumner County Oxford	24	1830CST	1	50	0	0			Tornado (F0)
Kingman County 4 N Norwich	24	1835CST			0	0			Hail (1.00)
Cowley County 6 S Udall	24	1839CST	1	50	0	0			Tornado (F0)
Mcperson County Lindsborg	24	1845CST			0	0			Hail (0.75)
Chautauqua County Peru	24	1850CST			0	0			Hail (1.75)
Kingman County 2 NW Norwich	24	1858CST			0	0			Hail (2.00)
Cowley County 6 W Winfield to 2 W Winfield	24	1901CST 1903CST	4	100	0	0			Tornado (F0)
		Discontinuous track.							
Kingman County Norwich	24	1903CST			0	0			Hail (1.75)
Sedgwick County 5 W Viola	24	1907CST			0	0			Hail (1.75)
Sumner County 2 N Milton	24	1907CST			0	0			Hail (1.75)
Montgomery County Wayside	24	1931CST			0	0			Hail (1.00)
Montgomery County Havana	24	1940CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Cowley County 7 E Arkansas City	24	1945CST	1	50	0	0			Tornado (F0)
Sumner County Oxford	24	1947CST			0	0			Hail (4.00)
Harper County Corwin	24	1955CST			0	0			Hail (2.50)
Harper County 2 E Crisfield	24	1955CST			0	0			Hail (1.00)
Montgomery County Dearing	24	2003CST			0	0			Hail (1.00)
Montgomery County Tyro	24	2010CST			0	0			Hail (2.00)
Cowley County Maple City	24	2029CST			0	0			Hail (1.00)
Harper County 3 E Crisfield	24	2043CST			0	0			Hail (0.88)
<u>KANSAS, Southwest</u>									
Stanton County 10 WSW Johnson	03	1601CST			0	0			Hail (0.88)
Stanton County Manter	03	1617CST			0	0			Hail (0.88)
Stanton County 4 S Big Bow	03	1630CST			0	0			Hail (1.25)
Stanton County 4 S Big Bow	03	1632CST			0	0			Hail (0.88)
Stanton County 10 N Manter	03	1640CST			0	0			Hail (0.88)
Grant County 7 SW Ulysses	03	1642CST			0	0			Hail (1.00)
Trego County 3 W Wakeeney	04	2246CST			0	0			Hail (0.75)
Trego County 16 SE Wakeeney	04	2330CST			0	0			Hail (1.50)
Clark County 17 SE Ashland	05	0130CST			0	0			Hail (0.75)
Clark County Ashland	05	0130CST			0	0			Hail (0.75)
Comanche County 3 N Coldwater	05	0130CST			0	0	5K		Thunderstorm Wind
			Ten power poles snapped 6 feet above the ground.						
Clark County 7 E Ashland	05	0145CST			0	0			Thunderstorm Wind (G65)
Ford County 12 W Bloom	05	0240CST			0	0			Hail (0.88)
			Covered the ground and was still evident 5 hours later.						
Gray County 3 W Ensign	05	0240CST			0	0			Hail (0.75)
Clark County Minneola	05	0245CST			0	0			Hail (0.75)
Morton County 12 NW Richfield	05	2038CST			0	0			Hail (0.75)
Stanton County Johnson	05	2110CST			0	0			Thunderstorm Wind (G52)
Stanton County 4 SE Johnson	05	2130CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Grant County 8 SW Ulysses	05	2150CST			0	0			Hail (0.75)
Grant County 5 SE Ulysses	05	2220CST			0	0			Hail (0.88)
Hamilton County 8 NE Syracuse	05	2320MST			0	0			Hail (0.75)
Hamilton County 10 NE Syracuse	05	2325MST			0	0			Hail (0.88)
Hamilton County 8 N Kendall	05	2345MST			0	0			Hail (1.50)
Kearny County 19 NW Lakin	06	0050CST			0	0			Hail (0.88)
Kearny County Lakin White Arpt	06	0106CST			0	0			Hail (1.25)
Kearny County Lakin	06	0110CST			0	0			Hail (1.00)
Finney County 12 S Garden City	06	0140CST			0	0			Hail (1.00)
Haskell County 15 N Sublette	06	0145CST			0	0			Hail (0.75)
Haskell County 17 N Sublette	06	0150CST			0	0			Hail (1.75)
			Tree limbs down...probably from the hail.						
Gray County 5 NW Montezuma	06	0215CST			0	0			Hail (0.88)
Gray County Montezuma	06	0220CST			0	0			Hail (1.75)
			Four windows broken out of a house.						
Gray County Montezuma	06	0233CST			0	0	500K	200K	Hail (1.75)
Ford County 17 SW Dodge City	06	0240CST			0	0	15K	125K	Hail (0.88)
Meade County Fowler to 4 E Fowler	06	0246CST 0254CST			0	0			Hail (1.00)
			Hail completely covered the road.						
Clark County Minneola	06	0300CST			0	0	20K	150K	Hail (1.00)
Clark County 3 N Ashland	06	0311CST			0	0			Hail (1.25)
Comanche County Protection	06	0342CST			0	0	9K	145K	Hail (1.00)
			Hail swath varying from 2 to 5 miles wide extended from lakin to near montezuma. Wheat and even CRP grass consisting of Little Blue Stem, Indian, Switch and Side Oats were mowed down to the ground. There was no loss on the CRP but there was a total loss on the wheat and corn. There was also substantial property damage to homes, businesses and vehicles.						
Scott County 9 S Scott City	06	1419CST			0	0			Hail (1.00)
Finney County 13 NE Garden City	06	1540CST			0	0			Hail (0.75)
Scott County 2 W Modoc	06	1615CST			0	0			Hail (1.50)
			Hail completely covered the ground.						
Scott County 2 W Modoc	06	1618CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Finney County 6 SE Friend	06	1620CST			0	0			Hail (0.75)
Finney County 10 SE Friend	06	1622CST			0	0			Hail (0.88)
			Hail completely covered the ground.						
Scott County 2 S Modoc	06	1630CST			0	0			Hail (0.75)
Finney County 9 NE Garden City	06	1657CST			0	0			Hail (1.00)
Finney County 13 N Pierceville	06	1712CST			0	0			Hail (0.75)
Finney County 8 E Garden City	06	1748CST			0	0			Hail (0.88)
Gray County 3 N Cimarron	06	1750CST			0	0			Hail (1.00)
Gray County Cimarron	06	1803CST			0	0			Hail (1.00)
Gray County 3 NW Cimarron	06	1805CST			0	0			Hail (1.00)
Ford County 4 S Howell	06	1821CST			0	0			Hail (1.75)
Ford County 19 SE Dodge City	06	1905CST			0	0			Hail (1.00)
Ford County 5 W Kingsdown	06	1914CST			0	0			Hail (0.75)
Ford County 2 ENE Kingsdown	06	1920CST			0	0			Hail (0.75)
Ford County 2 E Kingsdown	06	1922CST			0	0			Hail (1.00)
Clark County 13 NE Ashland	06	1956CST			0	0			Hail (0.75)
Comanche County Protection	06	2001CST			0	0			Hail (1.00)
Stanton County 15 NW Johnson	07	1614CST			0	0			Hail (0.88)
			Completely covered the ground.						
Stanton County 9 W Johnson	07	1632CST			0	0			Hail (1.75)
Stanton County 8 S Johnson	07	1645CST			0	0			Thunderstorm Wind (G52)
Stanton County 8 S Johnson	07	1655CST			0	0			Hail (1.75)
Morton County 14 NE Richfield	07	1720CST			0	0			Hail (1.00)
Morton County 14 NE Richfield	07	1720CST			0	0			Thunderstorm Wind (G52)
Stevens County 13 NW Hugoton	07	1735CST			0	0			Hail (1.00)
			Completely covered the ground.						
Seward County 6 WNW Liberal	07	1804CST 1807CST	0.4	50	0	0			Tornado (F0)
			Reported by a pilot.						
Stevens County 1 S Woods	07	1824CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Seward County									
Liberal	07	1848CST			0	0			Hail (1.00)
Comanche County									
Protection	08	2354CST 2359CST			0	0	100K		Wind
Unknown wind event occurred in the absence of any thunderstorms. The event occurred in an isolated location. Lots of roof damage, numerous windows blown out of houses, bricks blown off buildings, large tree branches blown down. A trampoline was blown onto a garage. A gas meter was blown off a building.									
Scott County									
8 WSW Shallow Water	11	1715CST			0	0			Hail (2.00)
Scott County									
4 SW Shallow Water	11	1728CST			0	0			Hail (2.75)
Scott County									
Shallow Water	11	1729CST			0	0			Hail (1.75)
Lane County									
10 SSW Dighton	11	1758CST			0	0			Hail (1.00)
KSZ065-079>080-089									
	14	2205CST			0	0	21K		High Wind (G60)
	15	0330CST							
Low level jet mixed to the surface in the vicinity of rain showers. Wind speeds ranged from 52 to 78 knots. All the counties reported tree limbs down. Specifically, power poles were blown down in Coldwater, fence blown down 6W of Larned, part of a roof blown off a garage 2 miles east of Greensburg and a empty cattle trailer blown over 2 miles east of Greensburg.									
Stevens County									
6 S Feterita	16	2300CST			0	0			Hail (0.75)
Seward County									
14 NNE Liberal	17	0009CST			0	0			Hail (0.75)
Seward County									
5 NNE Kismet	17	0030CST			0	0			Hail (0.88)
Meade County									
3 NW Missler	17	0050CST			0	0			Hail (0.75)
Meade County									
7 NNE Meade	17	0100CST			0	0			Hail (0.75)
Hamilton County									
11 SW Kendall	18	1609MST			0	0			Hail (0.88)
Hamilton County									
12 SSW Kendall	18	1609MST			0	0			Thunderstorm Wind (G52)
Finney County									
12 S Garden City	18	1617CST			0	0			Thunderstorm Wind (G57)
Location was Plymell.									
Finney County									
11 S Garden City	18	1620CST			0	0			Hail (0.88)
Finney County									
13 S Garden City	18	1621CST			0	0			Hail (1.00)
Stanton County									
5 SE Manter	18	1656CST			0	0			Hail (0.75)
Stanton County									
6 SW Johnson	18	1700CST			0	0			Hail (0.75)
Finney County									
Garden City	18	1701CST			0	0			Hail (1.00)
Finney County									
11 W Kalvesta	18	1702CST			0	0			Hail (0.75)
Finney County									
11 W Kalvesta	18	1702CST			0	0			Thunderstorm Wind (G65)
Semi was blown over.									
Finney County									
20 W Kalvesta	18	1725CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Grant County 11 NE Ulysses	18	1750CST			0	0			Thunderstorm Wind (G57)
			Four inch diameter tree limbs blown down.						
Finney County 16 E Friend	18	1808CST			0	0			Hail (0.75)
Finney County 23 N Pierceville	18	1815CST			0	0			Hail (0.88)
Finney County 14 ENE Garden City	18	1820CST			0	0	750K		Hail (1.00)
			Fifty percent of the wheat crop destroyed.						
Finney County 23 WNW Kalvesta	18	1820CST			0	0			Thunderstorm Wind (G61)
Lane County 15 SSW Amy	18	1820CST			0	0			Hail (0.75)
Finney County 12 S Garden City	18	1825CST			0	0			Thunderstorm Wind (G52)
Finney County 20 NE Garden City	18	1830CST			0	0	5K		Thunderstorm Wind
			Trees uprooted and windows blown out of cars.						
Finney County 23 WNW Kalvesta	18	1831CST			0	0			Thunderstorm Wind (G61)
Finney County 7 N Kalvesta	18	1840CST			0	0			Thunderstorm Wind (G52)
Gray County 4 W Charleston	18	1840CST			0	0			Thunderstorm Wind (G52)
Lane County 12 S Alamota	18	1849CST			0	0			Hail (0.75)
Kearny County 15 W Lakin to 1 E Deerfield	18	1855CST			0	0			Hail (0.75)
Ness County 13 SSW Ness City	18	1910CST			0	0			Hail (1.75)
Hodgeman County 8 N Jetmore	18	1925CST			0	0			Thunderstorm Wind (G52)
Hodgeman County 8 N Jetmore	18	1934CST			0	0			Hail (0.75)
Pawnee County Zook	18	2015CST			0	0			Thunderstorm Wind (G65)
Grant County 1 NE Ulysses	18	2019CST			0	0			Hail (0.75)
Haskell County 8 S Satanta	18	2040CST			0	0			Hail (1.00)
Gray County Cimarron Arpt	18	2100CST			0	0			Thunderstorm Wind (G52)
Gray County Copeland	18	2100CST			0	0			Hail (1.00)
Haskell County 11 NE Sublette	18	2100CST			0	0			Hail (1.00)
Ford County 5 NNW Howell	18	2105CST			0	0			Thunderstorm Wind (G61)
Hodgeman County 19 SW Jetmore	18	2105CST			0	0			Thunderstorm Wind (G52)
Haskell County 12 NNE Tice	18	2115CST			0	0			Hail (0.75)
Ford County Dodge City	18	2150CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Gray County 2 W Ensign	18	2150CST			0	0			Hail (0.75)
Ford County 15 SW Dodge City	18	2157CST			0	0			Hail (0.75)
Edwards County 8 NW Kinsley	18	2200CST			0	0			Thunderstorm Wind (G52)
Ford County Dodge City	18	2204CST			0	0			Hail (0.88)
Pawnee County 4 SW Garfield	18	2225CST			0	0			Hail (0.75)
Finney County 4 E Kalvesta	18	2311CST			0	0			Hail (0.75)
Hodgeman County 6 W Jetmore	18	2311CST			0	0			Hail (0.75)
Pawnee County Garfield	19	0017CST			0	0			Hail (0.75)
Ness County 5 E Ness City	19	0045CST			0	0			Hail (0.75)
Ness County 2 E Bazine	19	0053CST			0	0			Hail (0.75)
Ness County 2 E Bazine	19	0053CST			0	0			Thunderstorm Wind (G57)
Ness County 1 NE Bazine	19	0055CST			0	0			Hail (0.75)
Ness County 1 NE Bazine	19	0055CST			0	0			Thunderstorm Wind (G61)
Kearny County 17 SW Lakin	21	2035CST			0	0			Dry Microburst
Stanton County Johnson	21	2035CST			0	0			Dry Microburst
			Four telephone poles blown down.						
Lane County Shields	21	2200CST			0	0			Dry Microburst
			Three inch tree branches blown down.						
Hodgeman County 7 S Jetmore	23	1819CST			0	0			Hail (0.75)
Hodgeman County 3 S Jetmore	23	1828CST			0	0			Hail (1.50)
Ford County Dodge City	23	1843CST			0	0			Hail (1.25)
Ford County Dodge City	23	1845CST			0	0			Hail (1.75)
Ford County Dodge City	23	1847CST			0	0	6M		Hail (2.50)
			Golfball to tennis ball size hail affected much of the Dodge City area.						
Ford County Dodge City Arpt	23	1855CST			0	0			Hail (1.50)
Ford County 3 NE Dodge City	23	1856CST			0	0			Hail (1.75)
Ford County 6 SE Dodge City	23	1912CST			0	0			Hail (0.88)
Ford County 4 W Ford	23	1930CST			0	0			Hail (2.50)
Ford County 2 S Ford	23	1932CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Ford County 4 S Ford	23	1940CST			0	0			Hail (3.00)
Kiowa County 4 NW Greensburg	23	1945CST			0	0			Hail (0.75)
Ford County 1 E Bucklin	23	2004CST			0	0			Hail (0.75)
Kiowa County 1 W Mullinville	23	2005CST			0	0			Hail (1.00)
Kiowa County 2 S Greensburg	23	2007CST			0	0			Hail (0.75)
Lane County Pendennis	24	1430CST			0	0			Hail (0.75)
Ness County 1 N Ransom	24	1510CST			0	0			Hail (1.75)
Ness County 3 NW Brownell	24	1520CST			0	0			Hail (1.75) Hail covered the ground.
Ness County Ransom	24	1520CST			0	0			Hail (0.75)
Ness County 1 N Ransom	24	1520CST			0	0			Hail (0.88) Hail covered the ground.
Ness County 3 W Brownell	24	1525CST			0	0			Hail (1.75)
Lane County 1 W Dighton	24	1528CST			0	0			Hail (0.75)
Trego County Cedar Bluff Res	24	1532CST			0	0			Hail (1.75)
Lane County Dighton	24	1536CST			0	0			Hail (1.00)
Lane County Dighton	24	1536CST			0	0			Thunderstorm Wind (G61)
Lane County Dighton	24	1537CST			0	0			Hail (1.25)
Lane County 5 S Dighton	24	1542CST			0	0			Hail (0.88)
Trego County 14 SE Trego Center	24	1545CST			0	0	25K	5.5M	Hail (1.75) All of the west windows broken out of a house. The hail was part of a swath 7 miles wide that tracked along a line from the Gove county border from section 19-14-25 to the southeast corner of the county. Over 50,000 acres of native grass were mowed down.
Ellis County 9 W Schoenchen	24	1557CST			0	0	300K	3.8M	Hail (1.75) Much of the wheat and corn were mowed down.
Rush County Liebenthal	24	1600CST			0	0			Hail (0.88)
Ellis County 4 SW Antonino	24	1611CST			0	0			Hail (1.00)
Ness County 7 ENE Ransom	24	1615CST			0	0	32.5K	1M	Hail (1.75) Windshield broken. Hail fell in a swath across the county. The swath was about 30 miles wide.
Rush County Liebenthal	24	1615CST			0	0			Hail (0.75) Hail covered the ground.
Ellis County Schoenchen to (Hys)Hays Muni Arpt	24	1617CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Rush County									
La Crosse	24	1625CST			0	0	2K	7M	Hail (1.75)
									Hail swath of 7 miles wide produced total devastation to some of the native grasses and destroyed most of the wheat. A USDA report indicated some hail up to softball size but gave no specific information.
Ellis County									
6 WNW Schoenchen to 6 WNW (Hys)Hays Muni Arpt	24	1628CST			0	0			Hail (1.00)
Rush County									
2 N La Crosse	24	1629CST			0	0			Hail (1.75)
Rush County									
Liebenthal	24	1630CST			0	0			Hail (1.00)
Ness County									
6 SW Bazine	24	1633CST			0	0			Hail (0.75)
Rush County									
Loretta	24	1638CST			0	0			Hail (0.75)
Hamilton County									
15 SE Syracuse	24	1715MST			0	0			Hail (1.00)
Pratt County									
Preston	24	1740CST			0	0			Hail (1.75)
Stanton County									
7 N Big Bow	24	1809CST			0	0			Hail (0.75)
Stafford County									
12 SE St John	24	1815CST			0	0			Hail (0.75)
Edwards County									
7 S Lewis to 7 SE Lewis	24	1835CST			0	0			Hail (0.75)
Edwards County									
10 SE Kinsley	24	1845CST			0	0			Hail (0.75)
Grant County									
12 E Ulysses	24	1845CST			0	0			Hail (1.00)
Grant County									
12 E Ulysses	24	1845CST			0	0			Thunderstorm Wind (G50)
Hamilton County									
13 N Coolidge	24	1855MST			0	0			Hail (0.88)
Grant County									
8 E Hickok	24	1902CST			0	0	5K		Thunderstorm Wind (G70)
									Several power poles taken down by the wind.
Pratt County									
Pratt	24	1905CST			0	0			Hail (1.25)
Pratt County									
6 WSW Pratt	24	1905CST			0	0			Hail (1.75)
Barber County									
2 W Medicine Lodge	24	1906CST			0	0			Hail (2.00)
Kiowa County									
7 S Greensburg	24	1908CST			0	0			Hail (2.00)
Pratt County									
6 WSW Pratt	24	1908CST			0	0			Thunderstorm Wind (G52)
Meade County									
2 W Fowler	24	1912CST			0	0			Hail (0.75)
Pratt County									
Pratt	24	1920CST			0	0			Hail (0.75)
Haskell County									
6 NE Satanta	24	1921CST			0	0			Hail (1.50)
Pratt County									
1 W Coats	24	1925CST			0	0			Thunderstorm Wind (G57)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Ford County Bucklin	24	1927CST			0	0			Hail (1.00)
Gray County Copeland	24	1930CST			0	0			Hail (1.75)
Meade County 6 NE Fowler	24	1930CST			0	0			Hail (0.75)
Clark County 12 S Minneola	24	1932CST			0	0	160K		Hail (1.75)
			A USDA report indicated tennis ball size hail across parts of the county but no specific information was given to the location or time. There was damage to crops...almost county wide.						
Hamilton County 20 SW Syracuse	24	1937MST			0	0			Hail (0.75)
Kearny County 5 SW Lakin	24	1940CST			0	0			Thunderstorm Wind (G55)
			Three inch tree limbs down.						
Meade County 5 N Missler to 5 NNE Missler	24	1940CST			0	0	1.6M	200K	Thunderstorm Wind (G70)
			Eleven irrigation sprinklers damaged along with ten power poles. At least 80 mph wind occurred with the Rear Flank Downdraft. Wheat and corn were destroyed in the area.						
Kiowa County 8 SE Greensburg	24	1945CST			0	0			Hail (1.00)
Clark County 10 S Minneola	24	1946CST			0	0			Hail (1.75)
Pratt County 1 N Coats to 1 NN Coats	24	1946CST			0	0			Thunderstorm Wind (G52)
Pratt County 9 S Pratt	24	1947CST			0	0			Hail (0.75)
Barber County Medicine Lodge	24	2000CST			0	0	500K		Thunderstorm Wind (G75)
			Rear Flank Downdraft caused extensive damage to roofs, trees, power lines and sheds.						
Meade County 9 N Meade	24	2000CST			0	0			Hail (1.75)
Meade County 12 NW Meade	24	2000CST			0	0			Hail (2.75)
Barber County 7 NNE Medicine Lodge	24	2003CST			0	0			Hail (1.75)
Gray County 9 SSE Montezuma	24	2005CST			0	0			Hail (1.75)
Meade County 6 E Meade	24	2006CST			0	0			Hail (1.75)
Meade County 4 W Fowler	24	2007CST			0	0			Hail (2.75)
Meade County 2 N Meade	24	2007CST			0	0			Hail (0.75)
Meade County Fowler	24	2008CST			0	0			Hail (2.75)
Kiowa County 14 SSW Greensburg	24	2010CST			0	0			Hail (1.00)
Meade County 4 W Fowler	24	2014CST			0	0			Hail (2.75)
Comanche County 1 E Protection	24	2030CST			0	0			Hail (1.75)
Comanche County 14 N Protection	24	2038CST			0	0			Hail (2.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Comanche County 2 N Protection	24	2042CST			0	0			Hail (1.75)
Kearny County 10 N Lakin	24	2047CST			0	0			Hail (1.00)
Meade County Fowler	24	2058CST			0	0			Hail (1.00)
Meade County 4 NNW Fowler	24	2058CST			0	0			Hail (1.00)
Clark County 11 NE Ashland	24	2100CST			0	0			Hail (1.75)
Meade County 3 SW Fowler	24	2101CST			0	0			Hail (1.00)
Barber County 9 NW Medicine Lodge	24	2115CST			0	0			Hail (1.75)
Comanche County Protection	24	2118CST			0	0			Hail (1.00)
Comanche County 6 NW Coldwater	24	2120CST			0	0			Hail (1.75)
Kearny County 5 S Lakin	24	2124CST			0	0			Hail (1.00)
Barber County 9 NW Hardtner	24	2130CST			0	0			Hail (1.75)
Comanche County Coldwater	24	2130CST			0	0			Hail (1.00)
Comanche County Coldwater	24	2131CST			0	0			Hail (1.75)
Kearny County 1 SE Lakin	24	2135CST			0	0			Hail (0.75)
Clark County 11 NE Ashland	24	2145CST			0	0			Hail (0.75)
Gray County 2 W Charleston	24	2155CST			0	0			Thunderstorm Wind (G57)
Clark County 12 NE Ashland	24	2158CST			0	0			Hail (1.00)
Finney County 4 S Holcomb	24	2200CST			0	0			Thunderstorm Wind (G63)
Haskell County Sublette	24	2200CST			0	0			Hail (1.00)
Comanche County 2 W Protection	24	2203CST			0	0			Hail (1.75)
Ford County 2 NE Howell	24	2217CST			0	0			Hail (0.75)
Clark County 13 SE Ashland	24	2244CST			0	0			Hail (0.88)
Meade County Fowler	24	2245CST			0	0			Hail (1.75)
Meade County Fowler	24	2245CST			0	0			Thunderstorm Wind (G52)
Gray County Ensign	24	2258CST			0	0			Hail (0.88)
Gray County Ensign	24	2258CST			0	0			Thunderstorm Wind (G61)
Clark County 18 WSW Ashland	24	2300CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Clark County 18 WSW Ashland	24	2300CST			0	0			Thunderstorm Wind (G52)
Ford County 10 SW Dodge City	24	2317CST			0	0			Wake Low Wind
Clark County 1 W Ashland	24	2319CST			0	0			Hail (1.00)
Ford County Dodge City Arpt	24	2343CST			0	0			Wake Low Wind
Comanche County 22 SE Coldwater	25	0010CST			0	0			Hail (1.50)
Comanche County 22 SE Coldwater	25	0010CST			0	0			Thunderstorm Wind (G52)
Barber County 21 WSW Medicine Lodge	25	0020CST			0	0			Thunderstorm Wind (G61)
<u>KENTUCKY, Central</u>									
Jefferson County Louisville	02	2020EST			0	0			Thunderstorm Wind (G50) DES reported trees and power lines down.
Mercer County Salvisa to 2 E Salvisa	13	1300EST 1304EST	2	20	0	0	5K		Tornado (F0) DES reported a weak F0 tornado cut a narrow path of 2 miles along Gilbert's Creek damaging 2 storage buildings but 125 trees were uprooted. Resulting debris blocked off most of Oregon Road from US 127 to the Kentucky River where the tornado lifted.
Clark County Winchester	13	2100EST			0	0	5K		Lightning An old opera house in the downtown area caught fire as lightning struck it. The roof and ceiling of the top floor were heavily damaged.
Harrison County Cynthiana	19	2040EST			0	0			Hail (1.75)
Jefferson County Louisville	19	2343EST			0	0			Hail (1.75) Golfball size hail reported by the media.
Bourbon County Little Rock	19	2100EST			0	0			Thunderstorm Wind (G50)
Clark County Winchester	19	2125EST			0	0			Thunderstorm Wind (G50)
Jefferson County Louisville	19	2353EST			0	0			Thunderstorm Wind (G50)
Oldham County Pewee Vly	19	2355EST			0	0			Thunderstorm Wind (G50)
Shelby County Shelbyville	20	0010EST			0	0			Thunderstorm Wind (G50)
Spencer County Taylorsville	20	0010EST			0	0			Thunderstorm Wind (G50) DES reported several trees down across each of these counties.
Hancock County Lewisport	20	1445EST 1450EST			0	0			Hail (1.75)
Hancock County Lewisport	20	1445EST			0	0			Thunderstorm Wind (G50)
Meade County Payneville	20	1520EST			0	0			Thunderstorm Wind (G50)
Hardin County Vine Grove	20	1535EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Central									
Bullitt County Shepherdsville	20	1550EST			0	0			Thunderstorm Wind (G50)
Jefferson County Valley Station	20	1550EST			0	0			Thunderstorm Wind (G50)
Larue County Buffalo	20	1605EST			0	0	10K		Thunderstorm Wind (G60)
Nelson County Bardstown	20	1610EST			0	0			Thunderstorm Wind (G50)
Spencer County Waterford	20	1610EST			0	0			Thunderstorm Wind (G50)
Washington County Springfield	20	1620EST			0	0			Thunderstorm Wind (G50)
Green County 5 NW Greensburg	20	1625EST			0	0			Thunderstorm Wind (G50)
Marion County Lebanon	20	1625EST			0	0			Thunderstorm Wind (G50)
Taylor County Campbellsville	20	1630EST			0	0			Thunderstorm Wind (G50)
Boyle County Danville	20	1645EST			0	0			Thunderstorm Wind (G50)
Mercer County Harrodsburg	20	1645EST			0	0			Thunderstorm Wind (G50)
Mercer County Terrapin	20	1645EST			0	0	5K		Thunderstorm Wind (G50)
Garrard County Bryantsville	20	1650EST			0	0			Thunderstorm Wind (G50)
Jessamine County Nicholasville	20	1650EST			0	0			Thunderstorm Wind (G50)
Casey County 8 N Liberty	20	1655EST			0	0			Thunderstorm Wind (G50)
Lincoln County Stanford	20	1705EST			0	0			Thunderstorm Wind (G50)
Fayette County Lexington	20	1730EST			0	0			Thunderstorm Wind (G50)
Madison County Richmond	20	1735EST			0	0			Thunderstorm Wind (G50)
A large thunderstorm complex moved southeast across south central Indiana into north central and then south central and east central Kentucky producing widespread power outages with numerous trees down across each of the counties affected as reported by DES, dispatch and spotters. A few spots also had roof and barn damage attributing to light property damages in a few of the counties. Hail was not common, however Lewisport in Hancock received golfball size hail in the early stages of the activity.									
Bullitt County Mt Washington	20	2230EST 2235EST			0	0			Hail (1.00)
Quarter size hail reported by National Weather Service employee.									
Simpson County Franklin	21	1905EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down near the apex of a bow echo.									
Jefferson County Louisville	23	0300EST			0	0			Thunderstorm Wind (G50)
Several trees down in the vicinity of River Road. One large tree fell across the road blocking traffic.									
Clark County Winchester	23	0430EST			0	0	2K		Lightning
Lightning struck a tree which then fell on a house damaging the roof.									
Breckinridge County Hardinsburg	24	0007EST			0	0	2K		Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
KENTUCKY, Central									
Nelson County Bardstown	24	0045EST			0	0			Thunderstorm Wind (G50)
									Dispatch reported trees and power lines down and a storage building destroyed in Hardinsburg.
Madison County Kirksville	24	0204EST 0209EST			0	0			Hail (0.75)
Madison County 2 N Berea	24	0206EST 0211EST			0	0			Hail (0.75)
									Separate spotters reported dime size hail.
Warren County 2 NW Bowling Green	25	0852EST 0857EST			0	0			Hail (1.75)
Simpson County Franklin	25	0924EST 0929EST			0	0			Hail (1.00)
Allen County 5 SE Scottsville	25	0956EST 1001EST			0	0			Hail (1.75)
									Quarter to golfball size hail reported by spotters and dispatch.
Barren County Cave City	25	0942EST 0952EST			0	0			Thunderstorm Wind (G50)
Hart County Horse Cave	25	0953EST			0	0			Thunderstorm Wind (G50)
Green County Greensburg	25	0954EST 1000EST			0	0	20K		Thunderstorm Wind (G50)
Hart County Munfordville	25	0954EST			0	0			Thunderstorm Wind (G50)
Taylor County Campbellsville	25	1012EST			0	0			Thunderstorm Wind (G50)
Taylor County Yuma	25	1013EST			0	0	10K		Thunderstorm Wind (G50)
Taylor County 6 S Campbellsville	25	1025EST			0	1	10K		Thunderstorm Wind (G50)
Casey County Liberty	25	1036EST			0	0			Thunderstorm Wind (G50)
Russell County Eli	25	1049EST			0	0			Thunderstorm Wind (G50)
									Dispatch reported trees and power lines down. Trees were down across homes in Greensburg, Yuma and 6 miles south of Campbellsville. 1 person was injured when a large tree fell on their home 6 miles south of Campbellsville.
Adair County Christine	25	1900EST 1905EST			0	0			Hail (0.75)
									Dime size hail reported by dispatch.
Allen County Petroleum	25	1950EST			0	0			Thunderstorm Wind (G50)
									Dispatch reported several trees down.
Trimble County Milton	31	1555EST			0	0			Thunderstorm Wind (G52)
Trimble County Milton	31	1600EST 1605EST			0	0			Hail (0.75)
Henry County Franklinton	31	1650EST			0	0	20K		Thunderstorm Wind (G60)
Trimble County Milton	31	1555EST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Central									
Trimble County Milton	31	1600EST 1605EST			0	0			Hail (0.75)
Henry County Franklinton	31	1640EST			0	0	20K		Thunderstorm Wind (G60)
Henry County Lockport	31	1700EST 1705EST			0	0			Hail (0.75)
Oldham County Goshen	31	1700EST			0	0	100K		Thunderstorm Wind (G60)
Breckinridge County Hardinsburg	31	1705EST			0	0			Thunderstorm Wind (G50)
Jefferson County Louisville	31	1715EST			0	0			Thunderstorm Wind (G50)
Bullitt County Sities	31	1720EST			0	0			Thunderstorm Wind (G52)
Meade County Flaherty	31	1730EST			0	0			Thunderstorm Wind (G50)
Oldham County Goshen	31	1745EST			0	0			Thunderstorm Wind (G50)
Nelson County Boston	31	1750EST			0	0	5K		Thunderstorm Wind (G60)
Nelson County Bardstown	31	1755EST			0	0			Thunderstorm Wind (G52)
Hardin County Elizabeth Town	31	1800EST 1805EST			0	0			Thunderstorm Wind (G50)
Larue County Hodgenville	31	1813EST			0	0			Thunderstorm Wind (G52)
Washington County 1 W Springfield	31	1820EST			0	0			Thunderstorm Wind (G52)
Hardin County Elizabeth Town	31	1830EST 1930EST			0	0			Flash Flood
Larue County 2 E Hodgenville	31	1840EST			0	0			Thunderstorm Wind (G50)
Marion County Lebanon	31	1840EST			0	0			Thunderstorm Wind (G50)
Clark County Winchester	31	1855EST			0	0	10K		Thunderstorm Wind (G50)
Taylor County Campbellsville	31	1859EST			0	0			Thunderstorm Wind (G52)
Taylor County Campbellsville	31	1859EST 1904EST			0	0			Thunderstorm Wind (G50)
Marion County Lebanon	31	1900EST			0	0			Thunderstorm Wind (G50)
Casey County Liberty	31	1920EST			0	0			Thunderstorm Wind (G50)
Taylor County Campbellsville	31	1920EST			0	0	100K		Thunderstorm Wind (G60)
Lincoln County Mc Kinney	31	1945EST			0	0			Thunderstorm Wind (G50)
Russell County Jamestown	31	1948EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Central</u>									
Hardin County White Mills	31	2012EST			0	0			Thunderstorm Wind (G50)
Marion County Jessietown	31	2015EST 2115EST			0	0			Flash Flood
Marion County Raywick	31	2015EST			0	0			Thunderstorm Wind (G50)
Taylor County Finley	31	2015EST			0	0			Hail (1.75)
Marion County New Market	31	2020EST 2120EST			0	0			Flash Flood
Marion County Riley	31	2020EST			0	0			Thunderstorm Wind (G50)
Larue County Hodgenville	31	2025EST			0	0			Thunderstorm Wind (G50)
Adair County Pellyton to 1 SE Pellyton	31	2035EST 2037EST	1	100	0	0	300K		Tornado (F2)
Hart County Munfordville	31	2040EST 2045EST			0	0			Thunderstorm Wind (G50)
Hart County Pike View	31	2042EST			0	0			Hail (0.75)
Green County Hudgins	31	2100EST			0	0			Thunderstorm Wind (G50)
Marion County Calvary	31	2130EST 2230EST			0	0			Flash Flood
Logan County Russellville	31	2200EST			0	0			Thunderstorm Wind (G50)
Simpson County Franklin	31	2210EST			0	0			Thunderstorm Wind (G50)
Adair County Columbia	31	2230EST 2330EST			0	0			Flash Flood
Adair County Gradyville	31	2230EST 2330EST			0	0			Flash Flood
Russell County Jamestown	31	2230EST 2330EST			0	0			Flash Flood

Numerous thunderstorms developed near and north of the Ohio River by late afternoon and dropped south and east across central Kentucky producing widespread severe weather. A brief F2 tornado touched down at Pellyton producing heavy damage to a brick house and destroying several mobile homes. Meanwhile, Marion, Taylor, Russell and Adair counties had widespread flash flooding with numerous roads under water, a few bridges washed out and cars washed away and water entering many homes and businesses. Five families in Calvary in Marion county were forced from their homes due to the high waters. Otherwise, severe thunderstorm winds knocked down numerous trees and power lines across the area and hail to the size of golf balls was reported at several locations. Taylor, Nelson, Henry, Oldham and Clark counties all had some property damage due to thunderstorm winds with barns destroyed, trees falling on cars and mobile home damage. Reports were from DES, spotters and the public.

KENTUCKY, Eastern

Leslie County 4 N Hyden	02	1951EST			0	0	10K	0	Hail (1.75)
Laurel County 5 S London	03	1215EST			0	0	10K	0	Hail (1.75)
Leslie County Roark	03	1306EST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Eastern									
Breathitt County									
Jackson	03	1328EST			0	0	0	0	Hail (0.75)
Rowan County									
2 S Morehead	03	1352EST			0	0	0	0	Hail (0.88)
Harlan County									
Wallins Creek	03	1730EST			0	0	0	0	Hail (0.88)
Leslie County									
Cutshin	03	1735EST			0	0	0	0	Hail (1.00)
Harlan County									
3 E Baxter	03	1735EST			0	0	0	0	Hail (0.75)
Perry County									
2 NE Dow	03	1740EST			0	0	0	0	Hail (0.75)
Pulaski County									
Somerset	07	0550EST			0	0	0	0	Hail (0.88)
Whitley County									
Saxton	07	1320EST			0	0	0	0	Hail (0.75)
Leslie County									
Hyden	07	1520EST			0	0	5K	0	Hail (2.50)
Perry County									
5 S Hazard	07	1555EST			0	0	0	0	Hail (0.75)
Letcher County									
Whitesburg	07	1800EST			0	0	0	0	Hail (0.88)
Johnson County									
Nippa	07	1910EST			0	0	0	0	Hail (0.88)
Martin County									
5 S Inez	07	1950EST			0	0	0	0	Hail (0.88)
Letcher County									
Whitesburg	07	2155EST			0	0	0	0	Hail (0.88)
Pulaski County									
Science Hill	20	1718EST			0	0	3K	0	Thunderstorm Wind
			Trees were downed in the northern part of the county.						
Rockcastle County									
Brodhead	20	1721EST			0	0	5K	0	Thunderstorm Wind
			Trees and power lines were downed, and several buildings were damaged.						
Rockcastle County									
Livingston	20	1735EST			0	0	0	0	Thunderstorm Wind
			Trees were downed.						
Lee County									
Beattyville	20	1745EST			0	0	3K	0	Thunderstorm Wind
			Trees and utility lines were downed across the county.						
Clay County									
Manchester	20	1745EST			0	0	0	0	Thunderstorm Wind
			Trees were downed across the county.						
Owsley County									
Travellers Rest	20	1750EST			0	0	0	0	Thunderstorm Wind
			Trees were downed.						
Jackson County									
Annvile	20	1750EST			0	0	0	0	Thunderstorm Wind
			Trees were downed.						
Powell County									
Clay City	20	1800EST			0	0	3K	0	Thunderstorm Wind
			Power lines were downed.						
Estill County									
South Irvine	20	1805EST			0	0	3K	0	Thunderstorm Wind
			Power lines were downed.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Eastern									
Breathitt County 5 NW Jackson	20	1815EST			0	0	3K	0	Thunderstorm Wind
									Trees were downed.
Perry County Buckhorn	20	1815EST			0	0	2K	0	Thunderstorm Wind
									Bleachers and a building at ballfield were damaged.
Perry County 3 E Hazard	20	1830EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Leslie County 3 E Wooton	20	1830EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Wolfe County Rogers	20	1835EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Magoffin County 7 NW Salyersville	20	1900EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Johnson County 3 SW Paintsville	20	1910EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Letcher County Whitesburg	20	1910EST			0	0	3K	0	Thunderstorm Wind
									Trees and power lines were downed across the county.
Pike County 2 N Kimper	20	1930EST 1931EST	0.1	20	0	0	5K	0	Tornado (F0)
									A small tornado downed trees and damaged the roof of a house.
Pike County Kimper	20	1930EST			0	0	0	0	Hail (0.75)
Pike County Pikeville	20	1930EST			0	0	3K	0	Thunderstorm Wind
									Trees were downed.
Rowan County 2 NW Morehead	20	2330EST			0	0	0	0	Hail (0.75)
Rowan County Countywide	21	0030EST 0230EST			0	0	0	0	Flash Flood
									Roads were flooded, and several families were trapped in their homes.
Rowan County Morehead	21	0037EST			0	0	0	0	Hail (0.75)
Elliott County Countywide	21	0130EST 0330EST			0	0	5K	0	Flash Flood
									In Sandy Hook, several inches of water flowed into a grocery store and a fast food court.
Estill County Millers Creek	23	0445EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Menifee County Means	23	0500EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Wolfe County 1 W Campton	23	0505EST			0	0	0	0	Hail (0.75)
Wolfe County 1 W Campton	23	0505EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Morgan County Cannel City	23	0530EST			0	0	3K	0	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Eastern									
A roof of a building was damaged in Cannel City, and trees were downed across the county.									
Magoffin County Salyersville	23	0545EST			0	0	3K	0	Thunderstorm Wind
Trees were downed. Two trees fell on houses.									
Pike County Meta	23	0600EST			0	0	0	0	Hail (0.88)
Pike County Meta	23	0600EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Pike County Pikeville	23	0600EST			0	0	10K	0	Thunderstorm Wind
Thirty to fifty trees were blown down.									
Pike County Kimper	23	0610EST			0	0	5K	0	Thunderstorm Wind
Trees and power lines were downed, and 2 trailers were damaged.									
Knott County Pine Top	24	0200EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Floyd County Harold	24	0201EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Breathitt County 3 E Jackson	24	0340EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Fleming County 8 S Flemingsburg	24	1800EST			0	0	0	0	Hail (0.75)
Elliott County Bruin	24	1855EST			0	0	0	0	Hail (1.00)
Menifee County 4 NE Frenchburg	24	1908EST			0	0	0	0	Hail (0.88)
Wayne County 10 SW Monticello	25	1035EST			0	0	0	0	Hail (0.75)
Pulaski County 3 W Somerset	25	1054EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Laurel County 2 S London	25	1125EST			0	0	0	0	Thunderstorm Wind (G52)
Laurel County Keavy	25	1132EST			0	0	0	0	Thunderstorm Wind
Trees were downed.									
Laurel County 5 S London	25	1135EST			0	0	0	0	Thunderstorm Wind (G58)
Pulaski County Science Hill	25	1935EST			0	0	0	0	Hail (1.75)
Pulaski County Somerset	25	1945EST			0	0	0	0	Hail (0.75)
Laurel County 2 W London	25	2005EST			0	0	0	0	Hail (0.88)
Laurel County 2 N London	25	2018EST			0	0	0	0	Hail (0.88)
Bell County 5 NE Pineville	25	2037EST			0	0	0	0	Hail (0.75)
Bell County Pineville	25	2045EST			0	0	0	0	Flash Flood
	26	0200EST							
Roads were flooded in the Pineville area.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Eastern									
Bell County 5 NE Pineville	25	2045EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Harlan County Lenarue	25	2125EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Harlan County Cawood	25	2130EST			0	0	0	0	Hail (1.00)
Powell County Stanton	31	1910EST			0	0	2K	0	Thunderstorm Wind
									Power lines were downed.
Powell County Slade	31	1915EST			0	0	2K	0	Thunderstorm Wind
									Power lines were downed.
Pulaski County Faubush	31	2007EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Pulaski County 16 W Somerset	31	2007EST			0	0	0	0	Hail (1.75)
Pulaski County Burnside	31	2050EST			0	0	2K	0	Thunderstorm Wind
									Trees and power lines were downed.
Pulaski County 2 N Somerset	31	2050EST			0	0	5K	0	Thunderstorm Wind
									A trailer was overturned.
Mccreary County 10 NE Whitley City	31	2055EST			0	0	5K	0	Thunderstorm Wind
									Trees were downed.
Whitley County Williamsburg	31	2100EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Whitley County Saxton	31	2100EST			0	0	5K	0	Thunderstorm Wind
									A barn was damaged.
Wayne County 13 NW Monticello	31	2100EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Whitley County Goldbug	31	2105EST			0	0	5K	0	Hail (2.75)
Pulaski County Faubush	31	2110EST			0	0	0	0	Hail (0.75)
Bell County Garmeada	31	2145EST			0	0	5K	0	Thunderstorm Wind
									Trees were downed and a church was damaged.
Bell County 1 NW Fonde to .5 SE Fonde	31	2148EST 2151EST	1.5	300	0	0	200K	0	Tornado (F1)
									The tornado damaged 12 of the 16 homes in Fonde, damaged 2 churches, and downed numerous trees. Two mobile homes were destroyed, and the steeple of the Fonde Baptist Church toppled off and punctured the roof before falling to the ground.
Pulaski County Countywide	31	2200EST 2359EST			0	0	0	0	Flash Flood
									Numerous roads were flooded after nearly 3.5 inches of rain fell in a 2 hour period.
Wayne County Countywide	31	2300EST 2359EST			0	0	0	0	Flash Flood
									Numerous road were flooded.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Northeast</u>									
Carter County Boone Furnace	24	1455EST			0	0			Hail (1.00)
Greenup County Kehoe	24	1505EST			0	0	10K		Hail (1.25)
Vehicular windshields were cracked.									
Greenup County Warnock	24	1505EST			0	0	15K		Hail (2.00)
Greenup County 1 NW Kehoe to 1 SE Kehoe	24	1515EST 1518EST	2	100	0	0	15K		Tornado (F0)
The tornado skipped along the ground. Peak wind gusts were estimated around 70 mph. The path was through sparsely populated wooded countryside. A survey team saw damage to telephone and electrical lines. Numerous trees were fallen, but no structures were affected.									
Boyd County Ashland	24	1545EST			0	0			Hail (0.75)
Greenup County Lloyd	24	1613EST			0	0			Hail (0.75)
<u>KENTUCKY, Northern</u>									
Mason County Minerva	13	1945EST 1950EST			0	0	3K		Thunderstorm Wind
Trees downed.									
Mason County 2 S Dover	13	1950EST 1955EST			0	0			Hail (0.75)
Bracken County Augusta	13	2015EST 2020EST			0	0	3K		Thunderstorm Wind
Trees downed.									
Kenton County Independence	13	2015EST 2020EST			0	0			Hail (0.75)
Mason County Germantown	13	2025EST 2030EST			0	0			Hail (2.50)
Mason County Germantown	13	2025EST 2030EST			0	0	3K		Thunderstorm Wind (G50)
Trees downed.									
Robertson County Mt Olivet	13	2035EST 2040EST			0	0			Hail (0.75)
Owen County Poplar Grove	23	0355EST 0400EST			0	0	10K		Thunderstorm Wind (G50)
Thunderstorm winds caused a roof to blown off a house.									
Grant County Corinth	23	0410EST 0415EST			0	0	3K		Thunderstorm Wind (G50)
Trees and telephone poles downed.									
Carroll County Carrollton	23	1106EST 1110EST			0	0			Hail (0.75)
Campbell County Highland Hgts	24	1630EST 1635EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Northern</u>									
Mason County									
Mays Lick	24	1651EST 1655EST			0	0			Hail (0.75)
Campbell County									
Ft Thomas	24	1700EST 1705EST			0	0			Hail (0.75)
<u>KENTUCKY, Southwest</u>									
KYZ004>005-007-010-014 Ballard - Mccracken - Livingston - Crittenden - Union									
	01 16	0001CST 1900CST			0	0			Flood
			Minor flooding of the lower Ohio River continued into mid May. Crests were about 3 feet above flood stage at Paducah and Uniontown, and a foot over flood stage at Smithland. The dates of the crest were between the 8th and 11th. Flooding was generally confined to agricultural bottomlands, riverfront parks, and recreational facilities such as boat ramps.						
Hickman County									
Beulah	02	1852CST			0	0	2K		Thunderstorm Wind (G50)
			A few trees were down, causing scattered power outages.						
Livingston County									
Salem	21	1529CST			0	0	4K		Thunderstorm Wind (G52)
			Trees were blown down.						
Union County									
Henshaw	21	1530CST			0	1	4K		Thunderstorm Wind (G50)
			Downed trees and broken limbs were reported throughout the county. Kentucky State Police reported a falling tree struck a car on Kentucky 758, but the driver was not seriously hurt.						
Mccracken County									
Paducah	21	1530CST			0	0	5K		Thunderstorm Wind (G52)
			Wind gusts to 60 MPH were estimated on the Irvin Cobb Bridge in Paducah. About 10 trees were blown down in Paducah.						
Crittenden County									
Tolu	21	1545CST			0	0	8K		Thunderstorm Wind (G52)
			County road crews opened several county roads that were blocked by fallen trees or limbs.						
Carlisle County									
Kirbyton	21	1559CST			0	0			Hail (0.75)
Carlisle County									
Kirbyton	21	1559CST			0	0	4K		Thunderstorm Wind (G52)
			About a half dozen trees fell across roads in the county.						
Webster County									
Sebree	21	1600CST			0	0	6K		Thunderstorm Wind (G50)
			Several trees and power lines were down.						
Caldwell County									
Fredonia to Princeton	21	1603CST			0	0	5K		Thunderstorm Wind (G52)
			Thunderstorm winds downed trees and power lines at Princeton and Fredonia.						
Lyon County									
Eddyville	21	1605CST			0	0	5K		Thunderstorm Wind (G52)
			Trees were down on three highways near Eddyville.						
Marshall County									
Hardin	21	1610CST			0	0			Thunderstorm Wind (G50)
			Large tree limbs were blown down.						
Hickman County									
Columbus	21	1610CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down.						
Calloway County									
Almo	21	1610CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down.						
Trigg County									
Cadiz	21	1618CST			0	0			Hail (1.75)
Graves County									
Feliciana	21	1635CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Southwest									
Christian County 2 S Hopkinsville	21	1640CST			0	0			Hail (1.25)
Christian County Hopkinsville	21	1640CST			0	0	8K		Thunderstorm Wind
			Numerous trees and power lines were down.						
Muhlenberg County Greenville	21	1644CST			0	0			Thunderstorm Wind (G50)
			Trees were down.						
Todd County Guthrie	21	1700CST			0	0	15K		Thunderstorm Wind
			Numerous trees were blown down. A wall was blown over at Guthrie.						
Henderson County Henderson	23	2110CST 2210CST			0	1	50K		Flash Flood
			About 2.2 inches of rain fell in 45 minutes during a thunderstorm. There were about a dozen reports of motorists stranded in floodwaters. One motorist was injured while submerged in floodwaters on U.S. Route 41. Part of U.S. 60 was under water near Starlight Drive-In. Henderson Police reported most of the city was flooded, and there was three feet of water in front of the police station.						
Henderson County Henderson	23	2115CST			0	0	15K		Thunderstorm Wind (G52)
			Thunderstorm winds blew down trees and toppled telephone poles. A carport buckled in at a home on 8th Street.						
Daviess County 2 S Owensboro	23	2140CST			0	0	10K		Thunderstorm Wind (G54)
			Numerous large trees were blown down in Owensboro and elsewhere around the county. About 1500 Owensboro customers were left without power, and 200 customers were without power for about 24 hours.						
Muhlenberg County Greenville	25	0633CST			0	0			Hail (0.88)
			Nickel size hail fell in Greenville.						
Fulton County Hickman	28	1515CST			0	0			Hail (0.75)
Ballard County La Center	31	1850CST			0	0			Hail (0.88)
Webster County Providence	31	1915CST			0	0			Hail (0.88)
Mccracken County St Johns	31	1919CST			0	0			Hail (0.88)
Mccracken County St Johns	31	1925CST			0	0			Thunderstorm Wind (G50)
			Downed tree limbs blocked traffic on a few roads near the Graves County line.						
Graves County Symsonia	31	1926CST			0	0			Hail (1.75)
			A severe thunderstorm tracked near the McCracken/Graves County border, producing nickel to golf ball size hail on both sides of the county line.						
Marshall County Oak Level	31	1938CST			0	0			Hail (1.75)
Graves County Symsonia	31	1943CST			0	0	5K		Thunderstorm Wind (G50)
			A large tree fell across a road near Symsonia. Motorists suffered minor injuries when their vehicle struck the tree.						
Marshall County 3 E Benton	31	1945CST			0	0	10K		Thunderstorm Wind (G52)
			Seven or eight trees were downed. A house trailer was destroyed by a falling 12 inch diameter tree limb. A person escaped the trailer just seconds before it was destroyed.						
Hopkins County Madisonville	31	1950CST			0	0			Hail (1.75)
Muhlenberg County 1 S Greenville	31	2005CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
LOUISIANA, Northeast									
Morehouse Parish Bastrop	03	0115CST			0	0			Hail (0.75)
LOUISIANA, Northwest									
Sabine Parish Converse	01	0833CST			0	0			Hail (0.88)
LAZ001 Caddo	01	1800CST			0	0			Excessive Heat
	30	0000CST							
<p>This was one of the hottest and driest months ever recorded across much of north Louisiana. Climatologically, May of 1998 was the second driest on record in Shreveport with only 0.15 inches of rain which was 5.03 inches below normal. The record was 0.08 inches recorded in 1886. There was a stretch of days extending back to April 28, 1998 where no measurable rain occurred for 28 days (through May 25, 1998). The last dry period exceeding 28 days occurred during the excessively hot summer of 1980. This was also the third warmest May of record with an average temperature of 77.3 degrees. The month ended on a record note with the high temperature recorded May 31st at 102 degrees. This was the highest temperature recorded on any day in May since records began in 1974.</p>									
Bossier Parish 4 W Plain Dealing	02	2255CST			0	0			Hail (1.75)
Caddo Parish 3 E Hosston	02	2255CST			0	0			Hail (1.75)
Bossier Parish 3 E Benton	02	2315CST			0	0			Hail (1.75)
Golfball sized hail covered the ground near Hwy 162.									
Caddo Parish Hosston	02	2340CST			0	0			Hail (1.75)
Bossier Parish Benton	02	2345CST			0	0			Hail (0.75)
Webster Parish Minden	02	2355CST			0	0			Hail (1.75)
Bossier Parish Haughton	03	0020CST			0	0			Hail (0.88)
Lincoln Parish 3 SW Choudrant	03	0100CST			0	0			Thunderstorm Wind (G60)
Trees down just southwest of town.									
Webster Parish 1 S Springhill	03	0110CST			0	0			Thunderstorm Wind (G60)
Red River Parish 1 S Hall Summit	03	0115CST			0	0			Hail (0.75)
Ouachita Parish Monroe Arpt	03	0124CST			0	0			Thunderstorm Wind (G60)
Metar report.									
Claiborne Parish Athens	03	0130CST			0	0			Hail (0.75)
Ouachita Parish 2 S West Monroe	03	0140CST			0	0			Thunderstorm Wind (G60)
Trees down in town.									
LAZ002-002 Bossier	18	1500CST 1600CST			2	0			Excessive Heat
<p>A woman working as a seamstress in her apartment in Bossier City, LA, was found dead. The death was determined by the county coroner as heat related. F36PH, M68OU</p>									
Claiborne Parish 4 E Athens	26	1530CST			0	0			Thunderstorm Wind (G70)
Trees and powerlines were toppled along State Hwy 518 and 519. Reported by Sheriffs Office.									
Red River Parish Loggy Bayou	26	1759CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>LOUISIANA, Northwest</u>									
Caddo Parish									
3 W Mooringsport	27	1540CST			0	0			Thunderstorm Wind (G65)
Caddo Parish									
1 N Mooringsport	27	1545CST			0	0			Thunderstorm Wind (G65)
Caddo Parish									
20 SW Shreveport	27	1725CST			0	0			Hail (0.75)
Ouachita Parish									
Monroe	29	0110CST			0	0			Hail (0.88)
<u>LOUISIANA, Southeast</u>									
East Baton Rouge Parish									
Baton Rouge	28	1615CST			0	0			Hail (0.75)
									Dime size hail reported by trained spotter at the campus of Louisiana State University.
East Baton Rouge Parish									
Baton Rouge Ryan Arp	28	1645CST			0	0			Hail (1.00)
									Weather observer reported one inch diameter hail.
Pointe Coupee Parish									
8 SW New Roads	28	1815CST			0	0			Hail (1.00)
									One inch diameter hail reported by the Pointe Coupee Sheriff's Office between New Roads and Maringouin.
Pointe Coupee Parish									
New Roads	28	1820CST			0	0			Hail (1.75)
									Reported by New Roads Police Department.
Pointe Coupee Parish									
Livonia	28	1820CST			0	0			Hail (1.75)
									Reported by Pointe Coupee Sheriff's Office.
Pointe Coupee Parish									
10 SW New Roads	28	1840CST			0	0			Hail (1.00)
									Reported by the Pointe Coupee Sheriff's Office between New Roads and Maringouin.
<u>LOUISIANA, Southwest</u>									
LAZ027>028-030>032-041>043									
	20	0000CST			0	0			Drought
	31	0000CST							
									Drought conditions were in full force by mid May across southwest and central Louisiana. Most places saw less half an inch of rain, dating back to the last half of April. The major weather stations with long climatic histories, such as Lake Charles, Lafayette, and Alexandria recorded less than 0.10 inches of rain for the month of May. Many places saw absolutely no rain the entire month! The most significant impact in May was the drying up of shallow wells, with many farmers resorting to deeper wells for irrigation purposes. Some crops were beginning to see the affects of the drought, but any significant loses will be attributed to the month of June. See June 1998's Storm Data for a more complete listing of specific dollar figure damages.
									The other major story during May's drought, though not directly attributed to it, was the smoke and haze from Mexican and Central American forest fires. Many places had visibilities of 3 miles or less for over a week (May 12-20th), and people with respiratory ailments, as well as the elderly and young, were confined to their homes during this period.
<u>MAINE</u>									
Penobscot County									
Millinocket Arpt	21	1200EST			0	0			Hail (1.75)
Aroostook County									
Orient	21	1400EST			0	0			Hail (1.75)
									Thunderstorms moving through eastern Maine dropped golfball-size hail in several locations. The golfball-size hail was reported to be 4 inches deep at the airport in Millinocket where several planes were damaged and two inches deep in the Haynesville/Orient area. Small hail was reported in many other locations in eastern Maine.
Penobscot County									
Bangor	26	1200EST			0	0			Hail (0.79)
Washington County									
Danforth	26	1300EST			0	0			Hail (1.25)
									Thunderstorms dropped dime to half dollar-sized hail in Danforth and 2-cm hail in Bangor.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MAINE

York County Berwick	29	1622EST			0	0			Thunderstorm Wind (G55)
Cumberland County 5 N Cumberland Center	29	1742EST			0	0			Thunderstorm Wind (G55)
Cumberland County Freeport	29	1748EST			0	0			Thunderstorm Wind (G55)

Strong and gusty winds from thunderstorms knocked down trees and caused power outages in York and Cumberland Counties. Based on downed trees, winds were estimated to have gusted to over 58 mph.

York County Sanford	31	2004EST			0	0			Thunderstorm Wind (G55)
York County Hollis Center	31	2009EST			0	0			Thunderstorm Wind (G55)

Winds from thunderstorms moving through southwestern Maine knocked over trees in parts of York County causing scattered power outages. Based on the downed trees, wind gusts were estimated to be over 58 mph.

MARYLAND, Central

Allegany County West Portion	04	2100EST 2300EST			0	0	100K		Flood
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Slow-moving thunderstorms with very heavy rainfall aligned across the western portion of Allegany Co, dumping between 1 1/2 and 2 inches of rain in less than 3 hours onto saturated ground. Several streams and creeks overflowed their banks. In Midland, Neff's Run flooded, causing damage to the flood wall and washing away several gabion baskets. Damage to the baskets was estimated at \$100 thousand. A section of state route 936 was closed, and a few trees were knocked down by the swollen creek. Elsewhere, road and basement flooding was noted in Frostburg, McCoole, Lonaconing, and Rawlings.

Harford County Forest Hill	06	1455EST			0	0	2K		Hail (1.75)
Harford County Bel Air	06	1515EST			0	0	5K		Hail (1.75)

An isolated severe thunderstorm persisted over Harford Co, dropping golf ball-sized hail in at least two locations. In Bel Air, a resident had an estimated \$3,500 damage to his home.

Frederick County West Portion	08	1100EST 1600EST			0	0	3K		Flood
Washington County East Portion	08	1100EST 1600EST			0	0	3K		Flood

Heavy rain bands, producing total rain between 1 1/2 and 2 inches in some locations, caused flooding to ensue across portions of western Maryland on the 8th. The rains, falling onto saturated soil, closed numerous roads in each county. In eastern Washington Co, several roads were closed in and near Hagerstown, many which cross Antietam Creek. One of the closed roads was state route 66. In Frederick Co, at least a dozen roads were closed due to flood waters. Downtown Frederick was spared to some extent as a city flood-reduction project along Carroll Creek helped divert water away from downtown businesses. However, Baker Park reported some minor flooding.

All roads eventually reopened by May 10th.

Allegany County Flintstone	31	2100EST			0	0	3K		Thunderstorm Wind
Carroll County Taneytown	31	2255EST			0	0	3K		Thunderstorm Wind

A tornadic thunderstorm, which moments earlier had produced a moderate tornado in southern Pennsylvania, tracked across northern Allegany Co late on the 31st. An associated downburst knocked trees down and caused minor property damage in the town of Flintstone. Additional storms formed just before midnight over north-central Maryland, producing tree damage in northwestern Carroll Co.

MARYLAND, Northeast

MDZ012-015-019>020 Kent - Queen Annes - Talbot - Caroline	07	0000EST 0900EST			0	0	0		Dense Fog
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Dense fog the morning of May 7th forced the closure of schools for the entire day in Talbot County and 90 to 120 minute delays in openings of schools within Caroline, Kent and Queen Anne's Counties.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MARYLAND, Northeast

MDZ008-012-015-019>020 **Cecil - Kent - Queen Annes - Talbot - Caroline**

08	0200EST		0	0	Prolonged Rain
12	2100EST				

A series of low pressure systems that passed through the Middle Atlantic States and then stalled offshore gave the Maryland Eastern Shore nearly five days of continuous rain from when it started early in the morning on Friday the 8th until it exited the state from north to south on Tuesday the 12th. Storm totals averaged between 2.0 to 3.0 inches. The highest storm totals were in Cecil County. The heaviest rain for most areas fell on the 8th. Overall there were few periods of heavy downpours and there were sufficient lulls of light rain or drizzle to keep most small streams within bankfull. Most of the flooding problems were confined to flooded basements, backyards and some poor drainage flooding. The worst reported stream flooding was when Carroll Creek flooded the parking lot of the Fredericktown Mall on Friday the 8th. The prolonged rain was not expected to damage crops, but postpone some of the planting because of the wet fields. Storm totals included 3.09 inches in Conowingo (Cecil County), 2.80 inches in Salisbury, 2.14 inches at the Baltimore -Washington International Airport and 2.00 inches in Federalsburg (Caroline County).

A low pressure system heading toward the Middle Atlantic States was in the lower Ohio Valley the morning of the 7th. By the morning of the 8th, it moved into northern Indiana as a secondary was forming in Virginia. On the morning of the 9th, this secondary low was located about 285 miles eastsoutheast of Indian River Inlet, Delaware. But, it became trapped by a low at upper levels of our atmosphere and drifted slowly south through the morning of the 10th. Meanwhile, a large high pressure system started building into Northern New England. Yet another low pressure system developed over the Southern Plains on the 9th and was in the Tennessee Valley the morning of the 10th. On the morning of the 11th, two low pressure systems, one trapped under the closed low in the western Atlantic and the other just east of Charleston, South Carolina continued the wet onshore flow. These two lows merged into one by the morning of the 12th about 275 miles east of Cape Hatteras, North Carolina and remained nearly stationary through the 14th. The high pressure system over Northern New England slowly built south and brought drier air into the region and gave the area its first rain-free days of the month on the 13th and 14th.

Cecil County
Calvert to
Cecilton

31	2345EST		0	0	Thunderstorm Wind (G50)
	2359EST				

A line of severe thunderstorms caused scattered pockets of wind damage throughout Cecil County, mainly in the eastern half of the county. Roof damage was reported within Elkton. In Cecilton, sheds were blown over and several two hundred foot tall trees were knocked down. At least one vehicle was damaged. Frequent lightning set trees on fire in Chesapeake City and North East and also ignited a wire fire in Glen Farms. About 3,000 homes lost power in the county. All power was restored by the afternoon of the first.

MARYLAND, South

Worcester County
4 E Snow Hill

25	2250EST		0	0	Hail (1.00)
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Worcester County
4 E Snow Hill

25	2250EST		0	0	Thunderstorm Wind (G74)
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Estimated wind gust of 74 knots (85 mph) was reported by an employee of Delmarva Power.

MARYLAND, West

Garrett County
Finzel

04	1940EST		0	0	Flood
	2100EST				

A road was closed due to flooding near Finzel.

Garrett County
2 NE Thayerville

16	1745EST		0	0	Hail (1.00)
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One-half inch to one-inch diameter hail was reported in Deep Creek Lake State Park.

MASSACHUSETTS, Central and East

MAZ011

Eastern Hampden
06 **1600EST**
 2100EST

			0	0	Heavy Rain
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Hampden County
Longmeadow

06	1930EST		0	0	Flood
	2140EST				

A slow-moving cold front caused thunderstorms which dropped heavy rain across much of Hampden County during the late afternoon and early evening of May 6th. Rainfall totals of 2 to 4 inches were reported in just a few hours. This resulted in flash flooding along several small streams, including the Pecousic River and Watchaug Brook in Longmeadow. Damage was minor and confined to isolated road damage and basement flooding of several homes along the streams. In addition, flooding was reported on Route 186 in East Longmeadow and Dwight Road in Longmeadow. Water receded by 10 PM. Several basements were reported flooded in Springfield and Chicopee. In Chicopee Falls, runoff swamped intersections and left motorists stranded when their cars

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MASSACHUSETTS, Central and East

stalled.

There were many reports of small hail during the late afternoon and early evening. Among the reports were pea size hail at Monson, Springfield, Ludlow, and Wilbraham. Half-inch, or marble-size hail, fell in Belchertown and pea size hail fell in Amherst, both located in Hampshire County.

MAZ005>007-013>024 Western Middlesex - Western Essex - Eastern Essex - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket									
	09	0600EST			0	0			Strong Winds
	12	1800EST							
Bristol County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Essex County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Middlesex County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Norfolk County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Plymouth County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Suffolk County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
Worcester County									
Countywide	09	2100EST			0	0			Heavy Rain
	11	1800EST							
MAZ005-013 Western Middlesex - Western Norfolk									
	12	0100EST			0	0			Flood
	16	0100EST							
A strong low pressure system to the south and southeast of Cape Cod combined with high pressure over eastern Canada to produce a four-day nor'easter. Strong northeast winds gusted to 35 to 50 mph, especially along the east coast of Massachusetts, and persisted for four days from May 9th through the 12th. Periods of heavy rain produced totals ranging from two to four and one-half inches over most of the eastern half of the state. The periods of heavy rain occurred from the early morning hours of May 10th into the afternoon of May 11th. By the time the rain ended by the evening on the 11th, the greatest totals reported included: Milton, 4.51 inches; Hingham, 3.91 inches; Blue Hill Observatory, Milton, 3.78 inches; and Stoughton, 3.25 inches. The monthly total for May reached 7.47 inches at Blue Hill. Other amounts generally were in the range of 2 to 3 inches over the eastern half of the state. The heavy rain was partly responsible for a roof collapse at a library in Taunton -- a damage figure was not available.									
The heavy rainfall eventually resulted in minor flooding along two mainstem rivers in eastern Massachusetts. The Assabet River in the Merrimack Basin reached flood stage of 5.0 feet at Maynard at 2 AM on May 12th, crested at 5.10 feet at 10 PM on the same day, then fell below flood stage at 5 AM on May 13th. The Charles River at Dover reached flood stage of 5.0 feet at 9 PM on the 12th, crested at 5.30 feet at 5 AM on the 14th, then fell below flood stage at 2 AM on May 16th.									
Peak wind gusts at the Blue Hill Observatory in Milton, elevation 640 feet, included: May 9th, 46 mph; May 10th, 53 mph; May 11th, 51 mph; and May 12th, 50 mph. There were no reports of wind damage.									
MAZ016 Eastern Norfolk									
	19	0933EST			0	0			Strong Winds
Strong northwest winds occurred during the late morning, when a peak gust to 40 mph occurred at the Blue Hill Observatory in Milton, at an elevation of 640 feet above sea level.									
Franklin County									
Turners Falls	20	1645EST			0	0			Hail (0.75)
Franklin County									
Leverett	20	1705EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MASSACHUSETTS, Central and East									
Franklin County									
North Leverett	20	1705EST			0	0			Hail (1.00)
Franklin County									
Northfield	20	1725EST			0	0			Hail (0.75)
Worcester County									
Royalston	20	1820EST			0	0			Hail (0.75)
Severe thunderstorms affected several towns in Franklin County and one town in Worcester County during the late afternoon and early evening. In Franklin County, trained spotters reported quarter size hail in North Leverett; dime size hail in Leverett and Northfield. An amateur radio operator reported dime size hail in the Turners Falls section of Greenfield. In Worcester County, a trained spotter reported dime size hail accumulating along the road in Royalston.									
Franklin County									
Charlemont	29	1605EST			0	0			Thunderstorm Wind (G50)
Hampshire County									
Huntington	29	1638EST			0	0	5K		Lightning
Franklin County									
Montague	29	1645EST			0	0			Thunderstorm Wind (G50)
Hampshire County									
Cummington to Worthington Corners	29	1645EST			0	0			Thunderstorm Wind (G50)
Worcester County									
Athol	29	1650EST 1655EST			0	0	5K		Thunderstorm Wind (G50)
Hampden County									
West Springfield to Agawam	29	1704EST 1710EST			0	0			Thunderstorm Wind (G50)
Hampshire County									
Easthampton	29	1707EST			0	0			Hail (0.75)
Hampden County									
West Springfield	29	1710EST			0	0			Hail (0.88)
Hampshire County									
Belchertown	29	1710EST			0	0			Hail (1.00)
Worcester County									
Fitchburg	29	1717EST 1724EST			0	0			Thunderstorm Wind (G50)
Worcester County									
West Brookfield	29	1725EST			0	0			Hail (0.75)
Middlesex County									
Tyngsboro to Dracut	29	1745EST			0	0			Thunderstorm Wind (G50)
Worcester County									
Oxford	29	1755EST			0	0			Funnel Cloud
Essex County									
Newbury	29	1800EST			0	0			Thunderstorm Wind (G50)
Middlesex County									
Billerica	29	1800EST			0	0			Thunderstorm Wind (G50)

An active cold front collided with a warm, very humid airmass during the late afternoon and early evening and resulted in numerous thunderstorms, many of which became severe in parts of northern and western Massachusetts. Reports of severe storms started in Charlemont in Franklin County at 5 PM and ended in Newbury in Essex County at 7 PM.

In Franklin County, trees and wires were down, Route 2 was blocked in Charlemont, and power lines were down in Montague. In Hampshire County, trees were reported down in Cummington and Worthington. Quarter size hail was reported in Belchertown and dime size hail fell in Easthampton. In Huntington, a house was set afire by a lightning strike. In Hampden County, thunderstorm winds knocked down several large trees in West Springfield. One was 2 to 3 feet in diameter. Nickel size hail was reported in West Springfield. Also, in Hampden County, tree damage was reported in Agawam, where a street was blocked by fallen trees. In Worcester County, in the town of Athol, large trees were knocked down on three vehicles. Trees were reported blown down in Fitchburg. Dime size hail was reported in West Brookfield. A funnel cloud was observed in Oxford. In Middlesex County, trees were blown down in Tyngsboro and Dracut and power lines were downed in Billerica. The last report of severe weather for the day came from Essex County in northeastern Massachusetts, where trees and wires were reported down in Newbury.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MASSACHUSETTS, Central and East

Worcester County Gardner	31	1017EST			0	0			Hail (0.75)
Essex County Peabody	31	1058EST			0	0			Hail (0.88)
Middlesex County Chelmsford Center	31	1058EST			0	0			Hail (0.75)
Middlesex County Littleton	31	1100EST			0	0			Thunderstorm Wind (G60)
Middlesex County Lowell	31	1108EST			0	0			Hail (0.88)
Essex County Peabody	31	1110EST			0	0			Hail (0.75)

A severe thunderstorm moved eastward across northern Massachusetts, producing some large hail and one report of damaging thunderstorm winds during the late morning and early afternoon. The storm affected a few towns in northern Worcester and northern Middlesex Counties and the town of Peabody in Essex County. In Worcester County, dime size hail fell in Gardner. In Middlesex County, nickel size hail fell in Lowell and dime size hail was reported in Chelmsford. Trees up to 3 to 4 inches in diameter were blown down in Littleton, also in Middlesex County. Nickel and dime size hail fell in Peabody, in Essex County.

Franklin County Shelburne Falls to Bernardston	31	1630EST 1700EST			0	0			Thunderstorm Wind (G60)
Franklin County Greenfield	31	1650EST			0	0			Thunderstorm Wind (G59)
Franklin County Northfield to Warwick	31	1710EST			0	0			Thunderstorm Wind (G60)

A severe thunderstorm moved through Franklin County bringing damaging winds to many communities during the late afternoon. A wind gust to an estimated 68 mph was reported by a spotter in Greenfield at 5:50 PM. In addition, law enforcement officials reported that trees were blown down between 5:30 PM and 6:10 PM in Shelburne Falls, Shelburne, Conway, Gill, Bernardston, Leyden, Northfield, and Warwick.

Worcester County Winchendon to Templeton	31	1703EST 1710EST			2	0	15K		Thunderstorm Wind (G61)
		M25VE, M27VE							
Middlesex County Pepperell to Dunstable	31	1722EST			0	1	10K		Thunderstorm Wind (G60)
Worcester County Phillipston	31	1730EST			0	0			Thunderstorm Wind (G50)
Franklin County Orange	31	1740EST			0	0	2K		Thunderstorm Wind (G50)
Essex County Haverhill	31	1745EST			0	0			Thunderstorm Wind (G50)
Middlesex County Lowell	31	1745EST			0	0			Thunderstorm Wind (G50)
Hampshire County Hadley	31	1749EST			0	0	20K		Lightning
Essex County Methuen	31	1800EST			0	0	10K		Lightning
Essex County Methuen	31	1804EST			0	0			Thunderstorm Wind (G50)

A severe thunderstorm moving through northern Worcester County resulted in the deaths of two men in their twenties in Winchendon. They were killed when thunderstorm winds gusting to an estimated 60 to 70 mph blew a tree down on a car travelling on Route 202, as reported by local police. Large tree limbs were blown down and electric power was knocked out in Templeton and trees and wires were reported down in Phillipston on Royalston Road. In northern Middlesex County, two trees and a number of tree limbs and wires were knocked down in Pepperell. One falling tree totalled a car, resulting in minor injury to one person, as reported by police. In Essex County, trees were reported down in Haverhill and Methuen, as per police and a spotter. A three-family house was struck by lightning and set on fire in Methuen. A different severe thunderstorm occurring at about the same time as the storm farther to the east resulted in wind damage in the town of Orange in Franklin County, where two trees were blown

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MASSACHUSETTS, Central and East									
									down and a third tree landed on a truck, damaging the roof and windshield. In Hampshire County, in the town of Hadley, lightning started a fire which destroyed a barn -- no injuries were reported.
Franklin County Buckland	31	2007EST			0	0			Hail (0.75)
Hampshire County South Hadley to Granby	31	2030EST 2032EST			0	0			Hail (0.75)
Hampden County Chicopee to Wilbraham	31	2035EST 2046EST			0	0			Thunderstorm Wind (G58)
Hampden County West Springfield to Chicopee	31	2040EST			0	0			Hail (0.75)
Hampshire County Belchertown	31	2053EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm affected parts of Franklin, Hampshire, and Hampden Counties during the evening hours, with large hail and damaging winds. There was one report of dime size hail in Franklin County in the town of Buckland. In Hampden County, a peak wind gust to 67 mph was recorded at Barnes Airport in Chicopee. Dime size hail fell in West Springfield and ten or more trees were blown down. In Wilbraham, four trees were reported blown down and power was knocked out. In Hampshire County, dime size hail fell in South Hadley and Granby and there were reports of trees and wires knocked down in Belchertown.
Worcester County New Braintree	31	2108EST			0	0			Hail (0.75)
Worcester County Charlton to Oxford	31	2110EST			0	0	30K		Thunderstorm Wind (G52)
Worcester County Worcester	31	2111EST Worcester Municipal Airport			0	0			Thunderstorm Wind (G82)
Worcester County New Braintree	31	2115EST			0	0			Thunderstorm Wind (G70)
Worcester County Worcester	31	2115EST Worcester Holy Cross College			0	0			Thunderstorm Wind (G90)
Worcester County West Brookfield	31	2118EST			0	0			Hail (0.75)
Middlesex County Marlboro Arpt	31	2120EST			0	0			Thunderstorm Wind (G50)
Worcester County Grafton	31	2120EST			0	0			Thunderstorm Wind (G70)
Worcester County Leominster	31	2120EST			0	0			Thunderstorm Wind (G60)
Worcester County Worcester to Shrewsbury	31	2125EST			0	0	10M		Thunderstorm Wind (G80)
Worcester County Westborough to Southborough	31	2130EST			0	0	8K		Thunderstorm Wind (G60)
Worcester County Upton	31	2135EST			0	0			Thunderstorm Wind (G60)
Norfolk County Medfield to Walpole	31	2143EST			0	0			Thunderstorm Wind (G50)
Middlesex County Hopkinton to Natick	31	2150EST 2200EST			0	0			Thunderstorm Wind (G70)
Middlesex County Waltham to Newton	31	2155EST 2200EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MASSACHUSETTS, Central and East

Norfolk County Brookline

31	2200EST			0	0			Thunderstorm Wind (G50)
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Severe thunderstorms moved through central and southern Worcester County and caused intense downbursts between about 10 PM and 1030 PM. Two primary macroburst paths were identified by a National Weather Service survey on June 1st. The more southern path produced locally severe damage in parts of Charlton and Oxford, where a wind gust to 60 mph was reported by a spotter. It may be possible to trace this path back to the Brookfield, Brimfield, and Wilbraham areas, where there also were reports of wind damage. A second macroburst path could be traced nearly west to east across central Worcester County, from North Brookfield through Spencer, Leicester, Worcester, Shrewsbury, and Grafton. Along this path, a wind gust to 104 mph was recorded at 10:15 PM at Holy Cross College in Worcester at an elevation of approximately 750 feet. At 10:11 PM, the Automated Surface Observation System (ASOS) at the Worcester Municipal Airport reported a peak gust to 94 mph. This equaled the highest wind gust on record for Worcester set on December 10, 1953. A small airplane was damaged at Worcester Airport even though it had been tied down. The plane landed on its roof and its windshield was shattered and both doors were ripped off. A 65-foot flagpole in front of the terminal building at the Airport was broken in three places. A small section of the roof of the terminal building was damaged. Along both paths of wind damage, numerous one to two foot diameter trees were snapped off or uprooted. Most of the damage was caused by trees falling on houses, cars, and power lines. Dozens of utility poles were snapped off. A 24-foot by 36-foot barn was demolished and one large tractor trailer was blown onto its side in Oxford. Winds tore sections of roofs from two school buildings in the city of Worcester. Some flying debris crashed through a window of a nearby home. Siding and awning damages to homes and businesses were observed in a few locations. A number of windows in a nursing home in Charlton were blown in. Trees fell in essentially one direction (to the east) and at times exhibited a divergent pattern.

East of the city of Worcester and still in Worcester County, there was considerable wind damage in Shrewsbury, Westborough, and Southborough. On one particular street in Westborough, five large trees were blown down in one yard and an automobile severely damaged. Similar damage occurred in Shrewsbury, where damage was estimated at \$10,000 to one home. As the severe thunderstorm continued to the east, wind damage occurred in parts of Middlesex and Norfolk Counties. First, in Middlesex County in Marlborough, Hopkinton, and Natick, officials reported trees and wires down. In Ashland, a tremendous number of trees were reported blown down, per local police. Trees were reported blown down on many streets in Newton, farther to the east. Trees were blown down on one street in Waltham and three trees were downed in Belmont. In Norfolk County, trees were blown down in Medfield, Walpole, and Brookline.

The day after the storm, a state of emergency was declared in Worcester, Shrewsbury, and Charlton in Worcester County, so that the state could assist with debris removal. Between 20,000 and 30,000 electric customers lost power in central Massachusetts due to the storms.

Bristol County Seekonk

31	2133EST			0	0			Lightning
	2200EST							

A lightning strike set a house on fire in Seekonk. There was no estimate of dollar damage.

MASSACHUSETTS, West

Berkshire County Dalton

20	1552EST			0	0	3K	Hail (1.00)
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During the afternoon of May 20, a cold frontal passage initiated an isolated severe thunderstorm in Berkshire County. The severe thunderstorm produced one inch hail at Dalton.

Berkshire County Cheshire

29	1553EST			0	0	10K	Thunderstorm Wind
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Berkshire County Great Barrington

29	1630EST			0	0	6K	Thunderstorm Wind
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Berkshire County Montgomery

29	1635EST			0	0		Hail (0.75)
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During the afternoon of May 29, a line of fast moving severe thunderstorms crossed western Massachusetts. This intense convection developed well ahead of a strong cold front and produced damage across much of Berkshire County. Damage was most widespread in the Towns of Adams, Cheshire and Hancock. In the Town of Cheshire, the southbound lane of State Road 8 was closed for several hours due to fallen trees.

Berkshire County Pittsfield

31	1645EST			0	0	8K	Hail (1.75)
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Berkshire County North Adams

31	1855EST			0	0	35K	Thunderstorm Wind (G61)
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Berkshire County Great Barrington

31	1900EST			0	0		Hail (0.75)
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Berkshire County Pittsfield

31	1903EST			0	0	10K	Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MASSACHUSETTS, West

Berkshire County **South Lee**

31	2000EST				0	0	8K		Thunderstorm Wind
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During the morning hours of May 31, a strong low pressure system over the upper Great Lakes pushed a warm front across eastern New York and western New England. This set the stage for severe weather in Berkshire County. In this highly sheared environment several lines of severe thunderstorms formed ahead of an approaching cold front. Severe thunderstorms downed trees and power lines in several locations. Approximately 5,000 customers lost power during the storms. At North Adams, a large tree crushed part of a house and garage. At Pittsfield, a severe thunderstorm produced golf ball size hail.

MICHIGAN, East

Saginaw County **1 NE Chapin**

01	2018EST 2300EST				0	0			Flash Flood
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A slow moving thunderstorm dumped heavy rain in far southwest Saginaw County. Isolated locations may have seen as much as six inches of rain during the evening hours. A cooperative observer reported high water across Steel Road, between Chapin and state highway 57.

Tuscola County **4 N Caro**

05	1915EST				0	0			Hail (0.75)
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A small area of thunderstorms developed in the Saginaw Valley and western Thumb areas during the evening hours. One storm produced marginally severe hail in northern Tuscola County.

Livingston County **Hartland**

06	1315EST				0	0			Hail (0.75)
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Huron County **Sebewaing**

06	1630EST				0	0			Hail (0.88)
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A broken line of thunderstorms developed in the afternoon from Brighton north to the western Thumb. These storms occurred along a boundary left over from convection the previous evening. The strongest of these pulse-type storms again produced marginally severe hail. The Sebewaing storm was likely enhanced by an interaction with a lake breeze off of Lake Huron.

Sanilac County **Sandusky**

19	1612EST				0	0			Hail (1.00)
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Huron County **Sebewaing**

19	1615EST 1624EST				0	0			Hail (1.25)
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Sanilac County **Sandusky**

19	1620EST				0	0			Hail (0.75)
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Tuscola County **4.5 NW Cass City**

19	1630EST				0	0			Hail (1.75)
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Tuscola County **Unionville to Colling**

19	1630EST				0	0			Hail (1.75)
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Tuscola County **Cass City**

19	1645EST				0	0			Hail (1.75)
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Huron County **Bay Port**

19	1650EST				0	0			Hail (0.75)
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Sanilac County **3 NE Marlette**

19	1715EST				0	0			Hail (1.00)
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Huron County **Harbor Beach**

19	1735EST				0	0			Hail (1.50)
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St. Clair County **5 W Port Huron**

19	1804EST				0	0			Hail (0.75)
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Thunderstorms developed in northern lower Michigan on the afternoon of the 19th, just ahead of a slow-moving cold front. These storms moved southeast across Saginaw Bay and into the Thumb region, where they produced large quantities of hail. Golfball sized hail fell over a large part of northern Tuscola County, thanks to two separate thunderstorms. In Sebewaing, a ten minute hailfall covered the ground.

Saginaw County **Chesaning**

29	0200EST				0	0			Thunderstorm Wind (G52)
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Saginaw County **Birch Run**

29	0215EST				0	0			Thunderstorm Wind (G52)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, East									
Genesee County Flushing to 2 S Mt Morris	29	0225EST 0235EST			0	0			Thunderstorm Wind (G52)
Saginaw County Saginaw	29	0230EST			0	0			Thunderstorm Wind (G52)
Bay County 5 E Bay City	29	0237EST			0	0			Thunderstorm Wind (G52)
Genesee County Otisville	29	0245EST			0	0			Thunderstorm Wind (G52)
Tuscola County 2 NW Fairgrove to Akron	29	0245EST			0	0	5K		Thunderstorm Wind (G69)
Lapeer County North Branch to Clifford	29	0252EST			0	0			Thunderstorm Wind (G52)
Tuscola County 4 SE Kingston	29	0308EST			0	0			Hail (0.75)
Sanilac County Marlette	29	0318EST			0	0			Thunderstorm Wind (G61)
A weak cold front was oriented west to east across northern lower Michigan. A mesoscale convective system developed over the upper Mississippi Valley on the 28th, and stayed just south of the front as it crossed lower Michigan from west to east during the early morning hours of the 29th. Pockets of wind damage were associated with these storms in the Saginaw Valley and Thumb areas.									
Most of the wind damage was composed of downed trees and power lines. The most notable exception to this was a thunderstorm in northwest Tuscola County. This storm destroyed a large barn just northwest of Fairgrove. A spotter in nearby Akron estimated wind gusts of 80 mph.									
The next most potent storm of the morning struck southeast Tuscola County and southwest Sanilac County. The only severe hail that morning came from this storm near the Tuscola-Sanilac county line. A National Weather Service employee estimated 70 mph winds near Marlette, with significant tree damage.									
Tuscola County Unionville	30	2330EST			0	0			Hail (1.00)
Huron County Ruth	31	0040EST			0	0			Hail (0.75)
A warm front moved north into lower Michigan during the late evening hours of the 30th. A broken line of thunderstorms developed along the front in the Saginaw Bay and Thumb areas. Two of these storms briefly became severe, producing large hail.									
Midland County 2 E Coleman to 2 NW Sanford	31	0450EST 0500EST			0	0	75K		Thunderstorm Wind (G65)
Midland County 3 SW Edenville to 2 NE Hope	31	0454EST 0458EST			0	0	50K		Thunderstorm Wind (G65)
Midland County 12 SW Midland	31	0500EST			0	0	100K		Thunderstorm Wind (G70)
Midland County Sanford to Midland	31	0500EST			0	0	150K		Thunderstorm Wind (G65)
Bay County 4 W Auburn to 3 N Auburn	31	0505EST 0515EST			0	0	200K		Thunderstorm Wind (G70)
Saginaw County .5 S Oakley	31	0505EST			0	0	10K		Thunderstorm Wind (G59)
Shiawassee County 2.5 NE Henderson to Owosso	31	0505EST 0510EST			0	0	630K		Thunderstorm Wind (G70)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MICHIGAN, East									
Saginaw County									
Merrill to 1 N Hemlock	31	0510EST 0515EST			0	0	80K		Thunderstorm Wind (G75)
Bay County									
Linwood to Pinconning	31	0512EST 0520EST			1	0	100K		Thunderstorm Wind (G70)
	F30PH								
Shiawassee County									
8 N Laingsburg to 2 NW Carland	31	0512EST 0515EST			0	0	120K		Thunderstorm Wind (G77)
Shiawassee County									
3 S Laingsburg to 2 N Morrice	31	0516EST 0530EST			0	0	100K		Thunderstorm Wind (G70)
Saginaw County									
3 S Freeland to 3 NE Saginaw	31	0519EST 0527EST			0	0	1M		Thunderstorm Wind (G75)
Bay County									
Bentley to Mt Forest	31	0520EST			0	0	50K		Thunderstorm Wind (G65)
Shiawassee County									
Owosso	31	0520EST			0	0			Hail (0.75)
Shiawassee County									
New Lothrop to 9 E Corunna	31	0522EST 0525EST			0	0	60K		Thunderstorm Wind (G65)
Genesee County									
3.5 W Flushing	31	0525EST	0.1	20	0	0	10K		Tornado (F0)
Genesee County									
3 W Flushing to 3 SW Mt Morris	31	0525EST			0	0	5K		Thunderstorm Wind (G55)
Genesee County									
Gaines to 4 E Swartz Creek	31	0525EST 0532EST			0	0	5K		Thunderstorm Wind (G55)
Saginaw County									
Birch Run	31	0525EST			0	0	125K		Thunderstorm Wind (G65)
Shiawassee County									
Corunna to Durand	31	0525EST 0535EST			0	0	60K		Thunderstorm Wind (G65)
Saginaw County									
Bridgeport to 6 E Saginaw	31	0526EST 0527EST			0	0	300K		Thunderstorm Wind (G70)
Bay County									
Bay City to 7.5 SE Bay City	31	0527EST 0529EST			0	0	1M		Thunderstorm Wind (G70)
Genesee County									
3 NW Argentine to Fenton	31	0528EST 0535EST			0	0	25K		Thunderstorm Wind (G65)
Genesee County									
Flint to Davison	31	0530EST 0545EST			0	0	25K		Thunderstorm Wind (G60)
Genesee County									
Montrose to Clio	31	0530EST 0535EST			0	0	5K		Thunderstorm Wind (G55)
Shiawassee County									
4 S Bancroft to Byron	31	0530EST 0535EST			0	0	30K		Thunderstorm Wind (G60)
Tuscola County									
5 NW Akron	31	0530EST			0	0	6K		Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, East									
Tuscola County 2 N Vassar	31	0530EST			0	0	5K		Thunderstorm Wind (G55)
Genesee County 2 NW Genesee to 2 S Otisville	31	0533EST 0542EST			0	0	5K		Thunderstorm Wind (G55)
Genesee County Grand Blanc to Goodrich	31	0535EST 0540EST			0	0	10K		Thunderstorm Wind (G55)
Huron County 2 S Sebewaing	31	0535EST			0	0	2K		Thunderstorm Wind (G52)
Tuscola County Caro	31	0535EST			0	0	100K		Thunderstorm Wind (G65)
Tuscola County Millington to 6 S Mayville	31	0535EST			0	0	10K		Thunderstorm Wind (G59)
Tuscola County 5 NW Cass City to Cass City	31	0538EST 0540EST			0	0	5K		Thunderstorm Wind (G52)
Lapeer County Columbiaville	31	0541EST			0	0			Thunderstorm Wind (G52)
Huron County Pigeon to Elkton	31	0542EST 0544EST			0	0	20K		Thunderstorm Wind (G55)
Huron County 5 NE Caseville to 5 SW Port Austin	31	0545EST 0552EST			1	0	35K		Thunderstorm Wind (G60)
	M31CA								
Livingston County 4 W Pinckney	31	0545EST			0	0	2K		Thunderstorm Wind (G52)
Livingston County Fowlerville to Cohoctah	31	0547EST			0	0	5K		Thunderstorm Wind (G52)
Lapeer County 1 W Clifford to Burnside	31	0548EST 0555EST			0	0			Thunderstorm Wind (G52)
Huron County Bad Axe	31	0550EST			0	0	5K		Thunderstorm Wind (G52)
Lapeer County 2 NW Lapeer to Metamora	31	0550EST 0602EST			0	0	25K		Thunderstorm Wind (G55)
Livingston County 8 N Hartland to Hartland	31	0550EST			0	0	5K		Thunderstorm Wind (G52)
Livingston County Howell	31	0550EST			0	0	5K		Thunderstorm Wind (G52)
Oakland County Highland to Andersonville	31	0550EST 0555EST			0	0	15K		Thunderstorm Wind (G60)
Oakland County Holly to Ortonville	31	0550EST			0	2	40K		Thunderstorm Wind (G70)
Tuscola County Unionville	31	0550EST			0	0	25K		Thunderstorm Wind (G55)
Oakland County Clarkston to 2 SW Lake Orion	31	0552EST 0601EST			0	0	10K		Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, East									
Tuscola County									
Kingston to 12 E Mayville	31	0552EST 0600EST			0	0	10K		Thunderstorm Wind (G60)
Sanilac County									
Marlette to Brown City	31	0555EST 0602EST			0	0	10K		Thunderstorm Wind (G55)
Sanilac County									
Minden City to Deckerville	31	0557EST 0558EST			0	0	30K		Thunderstorm Wind (G60)
Sanilac County									
Shabbona to 2 N Decker	31	0557EST 0558EST			0	0	20K		Thunderstorm Wind (G60)
Sanilac County									
New Greenleaf to Argyle	31	0558EST 0600EST			0	0	25K		Thunderstorm Wind (G60)
Huron County									
5 S Harbor Beach	31	0600EST			0	0	5K		Thunderstorm Wind (G55)
Oakland County									
Oxford to 2 SW Leonard	31	0600EST 0603EST			0	0	27K		Thunderstorm Wind (G65)
Livingston County									
Brighton	31	0602EST			0	0	5K		Thunderstorm Wind (G52)
Lapeer County									
1 S Attica to Almont	31	0603EST 0607EST			0	0	75K		Thunderstorm Wind (G55)
Lapeer County									
1 W Lum	31	0603EST			0	0	2K		Thunderstorm Wind (G52)
Sanilac County									
Sandusky	31	0604EST			0	0	5K		Thunderstorm Wind (G52)
Sanilac County									
2 N Peck to 1.5 E Melvin	31	0605EST 0608EST			0	0	15K		Thunderstorm Wind (G60)
St. Clair County									
Capac	31	0605EST			0	0	25K		Thunderstorm Wind (G60)
Oakland County									
South Lyon to Novi	31	0610EST 0625EST			0	0	5K		Thunderstorm Wind (G52)
Sanilac County									
Croswell	31	0613EST			0	0	15K		Thunderstorm Wind (G55)
Oakland County									
Keego Harbor	31	0615EST			0	0			Thunderstorm Wind (G52)
Oakland County									
South Lyon	31	0615EST			0	0	10K		Lightning
St. Clair County									
Yale	31	0615EST			0	0	8K		Thunderstorm Wind (G55)
Macomb County									
Armada to 3 SW Romeo	31	0620EST 0625EST			0	0	405K		Thunderstorm Wind (G78)
Macomb County									
Memphis to Richmond	31	0620EST 0630EST			0	0	50K		Thunderstorm Wind (G70)
Washtenaw County									
Dexter	31	0620EST			0	0			Thunderstorm Wind (G52)
St. Clair County									
5.5 S Emmett	31	0625EST			0	0	2K		Thunderstorm Wind (G52)
Wayne County									
Northville	31	0625EST			0	0	2K		Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, East									
St. Clair County 5 W Marysville to Port Huron	31	0626EST 0630EST			0	0	125K		Thunderstorm Wind (G55)
Macomb County Fraser	31	0635EST			0	0	5K		Thunderstorm Wind (G52)
St. Clair County Marine City	31	0637EST			0	0	5K		Thunderstorm Wind (G52)
Oakland County Troy	31	0640EST			0	0			Thunderstorm Wind (G52)
Wayne County Dearborn	31	0644EST			0	0	5K		Lightning
Wayne County Dearborn	31	0644EST			0	0	20K		Thunderstorm Wind (G60)
Wayne County Livonia	31	0645EST			0	0	5K		Thunderstorm Wind (G52)
Washtenaw County Ypsilanti	31	0655EST			0	0	18K		Lightning
Macomb County St Clair Shrs	31	0703EST			0	0	2K		Thunderstorm Wind (G52)
Wayne County Rockwood	31	0755EST			0	0			Hail (1.00)
Monroe County South Rockwood	31	0803EST			0	0			Hail (0.75)

On the evening of the 30th, a strong low pressure system was located over the upper Mississippi Valley. The low moved rapidly east that night, reaching northern lower Michigan by daybreak on the 31st. The warm front associated with the low moved north across the Lower Peninsula overnight, ushering in an unstable air mass. A potent upper level disturbance also moved east across Michigan during the early morning hours of the 31st. Wind speeds were extremely high aloft, with 65 mph winds located less than a half mile above ground level.

Thunderstorms developed in the northern Plains during the afternoon of the 30th. The storms organized and accelerated as they headed east. The thunderstorm complex evolved into a serial derecho as it crossed eastern Wisconsin and Lake Michigan. The derecho affected most of lower Michigan during the early morning hours of the 31st, producing one of the most widespread wind damage events in state history. The derecho moved east across the state at about 70 mph.

Two fatalities were directly attributed to the storms in southeast Michigan. In Pinconning in Bay County, a woman was killed when a tree fell on her home as she slept. In Port Crescent State Park, just southwest of Port Austin in Huron County, a tent occupied by two people was struck by a falling tree, killing one of the occupants (the other was unhurt). Two injuries occurred at the Holly State Recreation Area in Oakland County. Both were campers who were hurt in separate incidents by falling trees. One suffered a possible broken leg, while the other may have suffered broken ribs.

In southeast Michigan, wind damage generally increased as you went north. Most of Metro Detroit saw only patchy wind damage. Widespread damage began in the far northern suburbs of Detroit, and continued north into Flint, the Tri Cities, and the Thumb. Most of the damage done to structures was caused by falling trees.

Midland County was the first southeast Michigan county to experience the derecho. Structural damage was reported in Porter, Warren, Edenville, Hope, and Jerome Townships. Outbuildings were the most vulnerable to the wind, with many barns, sheds, and garages damaged or destroyed. Trees and power lines down were a common sight countywide. Consumers Power reported that thirteen thousand customers in the Midland area lost power due to the thunderstorms.

Damage was widespread in Bay County. Bay City was especially hard hit, with many trees down and a gas main broken. The city clock tower had one of its faces torn off, and the drawbridge across the Saginaw River had all four gates snapped off. The Coast Guard Station in nearby Essexville recorded an 81 mph wind gust. Eleven thousand Bay City area residents were without power at the height of the storm. Again, trees and power lines down were a common problem countywide. Crews were still cleaning up debris almost two months after the storms went through. Public damage alone was estimated at \$610,000. President Clinton declared Bay County a Federal Disaster Area.

Saginaw County also received a Federal Disaster Declaration. Damage was most widespread in the northern and eastern parts of the county. Townships hardest hit were Jonesfield, Richland, Bridgeport, Thomas, Birch Run, Carlton, Kochville, and Tittabawassee. Also hard hit were the cities of Saginaw and Zilwaukee. The Tri Cities International Airport recorded an 86 mph wind gust, while a

Storm Data and Unusual Weather Phenomena

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Location	Time Local/ Standard Date	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
				Killed	Injured	Property	Crops	

MICHIGAN, East

spotter near Oakley estimated 70 mph winds. Several homes suffered structural damage, with most of the damage again caused by fallen trees. Public damage alone was estimated at \$750,000. Fifty-eight thousand Consumers Power customers in the Saginaw area lost power at the height of the storm, and it took over a week to get power restored in some places.

The other county in southeast Michigan to receive a Federal Disaster Declaration was Shiawassee. A spotter north of Laingsburg estimated 89 mph winds, while another spotter just northeast of Henderson reported 70 mph winds. The hardest hit areas in the county included Owosso, Durand, and Fairfield Township. In Owosso, over half a million dollars in damage was done to the high school alone. About 25,000 Owosso area residents lost power during the storm. All told, fifty homes and twenty-six businesses in Shiawassee County were damaged, along with about fifty agricultural outbuildings. The derecho felled about five thousand trees in the county.

The Thumb counties of Huron, Tuscola, and Sanilac also experienced damaging winds. Numerous barns were deroofed in the west half of Huron County, and a pair of utility plants were damaged. A gazebo in Wagener Park, between Harbor Beach and White Rock, was destroyed. In Tuscola County, the wind was estimated in the 70 to 85 mph range by the Michigan State Police at their Caro post. Property damage was extensive in the Caro area, including a tree that fell through the roof of the county building. Unionville was also hit hard, with several homes struck by falling trees. County officials estimated 70 mph winds in the Millington area. Windows were blown out a home in the extreme southeast corner of the county, just west of Marlette. Across the county line in Sanilac County, plate glass windows were blown out of downtown businesses in Brown City. Several mobile homes in the northwest part of the county suffered extensive damage. Numerous outbuildings were destroyed in Sanilac County, mainly in the western half. The steeple was torn off of a church in Melvin. Other communities that saw damage included New Greenleaf, Marlette, Peck, Deckerville, Shabonna, and Minden.

The only tornado of the morning in southeast Michigan occurred in far western Genesee County. The weak tornado only touched down for a few moments, but was observed by a spotter downing trees and damaging buildings. Elsewhere across Genesee County, tree damage was widespread. The Fenton area saw the most extensive damage, but Grand Blanc and Flint also had significant problems. Over a hundred thousand Consumers Power customers in the Flint area lost power at the height of the storm. The widespread wind damage continued east into Lapeer County, with hundreds of trees downed. Imlay City, Lapeer, and Almont were among the hardest hit communities in Lapeer County.

Still more damage occurred in the next county over, St Clair County. Trees and power lines were down across much of the county. Damage was most extensive in Capac, Yale, Port Huron, and Marysville. In Port Huron, an historic elm tree - believed to be the oldest in the county - fell onto a church. This was just one of dozens of trees to be felled in Port Huron. All told, one home in St Clair County was destroyed, and thirty were damaged.

Livingston County was yet another county that saw widespread damage to trees and power lines, although the damage was not quite as extensive. A National Weather Service employee estimated 60 mph winds near Brighton. Fowlerville, Howell, and Hartland also experienced severe winds. In Oakland County, damage was heavy and extensive in the northern part of the county. A gust of 67 mph was measured at the National Weather Service office in White Lake, while a Weather Service employee measured 61 mph winds in Oxford. Several homes in the Oxford area suffered roof damage, two large signs were downed, and a trampoline simply disappeared. Holly, Ortonville, Clarkston, and Orion Township also saw substantial damage to trees. Further south, damage became patchy. A swath of damaging winds downed trees from South Lyon east to Novi. A lightning strike in South Lyon started a house fire. Gusts estimated at 70 mph knocked boats off of hoists on Cass Lake.

In Macomb County, extensive damage occurred in the village of Armada. Winds estimated at 90 mph downed dozens of trees in the village. The Governor of Michigan declared Armada a state disaster area. This swath of damage started southwest of Armada in Romeo, where trees and lines were downed. The swath continued east of Armada to Richmond - where a barn was destroyed - and Memphis - where two homes were damaged by fallen trees. Damage was only patchy in the southern part of Macomb County, with tree damage reported in Fraser and St Clair Shores. Twenty homes and ten businesses were damaged in Macomb County.

Only the trailing edge of the derecho crossed Washtenaw and Wayne Counties, and the thunderstorms there moved much more slowly. Wind damage was therefore nowhere near as extensive. Power lines were downed in the Dexter area in Washtenaw County. Lightning triggered a house fire in Ypsilanti. In Wayne County, trees and power lines were downed in Northville and Livonia. A pocket of damage also occurred in Dearborn, where a church steeple was damaged, a garage was hit by a falling utility pole, and a house was struck by lightning. All told, 215,000 Detroit Edison customers lost power at some point in the storm.

To wind up the event, an isolated severe thunderstorm developed on the southern edge of the derecho as it was moving east into Ontario. This cell produced large hail in Rockwood and South Rockwood.

**Wayne County
Taylor**

31 1148EST 0 0 Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, East</u>									
Lenawee County									
Jasper	31	1305EST			0	0			Hail (0.75)
Monroe County									
5 SE Petersburg	31	1325EST			0	0			Hail (0.75)
Monroe County									
2 W Monroe to Monroe	31	1326EST 1338EST			0	0			Hail (1.75)
<p>A strong low pressure system continued to move east across the northern Great Lakes during the daylight hours of the 31st. The thunderstorm complex of the early morning hours had raced out ahead of the cold front associated with the low. This front crossed southeast Michigan during the afternoon. Plentiful sunshine during the mid to late morning hours allowed the atmosphere to become unstable yet again. This resulted in the third distinct severe weather episode in the past 12 hours for southeast Michigan.</p> <p>This time, severe weather was confined to the far southeast corner of the state. Scattered thunderstorms developed just ahead of the cold front, and some produced large hail. The most potent thunderstorm produced golfball sized hail as it moved slowly east across the west side of the city of Monroe.</p>									
<u>MICHIGAN, Extreme Southwest</u>									
St. Joseph County									
Three Rivers	29	0050EST			0	0			Thunderstorm Wind (G50)
Berrien County									
Stevensville	29	0100EST			0	0			Thunderstorm Wind (G50)
Branch County									
Bronson	29	0120EST			0	0			Thunderstorm Wind (G50)
Hillsdale County									
Litchfield	31	0511EST			0	0			Hail (0.75)
<u>MICHIGAN, North</u>									
Roscommon County									
Prudenville	06	1508EST			0	0			Hail (0.75)
Ogemaw County									
9 SE West Branch	06	1553EST			0	0			Hail (0.75)
Alcona County									
Glennie	06	1608EST			0	0			Hail (0.75)
Otsego County									
Gaylord	19	1157EST			0	0			Hail (0.75)
Otsego County									
Gaylord	19	1200EST			0	0			Hail (0.75)
Otsego County									
10 E Waters	19	1202EST			0	0			Hail (0.75)
Otsego County									
Gaylord	19	1205EST			0	0			Hail (1.00)
Alcona County									
Glennie	19	1327EST			0	0			Hail (0.75)
Alpena County									
10 S Alpena	19	1343EST			0	0			Hail (0.75)
Alcona County									
Glennie	19	1400EST			0	0			Thunderstorm Wind (G50)
<p>Strong straight-line winds downed numerous trees of up to 8 - 12" in diameter in Glennie Park. One mobile home was destroyed by a falling tree.</p>									
Iosco County									
Tawas City	19	1409EST			0	0			Hail (0.75)
Alcona County									
Harrisville	19	1415EST			0	0			Thunderstorm Wind (G80)
Iosco County									
East Tawas	19	1425EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, North									
Montmorency County									
Atlanta	19	1539EST			0	0			Hail (1.00)
Montmorency County									
Atlanta	19	1541EST			0	0			Hail (1.00)
Montmorency County									
Atlanta	19	1545EST			0	0			Hail (1.50)
Montmorency County									
4 SE Atlanta	19	1605EST	0.1	30	0	0			Tornado (F0)
									The brief tornado touchdown occurred in association with a supercell which developed when easterly winds associated with an outflow boundary from earlier storms interacted with westerly synoptic scale winds. The tornado briefly touched down then quickly lifted back up and was nearly stationary while on the ground. The tornado did no damage.
Iosco County									
East Tawas	19	1640EST			0	0			Hail (0.75)
Manistee County									
Wellston	29	0017EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and overturned a 200 lb water pump.
Manistee County									
Manistee	29	0018EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees.
Wexford County									
Cadillac	29	0040EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees.
Wexford County									
1 NE Mesick	29	0040EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees along M-72 and M-37.
Missaukee County									
5 NE Lake City	29	0100EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed several trees along Rhoxy Road and Edwards Road.
Roscommon County									
Prudenville	29	0122EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed several trees along M-18.
Kalkaska County									
Kalkaska	31	0344EST			0	0			Thunderstorm Wind (G52)
Missaukee County									
Mc Bain	31	0345EST			0	0			Thunderstorm Wind (G60)
									Strong straight-line thunderstorm winds toppled two silos.
Manistee County									
Manistee	31	0347EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous powerlines.
Grand Traverse County									
Traverse City	31	0400EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines.
Wexford County									
Harrietta	31	0415EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous powerlines and large trees. Some trees were toppled onto homes.
Wexford County									
Mesick	31	0415EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines. Some trees were toppled onto homes.
Kalkaska County									
Kalkaska	31	0424EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees.
Kalkaska County									
2 N Kalkaska	31	0425EST			0	0			Thunderstorm Wind (G70)
									Strong straight-line thunderstorm winds tore the roof off a building.
Missaukee County									
Jennings	31	0425EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, North									
Strong thunderstorm winds downed numerous trees and tore 8 - 9" diameter branches off of others.									
Kalkaska County 5 NE Kalkaska	31	0426EST			0	0			Thunderstorm Wind (G78)
Strong thunderstorm wind gusts to 90 mph tore the roof off one home and toppled trees onto several others.									
Missaukee County 5 SE Lake City	31	0430EST	0.3	100	0	0			Tornado (F0)
A tornado on the ground for around 500 yards snapped off numerous trees about 5 feet above the ground.									
Missaukee County Lake City	31	0430EST			0	0			Thunderstorm Wind (G78)
Strong straight-line thunderstorm winds up to 90 mph damaged 3 homes and destroyed several barns and sheds.									
Otsego County Gaylord	31	0430EST			0	0			Lightning
Lightning strikes started 2 house fires.									
Otsego County Gaylord	31	0430EST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm winds downed numerous trees and powerlines.									
Antrim County Torch Lake	31	0435EST	0.1	30	0	0			Tornado (F0)
The brief tornado touchdown did little damage.									
Crawford County Frederic	31	0447EST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm winds downed numerous trees and powerlines.									
Crawford County 10 SE Grayling	31	0450EST			0	0			Hail (0.75)
Kalkaska County 2 NW Kalkaska to 6 NE Kalkaska	31	0450EST	7	100	0	0			Tornado (F1)
A tornado intermittently on the ground for around 7 miles destroyed one mobile home and damaged 2 others. The combination of tornadic and straight-line winds also downed numerous trees.									
Roscommon County Houghton Lake	31	0454EST			0	0			Thunderstorm Wind (G60)
Strong thunderstorm winds downed numerous trees. Some trees were toppled onto homes.									
Crawford County 10 N Grayling	31	0455EST	0.1	30	0	0			Tornado (F0)
The brief tornado touchdown heavily damaged 1 home.									
Roscommon County 2 NW Roscommon	31	0459EST			0	0			Hail (1.75)
Crawford County 10 SE Grayling	31	0505EST			0	0			Thunderstorm Wind (G61)
Oscoda County 3 NE Luzerne	31	0505EST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm winds downed several trees.									
Montmorency County Atlanta	31	0507EST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm winds downed numerous trees and powerlines.									
Gladwin County 10 SE Gladwin	31	0510EST			0	0			Thunderstorm Wind (G61)
Strong thunderstorm winds up to 70 mph toppled a tower and numerous trees of up to 18 - 20" in diameter.									
Oscoda County Luzerne	31	0510EST			0	0			Thunderstorm Wind (G52)
Strong thunderstorm winds downed numerous trees and powerlines.									
Oscoda County Mio	31	0510EST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm winds downed numerous trees and powerlines.									
Gladwin County 6 N Gladwin	31	0515EST			0	0			Thunderstorm Wind (G78)
Strong straight-line thunderstorm winds destroyed a barn and house.									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, North</u>									
Ogemaw County West Branch	31	0520EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines.
Oscoda County Mio	31	0520EST			0	0			Thunderstorm Wind (G52)
Alcona County Curran	31	0527EST			0	0			Thunderstorm Wind (G56)
Arenac County Standish	31	0530EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines countywide.
Iosco County East Tawas	31	0533EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines countywide.
Alpena County Alpena	31	0535EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed numerous trees and powerlines countywide.
<u>MICHIGAN, Upper</u>									
Gogebic County Ironwood	12	1912EST			0	0			Hail (0.75)
Ontonagon County Bergland	12	2015EST			0	0			Hail (0.75)
Gogebic County 2 E Ironwood	12	1930EST 1932EST			0	0			Thunderstorm Wind (G55)
									Two trees 12 inches in diameter were uprooted and fell on a trailer.
Iron County Iron River	13	0100EST			0	0	50K		Lightning
									A resort cabin burned down after it was struck by lightning.
Gogebic County 3 E Ironwood	15	2055EST			0	0			Thunderstorm Wind (G50)
									Large branches downed
Gogebic County Wakefield	15	2110EST			0	0			Thunderstorm Wind (G50)
									Large industrial waste containers rolled by thunderstorm wind.
Houghton County 25 SW Houghton	17	1955EST 2000EST			0	0			Thunderstorm Wind (G53)
Baraga County 4.5 SW Baraga to 2 SW Baraga	17	2000EST 2005EST			0	0			Thunderstorm Wind (G55)
									Microburst winds downed 12-18 inch diameter aspen and pine trees in a location known as the "Baraga Plains". Roll clouds and funnel clouds were observed in the area, but no conclusive visual or ground evidence of tornado touchdown was found.
Baraga County 10 W Baraga	17	2002EST			0	0			Hail (0.75)
Baraga County Baraga	17	2005EST 2006EST			0	0	5K		Thunderstorm Wind (G55)
									Thunderstorm winds tore off part of the Lakeside Inn's copper roof and downed large maple trees in Baraga State Park campground.
Baraga County Pelkie	17	2005EST 2006EST			0	0			Thunderstorm Wind (G57)
									An automatic weather station reported a 64 mph wind gust.
Baraga County L Anse to 3 S L Anse	17	2011EST 2013EST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed 12 inch diameter trees and blew shingles off a roof in L'anse and snapped 8 inch diameter tree s just south of L'anse.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, Upper</u>									
Delta County Cornell to Gladstone	17	2210EST 2215EST			0	2	400K		Thunderstorm Wind (G60)
									Microburst with wind gusts over 75 mph downed dozens of trees and damaged buildings at Cornell and Gladstone. At Cornell, strong winds destroyed a barn. In Gladstone, trees up 30 inches in diameter were blown down. Three storage sheds were destroyed, 15 homes suffered significant damage, and many other homes and businesses received minor damage. A 12 year girl in Gladstone suffered a broken arm when a pop up camper she was in flipped over. A woman inside a Gladstone house received a lacerated ear when a 2by 4 from a demolished storage shed crashed through a window.
Delta County 5 E Rapid River	17	2240EST			0	0			Thunderstorm Wind (G50)
									18 inch diameter apple tree downed.
Marquette County 6 S Ishpeming	18	1911EST			0	0			Hail (1.50)
Marquette County Republic	18	1912EST			0	0			Hail (0.75)
Marquette County West Ishpeming	18	1913EST			0	0			Hail (0.75)
Gogebic County Ironwood to Wakefield	28	0400EST 0420EST			0	0	10K		Thunderstorm Wind (G50)
									Strong thunderstorm winds downed trees between Ironwood, Bessemer, and Wakefield. The downed trees damaged a pickup truck in Ironwood and a sport utility vehicle in Wakefield.
<u>MICHIGAN, West</u>									
Calhoun County Battle Creek	01	1530EST			0	0	11K		Lightning
									The Battle Creek Enquirer reported a lightning strike caused \$8,000 in damage to a married couple's rented home at 17 N. 20th Street in Battle Creek. The fire started in the basement and smoke filled the home, damaging \$3,000 worth of contents according to Battle Creek fire-fighters. No one was injured.
Ottawa County Jamestown	06	1244EST			0	1			Lightning
									The Muskegon Chronicle reported Collin Zackrison, a 34 year-old male, was critically injured when he was struck by lightning at Spring Grove Park near Jamestown, in southeastern Ottawa County. The Ottawa County Parks and Recreation Department employee suffered severe leg and chest injuries.
Kent County Edgerton	06	1355EST			0	0			Hail (1.00)
									Local broadcast media relayed reports of 1-inch diameter hail near Rockford in northern Kent County.
Clare County Harrison	06	1437EST			0	0			Hail (1.00)
Ottawa County Ferrysburg	06	2045EST			0	0			Hail (1.00)
									Local broadcast media relayed a report of 1-inch hail in Ferrysburg which broke a few windows of a local resident's home.
Mason County Ludington	29	0000EST			0	0	25K		Thunderstorm Wind
									Numerous trees and power lines downed in Ludington. A large tree was blown over onto a house at 907 E. Russell Street. Three vehicles were also damaged at the mentioned residence.
Van Buren County Bangor	29	0004EST			0	0	2.5K		Thunderstorm Wind
									Several large limbs downed in Bangor.
Mason County Ludington Arpt	29	0006EST			0	0			Thunderstorm Wind (G50)
									A peak wind gust of 57 mph was recorded at Mason County Airport at 1:06 am EDT, just east of Ludington.
Oceana County Pentwater	29	0010EST			0	0	10K		Thunderstorm Wind
									Several trees and power lines downed in Pentwater.
Van Buren County Covert	29	0010EST			0	0	1K		Thunderstorm Wind
									Large tree downed in Covert.

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, West									
Muskegon County Fruitport	29	0013EST			0	0	20K		Thunderstorm Wind
	Several trees and power lines downed in Fruitport. Airline Road area was especially hard-hit.								
Ottawa County Grand Haven	29	0015EST			0	0	25K		Thunderstorm Wind
	Numerous trees, utility poles, and power lines downed in the city of Grand Haven and Grand Haven Township.								
Muskegon County North Muskegon	29	0019EST			0	0			Thunderstorm Wind (G65)
	A trained weather spotter measured a 75-mph wind gust in North Muskegon with his local anemometer.								
Ottawa County Spring Lake	29	0020EST			0	0	25K		Thunderstorm Wind
	Several large trees and power lines downed in the cities of Ferrysburg, Spring Lake, and Spring Lake Township.								
Allegan County Fennville	29	0025EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in Fennville.								
Muskegon County Muskegon	29	0025EST			0	0	1M		Thunderstorm Wind
	Widespread wind damage occurred in the Muskegon metropolitan area including the cities of Muskegon, North Muskegon, Muskegon Heights, and Norton Shores and Laketon, Muskegon, and Fruitport Townships. Many large trees, utility poles, and power lines were downed by sustained 60 to 80 mph winds (estimated) over a 10 to 15 minute period. Overall, an estimated 900 power lines were downed in the Muskegon area which left approximately 54,000 homes and businesses without power, affecting approximately a third of all Muskegon County residents. Most structural damage to homes and businesses was caused by fallen trees and utility poles. An estimated 500 homes and 30 businesses sustained minor to moderate damage. Most area schools and many area businesses were closed on Friday, May 29th. An estimated 27,000 people were still without power as of late in the day, Saturday, May 30th. Despite the widespread damage, no injuries were reported.								
Lake County Baldwin	29	0030EST			0	0	1K		Thunderstorm Wind
	Large tree uprooted in Baldwin.								
Lake County Irons	29	0030EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in Irons.								
Allegan County Martin	29	0035EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in Martin.								
Newaygo County Bridgeton	29	0035EST			0	0	10K		Thunderstorm Wind
	Numerous trees downed across rural roads in Bridgeton Township and Muskegon State Game Area.								
Allegan County Plainwell	29	0040EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in Plainwell. Trees fell across the road on 11th Street and along 10th Street near the intersections with 107th and 112th Streets.								
Barry County Orangeville	29	0040EST			0	0	2.5K		Thunderstorm Wind
	Large trees downed across a road in Orangeville Township.								
Barry County Delton	29	0050EST			0	0	15K		Thunderstorm Wind
	Trees and power lines downed in Delton. A large awning was blown off of a downtown storefront.								
Barry County Middleville	29	0050EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in Middleville.								
Osceola County Le Roy	29	0050EST			0	0	2.5K		Thunderstorm Wind
	Large trees downed across a road in Le Roy.								
Kalamazoo County Kalamazoo	29	0055EST			0	0	10K		Thunderstorm Wind
	Trees and power lines downed in the city of Kalamazoo.								
Kalamazoo County Schoolcraft	29	0055EST			0	0	1K		Thunderstorm Wind

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					Killed	Injured	Property	Crops	
MICHIGAN, West									
Large tree downed in the village of Schoolcraft.									
Montcalm County Sidney	29	0055EST			0	0	1K		Thunderstorm Wind
Large tree downed across a road in Sidney.									
Osceola County Ewart	29	0055EST			0	0	2.5K		Thunderstorm Wind
Large trees downed across a road near Ewart, in Osceola Township.									
Kalamazoo County Vicksburg	29	0100EST			0	0	2.5K		Thunderstorm Wind
Trees downed along V-Avenue, just east of Vicksburg in Brady Township.									
Kent County Walker	29	0100EST			0	0	2.5K		Thunderstorm Wind
Several large branches downed (30" diameter) near intersection of 3-Mile and Remembrance Roads.									
Kent County 4 NE Belmont	29	0101EST			0	0			Thunderstorm Wind (G52)
A trained spotter estimated a 60-mph wind gust in Rockford, MI.									
Montcalm County Entrican	29	0105EST			0	0	1K		Thunderstorm Wind
Large tree downed across a road in Entrican.									
Montcalm County Stanton	29	0105EST			0	0	1K		Thunderstorm Wind
Large tree downed in Stanton.									
Mecosta County Rustford	29	0110EST			0	0	1K		Thunderstorm Wind
Large tree downed across a road in Rustford.									
Newaygo County Grant	29	0110EST			0	0	15K		Thunderstorm Wind (G56)
Several trees and power lines downed in the city of Grant and Grant Township. Trees were blown down across Michigan Highway 37. A trained weather spotter reported a 65 mph wind gust as measured by his local anemometer.									
Calhoun County Battle Creek	29	0115EST			0	0	10K		Thunderstorm Wind
Several large limbs and a few power lines downed in the city of Battle Creek. Reports were scattered across the city, rather than from one distinct location.									
Ionia County Pewamo	29	0115EST			0	0	10K		Thunderstorm Wind
Large limbs and power lines downed in Lyons Township and the city of Pewamo. One downed line started a minor fire on Decatur Trail in Pewamo.									
Clinton County Westphalia	29	0127EST			0	0			Hail (0.75)
Eaton County Grand Ledge	29	0127EST			0	0	2.5K		Thunderstorm Wind
One large tree downed, pulling down power lines, in Grand Ledge.									
Kent County 3 NE Sparta	29	0130EST			0	0	5K		Thunderstorm Wind
Several small trees downed near Indian Lakes in Algoma Township.									
Eaton County Eaton Rapids	29	0140EST			0	0	5K		Thunderstorm Wind
One large tree and one power line downed across a resident's yard in Eaton Rapids. Falling tree limbs caused a transformer to blow.									
Clinton County Eureka	29	0145EST			0	0	2.5K		Thunderstorm Wind
Several large tree branches downed in Eureka.									
Clinton County St Johns	29	0145EST			0	0	1K		Thunderstorm Wind (G52)
Large tree downed in St. Johns. A trained spotter reported a 60 mph wind gust as measured by his local anemometer.									
Gratiot County Ithaca	29	0150EST			0	0	20K		Thunderstorm Wind
Several large trees and power lines downed in Ithaca and scattered reports of the same across Gratiot County.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

Isabella County Winn

29	0151EST								
				0	0	1K			Thunderstorm Wind

Large tree downed in Winn.

A warm, moist, and unstable atmosphere was in place across most of Michigan's Lower Peninsula during the evening hours of Thursday, May 28th into the morning hours of Friday, May 29th. A slow moving cold front was across far northern lower Michigan. A well-defined outflow boundary and squall line developed ahead of a weakening Mesoscale Convective System during the evening of the 28th. This outflow boundary and squall line moved east across Lake Michigan and onshore across West Central and Southwest Lower Michigan shortly after Midnight EDT and crossed the Lower Peninsula by 5:00 am EDT. Downburst (wet microbursts) wind gusts of 50 to 80 mph were common with the thunderstorms and downed trees and power lines caused most of the associated damage. Only a few hail reports were received. The worst of the damage occurred in Muskegon County and the northwest corner of Ottawa County, including the cities of Muskegon and Grand Haven. Especially hard-hit was the cities of North Muskegon, Muskegon, and Norton Shores, where hundreds of homes received minor damage from fallen trees and power lines. The power line infrastructure in the Muskegon area was greatly damaged, resulting loss of power for approximately 33% of the county's residents. Overall, an estimated 90,000 people lost power across the state, with 54,000 of the customers located in Muskegon County alone. No injuries were reported, but property damage estimates in Muskegon County reached \$1.0 Million.

Newaygo County Fremont

31	0245EST								
				0	0	1K			Thunderstorm Wind

Large tree downed in Fremont.

Mason County Ludington to Walhalla

31	0345EST 0415EST								
				0	5	1M			Thunderstorm Wind

Michigan Department of State Police - Emergency Management Division's (EMD's) Damage and Injury Assessment Report indicated \$398,000 in public damage costs, 66 homes damaged, 3 homes destroyed, and 4 businesses damaged. Five injuries were reported, one of which required hospitalization. In addition, 12 vacation/secondary residences incurred major damage and 9 had minor damage. Newspaper and media reports indicated public and private damage costs combined exceeded \$1.0 Million. Mason County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Mason County, making federal disaster assistance available.

Allegan County Castle Park

31	0346EST								
				0	0				Hail (0.75)

Mason County Ludington

31	0350EST								
				0	0				Thunderstorm Wind (G68)

U.S. Coast Guard in Ludington reported a 78-mph wind gust as derecho moved onshore.

Oceana County Pentwater to Walkerville

31	0350EST 0415EST								
				0	37	4.0M			Thunderstorm Wind

Michigan State Police EMD Damage and Injury Assessment Report indicated \$4,018,760 in public damage costs, 37 injuries, 26 homes destroyed, 1415 homes damaged, 6 businesses destroyed, and 109 businesses damaged. Private damage cost estimates were not available. Oceana County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Oceana County, making available federal disaster assistance.

Oceana County Pentwater

31	0353EST								
				0	0				Thunderstorm Wind (G52)

Trained weather spotter measured a 60-mph wind gust as derecho moved onshore in Pentwater.

Mason County Scottville

31	0355EST								
				0	0				Thunderstorm Wind (G57)

Official NWS Cooperative Observer measured a 66-mph wind gust in Scottville.

Muskegon County Montague to Ravenna

31	0355EST 0425EST								
				0	2	24.2M	5M		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

Michigan State Police EMD Damage and Injury Assessment Report indicated \$2,458,958 in public damage costs, 42 homes destroyed, 1805 homes damaged, 5 businesses destroyed, and 73 businesses damaged. Two injuries were reported. Total public and private costs have been estimated at \$24,205,908 according to FEMA and local media reports. Numerous local roads were closed during the day of May 31st for tree and debris removal. Approximately 50% of the city of Whitehall was left without water service and 50,000 customers were left without power in Muskegon County. The Muskegon Chronicle reported 5 large transmission towers were toppled northeast of the city of Muskegon. These towers carried high voltage electricity and were designed to withstand sustained 90 mph winds and gusts to 110 mph. The Muskegon Chronicle also reported severe crop damage to fruit trees (including apple, cherry, and peach) in the southeast part of Muskegon County. Estimated crop damage was \$5.0 Million. Severe tree damage was reported in Muskegon State Park, Hoffmaster State Park, and Duck Lake State Park, all bordering Lake Michigan. Muskegon County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Muskegon County, making federal disaster assistance available.

Ottawa County Grand Haven to Hudsonville

31	0400EST 0430EST	1	20	34.6M	10M	Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$4,195,604 in public damage costs, 17 homes destroyed, 827 homes damaged, 8 businesses destroyed, and 129 businesses damaged. Total private damage costs were estimated at a total of \$25.0 Million in the city of Grand Haven and Grand Haven Township, \$5.1 Million in the village of Spring Lake, \$130,000 in Park Township, \$182,900 in the city of Zeeland, and approximately \$20,000 in Holland. Damage and losses were concentrated in the city of Grand Haven, the village of Spring Lake, and the townships of Grand Haven (northern portion), Spring Lake, Crockery, Polkton, Wright, Park, Holland Charter, Zeeland, and Jamestown. Private damage costs were not available from other cities and townships within the county. The Mill Point Condominiums along the Grand River in Spring Lake sustained major damage and approximately 50% of the units were destroyed. Numerous campers, trailers, and RV's were overturned at Grand Haven State Park along the Lake Michigan shoreline. One fatality was reported. A male utility worker (age not reported) was killed while attempting to repair storm-damaged electrical lines. Twenty injuries occurred. Crop damage was estimated at around \$10.0 Million in the fruit belt (to apple, cherry, and peach trees) in the northern part of the county. Severe tree damage occurred in Grand Haven State Park. Ottawa County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. A Michigan National Guard team was deployed to the village of Spring Lake to assist the local jurisdiction with debris removal and cleanup operations. On June 24th, President Clinton granted a Major Disaster Declaration for Ottawa County, making federal disaster assistance available. M?OU

Lake County Branch to Chase

31	0405EST 0430EST	0	0	1.1M	Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$89,176 in public damage costs and the Lake County Star newspaper reported \$514,850 in private property damage and \$502,500 in clean-up costs. No injuries were reported. Hardest hit townships included Lake, Peacock, and Yates. The newspaper reported an entanglement of trees, limbs, and power lines were left throughout the county, with the area from just south of Big Star Lake in Lake Township northeast through Idlewild having been especially hard-hit. Public buildings in Baldwin incurred minor damage and Michigan Highway 37, 4 miles south of Baldwin, was closed for a period on May 31st for tree and debris removal. Lake County declared a local state of emergency, which was lifted late in the day on Monday, June 1st.

Newaygo County Woodland Park to Croton

31	0405EST 0440EST	0	0	1.2M	Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$1,237,000 in public damage costs, 48 homes destroyed, 690 homes damaged, and 15 businesses damaged across Newaygo County. Damage estimates for private property were not available. Newaygo County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Newaygo County, making federal disaster assistance available.

Kent County 2.5 S Kentwood

31	0412EST	0	0	Hail (0.75)
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Kalamazoo County Kalamazoo

31	0413EST	0	0	Hail (1.00)
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Kalamazoo County Oshtemo

31	0413EST	0	0	Hail (1.50)
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Muskegon County Muskegon

31	0415EST	0	0	Thunderstorm Wind (G54)
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Trained weather spotter measured a 62-mph wind gust in Muskegon.

Muskegon County Wabanningo

31	0415EST	0	0	20K	Seiche
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

The tug boat Stephen M. Asher sunk in White Lake Channel, just north of Wabanningo between Lake Michigan and White Lake, at approximately 5:15 am EDT due to a seiche created by the derecho moving across Lake Michigan. The crew reported a storm surge swept through the channel into White Lake as the derecho moved onshore. As the storm passed, the water rushed back out of White Lake through the channel, reaching the top of the channel walls. The tug boat, floating against a barge, rolled on its side and sank. No crew members were injured. The company which owns the tug boat estimated repairs would cost \$20,000.

Mecosta County

**Paris to
Remus**

31	0420EST 0445EST				0	0	86.6K		Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$86,620 in public damage costs, 110+ homes damaged, and 3 businesses damaged in Mecosta County. Widespread tree and power line damage was reported across the county and power was cut to approximately 75% of the county's population. Private damage estimates were not available. No injuries were reported in Mecosta County. Mecosta County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county.

Montcalm County

**Howard City to
Carson City**

31	0420EST 0500EST				0	23	14M		Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$453,000 in public damage costs, 23 injuries, 6 individuals being sheltered, 400 homes damaged, 30 homes destroyed, 40 businesses damaged, and 50 vacation residences either damaged or destroyed. Private property damage was estimated around \$13.5 Million. Most severe damage was reported in Pierson and Maple Valley Townships in the western panhandle of the county, with several cottages destroyed and damaged near and around Cody Lake and other area lakes. Significant damage was also reported in and around the city of Stanton. A team from the Michigan National Guard was deployed to the city of Stanton to assist in debris removal and cleanup operations. Montcalm County declared a local state of emergency and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Montcalm County, making federal disaster assistance available.

Osceola County

**Tustin to
Sears**

31	0420EST 0440EST				0	1	100K		Thunderstorm Wind
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A report submitted to the Michigan State Police Emergency Management Division indicated that the entire county was impacted by the derecho. One person was reported as injured. Numerous roads were blocked by downed trees and power lines. Private property damage estimates topped \$100,000. Osceola County declared a local state of emergency.

Allegan County

Holland

31	0422EST				0	0			Thunderstorm Wind (G58)
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In Holland, Tulip City Airport ASOS Equipment (which is in Allegan County) measured a 67-mph wind gust as derecho moved in.

Kent County

**Sand Lake to
Lowell**

31	0425EST 0450EST				0	53	49.3M	20M	Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$4,336,751 in public damage costs, 53 injuries, 63 homes destroyed, 1196 homes damaged, 15 businesses destroyed, and 173 businesses damaged in Kent County, excluding the City of Grand Rapids (see separate Grand Rapids report). Private damage costs were estimated to be approximately \$45.0 Million in the city of Walker alone. No other private damage costs were available from across the county. The storm damage was most severe in the cities of Rockford and Walker. Most city streets within the city limits of Rockford and Walker were left impassable. The city of Walker was closed to the public. Michigan State Police troopers assisted the city of Walker with security and a dawn to dusk curfew was enforced. A team from the Michigan National Guard was sent to the city of Walker to assist in debris removal and cleanup operations. Most of Walker was left without power as the power line infrastructure was destroyed. Damaged and destroyed businesses left 8,403 people unemployed. The Kent County fruitbelt, covering much of the northwest part of the county, received an estimated \$20.0 Million in damages due to snapped and uprooted trees. Most damage was done to apple trees, but cherry and peach orchards were also damaged. Kent County declared a local state of emergency (as did the city of Walker) and was granted a Governor's disaster declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Kent County, making available federal disaster assistance.

Kent County

Walker

31	0425EST				0	0			Thunderstorm Wind (G70)
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Walker City Police estimated an 80-mph wind gust at city municipal offices.

Kent County

Sparta

31	0429EST				0	0			Thunderstorm Wind (G74)
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Official NWS Cooperative Observer measured an 85-mph wind gust as derecho reached Sparta.

Kent County

Grand Rapids

31	0430EST 0440EST				0	0	373K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

Gratiot County Riverdale to Bannister

31	0500EST 0525EST		0	0	610K	Thunderstorm Wind
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Michigan State Police EMD's Damage and Injury Assessment Report indicated \$610,000 in public damage costs, 2675 homes damaged, 10 homes destroyed, and 100 businesses destroyed. Private damage cost estimates were not available. The county reported significant public health and safety risks due to the widespread loss of power and telephone service. The Michigan National Guard supplied a generator and water supply tanker to the Michigan Department of Corrections to address the need for power and water at the Mid-Michigan Correctional Facility in St. Louis, in Gratiot County. Gratiot County declared a local state of emergency and was granted a Governor's declaration to activate state assistance for the county. On June 24th, President Clinton granted a Major Disaster Declaration for Gratiot County, making federal disaster assistance available.

Van Buren County Bangor

31	0507EST		0	0	2.5K	Thunderstorm Wind
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Downed trees blocked eastbound lane of Michigan Highway 43 in Bangor.

Ingham County Holt

31	0515EST		0	0	50K	Thunderstorm Wind
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Several large trees were blown down along a 2-mile stretch just north of Holt across Delhi Township. Several businesses and a trailer received minor damage. No injuries were reported.

Jackson County Hanover

31	0519EST		0	0		Hail (1.50)
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Ingham County East Lansing

31	0520EST		0	0	10K	Thunderstorm Wind
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Several large trees were blown down along Durand and Bailey Streets in East Lansing. No significant structural damage was reported.

Van Buren County Sister Lakes

31	0520EST		0	0	2.5K	Thunderstorm Wind
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Large tree was downed and temporarily blocked Michigan Highway 152 near Sister Lakes.

Eaton County 7 NW Eaton Rapids

31	0526EST		0	0		Thunderstorm Wind (G63)
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Trained weather spotter measured a 72-mph wind gust with local anemometer 7 miles northwest of Eaton Rapids in Eaton Township.

Calhoun County Battle Creek

31	0545EST		0	0	10K	Thunderstorm Wind
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Several trees and power lines downed in the City of Battle Creek. No injuries or property damage was reported.

Jackson County Waterloo

31	0547EST		0	0		Hail (1.00)
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Damage surveys conducted by the National Weather Service Office in Grand Rapids, MI, in addition to trained spotter reports, local media meteorologist input, emergency management officials, and a review of National Weather Service Doppler Radar, indicate the widespread and severe damage which occurred with the fast-moving line of thunderstorms during the early morning hours of Sunday, May 31st, was caused primarily by strong straight-line winds and isolated wet microburst winds. This particular derecho formed in South Dakota on the evening of Saturday, May 30th, and raced eastward at 70 mph across Minnesota, Iowa, and Wisconsin, before striking Michigan's Lower Peninsula around 4:30 am EDT Sunday morning, May 31st. The derecho event produced widespread 60 to 90 mph wind gusts, which caused extensive tree and structural damage and left over 861,000 homes and businesses without electricity across Michigan's Lower Peninsula. Consumers Energy reported the derecho event was the most destructive weather event in its history, leaving over 600,000 of its customers without power (Consumers Energy is the largest utility company in western and mid Lower Michigan). There were 4 storm-related fatalities reported in the state and 146 injuries (mostly minor). Statewide, approximately 250 homes were destroyed, 12,250 homes damaged, 34 businesses destroyed, and 829 businesses damaged. Damage estimates across the above listed counties totaled over \$166 Million.

NWS Storm Damage Field Studies suggested highest wind gusts in wet microbursts reached 120 to 130 mph in Spring Lake (Ottawa County) and Walker (Kent County), 100 mph in portions of Montcalm County (including Cody Lake and Stanton), 90 mph in Rockford (Kent County) and Zeeland (Ottawa County), and 80 mph in Big Rapids (Mecosta County), Ludington (Mason County), Sparta (Kent County), and northern Osceola County. On June 24th, President Clinton declared 13 Michigan counties federal disaster areas, including the following 10 from the NWSO Grand Rapids County Warning Area: Clinton, Gratiot, Ionia, Kent, Mason, Montcalm, Muskegon, Newaygo, Oceana, and Ottawa. It took up to 10 days to fully restore power to certain areas including the City of Walker and portions of Montcalm and Gratiot Counties.

MINNESOTA, Central and South Central

Faribault County Elmore

15	1325CST		0	0		Thunderstorm Wind (G60)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
			20 to 40 homes damaged. Estimated windspeed.						
Faribault County Frost	15	1327CST			0	0			Thunderstorm Wind (G65)
			Doors blown in at fire station. Estimated windspeed.						
Martin County 3 SW Fairmont	15	1330CST			0	0			Thunderstorm Wind (G55)
			Grain bin blown over. Estimated windspeed.						
Faribault County 1 S Blue Earth	15	1335CST			0	0			Hail (0.75)
Faribault County Blue Earth	15	1400CST			0	0			Hail (0.75)
Blue Earth County Beauford	15	1401CST			0	0			Hail (0.75)
			Strong winds also blew four semitrailers off road.						
Faribault County Blue Earth	15	1410CST	0.1	50	0	0			Tornado (F1)
			Brief touchdown tore roof off metal structure at canning plant.						
Nicollet County North Mankato	15	1410CST			0	0			Thunderstorm Wind (G55)
			Trees and power lines blown over. Estimated windspeed.						
Blue Earth County 3 WSW St Clair	15	1415CST			0	0			Thunderstorm Wind (G61)
			Garage destroyed. Significant damage to outbuildings. Debris scattered up to a mile northeast of damage site. Estimated windspeed.						
Blue Earth County 3 E St Clair	15	1415CST			0	0			Thunderstorm Wind (G61)
			Barn flattened. Machine shed and grain bin destroyed. Estimated windspeed.						
Nicollet County Lafayette	15	1415CST			0	0			Thunderstorm Wind (G55)
			Trees blown onto cars. Estimated windspeed.						
Blue Earth County Mankato	15	1425CST			0	1			Thunderstorm Wind (G61)
			Measured at law enforcement center. Extensive tree damage. Windows blown out. Semitrailer blown over on highway 14 injuring one person.						
Blue Earth County 1 NE Mankato	15	1425CST			0	0	1M		Thunderstorm Wind (G61)
			Trees down. Roof damage. Estimated windspeed. Damage estimate for entire county.						
Le Sueur County 5 S Le Center	15	1450CST			0	0			Thunderstorm Wind (G61)
			Trees down. Estimated windspeed.						
Le Sueur County Montgomery	15	1500CST			0	0			Thunderstorm Wind (G61)
			Trees down. Windows blown out. Estimated windspeed.						
Scott County 1 E New Prague	15	1503CST			0	0			Hail (0.88)
Le Sueur County 5 W New Prague	15	1504CST			0	0			Hail (0.88)
Sibley County 9 ESE Green Isle to Green Isle	15	1505CST			0	0			Thunderstorm Wind (G61)
			2.5 foot diameter trees blown down. Estimated windspeed.						
Mcleod County 4.5 N Silver Lake	15	1510CST 1512CST	0.1	50	0	0	100K		Tornado (F1)
			Brief tornado touchdown destroying 6 farm buildings and damaged homestead. Debris hurled over nearby Butternut Lake. Posts driven 2 feet into the ground.						
Carver County Cologne	15	1513CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Carver County									
Cologne	15	1513CST			0	0			Thunderstorm Wind (G52)
Scott County									
Prior Lake	15	1517CST			0	0			Hail (2.00)
Carver County									
Waconia	15	1520CST			0	0			Thunderstorm Wind (G61)
			Large trees blown over. Estimated windspeed.						
Meeker County									
Cedar Mills	15	1520CST			0	0			Thunderstorm Wind (G55)
			Trees blown down. Estimated windspeed.						
Wright County									
Howard Lake	15	1520CST			0	0			Thunderstorm Wind (G55)
			Trees and power lines down. Estimated windspeed.						
Dakota County									
Burnsville	15	1521CST			0	0			Thunderstorm Wind (G61)
			Windows blown in. Estimated windspeed.						
Scott County									
Savage	15	1521CST			0	0	525K		Thunderstorm Wind (G61)
			Large hail propelled by strong winds resulted in widespread roof and house damage. Windows at public works blown out. Roof damage to library and schools. Damage estimate for city.						
Hennepin County									
Eden Prairie	15	1522CST			0	0			Thunderstorm Wind (G52)
			Measured at Flying Cloud Airport.						
Scott County									
Savage	15	1523CST			0	0			Hail (0.75)
Dakota County									
Farmington	15	1524CST			0	0			Thunderstorm Wind (G61)
Scott County									
Savage	15	1524CST			0	0			Hail (1.75)
Hennepin County									
Bloomington	15	1525CST			0	0	3M		Hail (0.75)
			Severe damage to automobile dealership.						
Hennepin County									
Eden Prairie	15	1525CST			0	0			Hail (0.75)
			Measured at Flying Cloud Airport.						
Meeker County									
3 W Dassel	15	1525CST			0	0			Thunderstorm Wind (G65)
			Semitrailer blown off highway 12. Estimated windspeed.						
Dakota County									
Eagan	15	1527CST			0	0			Hail (0.75)
Scott County									
Shakopee	15	1527CST			0	0			Hail (0.75)
Dakota County									
Burnsville	15	1529CST			0	0			Hail (1.00)
Carver County									
Victoria	15	1530CST			0	0	300K		Thunderstorm Wind (G60)
			Windows broken. Trees blown down. Partial structural damage to building. Estimated windspeed. Damage estimate for entire county.						
Dakota County									
3 S Lakeville	15	1530CST			0	0			Thunderstorm Wind (G55)
			2 foot diameter trees blown down. Estimated windspeed.						
Hennepin County									
Eden Prairie	15	1530CST			0	0			Hail (1.00)
Hennepin County									
Edina	15	1530CST			0	0			Hail (1.25)
			5 foot diameter trees also blown down in possible microburst. Some trees snapped in half.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Hennepin County Long Lake	15	1530CST			0	0			Thunderstorm Wind (G55)
			1 foot diameter trees blown down. Estimated windspeed.						
Hennepin County Minneapolis	15	1530CST			0	0			Hail (1.50)
Hennepin County Minneapolis	15	1530CST			0	0			Thunderstorm Wind (G54)
			Measured at Minneapolis/St. Paul International Airport.						
Hennepin County Mound	15	1530CST			0	0			Thunderstorm Wind (G55)
Stearns County 10 S St Cloud	15	1530CST			0	0			Thunderstorm Wind (G55)
			1 foot diameter trees blown down. Estimated windspeed.						
Stearns County 10 SW St Cloud	15	1530CST			0	0			Thunderstorm Wind (G60)
			Roof damage. Trees down. Estimated windspeed.						
Hennepin County Minnetonka	15	1532CST			0	0			Hail (0.75)
			Strong winds also knocked down trees.						
Hennepin County Hopkins	15	1533CST			0	0			Hail (1.00)
Wright County Annandale	15	1533CST			0	0			Thunderstorm Wind (G55)
			Trees and power lines down. Estimated windspeed.						
Hennepin County Wayzata	15	1535CST			0	0			Thunderstorm Wind (G61)
			Hundreds of trees blown down. Damage to homes and garages. Estimated windspeed.						
Ramsey County St Paul	15	1535CST			0	0			Hail (1.00)
Hennepin County Minneapolis	15	1536CST			0	0			Hail (1.25)
			Damage to airplanes at Minneapolis/St. Paul International Airport.						
Hennepin County Corcoran	15	1538CST			0	0			Thunderstorm Wind (G65)
			Roof blown off business. Police trailer toppled.						
Ramsey County St Paul	15	1538CST			0	0			Thunderstorm Wind (G61)
			Trees down at Snelling and Interstate 94. Estimated windspeed.						
Ramsey County St Paul	15	1539CST			0	0			Thunderstorm Wind (G61)
			Measured at Regents Hospital.						
Anoka County Fridley	15	1540CST			0	0			Hail (1.00)
Anoka County Spring Lake Park	15	1540CST			0	0	600K		Thunderstorm Wind (G65)
			Roof ripped off apartment building.						
Hennepin County Golden Vly	15	1540CST			0	0			Thunderstorm Wind (G60)
			Trees down. Estimated windspeed.						
Ramsey County Roseville to North Oaks	15	1540CST 1550CST	7	350	0	0			Tornado (F1)
			Tornado touched down in Roseville, and travelled straight north through Shoreview, North Oaks, Lino Lakes, eventually lifting off in Blaine in Anoka County. 7 houses destroyed, 102 severely damaged.						
Stearns County Albany to 1.5 NE St Francis	15	1540CST 1546CST	9	33	1	30	750K		Tornado (F1)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
			Tornado struck outdoor flea market in Albany, blowing numerous recreational vehicles over. One man was killed when a recreational vehicle was blown on top of him. 30 others were injured. A farmstead was severely damaged northeast of St. Francis just before liftoff of the tornado. M78OU						
Wright County South Haven	15	1542CST			0	0			Thunderstorm Wind (G55)
			Power lines down. Estimated windspeed.						
Wright County Buffalo	15	1545CST			0	0			Thunderstorm Wind (G60)
			Airplane flipped over. Trees knocked down. Estimated windspeed.						
Wright County St Michael	15	1547CST			0	0			Thunderstorm Wind (G60)
			Trailer office blown over. Trees also blown over. Estimated windspeed.						
Anoka County Lino Lakes to Blaine	15	1550CST 1555CST	5	350	0	0			Tornado (F1)
			See narrative for Ramsey County.						
Anoka County Ramsey	15	1550CST			0	0			Lightning
			House struck by lightning.						
Sherburne County Elk River	15	1555CST			0	0			Thunderstorm Wind (G60)
			Garage destroyed. Roof ripped off nursery. Estimated windspeed. Many trees blown over.						
Anoka County Anoka Co Blaine Arpt	15	1559CST			0	0			Thunderstorm Wind (G57)
Anoka County Coon Rapids	15	1559CST			0	0			Hail (1.75)
Stearns County 5 S St Cloud	15	1600CST			0	0			Thunderstorm Wind (G60)
			Trees down. Roof damage. Estimated windspeed.						
Wright County Howard Lake	15	1601CST			0	0			Thunderstorm Wind (G55)
			Trees blown over. Estimated windspeed.						
Anoka County Linwood	15	1606CST			0	0			Hail (0.75)
Washington County Forest Lake	15	1606CST			0	0			Hail (1.75)
			Tree branches also blown down.						
Sherburne County Zimmerman	15	1711CST			0	0			Thunderstorm Wind (G55)
			Trees and power lines down. Estimated windspeed.						
Goodhue County Stanton	15	2045CST			0	0			Lightning
			2 horses killed by falling tree hit which was hit by lightning.						
Goodhue County White Rock	15	2055CST			0	0			Thunderstorm Wind (G55)
			Roof blown off auto body shop. Estimated windspeed.						
Kandiyohi County Sunburg	18	1525CST			0	0			Hail (0.75)
Kandiyohi County 15 NW Willmar	18	1545CST			0	0			Hail (1.00)
Stearns County 6 NE Paynesville	18	1624CST			0	0			Hail (0.75)
Stearns County Roscoe	18	1624CST			0	0			Hail (0.75)
Meeker County 12 N Litchfield	18	1645CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Stearns County 1 S Richmond	18	1645CST			0	0			Hail (1.75)
Meeker County 2 S Litchfield	18	1720CST			0	0	50K		Hail (0.75)
Benton County Sauk Rapids	18	1725CST			0	0			Thunderstorm Wind (G50) Damage to door. Estimated windspeed.
Stearns County 5 W Kimball	18	1730CST			0	0			Hail (0.88)
Meeker County Litchfield	18	1745CST			0	0			Hail (0.75)
Meeker County 1 SW Cedar Mills	18	1747CST			0	0			Hail (0.75) Hail damage to crops. Estimated hail size.
Redwood County 1 N Morgan	18	1750CST			0	0			Thunderstorm Wind (G56) Roof off hog farm.
Meeker County Kingston	18	1802CST			0	0			Hail (0.75)
Meeker County Dassel	18	1805CST			0	0			Thunderstorm Wind (G52)
Redwood County Morgan	18	1805CST			0	0			Thunderstorm Wind (G56) Bridge plank blown into LP tank, knocking the valve off the LP tank. Vapors forced the evacuation of 2 city blocks.
Wright County Cokato	18	1809CST			0	0			Thunderstorm Wind (G56)
Mcleod County 6 NW Hutchinson	18	1810CST			0	0			Hail (0.75)
Renville County Hector	18	1830CST			0	0			Hail (0.75)
Hennepin County Shorewood	18	1851CST			0	0			Funnel Cloud
Wright County Howard Lake	18	1905CST			0	0			Thunderstorm Wind (G52)
Hennepin County Minnetonka	18	1910CST			0	0			Funnel Cloud
Mcleod County Winsted	18	1915CST			0	0			Thunderstorm Wind (G70)
Todd County Burtrum	18	1915CST			0	0			Hail (0.75)
Kandiyohi County Lake Lillian	18	1920CST			0	0			Hail (1.75)
Wright County South Haven	18	1923CST			0	0			Thunderstorm Wind (G50) Trees down. Estimated windspeed.
Stearns County Richmond	18	1930CST			0	0			Hail (0.75)
Stearns County 3 S Albany	18	1945CST			0	0			Hail (0.88)
Brown County New Ulm	18	2005CST			0	0			Hail (1.75)
Nicollet County Courtland	18	2020CST			0	0			Hail (1.75)
Stearns County Rockville	18	2023CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Blue Earth County 2 S Cambria	18	2030CST			0	0			Hail (1.75)
Blue Earth County 2 S Cambria	18	2030CST			0	0			Hail (1.75)
Dakota County Mendota Hgts	18	2030CST			0	0			Hail (1.00)
Blue Earth County Judson	18	2040CST			0	0			Hail (1.75)
Goodhue County 5 SW Goodhue	18	2050CST			0	0			Thunderstorm Wind (G50)
		Estimated wind.							
Goodhue County Cannon Falls	18	2055CST			0	0			Thunderstorm Wind (G55)
		Trees blown down. Estimated windspeed.							
Goodhue County 5 SE Goodhue	18	2055CST			0	0			Thunderstorm Wind (G55)
		Power lines down. Estimated windspeed.							
Nicollet County 5 NW North Mankato	18	2055CST			0	0			Hail (0.88)
Scott County 5 E Jordan	18	2055CST			0	0			Hail (0.75)
Nicollet County 5 NW North Mankato	18	2100CST			0	0			Hail (1.75)
Nicollet County North Mankato	18	2105CST			0	0			Hail (1.75)
		Occurred at television station.							
Waseca County 5 N Janesville	18	2247CST			0	0			Hail (0.75)
Renville County Hector	27	2250CST			0	0			Hail (1.25)
		Swath of large hail from 3 miles east of Fairfax to Buffalo Lake and Hector to Lakeside. Trees also blown down resulting in power outages.							
Mcleod County Brownton	27	2315CST			0	0			Hail (0.75)
Mcleod County 2 SW Hutchinson	27	2330CST			0	0			Hail (1.75)
Rice County Lonsdale	27	2355CST			0	0			Hail (0.75)
Dakota County 5 SE Farmington	28	0000CST			0	0			Hail (1.00)
Dakota County 5 S Lakeville	28	0018CST			0	0			Hail (0.75)
Dakota County 10 SW Hastings	28	0051CST			0	0			Thunderstorm Wind (G52)
Goodhue County Kenyon	28	0121CST			0	0			Thunderstorm Wind (G55)
		Trees blown down. Estimated windspeed.							
Stearns County Avon	30	1705CST			0	0			Hail (1.00)
Stearns County St Joseph	30	1715CST			0	0			Hail (1.25)
Stearns County Sartell	30	1725CST			0	0			Hail (1.75)
Benton County 1 N Sauk Rapids	30	1730CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Mille Lacs County									
4 NW Princeton	30	1810CST			0	0			Hail (0.75)
Isanti County									
Dalbo	30	1825CST			0	0			Hail (0.75)
Kandiyohi County									
6 W New London	30	1843CST			0	0			Hail (0.75)
Lac Qui Parle County									
2 SW Madison	30	1845CST			0	0			Hail (1.75)
Lac Qui Parle County									
4 W Madison	30	1850CST			0	0			Hail (1.75)
Kandiyohi County									
Spicer	30	1854CST			0	0			Hail (1.75)
Isanti County									
4 N Cambridge	30	1855CST			0	0			Hail (0.75)
Stearns County									
2 NE Belgrade	30	1900CST			0	0			Hail (0.88)
Lac Qui Parle County									
5 E Dawson	30	1910CST			0	0			Hail (1.75)
Lac Qui Parle County									
1 NE Dawson	30	1910CST			0	0			Hail (2.75)
Stearns County									
Avon	30	1930CST			0	0			Hail (1.25)
Lac Qui Parle County									
Dawson	30	1933CST			0	0			Hail (1.25)
			Many cars damaged at automobile lots. Roof, siding and shed damage.						
Chippewa County									
1 N Montevideo	30	1936CST			0	0			Hail (1.75)
Benton County									
Rice	30	1940CST			0	0			Hail (1.75)
Stearns County									
St Stephen	30	1942CST			0	0			Hail (1.75)
Stearns County									
2 S St Stephen	30	1945CST			0	0			Hail (1.00)
Benton County									
4 SE Rice	30	1950CST			0	0			Hail (1.25)
Yellow Medicine County									
Canby	30	2015CST			0	0			Thunderstorm Wind (G65)
			Trees and powerlines blown down. Barns destroyed. Minor damage to high school. Grain bin also blown down in Porter. Estimated windspeed.						
Yellow Medicine County									
Granite Falls	30	2015CST			0	0			Hail (0.75)
Kandiyohi County									
4 SW Willmar	30	2020CST			0	0			Hail (0.75)
Redwood County									
Belview	30	2020CST			0	0			Thunderstorm Wind (G55)
			Power lines down. Estimated windspeed.						
Brown County									
Essig	30	2030CST			0	0			Thunderstorm Wind (G65)
			Roof damage. Estimated windspeed.						
Mcleod County									
7 E Fernando	30	2107CST			0	0			Thunderstorm Wind (G60)
			Barn blown down. Damage to house. Estimated windspeed.						
Mcleod County									
Glencoe	30	2110CST			0	0			Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
			Trees down. Roofs ripped off homes. Barns and sheds blown down in vicinity. Semitrailer blown on its side. Estimated windspeed.						
Watonwan County St James	30	2110CST			0	0			Thunderstorm Wind (G65)
			Roof off apartment building. Estimated windspeed.						
Sibley County 2 NE Gaylord	30	2114CST			0	0			Thunderstorm Wind (G60)
			Large tree blown over. Estimated windspeed.						
Brown County New Ulm Arpt	30	2116CST			0	0			Thunderstorm Wind (G56)
McLeod County Plato	30	2116CST			0	0			Thunderstorm Wind (G60)
			Power lines blown down. Roof blown off baseball pavillion. Estimated windspeed.						
Sibley County Green Isle	30	2117CST			0	0			Thunderstorm Wind (G70)
			Garage and machine shed destroyed. Severe barn damage. Estimated windspeed.						
Carver County Hamburg	30	2118CST			0	0			Thunderstorm Wind (G60)
			Trees down. Damage to houses. Estimated windspeed.						
Carver County Norwood	30	2120CST			0	0			Thunderstorm Wind (G63)
			Major damage to houses. One house completely destroyed on Elm St. Large trees uprooted. Estimated windspeed.						
Carver County Waconia	30	2125CST			0	0			Thunderstorm Wind (G61)
			15 inch tree blown down. Golf dome deflated. Power poles blown down. Estimated windspeed.						
Scott County Belle Plaine	30	2125CST			0	0			Thunderstorm Wind (G65)
			Large trees blown down. Roof damage in rural areas. Estimated windspeed.						
Carver County Carver	30	2127CST			0	0			Thunderstorm Wind (G65)
			Grandstand and dugout at baseball park destroyed. Construction trailer knocked over. Roof ripped off apartment building. Major damage to house. Estimated windspeed.						
Carver County Chaska	30	2130CST			0	2	2.3M		Thunderstorm Wind (G61)
			Roof torn off building injuring 2. South wall of building center blown out. Damage estimate for entire county. Estimate d windspeed.						
Carver County Chanhassen	30	2132CST			0	0			Thunderstorm Wind (G55)
			Measured at NWS office.						
Scott County 3 SW Shakopee	30	2135CST			0	0			Thunderstorm Wind (G60)
			Semitrailer blown over. Car trapped under downed power lines. Estimated windspeed.						
Hennepin County Minnetonka	30	2136CST			0	0			Thunderstorm Wind (G61)
Hennepin County Flying Cloud Arpt	30	2137CST			0	0			Thunderstorm Wind (G63)
Scott County Prior Lake	30	2138CST			0	0	4.3M		Thunderstorm Wind (G85)
			2500 trees lost. 100 boats, lifts and docks damaged. 28 homes sustained major damage. Damage estimate for entire county.						
Hennepin County Eden Prairie	30	2139CST			0	0			Thunderstorm Wind (G70)
			200 trees knocked over.						
Hennepin County Eden Prairie	30	2141CST			0	0			Thunderstorm Wind (G70)
			Camper trailer flipped at intersection of Highways 5 and 62. Estimated windspeed.						
Scott County Savage	30	2142CST			0	0			Thunderstorm Wind (G85)
			Many homes damaged. 7 homes destroyed. Estimated windspeed.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Hennepin County Bloomington	30	2143CST			0	0	750K		Thunderstorm Wind (G70)
									Thousands of trees down. Several houses received major damage. Estimated windspeed.
Carver County Chanhassen	30	2145CST			0	0			Thunderstorm Wind (G60)
									Tree blown down. Estimated windspeed.
Hennepin County Richfield	30	2145CST			0	0			Thunderstorm Wind (G65)
									Trees blown down. Estimated windspeed.
Hennepin County Minneapolis/St Paul	30	2146CST			0	0			Thunderstorm Wind (G56)
									Measured at MSP International airport.
Scott County New Market	30	2146CST			0	0			Thunderstorm Wind (G65)
Dakota County Burnsville	30	2149CST			0	7	35M		Thunderstorm Wind (G80)
									Brick wall blown in at retail center. 2000 trees blown down. Indoor mall sustained \$1 million in damage. 3 homes destroyed. Numerous trees down. Damage estimate for entire county. Estimated windspeed.
Hennepin County Minneapolis	30	2150CST			0	0			Thunderstorm Wind (G65)
									Large trees blown down at intersection of I-35 and Diamond Lake Rd. About 3000 trees blown over. Nearly 500,000 homes without power. Estimated windspeed.
Dakota County Apple Vly	30	2152CST			0	0	2.8M		Thunderstorm Wind (G65)
									2000 trees blown over. 1500 homes damaged. Estimated windspeed.
Dakota County Eagan	30	2152CST			0	1	6M		Thunderstorm Wind (G75)
									10 homes with major structural damage. 1500 trees blown over. Estimated windspeed.
Rice County Northfield	30	2153CST			0	0			Thunderstorm Wind (G55)
									Large tree uprooted. Estimated windspeed.
Dakota County Farmington	30	2154CST			0	0			Thunderstorm Wind (G70)
									Measured at intersection of Pilot Knob Rd and 193rd Street.
Dakota County West St Paul	30	2154CST			0	0			Thunderstorm Wind (G70)
									600 trees blown over. Roof off apartment building. Estimated windspeed.
Dakota County Inver Grove Heights	30	2155CST			0	0			Thunderstorm Wind (G75)
									2000 trees blown over. 20 homes damaged. Estimated windspeed.
Dakota County Lakeville	30	2155CST			0	0			Thunderstorm Wind (G80)
									Large trees blown down. Structural damage to homes. Estimated windspeed.
Dakota County Rosemount	30	2155CST			0	0			Thunderstorm Wind (G70)
									Power knocked out to local refinery. Damage to apartment building. Estimated windspeed.
Dakota County South St Paul	30	2155CST			0	11			Thunderstorm Wind (G70)
									Mobile home flipped over. Structural damage at apartment complex. 30 homes damaged. Amphibeian airplane flipped over. Estimated windspeed.
Ramsey County St Paul	30	2155CST			0	0			Thunderstorm Wind (G67)
									About 2700 trees blown down. 6 homes needed to be condemned, mostly in Highland Park area. Measured at St Paul Airport.
Dakota County Hastings	30	2157CST			0	0			Thunderstorm Wind (G70)
									400 trees blown over. Estimated windspeed.
Goodhue County Cannon Falls	30	2200CST			0	1			Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

MINNESOTA, Central and South Central

Mobile home destroyed injuring one person. Estimated windspeed.

Washington County Cottage Grove	30	2200CST			0	0			Thunderstorm Wind (G75)
1000 trees lost. 29 homes uninhabitable. 548 homes sustained damage. Estimated windspeed.									
Washington County Woodbury	30	2200CST			0	0	3.5M		Thunderstorm Wind (G75)
Roofs off houses. Estimated windspeed.									
Dakota County 5 W Hastings	30	2202CST			0	0			Thunderstorm Wind (G75)
Trees down and buildings damaged. Barn destroyed near Vermillion. Estimated windspeed.									
Goodhue County Zumbrota	30	2215CST			0	0			Thunderstorm Wind (G55)
Trees down. Estimated windspeed.									
Faribault County Kiester	30	2230CST			0	0			Thunderstorm Wind (G55)
Windmill destroyed. Trees blown over. Estimated windspeed.									

MINNESOTA, Northeast

Carlton County Kettle River	12	1550CST			0	0			Hail (1.00)
Cass County Bena	14	0255CST			0	0			Hail (1.00)
Itasca County Marcell	14	0505CST			0	0			Hail (1.00)
Itasca County Bigfork	14	0542CST			0	0			Hail (0.75)
Koochiching County 5 N Littlefork	15	0312CST			0	0			Hail (0.88)
Pine County Beroun	15	1655CST			0	0			Thunderstorm Wind (G50)
Trees were blown down. Wind speed is estimated.									
Pine County Sandstone	15	1710CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Pine County Willow River	15	1730CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Aitkin County Tamarack	15	1730CST			0	0			Thunderstorm Wind (G50)
Many trees were blown down. Wind speed is estimated.									
Carlton County Holyoke	15	1755CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Carlton County Carlton	15	1800CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Carlton County Carlton	15	1800CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Carlton County Wrenshall	15	1800CST			0	0			Thunderstorm Wind (G60)
A barn was destroyed. The wind speed is estimated.									
Pine County Duxbury	15	1800CST			0	0			Thunderstorm Wind (G60)
Strong thunderstorm winds took the roof off a home and severely damaged a store and several vehicles. Wind speed is estimated.									
Pine County Rutledge	15	1800CST			0	0			Thunderstorm Wind (G50)
Trees were blown down on trailer homes. Power lines were also blown down. Wind speed is estimated.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northeast									
Koochiching County International Falls	15	1823CST 1840CST			0	0	3M		Hail (3.00)
									Hail reports over a 17 minute period ranged from nickel size to larger than baseballs. The large, jagged hailstones caused considerable damage to structures and vehicles.
St. Louis County 3 W Twig	15	1845CST			0	0			Thunderstorm Wind (G50)
									Trees greater than nine inches in diameter were blown down. Wind speed is estimated.
St. Louis County Hibbing	15	1845CST			0	0			Hail (0.75)
St. Louis County 2 NE Brimson	15	1900CST			0	0			Thunderstorm Wind (G55)
									Many large trees were blown down, some onto vehicles and buildings. Wind speed is estimated.
St. Louis County Eveleth	15	1910CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds to 60 mph blew down many trees.
St. Louis County Markham	15	1915CST			0	0			Thunderstorm Wind (G52)
Itasca County 7 S Grand Rapids	15	1915CST			0	0			Thunderstorm Wind (G50)
									A tree was blown down, blocking a road. Wind speed is estimated.
Itasca County Pengilly	15	1920CST			0	0			Thunderstorm Wind (G50)
									Large trees were blown down. Wind speed is estimated.
St. Louis County Ely	15	1953CST			0	0			Thunderstorm Wind (G50)
									Trees and power lines were blown down. Wind speed is estimated.
Cook County Grand Marais	15	2033CST			0	0			Hail (0.75)
Koochiching County 13 E Northome	18	1620CST			0	0			Hail (1.75)
Itasca County 1 E Wirt	18	1655CST			0	0			Thunderstorm Wind (G50)
									Trees 6-8 inches in diameter were blown down. Wind speed is estimated.
Koochiching County 1 N Ericsburg	18	1908CST			0	0			Hail (1.00)
Koochiching County 3 N Little Fork	18	1920CST			0	0			Hail (1.00)
Cass County 4 W Longville	18	1932CST			0	0			Hail (0.75)
Itasca County 2 W Cohasset	18	1952CST			0	0			Hail (0.75)
Cass County 8 NE Remer	18	1955CST			0	0			Thunderstorm Wind (G55)
									A 12-inch diameter tree was blown down. Wind speed is estimated.
Itasca County Deer River	18	2048CST 2102CST			0	0			Hail (1.25)
Koochiching County 6 S Ericsburg	18	2050CST			0	0			Hail (0.88)
Koochiching County 1 S International Falls	18	2059CST			0	0			Hail (0.75)
Itasca County Cohasset	18	2115CST			0	0			Hail (0.75)
									Several reports of 3/4 inch hail were received from the area between Cohasset (5 miles northwest of Grand Rapids) to 15 miles northeast of Grand Rapids from 2115-2120 CST.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northeast									
Itasca County Togo	18	2120CST			0	0			Hail (0.75)
Itasca County 6 S Deer River	18	2130CST			0	0			Hail (0.75)
Koochiching County 10 W Ray	18	2132CST			0	0			Hail (0.75)
Itasca County Grand Rapids	18	2133CST			0	0			Hail (0.75)
MINNESOTA, Northwest									
Clearwater County Zerkel	14	0025CST			0	0			Hail (0.75)
Polk County Angus	14	0345CST			0	0	200K		Lightning
									Lightning struck a church in Angus, igniting a fire that totally destroyed the church.
Wilkin County Kent	14	2315CST			0	0	0.20K		Thunderstorm Wind
									Several trees were downed by the strong wind.
Wilkin County Wolverton	14	2330CST			0	0	50K		Thunderstorm Wind
									10 aluminum transmission structure were blown over by the strong wind.
Clay County 15 SE Moorhead	14	2343CST			0	2	10K		Thunderstorm Wind
									The wind blew over a semi truck, injuring the two occupants inside. One had a broken collar bone.
Clay County Hawley	15	0000CST			0	0	8K		Thunderstorm Wind
									The strong wind blew the roof off a house.
Clay County Ulen	15	0015CST			0	0	20K		Thunderstorm Wind
									A tree was blown into a house, damaging the roof. A barn was also heavily damaged.
Mahnomen County Mahnomen	15	0045CST			0	0	2K		Thunderstorm Wind
									A machine shed was blown down in the wind.
Polk County Erskine	15	0100CST			0	0	30K		Thunderstorm Wind
									A large storage shed, grain bins, a hay shed, and a church roof were damaged in the strong wind.
Polk County Mc Intosh	15	0100CST			0	0	0.10K		Thunderstorm Wind
									Several large tree limbs were downed in the wind.
Polk County Rindal	15	0100CST			0	0	10K		Thunderstorm Wind
									The wind blew down a small pole shed and tore the roof off a machine shed.
Polk County Winger	15	0100CST			0	0	1K		Thunderstorm Wind
									A tree blew down in the wind, stripping a power meter from a wall.
Polk County 1 S Winger	15	0100CST			0	0	1K		Thunderstorm Wind
									The wind blew down a tree and tore the skirt from a trailer home.
Red Lake County Oklee	15	0110CST			0	0	5K		Thunderstorm Wind
									The strong wind blew a trailer off its foundation and its entryway was blown off. Several trees were blown over and a pole shed was damaged.
Beltrami County Pinewood	15	0127CST			0	0			Hail (1.00)
Marshall County Grygla	15	0200CST			0	0	15K		Thunderstorm Wind
									Power lines were downed in the strong wind.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northwest									
Lake Of The Woods County									
6 NW Baudette	15	0230CST			0	0			Hail (1.00)
Roseau County									
4 W Warroad	15	0920CST			0	0			Hail (0.75)
Roseau County									
Warroad	15	1530CST			0	0			Hail (0.75)
Marshall County									
4 SW Stephen	27	1925CST			0	0			Hail (0.75)
Marshall County									
4 W Argyle	27	1955CST			0	0			Hail (0.75)
Norman County									
Twin Vly	27	2235CST			0	0			Hail (0.75)
Marshall County									
Viking	28	1510CST			0	0			Hail (1.00)
Marshall County									
5 NW Stephen	28	1545CST			0	0			Hail (0.75)
Kittson County									
Humboldt	28	1620CST			0	0			Hail (0.75)
MINNESOTA, Southeast									
Dodge County									
1 W Oslo	15	1543CST			0	0	18K		Thunderstorm Wind (G56)
Mower County									
Austin	15	1555CST			0	0	60K		Thunderstorm Wind (G57)
Olmsted County									
2 NW Eyota to 3 N Viola	15	1600CST 1612CST	8	75	0	0	50K		Tornado (F1)
Winona County									
2 S St Charles	15	1610CST			0	0	15K		Thunderstorm Wind (G54)
Winona County									
St Charles	15	1615CST			0	0	30K		Thunderstorm Wind (G56)
Wabasha County									
3 NW Plainview	15	1617CST			0	0	12K		Thunderstorm Wind (G55)
Olmsted County									
Rochester Arpt	15	1625CST			0	0			Thunderstorm Wind (G56)
Wabasha County									
Wabasha	15	1635CST			0	0	10K		Thunderstorm Wind (G54)
Olmsted County									
Dover	15	1638CST			0	0	65K		Thunderstorm Wind (G56)
Fillmore County									
Spring Vly	15	1653CST			0	0			Thunderstorm Wind (G52)
Olmsted County									
2 E Eyota	15	1708CST			0	0			Thunderstorm Wind (G52)
Winona County									
Altura	15	1730CST			0	0	18K		Thunderstorm Wind (G52)
Winona County									
Bethany	15	1733CST			0	0	12K		Thunderstorm Wind (G52)
Winona County									
5 W Winona	15	1738CST			0	0	15K		Thunderstorm Wind (G58)
Winona County									
2 W Winona	15	1740CST			0	0	8K		Thunderstorm Wind (G52)
60 to 70 mph wind gusts downed power lines and trees. A tornado touched down near Eyota and moved northward along Highway 42, damaging several farms, before lifting near Elgin.									
Dodge County									
2 S West Concord	18	2130CST 2137CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Southeast									
Wabasha County									
Elgin	18	2132CST			0	0	15K		Thunderstorm Wind (G50)
Olmsted County									
Oronoco	18	2150CST			0	0	10K		Hail (0.75)
Olmsted County									
2 NW Rochester	18	2155CST			0	0			Hail (0.75)
Olmsted County									
Rochester	18	2205CST			0	0	8K		Hail (0.75)
Olmsted County									
Rochester	18	2206CST			0	0	20K		Hail (1.00)
Olmsted County									
Rochester	18	2210CST			0	0	30K		Hail (1.50)
Fillmore County									
Fountain	18	2302CST			0	0	18K		Hail (1.00)
Fillmore County									
Lanesboro	18	2313CST			0	0	28K		Hail (1.75)
Winona County									
Hart	18	2322CST			0	0			Hail (0.75)
Houston County									
Houston	18	2340CST			0	0	30K	40K	Hail (1.75)
Dodge County									
Dodge Center	19	0020CST			0	0			Hail (0.75)
Spotters and law enforcement officials reported hail the size of dimes, quarters and even golfballs.									
Wabasha County									
Elgin	28	0208CST			0	0		15K	Hail (0.75)
Wabasha County									
Plainview	28	0215CST			0	0	10K		Hail (0.75)
Wabasha County									
Plainview	28	0220CST			0	0	8.5K	12.5K	Hail (0.75)
Winona County									
10 NW Winona	28	0245CST			0	0			Hail (0.75)
Dime size hail was reported by storm spotters as a small cluster of severe thunderstorms affected southeast Minnesota.									
Mower County									
Austin	30	2230CST			0	0	20K		Thunderstorm Wind (G61)
Olmsted County									
Rochester	30	2230CST			0	0	25K		Thunderstorm Wind (G60)
Olmsted County									
Rochester	30	2230CST			0	0	75K		Thunderstorm Wind (G65)
Olmsted County									
Byron	30	2235CST			0	0			Thunderstorm Wind (G50)
Olmsted County									
3 S Eyota	30	2235CST			0	0	40K		Thunderstorm Wind (G56)
Olmsted County									
Rochester	30	2236CST			0	0	35K		Thunderstorm Wind (G53)
Dodge County									
Dodge Center	30	2240CST			0	0	18K		Thunderstorm Wind (G52)
Wabasha County									
Wabasha	30	2247CST			0	0	40K	30K	Thunderstorm Wind (G61)
Wabasha County									
Plainview	30	2250CST			0	0	15K		Thunderstorm Wind (G56)
Fillmore County									
Spring Vly	30	2300CST			0	0	15K	28K	Thunderstorm Wind (G55)
Olmsted County									
Byron	30	2310CST			0	0		25K	Thunderstorm Wind (G53)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Southeast</u>									
Winona County 5 N St Charles	30	2310CST			0	0	25K		Thunderstorm Wind (G55)
Winona County Winona	30	2312CST			0	0	50K		Thunderstorm Wind (G58)
Fillmore County Ostrander	30	2315CST			0	0	35K	30K	Thunderstorm Wind (G55)
Winona County Hart	30	2315CST			0	0	25K	15K	Lightning
Winona County Hart	30	2315CST			0	0	40K		Thunderstorm Wind (G55)
Fillmore County Canton	30	2330CST			0	0	25K	30K	Thunderstorm Wind (G54)
Wabasha County Lake City	30	2330CST			0	0	45K		Thunderstorm Wind (G60)
Houston County Caledonia	30	2335CST			0	0		20K	Thunderstorm Wind (G52)
Wind gusts as high as 75 mph caused widespread damage, blowing down numerous trees and disrupting power to thousands. In fact, a power outage on a farm near Hart caused the death of 500 hogs due to asphyxiation. Several barns were damaged, one of which collapsed, killing six cattle near Ridgeway. Another barn near Hart caught fire when it was hit by lightning, but no livestock were injured.									
<u>MINNESOTA, Southwest</u>									
Rock County Magnolia	15	1057CST			0	0			Thunderstorm Wind (G70)
Rock County Kenneth	15	1208CST			0	0			Thunderstorm Wind (G52)
Murray County 1 E Fulda	15	1400CST			0	0	5K		Lightning
Lightning killed two horses and injured several other horses.									
Lyon County 5 N Russell	30	2036CST			0	0	10K		Thunderstorm Wind (G50)
Thunderstorm winds damaged trees and windows.									
Nobles County Rushmore	30	2133CST			0	0			Hail (0.75)
<u>MINNESOTA, West</u>									
NONE REPORTED.									
<u>MINNESOTA, West Central</u>									
Big Stone County Ortonville	15	0400CST			0	0			Hail (0.75)
<u>MISSISSIPPI, Central</u>									
Madison County 15 NE Canton	03	0230CST			0	0	1K		Thunderstorm Wind
Trees were blown down across the Natchez Trace Parkway.									
Yazoo County 10 SE Benton	03	0230CST			0	0	2K		Thunderstorm Wind
Several trees and numerous large limbs were blown down.									
Copiah County Hazlehurst	03	1228CST			0	0			Hail (0.75)
Jefferson Davis County Prentiss	03	1235CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Smith County Taylorsville	03	1250CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Jasper County Heidelberg	03	1255CST			0	0	3K		Thunderstorm Wind
			Twenty six trees were blown down .						
Jasper County Paulding	03	1258CST			0	0			Hail (1.75)
Lincoln County Brookhaven	03	1305CST			0	0			Hail (1.75)
Jones County Laurel	03	1320CST			0	0			Hail (0.88)
Simpson County Magee	03	1329CST			0	0			Hail (1.75)
			Golfball size hail covered the ground.						
Clarke County Quitman	03	1330CST			0	0			Hail (0.88)
Lincoln County Auburn	03	1336CST			0	0			Hail (0.88)
Jasper County Bay Spgs	03	1345CST			0	0			Hail (0.75)
Simpson County Magee	03	1410CST			0	0			Hail (0.75)
Adams County Fenwick	03	1430CST			0	0			Hail (0.75)
Franklin County Bude	03	1450CST			0	0			Hail (0.75)
Franklin County Meadville	03	1508CST			0	0			Hail (0.75)
Lincoln County Arlington	03	1530CST			0	0			Hail (1.75)
Marion County Goss	06	0421CST			0	0			Hail (0.75)
Attala County 5 N Kosciusko	09	1640CST			0	0			Hail (0.88)
Choctaw County Ackerman	09	1645CST			0	0			Hail (0.75)
Choctaw County Ackerman	09	1645CST			0	0			Thunderstorm Wind (G52)
Oktibbeha County Sturgis	09	1659CST			0	0			Hail (0.75)
Noxubee County Brooksville	09	1750CST			0	0	3K		Thunderstorm Wind
			Signs and several trees were blown down.						
Newton County Little Rock	09	1835CST			0	0			Thunderstorm Wind (G52)
Washington County Hollandale	09	2030CST			0	0			Hail (0.75)
Washington County Greenville	26	1800CST			0	0	5K		Thunderstorm Wind
			Power lines and large limbs were blown down across the city.						
Leflore County Swiftown	28	1730CST			0	0			Hail (1.75)
Montgomery County Duck Hill	28	1800CST			0	0			Hail (0.75)
Montgomery County Duck Hill	28	1800CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSISSIPPI, Central</u>									
Webster County Mathiston	28	1800CST			0	0			Hail (1.00)
Sunflower County 2 N Indianola	28	1815CST			0	0			Hail (1.00)
Humphreys County Belzoni	28	1845CST			0	0			Hail (1.00)
Jasper County Stringer	28	1930CST			0	0			Hail (0.75)
Hinds County Brownsville	28	1945CST			0	0			Hail (0.75)
Smith County 8 NE Taylorsville	28	1945CST			0	0	4K		Thunderstorm Wind
			Several trees and power line were blown down.						
Madison County 8 W Canton	28	2000CST			0	0	2K		Thunderstorm Wind
			Several trees were blwon down.						
Neshoba County 4 W Neshoba	29	0240CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						
Bolivar County Shaw	29	0345CST 0500CST			0	0			Flash Flood
			Several streets and roads were flooded.						
Washington County Greenville	29	0345CST 0500CST			0	0			Flash Flood
			Numerous roads were flooded. One road had to be closed.						
Leflore County Itta Bena	29	0800CST 0930CST			0	0	100K		Flash Flood
			Nine homes were flooded and residence had to be evacuated. Many roads were also flooded.						
Humphreys County Belzoni	29	0900CST 1030CST			0	0	150K		Flash Flood
			Twenty home had water in them. Many roads and highways were flooded.						
Scott County Morton	29	0900CST			0	0	100K		Lightning
			Lightning struck a clothing store and started it on fire. The building was a total loss.						
<u>MISSISSIPPI, North</u>									
Alcorn County Corinth	06	1230CST 1730CST			0	0	5K		Flash Flood
			Three inches of rain fell in two hours causing flash flooding. Several roads and parking lots were flooded. One home and several lawns were also flooded. One pregnant woman was trapped in her car and had to be rescued.						
Tishomingo County Iuka	06	1400CST 1730CST			0	0	5K		Flash Flood
			More than five inches of rain fell in about one hour's time producing flash flooding. Several roads were closed and a couple of cars were stranded.						
Lafayette County Oxford	07	0130CST 0135CST			0	0	5K		Thunderstorm Wind
			A huge pecan tree was blown over.						
Benton County Lamar	07	0300CST 0305CST			0	0	5K		Thunderstorm Wind
			Several trees were knocked down.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, North									
Lee County Verona	07	2015CST 2020CST			0	0	0.01K		Hail (0.75)
Itawamba County Fulton	07	2030CST 2035CST			0	0	0.10K		Hail (1.00)
Tallahatchie County Charleston	07	2050CST 2055CST			0	0	0.01K		Hail (0.75)
Yalobusha County Oakland to Coffeeville	07	2100CST 2120CST			0	0	1.3K		Hail (1.75)
			Golfball size hail fell in Oakland while ping pong ball size hail fell in Coffeeville.						
Lowndes County Crawford	09	1736CST 1741CST			0	0	0.75K		Hail (1.75)
Prentiss County Booneville to 5 S Wheeler	26	1230CST 1245CST			0	0	10K		Thunderstorm Wind
			Several trees and power lines were blown down. A power line landed on a pickup truck setting two of its tires on fire. The roof to a garment factory near Baldwin was damaged.						
Chickasaw County Houston	28	1535CST 1540CST			0	0	5K		Thunderstorm Wind
			A tree was blown on top of a truck.						
Tate County Independence	28	1550CST 1555CST			0	0	0.10K		Hail (1.00)
Pontotoc County Pontotoc	28	1610CST 1615CST			0	0	0.75K		Hail (1.75)
De Soto County Lewisburg	28	1630CST 1635CST			0	0	0.75K		Hail (1.75)
Pontotoc County Pontotoc	28	1630CST 1635CST			0	0	2.3K		Hail (2.50)
			Hail ranging from golfball to baseball size fell in Pontotoc.						
Pontotoc County Pontotoc	28	1630CST 1635CST			0	0	25K		Thunderstorm Wind
			A large section of the roof was blown off a mattress factory. A grain elevator was badly damaged. Several trees and power lines were knocked down.						
Calhoun County Pittsboro	28	1650CST 1655CST			0	0	0.05K		Hail (0.88)
Pontotoc County Randolph	28	1715CST 1720CST			0	0	0.25K		Hail (1.25)
Union County Ingomar	28	1715CST 1720CST			0	0	0.76K		Hail (1.75)
			Hail ranging from dime to golf ball size fell in Ingomar.						
Coahoma County Clarksdale	28	1725CST 1730CST			0	0	0.01K		Hail (0.75)
Union County New Albany	28	1735CST 1740CST			0	0	0.75K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSISSIPPI, North</u>									
Chickasaw County Okolona	28	1740CST 1745CST			0	0	5K		Thunderstorm Wind
			A few trees were knocked down.						
Clay County Montpelier	28	1743CST 1750CST			0	0	0.75K		Hail (1.75)
Tippah County 3 SW Bluff	28	1815CST 1825CST			0	0	5K		Thunderstorm Wind
			Several trees were blown down.						
Benton County Ashland	28	1905CST 1910CST			0	0	5K		Thunderstorm Wind
			Some trees were knocked down.						
Monroe County Aberdeen	28	1920CST 1925CST			0	0	0.01K		Hail (0.75)
<u>MISSISSIPPI, South</u>									
Pearl River County Carriere	03	1336CST			0	1			Lightning
			Lightning struck a man while he was in a swimming pool.						
Pearl River County Carriere	03	1336CST			0	0			Lightning
			Pearl River County Sheriff's Office reported that a lightning stike ignited a house fire.						
Harrison County Lizana	03	1420CST			0	0			Hail (0.75)
Jackson County Vanceave	06	1118CST			0	0			Hail (0.75)
			Vanceave fire department reported dime size hail.						
Jackson County Pascagoula	06	1130CST			0	0	20K		Lightning
			Lightning struck a restaurant and office building causing damage to computers and other equipment.						
Jackson County Pascagoula	06	1150CST			0	0			Hail (0.75)
			Storm spotter reported dime size hail.						
Pike County 2 S Summit	28	1625CST			0	0			Hail (0.75)
			Reported by Pike County Civil Defense between Highways 570 and 44.						
Pike County 4 SE Summit	28	1659CST			0	0			Hail (0.75)
			Reported by Pike County Civil Defense between Summit and McComb.						
<u>MISSISSIPPI, Southeast</u>									
			NONE REPORTED.						
<u>MISSOURI, East</u>									
St. Louis County Bridgeton	01	1830CST			0	0			Hail (0.88)
			A storm spotter reported that hail up to nickel size fell in Bridgeton.						
Boone County Columbia	01	1943CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm wind gusts downed a few trees in the eastern part of town.						
Franklin County Sullivan	02	1410CST			0	0			Hail (0.88)
			Amateur radio spotters reported nickel size hail.						
Ste. Genevieve (C) 9 S Ste Genevieve	02	1432CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, East									
A storm spotter reported 3/4 inch hail south of Ste. Genevieve.									
St. Francois County 5 W Bonne Terre	02	1450CST			0	0			Hail (1.00)
St. Francois County 5 W Bonne Terre	02	1450CST			0	0			Thunderstorm Wind (G50)
Storm spotters reported 1 inch hail and some trees down west of Bonne Terre in the Terre du Lac area.									
Marion County Palmyra	07	1800CST			0	0			Hail (0.75)
Marion County Hannibal	07	1805CST			0	0			Hail (0.75)
Marion County Hannibal	07	1840CST			0	0			Hail (0.75)
Storm spotters reported 3/4 inch hail in Palmyra and Hannibal.									
Ralls County Saverton	07	1905CST			0	0			Hail (1.00)
1 inch hail was reported in Saverton.									
St. Louis County Chesterfield	07	2015CST			0	0			Hail (1.75)
St. Louis County Creve Coeur	07	2024CST			0	0			Hail (1.50)
St. Louis County Maryland Hgts	07	2031CST			0	0			Hail (1.25)
St. Louis County Bridgeton	07	2036CST			0	0			Hail (1.50)
St. Louis County Bridgeton	07	2040CST			0	0			Hail (1.00)
St. Louis County Hazelwood	07	2045CST			0	0			Hail (0.75)
St. Louis County Florissant	07	2046CST 2056CST			0	0			Hail (0.75)
Hail ranging in size from 3/4 inch to golfball fell across north and west St. Louis County.									
Knox County Novelty	12	1510CST			0	0			Hail (0.75)
The Novelty fire department reported 3/4 inch hail.									
Lewis County Lewistown	12	1555CST			0	0			Hail (1.75)
The County Sheriff reported golfball size hail.									
Clark County Wayland	12	1622CST			0	0			Hail (0.75)
Storm spotters reported 3/4 inch hail.									
Lewis County La Grange	12	1642CST			0	0			Hail (1.75)
The County Sheriff reported golfball size hail.									
St. Charles County Orchard Farm	12	2200CST			0	0			Hail (0.75)
The local fire department reported 3/4 inch hail.									
Scotland County Memphis	20	0700CST			0	0			Thunderstorm Wind (G54)
Scotland County Memphis	20	0715CST			0	0			Thunderstorm Wind (G54)
The county sheriff reported trees down and some awnings on homes damaged by thunderstorm winds.									
Knox County Newark	20	0705CST			0	0			Thunderstorm Wind (G54)
Knox County Newark	20	0720CST			0	0			Thunderstorm Wind (G54)
Storm spotters reported trees down and a few storage buildings damaged.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, East									
Osage County Chamois	21	1120CST			0	0			Hail (0.75)
			The County Sheriff reported 3/4 inch hail.						
St. Charles County Weldon Spg	21	1155CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm wind gusts downed trees at the Missouri Bluffs Golf Club.						
St. Louis County (Sus)Spirit/St Louis	21	1156CST			0	0			Thunderstorm Wind (G51)
St. Louis County Town And Country	21	1200CST			0	0			Hail (0.75)
St. Louis County Florissant	21	1214CST			0	0			Hail (1.00)
			Thunderstorm wind gusts around 60 mph were recorded at Spirit of St. Louis Airport in Chesterfield. Hail from 3/4 to 1 inch was reported by the Missouri Highway Patrol and storm spotters across north and west St. Louis County.						
St. Louis (C) Carondelet	21	1220CST			0	0			Hail (1.00)
			Storm spotters reported 1 inch hail at the intersection of I-55 and Broadway.						
Franklin County Beaufort	21	1229CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm winds downed trees and broke a few windows at an elementary school.						
Washington County 12 N Potosi	21	1315CST			0	0			Hail (1.75)
Washington County 8 N Potosi	21	1317CST			0	0			Hail (1.75)
			The county sheriff reported golfball size hail north of Potosi.						
Iron County Ironton	21	1321CST			0	0			Hail (0.75)
			The county sheriff reported 3/4 inch hail.						
Washington County Shirley	21	1340CST			0	0			Thunderstorm Wind (G55)
			The county sheriff reported trees and power lines down.						
Ste. Genevieve (C) St Marys	21	1345CST			0	0			Thunderstorm Wind (G55)
			Storm spotters reported a few trees down along Highway 61.						
Scotland County Memphis	22	0000CST			0	0			Thunderstorm Wind (G53)
			The County Sheriff reported trees and power lines down across town.						
Clark County Luray	22	0010CST			0	0			Thunderstorm Wind (G55)
Clark County Kahoka	22	0020CST			0	0			Hail (0.75)
			Thunderstorm winds blew a mobile home off its blocks. 3/4 inch hail was reported in Kahoka.						
Lincoln County Winfield	22	0035CST			0	0			Hail (0.75)
			Storm spotters reported 3/4 inch hail.						
Lewis County Monticello	22	0100CST			0	0			Thunderstorm Wind (G55)
			The County Sheriff reported trees and powerlines down.						
Marion County Hannibal	22	0130CST			0	0			Hail (1.75)
Marion County Hannibal	22	0130CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts downed numerous trees across Hannibal. At least 27 streets were completely blocked or had restrictions because of downed trees and limbs. Powerlines were also downed throughout the city. Golfball size hail also fell.						
Ralls County New London	22	0150CST			0	0			Thunderstorm Wind (G51)
			The County Sheriff reported wind gust around 60 mph resulting in a few downed trees.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MISSOURI, East									
Cole County Jefferson City	23	1515CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed a few trees and powerlines. About 2000 people were without electricity for a couple of hours.
Cole County Wardsville	23	1535CST			0	0			Hail (0.88)
Cole County Wardsville	23	1535CST			0	0			Thunderstorm Wind (G55) The County Sheriff reported nickel size hail and some trees downed by thunderstorm winds.
Cole County Brazito	23	1537CST 1542CST			0	0			Hail (1.00) One inch hail fell in Brazito for at least 5 minutes. Several cars were dented by the hail.
Callaway County Holts Summit	23	1540CST			0	0			Hail (1.75)
Callaway County (Jef)Jffrsn City Mem	23	1546CST			0	0			Hail (1.00) Storm spotters reported golfball size hail in Holts Summit. One inch hail fell at the Jefferson City Airport.
Callaway County Fulton	23	1615CST			0	0			Hail (0.75)
Callaway County Kingdom City	23	1630CST			0	0			Hail (0.75) Storm spotters reported 3/4 inch hail in Fulton and Kingdom City.
Boone County 5 N Columbia	23	1636CST			0	0			Hail (1.75) Golfball size hail fell north of Columbia.
St. Charles County Harvester	23	1654CST 1659CST	2	70	0	1			Tornado (F1) A small tornado left an intermittent damage path through the Harvester area of St. Charles County. The first damage occurred about 1/8 mile south of Towers Road in the Vineyards subdivision. Here it snapped several trees and caused minor roof damage. The intensity was F0 with a width of about 40 yards. The tornado crossed Towers Road and moved into the Summerfield subdivision. Seventeen homes in this area suffered roof damage. Two homes were later condemned by county officials. The one injury occurred in this area. A 7 year-old boy suffered a cut from broken glass. The tornado at this point reached the lower end of F1 on the Fujita scale and had a damage width of about 60 yards. The tornado continued northeast and caused damage in the vicinity of Hickory Dale Road where 8 homes suffered some degree of roof or siding damage. The roof of one home was completely blown off. Here the tornado was also at the lower end of F1 and reached its maximum damage width of 70 yards. The tornado crossed Caulks Hill Road causing some tree damage. The tornado began to dissipate with only tree damage noted to Jungs Station Road.
Boone County Centralia	23	1655CST			0	0			Hail (0.75) Storm spotters reported 3/4 inch hail in Centralia.
St. Louis County Florissant	23	1705CST			0	0			Thunderstorm Wind (G51) Storm spotters reported 60 mph wind gusts at the intersection of Interstate 270 and 170. Some road signs were damaged.
St. Charles County Harvester	23	1705CST			0	0			Thunderstorm Wind (G60) Thunderstorm wind gusts downed trees and power lines.
St. Charles County St Charles Arpt	23	1712CST			0	0			Thunderstorm Wind (G51) A 60 mph wind gust was recorded at the St. Charles County Airport.
St. Louis County Rock Hill	23	1715CST			0	0			Thunderstorm Wind (G52) A local television station reported trees down in Rock Hill.
Marion County 5 W Palmyra	23	2315CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed trees along Route 168.
Reynolds County Black	25	0215CST			0	0			Thunderstorm Wind (G55) Thunderstorm winds downed trees along Highway J.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, East									
Reynolds County Lesterville	25	0220CST			0	0			Thunderstorm Wind (G57)
									Thunderstorm winds downed trees across town.
Iron County Ironton	25	0238CST			0	0			Thunderstorm Wind (G57)
									A few trees were reported downed by thunderstorm winds.
St. Francois County Bismarck	25	0240CST			0	0			Thunderstorm Wind (G57)
St. Francois County Desloge	25	0245CST			0	0			Thunderstorm Wind (G57)
St. Francois County Park Hills	25	0245CST			0	0			Thunderstorm Wind (G57)
St. Francois County Farmington	25	0250CST			0	0			Thunderstorm Wind (G57)
									A line of severe thunderstorms caused wind damage across much of the west and central part of St. Francois County. Trees, power, cable and telephone lines were downed throughout the area. Hardest hit was Farmington where some residents were without power for at least 8 hours. Numerous roofs and automobiles were damaged by falling trees or large limbs. Billboards were downed along U.S. Highway 67.
Washington County Ironton	25	0247CST			0	0			Thunderstorm Wind (G57)
									Thunderstorm wind gusts downed trees and powerlines.
Madison County Fredericktown	25	0254CST			0	0			Hail (1.00)
Madison County Fredericktown	25	0254CST			0	0			Thunderstorm Wind (G57)
									Thunderstorm winds downed trees and powerlines across town. Several automobiles were damaged by falling trees.
Ste. Genevieve (C) Ste Genevieve	25	0320CST			0	0			Hail (1.00)
Ste. Genevieve (C) Lawrenceton	25	0330CST 0335CST			0	0			Thunderstorm Wind (G57)
Ste. Genevieve (C) St Marys	25	0330CST			0	0			Thunderstorm Wind (G57)
Ste. Genevieve (C) Ste Genevieve	25	0330CST 0335CST			0	0			Thunderstorm Wind (G57)
Ste. Genevieve (C) Zell	25	0330CST 0335CST			0	0			Thunderstorm Wind (G57)
									A line of thunderstorms caused wind damage across a large portion of east Ste. Genevieve County. Trees were blocking roads in the Lawrenceton and Zell areas. One home on Highway A near Zell suffered serious roof damage when a large tree fell on the roof. Some cars were damaged in Ste. Genevieve from falling trees and limbs. Outbuildings were reported damaged in St. Marys
MISSOURI, Lower									
Pemiscot County Wardell to Hayti	02	1910CST 1920CST			0	0	0.02K		Hail (0.75)
Dunklin County Holcomb	02	2235CST 2240CST			0	0	0.05K		Hail (0.88)
Dunklin County Cardwell	09	1848CST 1855CST			0	0	0.10K		Hail (1.00)
Dunklin County 1 S Cardwell	09	1920CST 1925CST			0	0	25K		Thunderstorm Wind
									A trailer was rolled over. Several barns and outbuildings were blown down and a couple of roofs were damaged. Several trees were knocked down.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Lower

Dunklin County
Malden

28	1350CST 1355CST				0	0	0.01K		Hail (0.75)
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MISSOURI, Northwest

MOZ032-039-054

Chariton - Saline - Henry
01 0000CST
02 2359CST

					0	0			Flood
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Minor river flooding leftover from late April along the Blackwater, South Grand and Grand Rivers occurred during the beginning of May.

Blackwater River
Blue Lick, MO

Flood Stage		24 ft
Above Flood Stage		5/1
Crest		25.72 ft from 4/30

South Grand River
Urich, MO

Flood Stage		24 ft
Above Flood Stage		5/1 to 5/2
Crest		25.9 ft from 4/28

Grand River
Sumner, MO

Flood Stage		26 ft
Above Flood Stage		5/1
Crest		33.69 ft from 4/30

Brunswick, MO

Flood Stage		19 ft
Above Flood Stage		5/1
Crest		N/A

MOZ032

Chariton
07 0000CST
11 2359CST

					0	0			Flood
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Minor river flooding occurred along the Grand River between May 7 and May 11.

South Grand River
Urich, MO

Flood Stage		24 ft
Above Flood Stage		5/7 and 5/10
Crest		24.1 ft on 5/7 and 24.3 ft on 5/10

Holt County
Forest City

15	0745CST				0	0			Thunderstorm Wind (G60)
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Severe thunderstorm winds downed large trees in Forest City.

Atchison County
Langdon to
7 N Linden

15	0758CST 0815CST				0	0	50K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Northwest

A severe thunderstorm moved northward through Atchison County from near Langdon through Phelps City through Linden and to the Iowa border. Property damage estimated at 50,000 dollars occurred along along Route 275 and County Road T. Numerous large trees were downed as a result of the winds and several farms reported damage to barns and grain bins. The most severe damage occurred at a farmstead on County Road T about 7 miles south of the Iowa border. Two farm houses had portions of the roof removed from the winds and falling trees damaged the southwest section of the house. One of the barns was completely leveled on the property. The property damage here alone was approximately 40,000 dollars.

Atchison County

**2 NW Westboro to
2 W Westboro**

19	0850CST 0855CST				0	0			Hail (2.00)
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Large hail was reported from severe thundestorms throughout Atchison County. Golfball-size to egg-size hail was reported by the public 2 miles west of Westboro, dime-size hail was reported by a spotter 2 miles northwest of Westboro. Nickel-size hail was reported by a citizen 10 miles northwest of Tarkio.

Atchison County

10 ENE Tarkio

19	0920CST				0	0			Hail (0.88)
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Nickel-size hail was reported by the public 10 miles northeast of Tarkio.

Nodaway County

**2 W Burlington Jct to
4 W Maryville**

19	0928CST 0935CST				0	0			Hail (0.88)
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The Nodaway County Sheriffs Office reported nickel-size hail 2 miles west of Burlington Junction and 3.5 miles west of Maryville.

Atchison County

1 S Tarkio

20	0325CST				0	0	2K		Thunderstorm Wind
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The Tarkio Police Department reported damage to a television antenna a mile south of Tarkio.

Nodaway County

**2 N Skidmore to
Conception**

20	0400CST 0445CST				0	0			Hail (1.75)
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A cooperative observer reported golfball-size hail during a severe thunderstorm 2 miles north of Skidmore. A storm spotter reported one inch diameter hail at Conception.

Adair County

Kirksville

20	0653CST				0	0			Thunderstorm Wind (G60)
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Public reported downed trees and power lines from thunderstorm winds.

Worth County

2 W Worth

21	0638CST				0	0			Hail (0.75)
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Dime-size hail was reported by the county sheriff's office 2 miles west of Worth.

Putnam County

**1 NE Midway to
2 W Worthington**

21	1100CST 1130CST				0	0			Thunderstorm Wind (G60)
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Severe thunderstorm winds blew the doors off a barn and knocked down a 24 inch diameter tree a mile northeast of Midway. The winds from the same thunderstorm uprooted a 25 foot pine tree 2 miles west of Worthington.

Schuyler County

Queen City

21	1145CST				0	0			Thunderstorm Wind (G60)
22	1200CST								

Severe thunderstorm winds uprooted trees 1 to 2 feet in diameter in Queen City.

Adair County

Kirksville

21	1157CST				0	0			Thunderstorm Wind (G62)
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A 62 MPH wind gust was measured during a severe thunderstorm in Kirksville at a local television station.

Clinton County

**5 N Perrin to
2 SW Cameron**

23	1705CST 1720CST				0	0			Hail (0.75)
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The Clinton County Sheriff's Office reported dime-size hail 5 miles north of Perrin and 2 miles southwest of Cameron.

Saline County

3 E Miami

23	1720CST				0	0			Hail (1.00)
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A local cooperative observer reported one inch diameter hail 3 miles east of Miami.

Chariton County

Brunswick

23	1725CST				0	0			Hail (0.75)
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The Brunswick Fire Department reported dime-size hail in Brunswick.

Clinton County

Cameron

23	1756CST				0	0			Hail (0.75)
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Dime-size hail was reported by a spotter at Cameron.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
De Kalb County									
Osborn	23	1800CST			0	0			Hail (0.75)
			Dime-size hail was reported by a spotter in Osborn.						
Linn County									
Linneus	23	1815CST			0	0			Hail (0.75)
			A cooperative observer reported dime-size hail during a severe thunderstorm at Linneus.						
Macon County									
5 W Macon to 7 NE Macon	23	1923CST 1945CST			0	0			Hail (0.88)
			Severe thunderstorms over Macon County dropped nickel-size hail 5 miles west of Macon and dime-size hail 7 miles northeast of Macon.						
Daviess County									
5 SW Carlow	23	1935CST			0	0			Hail (0.75)
			Dime-size hail was reported during a thunderstorm 5 miles southwest of Carlow.						
Ray County									
2 S Rockingham	23	1935CST			0	0			Hail (0.88)
			Nickel-size hail was reported by the public 2 miles south of Rockingham.						
Caldwell County									
Breckenridge	23	1938CST			0	0			Hail (0.75)
			Dime-size hail was reported by a spotter in Breckenridge.						
Carroll County									
3 NW Norborne	23	1940CST			0	0			Hail (1.00)
			Quarter-size hail was reported by the public 3 miles northwest of Norborne.						
Livingston County									
Mooreville	23	2000CST			0	0			Hail (0.75)
			Dime-size hail was reported by the public at Mooreville.						
Livingston County									
Mooreville	23	2000CST			0	0			Thunderstorm Wind (G60)
			The same thunderstorm that produced the dime-size hail in Mooreville also generated a 60 MPH wind gust.						
Henry County									
Montrose	24	2113CST			0	0			Hail (0.75)
			Golfball-size hail was reported in Montrose by the Henry County Sheriff's office.						
Buchanan County									
St Joseph Arpt	29	0347CST			0	0			Thunderstorm Wind (G61)
			A 61 MPH wind gust was reported during a severe thunderstorm at Rosecrans Airport.						
Platte County									
Edgerton	29	0430CST			0	0			Thunderstorm Wind (G60)
			The Platte County Sheriff's Office reported downed trees at Edgerton as a result of severe thunderstorm winds.						
MOZ020									
			Buchanan						
	30	0000CST			0	0			Flood
	31	2359CST							
			Minor river flooding occurred along the Missouri River at the end of May.						
			Missouri River St. Joseph, MO						
			Flood Stage	17 ft					
			Above Flood Stage	5/30 to 5/31					
			Crest	17.3 ft on 5/30					

MISSOURI, Southeast

MOZ087-112-114	Cape Girardeau - Mississippi - New Madrid								
	01	0001CST			0	0			Flood
	17	1800CST							
			Moderate flooding of the mid Mississippi River continued into mid May. The river crested 3 or 4 feet above flood stage at both Cape Girardeau and New Madrid. The crest occurred between the 4th and 6th of May. Flooding was generally confined to low-lying agricultural areas, river access roads, and recreational facilities such as parks and boat ramps.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSOURI, Southeast</u>									
New Madrid County									
New Madrid	02	2154CST			0	0			Hail (1.00)
Butler County									
(P02)Poplar Bluff Ar	06	2205CST 2305CST			0	0			Flash Flood
A thunderstorm produced very heavy rain. The automated observing system at Poplar Bluff measured an inch of rain in only 30 minutes. Agricultural and bottomland flooding was reported, but no highway flooding was reported.									
Stoddard County									
Dexter	06 07	2315CST 0015CST			0	0			Urban/Sml Stream Fld
Thunderstorms produced heavy rain over Dexter. Some intersections in Dexter were covered by 3 to 6 inches of water.									
Perry County									
Perryville	21	1404CST			0	0			Thunderstorm Wind (G52)
Trees were down around Perryville.									
Cape Girardeau County									
Friedheim	21	1420CST			0	0			Hail (1.00)
Dime size hail occurred on Interstate 55 near the Perry County line. Quarter size hail fell a little further south, about 15 miles northwest of Cape Girardeau.									
Scott County									
Benton	21	1512CST			0	0			Hail (0.75)
Wayne County									
Coldwater	21	1515CST			0	0			Hail (1.75)
Scott County									
Lusk	21	1542CST			0	0			Hail (1.00)
Scott County									
Sikeston	21	1550CST			0	0			Thunderstorm Wind (G52)
Reported by KSIM radio.									
Mississippi County									
Charleston	21	1552CST			0	0			Hail (0.75)
Wayne County									
Silva	21	1555CST			0	0			Hail (1.75)
New Madrid County									
Matthews	21	1613CST			0	0			Hail (1.75)
New Madrid County									
New Madrid	21	1622CST 1630CST			0	0			Hail (1.75)
Hail from quarter to golf ball size fell for about ten minutes in New Madrid.									
Bollinger County									
Marble Hill	21	1922CST			0	0			Thunderstorm Wind (G50)
Trees were down near Marble Hill.									
Perry County									
Perryville	25	0326CST			0	0			Thunderstorm Wind (G54)
A spotter reported a wind gust to 63 MPH. Some trees were down.									
New Madrid County									
Catron	28	1440CST			0	0			Hail (1.25)
<u>MISSOURI, Southwest</u>									
Oregon County									
1 S Calm	01	1715CST			0	0	0		Thunderstorm Wind
Thunderstorms winds downed 8 inch diameter trees.									
Greene County									
Springfield	02	1400CST			0	0			Hail (0.75)
Dime hail covered the ground in south part of the city.									
Phelps County									
Edgar Spgs	02	1400CST			0	0			Hail (0.75)
Christian County									
Chestnutridge	02	1411CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Greene County 8 SE Springfield	02	1420CST			0	0			Hail (0.75)
			Dime hail reported at junction of Highways 60 and 125.						
Barry County Monett	02	1431CST			0	0			Hail (0.75)
Texas County 2 E Solo	02	1433CST			0	0			Hail (0.75)
Wright County 5 NW Grovespring	02	1440CST			0	0			Hail (1.00)
Webster County 4 E Marshfield	02	1443CST			0	0			Hail (0.75)
Christian County 10 E Billings	02	1447CST			0	0			Hail (0.75)
Wright County 3 N Grovespring	02	1450CST			0	0			Hail (0.75)
Texas County Houston	02	1500CST			0	0			Hail (1.00)
Webster County 1 N Seymour	02	1528CST			0	0			Hail (0.75)
Taney County Bradleyville	02	1545CST			0	0			Hail (0.88)
Howell County Brandsville	02	1640CST			0	0			Hail (0.75)
Oregon County Koshkonong	02	1650CST			0	0			Hail (0.75)
St. Clair County Vista	05	1944CST			0	0			Hail (0.75)
			Thunderstorms winds also downed a large tree.						
Barry County Ridgley	05	2205CST			0	0			Thunderstorm Wind (G52)
Stone County 5 NW Kimberling City	05	2330CST			0	0			Hail (0.88)
Taney County Ridgedale	06	0025CST			0	0			Hail (0.75)
Ozark County Udall	06	1541CST			0	0			Hail (0.75)
			Thunderstorm winds also uprooted 2-3 large trees in nearby Bakersfield.						
Cedar County Jerico Spgs	06	1601CST			0	0			Hail (1.00)
Cedar County 7 S Stockton	06	1610CST			0	0	5K		Hail (2.75)
			Hail broke a car windshield.						
Jasper County Asbury	06	1620CST			0	0			Hail (1.00)
Polk County 4 N Aldrich	06	1636CST			0	0	0		Hail (1.75)
Jasper County Oronogo	06	1640CST			0	0			Hail (1.00)
Polk County 10 SW Bolivar	06	1645CST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds blew down many trees in the Foose area, along old Highway 65 and EE.						
Polk County Bolivar	06	1655CST			0	0	30K		Hail (1.75)
			Golf ball hail damaged cars and roofs in town. Thunderstorms winds also downed trees and powerlines.						
Camden County Camdenton	06	1703CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Ozark County 1 NE Sycamore	06	1705CST			0	0			Hail (0.75)
Dallas County 7 S Buffalo	06	1722CST			0	0			Hail (0.88)
Polk County 6 S Half Way	06	1725CST			0	0	0		Thunderstorm Wind
			Thunderstorm winds downed several trees.						
Dade County 2 E Pennsboro	06	1730CST			0	0	0		Hail (1.75)
Newton County Neosho	06	1736CST			0	0			Hail (0.88)
Dade County Everton	06	1738CST			0	0			Hail (1.00)
Lawrence County 2 S Aurora	06	1745CST			0	0			Hail (0.75)
Mcdonald County Anderson	06	1745CST			0	0			Hail (0.88)
Greene County Walnut Grove	06	1748CST			0	0			Hail (0.75)
Barry County Monett	06	1750CST			0	0			Hail (0.75)
Laclede County Conway	06	1750CST			0	0			Hail (0.75)
Greene County Strafford	06	1751CST			0	0			Hail (0.75)
Greene County Walnut Grove	06	1752CST			0	0	15K		Hail (2.00)
			Hail damaged cars.						
Greene County 3 E Ash Grove	06	1754CST			0	0	0		Hail (1.75)
Newton County Neosho	06	1755CST			0	0	0		Hail (1.75)
Laclede County 2 N Phillipsburg	06	1756CST			0	0			Hail (0.75)
Stone County Hurley	06	1800CST			0	0			Hail (0.75)
Taney County Brownbranch	06	1805CST			0	0			Hail (1.00)
Wright County Grovespring	06	1815CST			0	0			Hail (0.75)
Christian County Ozark	06	1816CST			0	0			Hail (1.00)
Dent County 15 SW Salem	06	1820CST			0	0			Hail (1.25)
Texas County Bendavis	06	1820CST			0	0			Hail (1.25)
Wright County 7 N Hartville	06	1827CST			0	0	25K		Hail (2.75)
			Baseball size hail was reported at the junction of Highways F and 5. Damage was reported to cars.						
Wright County Dawson	06	1830CST			0	0	10K		Hail (2.75)
			Baseball size hail broke two car windshields.						
Douglas County 1 SE Squires	06	1835CST			0	0			Hail (0.75)
Dent County 9 W Jadwin	06	1840CST			0	0	1K		Hail (2.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
									Hail damaged a car.
Texas County Fairview	06	1840CST			0	0			Hail (1.00)
Barry County 5 S Monett	06	1900CST			0	0			Flash Flood
									Heavy rainfall in excess of one inch falling on saturated ground caused flooding of several farm roads in northern Barry county.
Dent County Gladden	06	1900CST			0	0			Hail (1.50)
Ozark County Brixey	06	1930CST			0	0			Hail (0.75)
Ozark County Noble	06	1935CST			0	0	0		Thunderstorm Wind (G60)
									Thunderstorm winds downed large tree limbs along Highway A.
Ozark County 2 E Elijah	06	1950CST			0	0	10K		Thunderstorm Wind
									Large tree fell on carport and caused damage to roof.
Ozark County Gainesville	06	2000CST			0	0			Thunderstorm Wind (G52)
Howell County Moody	06	2045CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees along Highway 142.
Douglas County 1 NE Ann	06	2330CST			2	0			Flash Flood
									A young man and woman died when their truck was washed off Highway EE at the North Fork of the White River. The flooded section of Highway EE was at the bottom of a hill at the river. The truck ran into the water and apparently stalled and then was washed off. One inch of rain occurred in the area that evening on top of an already saturated ground from the previous days rain. M19VE, F19VE
Jasper County Sarcoxie	09	0721CST			0	0			Hail (1.00)
Stone County Blue Eye	09	0811CST			0	0	10K		Hail (1.75)
									Quarter to golf ball size hail covered the ground.
Stone County Kimberling City	09	0819CST			0	0	5K		Hail (1.75)
Taney County 2 SW Branson to Branson	09	0821CST			0	0	50K		Hail (1.75)
									Golf ball size hail fell from Table Rock State Park northeast to the Highway 76 strip in Branson. Dents were reported in many cars.
Douglas County Twin Bridges	09	0840CST			0	0			Hail (0.75)
Christian County Sparta	09	0853CST			0	0			Hail (0.75)
Ozark County Udall	09	0905CST			0	0			Hail (0.75)
Webster County Fordland	09	0910CST			0	0			Hail (0.75)
Howell County Caulfield	09	0923CST			0	0			Hail (0.75)
Howell County 5 S West Plains	09	0928CST			0	0			Hail (0.75)
Taney County Forsyth	09	1238CST			0	0			Hail (0.88)
Taney County Ridgedale	09	1315CST			0	0			Hail (0.88)
Ozark County 5 W Isabella	09	1325CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Barry County 5 S Monett	09	1400CST 1600CST			0	0			Flash Flood
			Heavy rainfall in excess of an inch caused County Road 2057 to be flooded.						
Barry County Mc Dowell	09	1400CST 2300CST			0	0			Flash Flood
			Highway C at the Flat Creek bridge was covered with 2 to 3 feet of water and debris.						
Barry County 5 S Monett	09	1430CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds blew down large trees along County Road 2057.						
Taney County Branson	09	1500CST 2300CST			0	0			Flash Flood
			Rainfall in excess of three inches caused flooding of numerous low water crossings and low lying areas in the Branson area. Roar k Road was flooded, Shepard of the Hills Expressway was flooded by the charcoal plant, and Fall Creek Road was flooded by Thousand Hills Golf Course.						
Stone County Reeds Spg	09	1600CST 2300CST			0	0			Flash Flood
			Heavy rainfall in excess of two inches caused flooding of Highway 13 along Railey Creek.						
Howell County 5 S West Plains	09	1600CST 2300CST			0	0	10K		Flash Flood
			Heavy rains in excess of one inch falling on saturated ground caused flooding along Highway JJ, south of Highway 160. A section of Highway JJ was damaged by the flooding, closing the highway for over 48 hours.						
Ozark County East Portion	09	1630CST 2300CST			0	0			Flash Flood
			Heavy rainfall in excess of one inch falling on already saturated ground caused flooding of numerous low water crossings in the eastern part of the county. Highway T, 4 miles west of Highway J, was flooded near Mammoth and Smokey Road, 3 miles west of Bakersfield, was flooded.						
Benton County Central Portion	09	1700CST 1900CST			0	0			Flash Flood
			Rainfall of nearly two inches caused flooding of numerous low water crossings in the central section of the county. Flooding was reported along Highway U, near Hastain, and along Highway C, 6 miles west of Lincoln.						
Benton County 5 NE Warsaw	21	1500CST			0	0	0		Thunderstorm Wind
			Several trees were blown down 3 miles east of the junction of Highways 65 and BB.						
Morgan County 10 SW Gravois Mills	21	1520CST			0	0			Hail (1.00)
Camden County Sunrise Beach	21	1540CST			0	0	5K		Hail (1.75)
Camden County 2 W Hurricane Deck to 1 W Hurricane Deck	21	1540CST	0.7	75	0	0	30K		Tornado (F0)
			A weak tornado briefly touched down near Lake Road 5-61 near RY-SEN-SUN Estates and Standing Rock Campground. Several trees were uprooted, with one tree falling on a mobile home. A radio tower in the area was also blown down.						
Miller County Kaiser	21	1555CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Miller County Lake Ozark	21	1559CST			0	0	0		Thunderstorm Wind
			Tree limbs were blown down.						
Camden County Freedom	21	1608CST			0	0			Hail (0.88)
Camden County 7 NE Stoutland	21	1620CST			0	0			Hail (1.25)
Pulaski County Richland	21	1620CST			0	0			Hail (1.25)
Texas County Evening Shade	21	1705CST			0	0	5K		Hail (4.00)
			Large hail fell in mostly forested areas.						
Texas County Roby	21	1705CST			0	0	10K		Hail (4.50)
			Large hail fell mostly in forested areas.						
Texas County Prescott	21	1735CST			0	0			Hail (1.00)
Texas County 6 N Houston	21	1740CST			0	0	0		Hail (1.75)
Texas County Raymondville	21	1750CST			0	0			Hail (1.00)
Texas County Pine Crest	23	0900CST			0	0			Hail (0.75)
Christian County Ozark	23	1312CST			0	0			Hail (0.88)
Christian County 3 NW Highlandville	23	1315CST			0	0	5K		Thunderstorm Wind
			20 square foot section of a roof was blown off.						
Dallas County Long Lane	23	1348CST			0	0			Hail (0.75)
Dallas County Long Lane	23	1350CST			0	0	7K		Thunderstorm Wind (G88)
			A large tree was downed by high winds causing damage to a local business.						
Laclede County 3 W Lebanon	23	1355CST			0	0			Hail (0.75)
Wright County 5 S Grovespring	23	1405CST			0	0	5K		Thunderstorm Wind (G60)
			Thunderstorm winds downed trees and power lines. A barn's roof was also damaged on Highway CC, just north of Highway 38.						
Camden County 3 NE Montreal	23	1420CST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed power lines.						
Laclede County 3 E Eldridge	23	1423CST			0	0			Thunderstorm Wind (G60)
Pulaski County Richland	23	1425CST			0	0			Hail (0.75)
			Winds gusts were also estimated at 50 knots.						
Hickory County Hermitage	23	1435CST			0	0			Hail (1.00)
Miller County Tuscumbia	23	1505CST			0	0			Hail (0.88)
Miller County Marys Home	23	1513CST			0	0			Hail (0.88)
Jasper County 10 N Joplin	24	2250CST			0	0	0		Thunderstorm Wind
			Several trees were downed by high winds in the Oronogo and Carterville areas.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Lawrence County 3 NE Mt Vernon	24	2315CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed a 2 foot diameter tree and several 6 inch size limbs.
Greene County 10 NW Springfield to Strafford	24 25	2335CST 0005CST			0	0	50K		Thunderstorm Wind
									Thunderstorm winds estimated over 60 knots blew down many trees in a path from just northwest of Springfield, through the north side of the city of Springfield, then to the Strafford area. Several utility poles were snapped in north Springfield. An estimate d 5000 people were without power after the stormhit.
Webster County Northview to Marshfield	25	0005CST 0015CST			0	0	200K		Thunderstorm Wind
									The same thunderstorm that hit Greene county moved east and brought estimated 70 knots wind gusts in a path from Northview to Marshfield. Numerous trees were down and windows at two homes were blown out. A storage building was destroyed at the Marshfield High School. Winds also damaged a greenhouse.
Christian County 2 N Ozark	25	0005CST			0	0	3K		Thunderstorm Wind
									Thunderstorm winds estimated at 50 knots blew down several trees and power lines.
Laclede County Phillipsburg	25	0014CST			0	0			Hail (0.88)
Wright County 5 S Grovespring	25	0015CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds estimated at 60 knots blew down numerous large tree limbs.
Newton County Seneca to Neosho	25	0025CST 0035CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew down several trees and power lines in a path from Seneca to Neosho.
Mcdonald County Noel	25	0030CST			0	0			Hail (0.75)
Dent County Gladden	25	0200CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed several large tree limbs.
Laclede County Lebanon	25	0540CST 0800CST			0	0			Flash Flood
									Heavy rainfall of up to two inches overnight caused street flooding in Lebanon. Numerous other low water crossings in the county were also briefly flooded.
Newton County Neosho	25	0800CST 1200CST			0	0			Flash Flood
									Heavy rainfall of up to two inches caused street flooding in Neosho.
Barry County Mc Dowell	25	0900CST 1200CST			0	0			Flash Flood
									Heavy rainfall of up to two inches caused flooding along Highway C, over Flat Creek.
Ozark County 3 NE Tecumseh	26 27	2125CST 0030CST			0	0			Flash Flood
									An isolated thunderstorm produced between one and two inches of rain causing flooding of a low water crossing along Highway PP at the North Fork of the White River.
MONTANA, Central									
MTZ010	Eastern Glacier / Eastern Pondera / Toole / Liberty								
	03	2140MST			0	0			High Wind (G51)
Liberty County Tiber	22	1310MST			0	0			Thunderstorm Wind (G55)
Gallatin County 5 W Bozeman	26	1400MST			0	0			Thunderstorm Wind (G65)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, Central</u>									
Lewis And Clark County									
3 N Helena	26	1900MST			0	0			Thunderstorm Wind (G63)
Liberty County									
Chester	26	1940MST			0	0			Thunderstorm Wind (G51)
<u>MONTANA, East</u>									
Valley County									
10 N Frazer	27	1200MST			0	0			Hail (1.00)
<u>MONTANA, South</u>									
Yellowstone County									
Billings	13	1610MST			0	0			Funnel Cloud
A funnel cloud was reported in the area of Zoo Montana.									
Custer County									
21 SW Miles City	20	1815MST			0	0			Hail (0.88)
Custer County									
10 SW Miles City	20	1826MST			0	0			Hail (0.75)
Custer County									
Miles City Arpt	20	1826MST 1835MST			0	0			Funnel Cloud
Custer County									
Miles City Arpt	20	1829MST			0	0			Hail (0.75)
A thunderstorm produced dime to nickel sized hail as it moved northeast over Western Custer County. A funnel cloud was spotted by the Miles City airport observers as the thunderstorm moved over the airport.									
Big Horn County									
15 E Hardin	21	1430MST			0	0			Hail (1.00)
Treasure County									
Countywide	21	1430MST 1700MST			0	0			Heavy Rain
Treasure County									
25 SSE Hysham	21	1435MST			0	0			Hail (0.75)
Yellowstone County									
Countywide	21	1545MST 1800MST			0	0			Heavy Rain
Musselshell County									
Countywide	21	1700MST 1930MST			0	0			Heavy Rain
Thunderstorms produced one to two inches of rain in one to two hours across portions of South Central and southeastern Montana. One storm produced large hail as it moved north across Northern Big Horn and Southern Treasure counties.									
Musselshell County									
14 SW Roundup	29	1920MST			0	0			Hail (0.75)
Powder River County									
5 NE Broadus	30	1030MST			0	0			Hail (0.75)
Carter County									
25 S Ekalaka	30	1240MST			0	0			Hail (2.75)
A complex of thunderstorms produced large hail and locally heavy rains as it moved east across southeastern Montana during the late morning and early afternoon hours of May 30. A spotter in Central Carter County reported 2.75 inch diameter hail.									
<u>MONTANA, West</u>									
MTZ002									
West Glacier Region									
17		1800MST			0	0			Heavy Snow
18		0600MST							
Four to six inches of snow fell in Glacier Park overnight above 5000 feet.									
Flathead County									
Marion	20	1735MST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew down a few 30 foot trees and knocked out electrical power.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, West</u>									
Lincoln County Troy	20	1900MST 1930MST			0	0			Thunderstorm Wind (G52)
									Wind blew down many trees from Troy to 10 miles farther north, including an 80 foot larch tree. Also, many 12-14 inch diameter dead trees fell.
Lincoln County Yaak	20	1930MST			0	0			Thunderstorm Wind (G52)
									Wind blew many trees down causing power outages in Yaak.
Missoula County Lolo	25	1450MST			0	0			Hail (0.75)
									3/4 inch hail reported 2 miles south of Lolo.
Missoula County Seeley Lake	25	1650MST			0	0			Hail (2.50)
									Tennis ball sized hail was reported just east of Salmon Lake, south of Seeley Lake. But the hail was "soft" so that it splattered upon impact. No damage.
Lincoln County Libby	25	1715MST			0	0			Hail (0.75)
									Hail to 3/4 inch was reported in Libby along with strong wind.
Flathead County Columbia Falls	25	1800MST			0	0			Thunderstorm Wind (G52)
									Winds cause damage to a metal roof, tearing 20 inch sections of it off, and breaking off elm and maple tree limbs. Some fence posts were also snapped off.
Powell County Deer Lodge	25	1905MST			0	0			Thunderstorm Wind (G56)
									Sustained winds of 40 mph with gusts to 65 mph were recorded.
Missoula County Missoula	26	1530MST			0	0			Thunderstorm Wind (G52)
									Power lines reported down from thunderstorm winds.
Missoula County Missoula Arpt	26	1540MST			0	0			Hail (0.75)
									Hail to 3/4 inch was reported northwest of Missoula airport, near the U.S. 93/Interstate 90 interchange.
Flathead County Bigfork	26	1700MST			0	0			Thunderstorm Wind (G52)
									Wind gusts to 60 mph were reported in a thunderstorm at Big Fork and Echo Lake.
Powell County Garrison	26	1700MST 1730MST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds broke off a 4 inch diameter branch of a Cottonwood tree.
MTZ001									Kootenai/Cabinet Region
	26	1700MST			0	0	58K		Flood
	27	0800MST							Fifteen hour rainfall totals ranging from 2.42 to 3.11 inches caused flooding by the morning of the 27th, of the Yaak River north of Troy and on Flower Creek and Parmenter Creek in Libby. Six homes and Plummer School were flooded. A foot bridge was washed out and the stream channel shifted.
Missoula County Evaro	26	2000MST			0	0			Flood
									Rainfall in excess of one inch in 4 hours caused street flooding on many streets in Missoula while O'Keefe Creek, south of Evaro, was out of its banks.
Lincoln County Libby	29	1600MST 1630MST			0	1			Thunderstorm Wind (G52)
									Thunderstorm winds blew a residential gate off its hinges, blew down a large tree, and a six foot flying branch struck a girl.
<u>NEBRASKA, Central</u>									
Chase County 2 S Lamar	08	1430MST			0	0			Hail (1.00)
Chase County 12 W Imperial	08	1446MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Rock County									
Newport	11	1610CST			0	0			Hail (0.75)
Custer County									
12 SSE Mason City	11	1640CST			0	0			Hail (0.75)
Wheeler County									
13 NW Bartlett	11	1724CST			0	0			Hail (1.75)
Garfield County									
13 E Burwell	11	1730CST			0	0			Hail (1.25)
Holt County									
10 SSE Chambers	11	1733CST			0	0			Hail (1.00)
Holt County									
8 S Ewing	11	1825CST			0	0			Hail (0.88)
Keya Paha County									
22 NE Springview	14	1737CST			0	0			Hail (1.00)
Keya Paha County									
4 W Jamison	14	1740CST			0	0			Hail (1.75)
Brown County									
6 WNW Johnstown	14	1805CST			0	0			Hail (0.88)
Brown County									
13 SSW Johnstown	14	1825CST			0	0	1K		Hail (1.75)
Keya Paha County									
Norden	14	1830CST			0	0			Hail (1.00)
Custer County									
12 SSW Mason City	18	2257CST			0	0			Hail (0.75)
Sheridan County									
13 NNE Ellsworth	19	1547MST			0	0			Hail (0.75)
Garden County									
18 N Lisco	19	1645MST			0	0			Hail (0.75)
Cherry County									
58 SSW Merriman	19	1715MST			0	0			Hail (1.00)
Sheridan County									
3 W Lakeside	19	1715MST			0	0			Hail (1.75)
Grant County									
Ashby	19	1730MST			0	0			Hail (0.75)
Garden County									
15 NNW Oshkosh	19	1735MST			0	0	2K		Hail (1.75)
Cherry County									
60 S Merriman	19	1740MST			0	0			Hail (0.75)
Grant County									
Whitman	19	1800MST			0	0			Hail (1.00)
Garden County									
2 W Oshkosh	19	1820MST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds blew down a large tree.						
Hooker County									
11 W Mullen	19	1835MST			0	0			Hail (1.50)
Arthur County									
10 NW Arthur	19	1900MST			0	0	1K		Thunderstorm Wind
			Numerous large tree branches were blown down by thunderstorm winds.						
Hooker County									
Mullen	19	1910MST			0	0			Hail (0.75)
Mcperson County									
Ringgold	19	2040CST			0	0			Hail (1.00)
Lincoln County									
North Platte	19	2056CST 2101CST			0	0	17K		Thunderstorm Wind (G51)
			Thunderstorm winds destroyed a large roof section of a high rise building in North Platte.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Blaine County 5 NNW Dunning	19	2130CST			0	0	1K		Thunderstorm Wind
									Large tree limbs were blown down by thunderstorm winds.
Thomas County 1 W Halsey	19	2130CST			0	0	1K		Thunderstorm Wind
									Large tree limbs and a window were broken by thunderstorm winds.
Garden County 6 SE Oshkosh	19	2155MST			0	0	1K		Hail (1.75)
Chase County 7 S Lamar	19	2158MST			0	0			Hail (1.50)
Custer County 6 W Broken Bow	19	2200CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds at 60 mph damaged farm equipment 6 miles west of Broken Bow.
Custer County 5 SW Oconto	19	2215CST			0	0	5K		Thunderstorm Wind (G52)
									Thunderstorm winds estimated at 60 MPH damaged trees
Wheeler County 7 SSE Bartlett	19	2215CST			0	0	2K		Hail (1.75)
Holt County 10 SSW Ewing	19	2250CST			0	0			Hail (1.00)
Garden County 12 S Oshkosh	20	2000MST			0	0			Hail (0.75)
Garden County 8 W Oshkosh	20	2020MST			0	0			Hail (1.00)
Deuel County 14 NE Chappell	20	2040MST			0	0	2K		Hail (1.75)
Deuel County 10 NE Chappell	20	2100MST			0	0			Hail (0.75)
Cherry County 4 NNW Valentine	20	2135CST			0	0			Hail (0.88)
Perkins County 2 E Venango	21	0340MST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds blew large tree limbs down.
Perkins County 4 NE Madrid	21	0510MST			0	0			Hail (1.00)
Perkins County 11 NNE Elsie	21	0550MST			0	0			Hail (0.88)
Hayes County 16 NW Hayes Center	21	0630CST			0	0			Hail (1.00)
Lincoln County 11 SE Wallace	21	0655CST			0	0			Hail (1.00)
Frontier County Maywood	21	0720CST			0	0	10K	30K	Hail (2.75)
									Large hail damaged crops and vehicles as well as houses and other property.
Frontier County Eustis	21	0740CST			0	0	5K	10K	Hail (1.00)
									Thunderstorms dropped large hail which damaged crops and other property.
Frontier County 2 E Curtis	21	0745CST			0	0			Hail (1.00)
Lincoln County 10 E Wellfleet	21	0745CST			0	0	3K		Hail (1.75)
Frontier County 7 SSW Eustis	21	0832CST			0	0	10K	10K	Hail (1.75)
									Golfball size hail damaged crops and property in the Eustis area.
Arthur County 9 S Arthur	21	1310MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Mcperson County 19 NW Tryon	21	1420CST			0	0	1K		Hail (0.75)
									Thunderstorm winds caused damage to trees.
Hooker County 22 SSE Mullen	21	1430CST			0	0			Thunderstorm Wind (G60)
									Thunderstorm winds broke a large tree limb.
Perkins County Venango	21	1730MST			0	0			Hail (1.25)
Perkins County 11 SW Grant	21	1745MST	0.1	20	0	0			Tornado (F0)
									A tornado touched down briefly in open country and did little if any damage 11 miles southwest of the community of Grant.
Frontier County 12 SSW Stockville	21	1756CST			0	0			Hail (1.00)
Chase County 7 NNE Lamar	21	1800MST			0	0	5K	200K	Hail (1.75)
									Large hail damaged up to 3000 acres of wheat.
Perkins County 10 SSW Grant	21	1800MST			0	0			Hail (1.00)
Frontier County 8 SE Stockville	21	1813CST			0	0	5K	15K	Hail (2.75)
Frontier County 10 WSW Stockville	21	1815CST			0	0	1K	21K	Hail (2.75)
									Baseball size hail destroyed 160 acres of wheat and broke out windows in a house.
Frontier County Moorefield	21	1820CST			0	0	50K		Hail (1.75)
Lincoln County 22 S Brady	21	1830CST			0	0			Hail (1.25)
Frontier County 18 SE Stockville	21	1845CST			0	0	10K	30K	Hail (2.00)
									A thunderstorm dropped up to two inch diameter hail which caused damage to crops and property.
Perkins County 7 SSW Grant	21	1905MST			0	0	4K		Hail (1.75)
Hayes County Hayes Center	21	2005CST			0	0	100K	200K	Hail (4.50)
Lincoln County Wellfleet	21	2037CST			0	0			Hail (0.75)
Frontier County 17 WSW Stockville	21	2045CST			0	0	3K	10K	Hail (1.75)
Frontier County 8 SE Stockville	21	2120CST			0	0	8K	20K	Hail (2.50)
									Hail as large as tennis balls caused significant damage to crops and property east of Stockville.
Chase County 2 WSW Champion	21	2130MST			0	0	5K	200K	Hail (1.75)
									Large hail destroyed up to 2000 acres of wheat.
Frontier County 4 E Stockville	21	2145CST			0	0	7K	10K	Hail (1.75)
Chase County 3 W Enders	21	2155MST			0	0			Hail (0.75)
Sheridan County 6 N Gordon	23	1600MST			0	0			Hail (0.75)
Brown County 25 SSW Ainsworth	23	1702CST			0	0	2K		Hail (1.75)
Brown County 28 S Long Pine	23	1750CST			0	0			Hail (0.88)
Loup County 12 NNW Taylor	23	1825CST			0	0	10K	60K	Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, Central</u>									
Large hail damaged alfalfa, pastures and other crops. Considerable damage was sustained to windows, siding and roofs.									
Loup County 10 NNE Taylor	23	1845CST			0	0	30K	70K	Hail (1.75)
Crops and property sustained significant damage due to large hail.									
Garfield County 4 NW Burwell	23	1910CST			0	0	30K	65K	Hail (1.75)
Severe thunderstorms with large hail damaged alfalfa and other crops as well as houses and property.									
Custer County 9 NNW Anselmo	27	0430CST			0	0			Hail (0.75)
Loup County 4 SE Taylor	27	0530CST			0	0			Hail (0.75)
Custer County 7 NNE Sargent	27	0538CST			0	0			Hail (0.75)
Sheridan County 5 NNE Ellsworth	28	1805MST			0	0	2K		Thunderstorm Wind (G60)
Thunderstorm winds at 60 mph blew out windows and tore off roof shingles.									
Arthur County 5 NNE Arthur	28	1930MST			0	0			Hail (0.75)
Grant County 12 SSW Hyannis	28	1930MST			0	0			Hail (0.75)
Keith County 3 E Ogallala	28	2012MST			0	0			Hail (0.75)
Mcperson County 2 NW Flats	28	2015CST			0	0			Hail (0.75)
Keith County 10 E Ogallala	28	2030MST			0	0			Hail (0.88)
Thomas County 1 N Seneca	28	2055CST			0	0			Hail (0.75)
Lincoln County 1 NE Wallace	28	2220CST			0	0			Hail (1.00)
Cherry County 5 WNW Cody	30	0015MST			0	0			Hail (0.75)
<u>NEBRASKA, East</u>									
Stanton County 12 NW Stanton	04	1620CST			0	0			Hail (0.88)
Platte County .5 S Creston	04	1705CST			0	0			Hail (0.75)
Butler County 5 N David City	04	1815CST			0	0			Hail (0.75)
Knox County 5 W Niobrara	11	1830CST			0	0			Hail (1.00)
Sarpy County Gretna	11	1925CST			0	0			Thunderstorm Wind (G55)
Sarpy County Offutt Afb	11	1939CST			0	0			Thunderstorm Wind (G53)
Jefferson County 3 NE Harbine	11	1942CST			0	0			Hail (1.75)
Stanton County 12.5 SSE Stanton	11	2015CST			0	0	20K		Thunderstorm Wind
Thunderstorms produced strong winds which tipped over a grain bin and did damage to a home and shed.									
Seward County 5 NE Milford	11	2040CST			0	0			Thunderstorm Wind (G58)
Pawnee County 2 E Pawnee City	15	0715CST			0	0			Thunderstorm Wind (G75)
Three outbuildings destroyed.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Pawnee County Table Rock	15	0725CST			0	0	150K		Thunderstorm Wind
			Three buildings destroyed.						
Gage County Barneston	15	0725CST 0730CST			0	0			Thunderstorm Wind (G78)
			Many trees and power poles downed. Windows blown out of a house. A few trees fell on cars causing severe damage.						
Nemaha County 5 ESE Auburn	15	0730CST			0	0	8K		Thunderstorm Wind
			Tree and roof damage.						
Johnson County 1 W Tecumseh	15	0730CST			0	0	3K		Thunderstorm Wind
			Barn damaged.						
Richardson County 6 ENE Falls City	15	0730CST			0	0	2K		Thunderstorm Wind
			Damage to shed roof.						
Nemaha County Nemaha	15	0733CST			0	0			Thunderstorm Wind (G70)
			Playground equipment destroyed at park.						
Gage County Rockford	15	0735CST			0	0	100K		Thunderstorm Wind
			Several silos knocked over.						
Gage County Virginia	15	0735CST			0	0			Thunderstorm Wind (G67)
			Semi truck blown over.						
Johnson County 4 SW Tecumseh	15	0735CST			0	0			Thunderstorm Wind (G54)
			Tree limbs downed.						
Gage County Wymore	15	0740CST			0	0			Thunderstorm Wind (G60)
			Trees blown down.						
Gage County 1 N Filley	15	0740CST			0	0			Thunderstorm Wind (G60)
			Tree blown down.						
Gage County Filley to 3 ENE Filley	15	0740CST 0800CST			0	0			Thunderstorm Wind (G68)
			Semi truck blown over. Silo blown down. Tree damage. Hog building destroyed. Machine shed destroyed.						
Gage County Filley	15	0745CST			0	0			Thunderstorm Wind (G61)
			Large tree limbs downed.						
Gage County (Bie)Beatrice Arpt	15	0749CST			0	0			Thunderstorm Wind (G59)
Nemaha County Peru	15	0750CST			0	0			Thunderstorm Wind (G60)
			Large tree uprooted.						
Nemaha County Auburn	15	0750CST			0	0			Thunderstorm Wind (G63)
			Sheds blown over.						
Gage County Cortland	15	0757CST			0	0			Funnel Cloud
Gage County Adams	15	0757CST			0	0			Thunderstorm Wind (G62)
			Garage destroyed. Machine shed destroyed.						
Nemaha County 4 E Auburn	15	0800CST			0	0			Thunderstorm Wind (G67)
			Building damaged.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Cass County 1 S Elmwood	15	0810CST			0	0			Thunderstorm Wind (G67)
									High tension power lines downed. A tree fell onto a home in Elmwood causing damage.
Sarpy County 2 SW Gretna to 2 ENE Gretna	15	0810CST			0	0			Thunderstorm Wind (G78)
									Several buildings and chimneys of homes damaged.
Sarpy County .5 S Gretna	15	0810CST			0	0			Funnel Cloud
Lancaster County 3 SE Lincoln	15	0810CST			0	0			Flash Flood
									Heavy rain from thunderstorms generated significant street flooding in the southeast part of the city of Lincoln. Water rose to car headlights in low lying areas.
Otoe County Douglas to Syracuse	15	0814CST 0827CST			0	0	85K		Thunderstorm Wind (G64)
									Semi truck overturned. 7000 square foot pole barn destroyed west of Syracuse. Hay sheds flattened. Most damage confined to an area between Douglas/Syracuse/and Unadilla.
Sarpy County Springfield	15	0816CST			0	0			Thunderstorm Wind (G52)
Sarpy County Offutt Afb	15	0820CST			0	0			Thunderstorm Wind (G63)
									Wood privacy fences damaged. Glass doors shattered. Roof of a car wash blown down.
Cass County Greenwood	15	0820CST			0	0			Thunderstorm Wind (G52)
Cass County 4 W Murdock	15	0820CST			0	0			Thunderstorm Wind (G63)
									Pole barn destroyed.
Cass County Murdock	15	0820CST			0	0			Thunderstorm Wind (G63)
									Tree damage.
Douglas County Elkhorn	15	0830CST			0	0			Thunderstorm Wind (G68)
									Significant tree damage and widespread power outages.
Douglas County 6 S Omaha to Omaha	15	0830CST			0	0	40K		Thunderstorm Wind (G75)
									Significant damage to roof at elementary school. Large tree branches downed in Benson area. Large trees downed in Memorial Park. Other trees downed near 52nd and Western Ave. Many power outages, particularly over the central and eastern sections of the city of Omaha east of I-680.
Saunders County Ashland	15	0840CST			0	0			Thunderstorm Wind (G70)
Washington County 3 E Ft Calhoun	15	0840CST			0	0			Thunderstorm Wind (G70)
									Grain bin moved. Tree damaged. Metal roofing torn off shed.
Washington County Blair	15	0845CST			0	0			Thunderstorm Wind (G70)
									School had windows blown out. Outbuildings damaged. Trees downed
Douglas County 1 W Omaha	15	0845CST			0	0			Thunderstorm Wind (G75)
									Window broken out of office furniture store near downtown. Severe damage occurred to merchandise near the window.
Douglas County 8 WNW Omaha	15	0848CST			0	0			Thunderstorm Wind (G70)
									Sheet metal stripped off the roof of the county law enforcement center.
Sarpy County 10 SW Omaha	15	0854CST			0	0			Thunderstorm Wind (G70)
									50 gallon drums blown over.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Douglas County 15 WNW Omaha	15	0856CST			0	0			Thunderstorm Wind (G70)
			Trees downed/uprooted and widespread power outages.						
Sarpy County 12 SW Omaha	15	0857CST			0	0			Thunderstorm Wind (G56)
Douglas County 13 WSW Omaha	15	0857CST			0	0			Thunderstorm Wind (G68)
			Trees downed						
Douglas County 1 NW Valley	15	0859CST			0	0			Thunderstorm Wind (G53)
Douglas County 8 W Omaha	15	0900CST			0	0			Thunderstorm Wind (G52)
Douglas County 10 W Omaha	15	0903CST			0	0			Thunderstorm Wind (G70)
			Roofs blown off homes						
Sarpy County Springfield	15	1016CST			0	0			Thunderstorm Wind (G52)
Platte County .5 E Columbus	15	1219CST			0	0			Funnel Cloud
Platte County Columbus	15	1220CST			0	0			Thunderstorm Wind (G55)
			Damage to trees and power lines						
Platte County Columbus	15	1230CST			0	0			Thunderstorm Wind (G58)
			Large trees downed. One tree fell on a pickup truck.						
Stanton County 2 E Stanton	15	1300CST			0	0			Thunderstorm Wind (G58)
			Center pivot systems toppled and damaged.						
Cuming County Wisner	15	1313CST			0	0			Funnel Cloud
Antelope County 5 W Clearwater	19	2255CST			0	0			Thunderstorm Wind (G52)
Boone County Cedar Rapids	19	2335CST			0	0			Thunderstorm Wind (G60)
			Trees downed.						
Boone County Cedar Rapids	19	2339CST			0	0			Thunderstorm Wind (G52)
Boone County Albion	20	0000CST			0	0			Hail (0.75)
Antelope County 2.5 N Elgin to Elgin	20	0012CST			0	0			Thunderstorm Wind (G60)
			Semi truck blown over.						
Antelope County 1 S Elgin	20	0014CST			0	0			Thunderstorm Wind (G56)
			Framing of new building destroyed.						
Seward County 4 E Utica	20	0059CST			0	0			Thunderstorm Wind (G55)
Seward County 7 E Utica	20	0102CST			0	0			Thunderstorm Wind (G63)
Saline County 7 S Friend	20	0103CST			0	0			Thunderstorm Wind (G56)
Colfax County Howells	20	0110CST			0	0			Thunderstorm Wind (G52)
Saline County Friend	20	0119CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
NEBRASKA, East									
Douglas County 1 NW Elkhorn	20	0140CST			0	0			Thunderstorm Wind (G52)
			Some tree limbs downed.						
Douglas County 1 NW Elkhorn	20	0140CST			0	0			Thunderstorm Wind (G53)
Douglas County Irvington	20	0140CST			0	0	150K		Lightning
			Lightning struck a home causing severe damage.						
Sarpy County 1 NNW Gretna	20	0153CST			0	0			Thunderstorm Wind (G52)
Dodge County Uehling	20	0200CST			0	0			Thunderstorm Wind (G61)
Washington County Blair	20	0202CST			0	0			Thunderstorm Wind (G52)
Cass County 3 N Elmwood	20	0208CST			0	0			Thunderstorm Wind (G60)
			Power poles blown down.						
Washington County 1 W Blair	20	0220CST			0	0			Hail (0.75)
Otoe County 8 S Nebraska City	20	0305CST			0	0			Hail (1.00)
Nemaha County Brownville	20	0315CST			0	0			Hail (0.75)
Madison County 1 S Norfolk	21	1635CST			0	0			Thunderstorm Wind (G61)
			Windows broken						
Madison County Norfolk	21	1650CST			0	0			Thunderstorm Wind (G52)
Stanton County Stanton	21	1658CST			0	0			Thunderstorm Wind (G52)
			Tree limbs downed.						
Stanton County 2 W Stanton	21	1700CST			0	0			Thunderstorm Wind (G61)
Stanton County 10 SW Stanton	21	1700CST			0	0			Thunderstorm Wind (G61)
			Numerous power lines downed.						
Stanton County 2 SE Stanton	21	1705CST			0	0			Hail (0.75)
Stanton County 5 E Stanton	21	1715CST			0	0			Thunderstorm Wind (G61)
			A tree fell and damaged a house and car .						
Stanton County 5 S Stanton	21	1715CST			0	0			Thunderstorm Wind (G70)
			Damage to a house and outbuilding						
Stanton County 3 S Pilger	21	1715CST			0	0			Thunderstorm Wind (G70)
			Car damage and downed power lines.						
Cuming County Wisner	21	1720CST			0	0			Hail (0.75)
Cuming County Wisner	21	1720CST			0	0			Hail (0.75)
Cuming County 5.5 N West Pt	21	1726CST			0	0	24K		Thunderstorm Wind (G62)
			High winds blew a livestock trailer off the road.						
Cuming County 5 W West Pt	21	1726CST			0	0			Thunderstorm Wind (G63)
			High winds picked up a corn crib and blew it onto another building.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Burt County Craig	21	1815CST			0	0			Thunderstorm Wind (G62)
Burt County 4 N Tekamah	21	1820CST			0	0			Thunderstorm Wind (G62)
			Three power poles downed. Six center pivot systems damaged.						
Seward County Staplehurst	21	2230CST			0	0			Hail (1.75)
Seward County Staplehurst	21	2230CST			0	0			Flash Flood
			Basements half full.						
Lancaster County 2 N Malcolm	21	2230CST			0	0			Hail (0.75)
Seward County Seward	21	2230CST			0	0			Hail (1.75)
			Reported in rural areas near the town of Seward.						
Seward County Staplehurst	21	2236CST			0	0			Hail (0.75)
Lancaster County 2 NE Raymond	21	2240CST			0	0			Hail (0.75)
Lancaster County Raymond	21	2240CST			0	0			Hail (0.75)
Saunders County Ashland	21	2255CST			0	0			Hail (0.88)
Sarpy County Springfield	21	2312CST			0	0			Hail (0.75)
Sarpy County Papillion	21 22	2314CST 2314CST			0	0			Hail (0.75)
Lancaster County 2 N Waverly	21	2315CST			0	0			Hail (1.75)
Butler County Brainard to 9 W Seward	21 22	2330CST 0330CST			0	0			Flash Flood
			Thunderstorms produced up to 6 inches of rain in a short time causing some flash flooding.						
Saunders County Ashland	21	2339CST			0	0			Hail (1.75)
Cass County Cedar Creek	21	2350CST			0	0			Hail (0.75)
Sarpy County 1 N Gretna	21 22	2352CST 2352CST			0	0			Hail (1.00)
Saunders County 5 SE Ceresco	21 22	2356CST 0300CST			0	0			Flash Flood
			Thunderstorms produced heavy rains that washed out a part of County Road 6 just south of County Line road.						
Saunders County .5 E Ceresco	21 22	2356CST 0300CST			0	0			Flash Flood
			Heavy rains from thunderstorms caused flooding which damaged some homes on the east side of Ceresco.						
Saline County 2 N Western	22	0022CST			0	0			Hail (1.75)
Saline County 5 W Wilber	22	0033CST			0	0			Hail (1.75)
Dodge County Winslow	24	1720CST			0	0			Hail (1.00)
Washington County 5 N Arlington	24	1735CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Washington County 5 N Arlington	24	1735CST			0	0			Hail (1.00)
Washington County 5 W Blair	24	1745CST			0	0			Funnel Cloud
Washington County 3 S Ft Calhoun	24	1815CST			0	0			Hail (1.25)
Cedar County 5 NE Coleridge to 13.5 ESE Hartington	28	1740CST 1747CST	8	250	0	1			Tornado (F2)
			Three farms damaged. Eight to ten power poles downed 8 -10 miles east southeast of Hartington. Injury occurred about 9 miles east of Hartington southeast of the Highway 84/57 interchange.						
Burt County 11 N Tekamah	28	2122CST			0	0			Hail (1.25)
Colfax County Schuyler	28	2233CST			0	0			Hail (0.75)
Washington County 1 S Blair	28	2300CST			0	0			Hail (0.88)
Washington County 7 S Blair	28	2305CST			0	0			Hail (0.88)
Douglas County 1 WNW Valley	28	2334CST			0	0			Hail (0.75)
Douglas County 1 SW Elkhorn	28	2345CST			0	0			Hail (0.75)
Douglas County Omaha	28	2348CST			0	0			Hail (1.00)
			Quarter size hail at 106th and Brown.						
Douglas County Millard	29	0012CST			0	0			Hail (0.75)
Douglas County Millard	29	0012CST			0	0			Thunderstorm Wind (G55)
			Wind damage reported at Millard High School						
Sarpy County 1 N Gretna	29	0017CST			0	0			Thunderstorm Wind (G52)
Saunders County Ashland to Memphis	29	0047CST			0	0			Hail (0.75)
Jefferson County Daykin	29	0125CST 0130CST			0	0			Thunderstorm Wind (G65)
			Garage blown off its foundation into an alley.						
Jefferson County 7 NW Fairbury	29	0130CST			0	0			Thunderstorm Wind (G50)
			Several tree branches downed...some up to a foot in diameter.						
Saline County Dorchester	29	0140CST			0	0			Thunderstorm Wind (G58)
			Large tree branches downed.						
Jefferson County Fairbury	29	0145CST			0	0			Thunderstorm Wind (G60)
			Many large tree limbs downed. Considerable tree damage. Some windows blown out.						
Saline County Wilber	29	0149CST			0	0			Thunderstorm Wind (G51)
			Trees and large branches downed.						
Gage County (Bie)Beatrice Arpt	29	0229CST			0	0			Thunderstorm Wind (G64)
			Power outages and tree limbs downed in Beatrice.						
Lancaster County Lincoln	29	0236CST			0	0			Thunderstorm Wind (G63)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, East</u>									
Large tree branches downed at 27th St. and Highway 2.									
Knox County Creighton	30	0634CST			0	0			Hail (1.75)
Cedar County 6 N Magnet	30	0725CST			0	0			Hail (1.00)
<u>NEBRASKA, Extreme Northeast</u>									
Dixon County Martinsburg	28	1758CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Dixon County 2 SW Ponca	28	1800CST			0	0			Hail (1.75)
Dixon County Newcastle	28	1810CST			0	0			Hail (1.50)
Dixon County 7 W Newcastle to 7 S Newcastle	28	1810CST 1840CST	8	100	0	0			Tornado (F0)
A tornado travelled southeast for 30 minutes but caused no reported damage.									
Dakota County Dakota City	28	1850CST			0	0			Hail (0.75)
Dakota County South Sioux City	28	1904CST			0	0			Thunderstorm Wind (G52)
Dixon County Dixon	30	0657CST			0	0			Hail (0.75)
Dixon County 3 SE Newcastle	30	0845CST			0	0			Hail (1.00)
<u>NEBRASKA, Extreme Southwest</u>									
Hitchcock County 6 S Stratton	18	1745CST			0	0			Thunderstorm Wind (G65)
Spotter estimated 70 to 80 mph wind gust.									
Red Willow County 7 NE Indianola	21	1749CST			0	0			Hail (1.00)
Red Willow County 11 NE Indianola	21	1833CST	0.2	30	0	0			Tornado (F0)
Brief tornado over open country.									
Red Willow County 7 NE Bartley	21	1834CST			0	0			Hail (0.75)
Dundy County Benkelman	22	1816MST			0	0			Hail (1.50)
Started with dime hail around 1804 MST.									
Dundy County Benkelman	22	1835MST 2100MST			0	0	50K		Flash Flood
Around 5 inches of rain fell between 1800 and 2000 MST. Many homes had basements flooded with water and mud. Several cars were stalled. Roads were damaged. Waters started receding around 2100 MST.									
Hitchcock County 9 S Stratton	22	2005CST			0	0			Hail (0.75)
<u>NEBRASKA, South Central</u>									
Hall County 5 S Grand Is	04	1800CST			0	0	0	0	Hail (1.75)
Hamilton County Aurora	04	1817CST			0	0	0	0	Hail (0.75)
Buffalo County Miller	11	1629CST			0	0	0	0	Hail (0.75)
Buffalo County Ravenna	11	1650CST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Sherman County									
Hazard	11	1703CST			0	0	20K	100K	Hail (1.75)
Valley County									
1.5 SE Ord	11	1710CST			0	0	0	25K	Hail (0.75)
Sherman County									
Rockville	11	1718CST			0	0	0	0	Hail (0.75)
Howard County									
2 NW Boelus	11	1735CST			0	0	0	50K	Hail (0.88)
Howard County									
Farwell	11	1745CST			0	0	20K	75K	Hail (1.50)
Hall County									
2 SW Wood River	11	1805CST			0	0	0	25K	Hail (0.75)
Hall County									
Grand Is	11	1820CST			0	0	45K	50K	Hail (1.25)
Merrick County									
Palmer	11	1830CST			0	0	0	0	Hail (0.75)
Nuckolls County									
5 W Superior	11	1832CST			0	0	20K	100K	Hail (1.75)
Clay County									
Glenville	11	1840CST			0	0	20K	25K	Hail (0.75)
Hall County									
1 NE Grand Is	11	1840CST			0	0	20K	25K	Hail (0.75)
Hamilton County									
Giltner	11	1855CST			0	0	25K	50K	Hail (1.00)
Nance County									
7 W Fullerton	11	1858CST			0	0	10K	25K	Hail (0.75)
York County									
Waco	11	1915CST			0	0	80K	300K	Hail (2.50)
Fillmore County									
Shickley	11	1930CST			0	0	20K	25K	Hail (0.75)
Hamilton County									
Stockham	11	1945CST			0	0	20K	25K	Hail (0.75)
Merrick County									
1 W Central City	11	1955CST			0	0	45K	350K	Hail (2.75)
Polk County									
Osceola	11	1955CST			0	0	20K	25K	Hail (0.75)
Fillmore County									
Exeter	11	1958CST			0	0	20K	25K	Hail (0.75)
Hamilton County									
10 SE Aurora	11	2000CST			0	0	0	250K	Hail (2.00)
Thayer County									
1 W Gilead to 3 NW Gilead	11	2000CST 2005CST	2.5	25	0	0	10K	10K	Tornado (F0)
Merrick County									
Central City	11	2005CST			0	0	20K	0	Hail (0.75)
York County									
Mc Cool Jct	11	2008CST			0	0	10K	50K	Hail (1.00)
York County									
Bradshaw	11	2009CST			0	0	40K	250K	Hail (2.00)
Polk County									
3 NE Shelby	11	2010CST			0	0	0	25K	Hail (0.75)
Thayer County									
1 S Gilead	11	2050CST			0	0	0	100K	Hail (1.75)
Polk County									
Polk	11	2052CST			0	0	20K	25K	Hail (0.75)

Severe Thunderstorms rumbled across much of south-central Nebraska through the evening hours. A brief tornado passed

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEBRASKA, South Central

northwest of Gilead damaging a shed, irrigation pipe and some fence. The majority of reports were large hail. The hail knocked out a windshield at Waco while thunderstorms covered the ground with large hail just south of Gilead. Given the time of year, crop damage was held to a minimum. Property damage was also minor.

Franklin County 3 W Franklin	15	0100CST			0	0	25K	0	Thunderstorm Wind (G55)
Buffalo County 1 N Elm Creek	15	0205CST			0	0	0	10K	Hail (0.75)
Sherman County Loup City	15	0210CST			0	0	5K	0	Hail (0.75)
Overnight thunderstorms produced some high winds and hail in parts of south-central Nebraska. Just west of Franklin, a machine shed was virtually destroyed by the wind.									
Fillmore County 2 N Fairmont to 4 N Fairmont	15	1101CST 1106CST	4	100	0	0	750K	150K	Tornado (F2)
York County 3 S Mc Cool Jct to 2 E Mc Cool Jct	15	1106CST 1116CST	5	50	0	0	250K	400K	Tornado (F1)
York County 3 SE York	15	1110CST			0	1	500K	100K	Thunderstorm Wind (G70)
York County 1.5 S Benedict to 1 S Benedict	15	1130CST 1134CST	0.5	25	0	0	250K	100K	Tornado (F0)
Hamilton County Stockham	15	1200CST			0	0	50K	0	Thunderstorm Wind (G65)
Polk County 3 NE Shelby	15	1200CST			0	0	50K	50K	Thunderstorm Wind (G65)
Midday thunderstorms spawned a tornado south of York damaging a farmstead significantly. The tornado set down two miles north of Fairmont and was on the ground for seven miles before lifting just east of McCool Junction. The tornado nearly destroyed at least one farmstead and caused damage to power poles and lines and center pivot systems. A semi tractor trailer was overturned three miles southeast of York. The driver sustained minor injuries. The same storm also produced a brief tornado south of Benedict destroying two hog confinement facilities but no hogs were injured.									
Howard County Cotesfield	19	2057CST			0	0	20K	100K	Hail (1.75)
Greeley County Greeley	19	2100CST			0	0	20K	75K	Hail (1.00)
Valley County Ord	19	2145CST			0	0	20K	25K	Hail (0.75)
Howard County 4 N St Paul	19	2158CST			0	0	20K	100K	Hail (1.75)
Dawson County Lexington	19	2211CST			0	0	0	0	Thunderstorm Wind (G51)
Sherman County Loup City	19	2237CST			0	0	10K	20K	Thunderstorm Wind (G61)
Greeley County Wolbach	19	2250CST			0	0	20K	75K	Hail (1.00)
Buffalo County Amherst	19	2255CST			0	0	20K	25K	Hail (0.75)
Greeley County 2 SW Scotia	19	2255CST			0	0	10K	75K	Hail (1.00)
Buffalo County Kearney	19	2315CST			0	0	5K	0	Thunderstorm Wind (G51)
Howard County 4 N Boelus	19	2325CST			0	0	10K	25K	Thunderstorm Wind (G69)
Howard County St Paul	19	2335CST			0	0	20K	25K	Hail (0.75)
Hall County Grand Is Arpt	19	2340CST			0	0	5K	10K	Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Adams County Prosser	19	2345CST			0	0	20K	125K	Hail (1.50)
Nance County Fullerton	20	0000CST			0	0	5K	10K	Thunderstorm Wind (G52)
Clay County Trumbull	20	0015CST			0	0	20K	100K	Hail (1.25)
Hamilton County Giltner	20	0020CST			0	0	20K	25K	Hail (0.75)
Polk County 5 NW Stromsburg	20	0030CST			0	0	5K	10K	Thunderstorm Wind (G52)
York County 3 W Gresham	20	0035CST			0	0	10K	25K	Hail (0.75)
Clay County Sutton	20	0040CST			0	0	10K	10K	Thunderstorm Wind (G52)
Hamilton County 5 E Stockham	20	0040CST			0	0	10K	25K	Hail (0.75)
Widespread thunderstorm activity across southern Nebraska dumped heavy rain, hail, and produced strong winds. Wind gusts from 55 to 80 mph were common throughout the area with some tree damage northwest of Stromsburg, near Scotia, and six inch limbs broken in Trumbull. Hail to 1.75 inch diameter resulted in sporadic, but minor, crop damage.									
Gosper County Johnson Res	21	0745CST			0	0	20K	100K	Hail (1.75)
Dawson County Lexington	21	0804CST			0	0	40K	150K	Hail (1.75)
Dawson County Overton	21	0814CST			0	0	20K	125K	Hail (1.75)
Gosper County 8 S Elwood	21	0830CST			0	0	0	75K	Hail (1.00)
Dawson County 4 W Overton	21	0835CST			0	0	30K	300K	Hail (2.75)
Dawson County 3 W Overton	21	0850CST			0	0	20K	200K	Hail (1.75)
Buffalo County Kearney	21	0900CST 1000CST			0	0	500K	100K	Heavy Rain
Phelps County Bertrand	21	0910CST			0	0	20K	100K	Hail (1.00)
Buffalo County Amherst	21	0920CST			0	0	20K	200K	Hail (1.75)
Kearney County 7 N Axtell	21	1030CST			0	0	0	100K	Hail (1.00)
Adams County Kenesaw	21	1100CST			0	0	20K	200K	Hail (1.75)
Kearney County 1 E Heartwell	21	1100CST			0	0	10K	200K	Hail (1.75)
Hall County 5 S Grand Is	21	1135CST			0	0	20K	100K	Hail (1.00)
Adams County 7 N Hastings	21	1137CST			0	0	10K	100K	Hail (1.00)
Hamilton County 2 S Giltner	21	1150CST			0	0	10K	200K	Hail (1.75)
Clay County Harvard	21	1200CST			0	0	10K	200K	Hail (1.75)
Clay County 3 N Sutton	21	1226CST			0	0	10K	50K	Hail (0.75)
Fillmore County 4 N Grafton	21	1256CST			0	0	5K	50K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Thunderstorms rumbling across south-central Nebraska early in the day were responsible for dropping large hail and heavy rain in parts of the area. Hail the size of baseballs was reported. Windshields were shattered in the Lexington area and torrential rainfall forced water over US Highway 30 for a short time west of Kearney. The heavy rains caused the roof over the Kearney/Buffalo County law enforcement building to collapse. Damage to the 911 center was estimated to be near \$400,000. Street flooding was common in the rest of Kearney.									
Gosper County Smithfield	21	1810CST			0	0	15K	125K	Hail (1.00)
Kearney County Axtell	21	1835CST			0	0	5K	75K	Hail (1.00)
Phelps County Holdrege	21	1838CST			0	0	50K	200K	Hail (2.75)
Kearney County 3 W Minden	21	1840CST			0	0	5K	150K	Hail (1.75)
Phelps County Funk	21	1847CST			0	0	5K	150K	Hail (1.75)
Gosper County 14 S Elwood	21	1858CST			0	0	5K	300K	Hail (2.75)
Furnas County 2 N Arapahoe	21	1905CST			0	0	5K	300K	Hail (1.50)
Gosper County Elwood	21	1915CST			0	0	50K	200K	Hail (2.75)
Phelps County Holdrege	21	1930CST			0	0	1M	750K	Hail (2.75)
Kearney County 5 SW Minden	21	1935CST	0.2	25	0	0	0	20K	Tornado (F0)
Kearney County 1 N Axtell	21	2025CST			0	0	5K	200K	Hail (1.50)
Kearney County 5 W Minden	21	2055CST	0.2	25	0	0	0	20K	Tornado (F0)
Kearney County Heartwell	21	2135CST			0	0	50K	300K	Hail (4.50)
Hall County 5 S Wood River	21	2145CST			0	0	0	75K	Hail (0.75)
Buffalo County Kearney	21	2200CST			0	0	5K	75K	Hail (1.00)
Gosper County Elwood	21	2202CST			0	0	0	100K	Hail (1.00)
Adams County 1 W Hastings	21	2208CST			0	0	5K	150K	Hail (1.50)
Buffalo County Gibbon	21	2210CST			0	0	0	50K	Hail (0.75)
Hall County 5 S Doniphan	21	2220CST			0	0	5K	100K	Hail (1.75)
Phelps County Holdrege	21	2230CST			0	0	0	50K	Hail (0.75)
Clay County 3 S Harvard	21	2250CST			0	0	2K	25K	Thunderstorm Wind (G65)
Hall County Alda	21	2257CST			0	0	15K	250K	Hail (2.00)
Phelps County Funk	21	2307CST			0	0	0	50K	Hail (0.75)
Hamilton County 12 NE Aurora	21	2310CST			0	0	10K	3.5M	Hail (1.00)
Fillmore County 10 W Geneva	21	2330CST			0	0	10K	300K	Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEBRASKA, South Central

Fillmore County Strang	21	2345CST			0	0	5K	75K	Thunderstorm Wind (G69)
Fillmore County Fairmont	21	2350CST			0	0	0	15K	Thunderstorm Wind (G52)
Franklin County Hildreth	21	2350CST			0	0	0	5K	Thunderstorm Wind (G52)

Two clusters of strong to severe thunderstorms erupted across south-central Nebraska in the evening and early morning hours. The first dumped hail as large as soft balls on Holdrege and the surrounding area. Dozens of cars and trucks were damaged or totaled by the large hail. A fertilizer operation southwest of town sustained major damage to a storage bin as the hail went through the steel roof. Roofs and siding was damaged along with windows broken and blown in. The first round of thunderstorms also spawned two brief tornado touchdowns to the west of Minden. Both were reported by trained spotters in the area. Large hail north of Arapahoe severely damaged the wheat crop in the area.

The second round of storms rolled through around midnight CDT with torrential rains and wind driven hail. Damage was generally confined to crops and, in particular, across a part of northern Hamilton county. As many as fifty sections of beans, corn, and alfalfa were damaged by the wind and hail. Nine sections sustained major damage. Throughout the area, widespread one to four inch rains posed problems for low lying areas and waterlogged early season crops.

Valley County Ord	23	1930CST			0	0	45K	300K	Hail (1.75)
Valley County 6 NE Ord	23	1945CST			0	0	60K	500K	Hail (2.00)
Greeley County 2 W Greeley	23	2020CST			0	0	80K	1M	Hail (2.75)
Greeley County Wolbach	23	2040CST			0	0	80K	1M	Hail (2.75)
Sherman County 4 N Loup City	23	2040CST			0	0	20K	100K	Hail (0.75)
Howard County 5 SW Cotesfield	23	2050CST			0	0	20K	100K	Hail (0.75)
Howard County Farwell	23	2110CST			0	0	45K	300K	Hail (1.75)
Howard County 2 N St Paul	23	2125CST			0	0	80K	1M	Hail (2.75)
Merrick County Palmer	23	2130CST			0	0	80K	1.3M	Hail (2.75)
Hall County Grand Is	23	2145CST			0	0	25K	100K	Hail (0.75)
Merrick County 2 E Chapman	23	2200CST			0	0	20K	100K	Hail (0.75)
York County 3 N Bradshaw	23	2226CST			0	0	20K	100K	Hail (0.75)
Hamilton County 5 E Stockham	23	2240CST			0	0	10K	100K	Hail (0.75)
Clay County Saronville	23	2310CST			0	0	40K	250K	Hail (1.75)
Fillmore County Shickley	23	2325CST			0	0	40K	250K	Hail (1.75)
Thayer County Bruning	23	2340CST			0	0	20K	100K	Hail (0.75)

Late evening severe thunderstorms rolled across the northeast half of south-central Nebraska dropping hail and heavy rains with their passage. The thunderstorms moved southeast across Howard and Merrick counties near 10 pm and dumped hail the size of softballs near St. Paul and Palmer. Windshields were damaged and windows knocked out of homes near Palmer. Later, thunderstorms in Clay county dumped large hail and overturned a pivot system southeast of Saronville. Significant crop damage was reported in southeast Valley county and across Howard and Merrick counties. Much of the alfalfa crop was leveled as was much of the corn and soybeans in the path of the thunderstorms. Many farmers replanted their crops. In some places, drifts of hail were still in fields and lawns 24 hours after the thunderstorms passed.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Harlan County									
Alma	28	2321CST			0	0	0	100K	Hail (0.75)
Phelps County									
Bertrand	28	2345CST			0	0	8K	25K	Thunderstorm Wind (G52)
Phelps County									
Holdrege	28	2355CST			0	0	0	0	Thunderstorm Wind (G57)
Franklin County									
Franklin	28	2357CST			0	0	0	100K	Hail (0.75)
Kearney County									
Minden	29	0006CST			0	0	0	100K	Hail (0.75)
Kearney County									
Minden	29	0012CST			0	0	0	0	Thunderstorm Wind (G52)
Adams County									
8 SW Holstein	29	0015CST			0	0	10K	200K	Hail (1.25)
Webster County									
Bladen	29	0015CST			0	0	500K	200K	Thunderstorm Wind (G65)
Webster County									
Red Cloud	29	0030CST			0	0	10K	100K	Thunderstorm Wind (G65)
Nuckolls County									
Lawrence	29	0036CST			0	0	30K	200K	Thunderstorm Wind (G69)
Clay County									
Glenville	29	0045CST			0	0	200K	400K	Thunderstorm Wind (G69)
Clay County									
Fairfield	29	0055CST			0	0	200K	500K	Thunderstorm Wind (G65)
Thayer County									
Davenport	29	0125CST			0	0	800K	250K	Thunderstorm Wind (G65)
Thayer County									
Carleton	29	0130CST			0	0	1M	250K	Thunderstorm Wind (G65)
Clay County									
6 SE Clay Center	29	0135CST			0	0	75K	250K	Thunderstorm Wind (G65)
Thayer County									
Bruning	29	0135CST			0	0	400K	250K	Thunderstorm Wind (G65)
Fillmore County									
Ohioa	29	0140CST			0	0	50K	150K	Thunderstorm Wind (G52)
York County									
Henderson	29	0205CST			0	0	10K	250K	Hail (1.50)

Severe thunderstorms roared across south-central Nebraska just after midnight CDT downing power lines, damaging buildings and over turning irrigation center pivots. The storms slipped southeast through Bertrand at 12:45 am CDT knocking power out to a portion of the town. As the thunderstorms moved southeast, they intensified and eventually produced 60 to 80 mph winds in a 20 mile wide swath from 20 miles southwest of Hastings to 30 miles southeast of York.

The damage began near Bladen as 20 pivots were upset in northern Webster county. The most extensive damage was reported from southern Clay and northern Thayer counties. In Glenvil, large trees were uprooted and grain bins blown apart. At Carlton, eight large grain bins were destroyed and a grain dryer overturned. In Davenport, windows were blown out of homes by the wind. Some homes and most out buildings in the high wind corridor sustained minor damage as well. In all it was estimated 75 to 100 center pivots were overturned by the wind. Portions of northern Thayer county were without power for 12 hours.

NEBRASKA, West

Scotts Bluff County
25 SW Scottsbluff to
25 S Scottsbluff

10	1445MST 1500MST			0	0	0	11.7K	Hail (1.00)
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A storm produced quarter size hail 25 miles southwest of Scottsbluff and damaged wheat crops in the area. One farmer sustained a 75 to 100 per cent loss of his wheat crop.

Banner County
12 W Harrisburg

10	1844MST 1855MST			0	0	0	0	Hail (0.75)
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3/4 inch hail accumulated to a depth of several inches.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Kimball County 12 SW Bushnell	19	1532MST 1533MST	0.5	10	0	0	0	0	Tornado (F0)
									A tornado was reported by spotters which was on the ground for less than a minute, then dissipated.
Dawes County Marsland	19	1710MST 1717MST			0	0	6K	0	Hail (1.75)
									A storm produced golf ball size hail in Marsland.
Morrill County Bridgeport	19	1710MST 1716MST			0	0	0	0	Hail (0.75)
Cheyenne County Potter	19	1817MST 1822MST			0	0	5K	0	Hail (1.50)
									A storm produced walnut size hail in Potter.
Cheyenne County 5 N Sidney	19	1843MST 1850MST			0	0	0	0	Hail (0.75)
Cheyenne County 10 SW Dalton	19	1843MST 1847MST			0	0	6K	0	Hail (1.50)
									A storm produced walnut size hail 10 miles southwest of Dalton.
Cheyenne County Dalton	19	2104MST 2109MST			0	0	0	11.7K	Hail (1.75)
									A storm produced golf ball size hail in and to the southwest of Dalton, which destroyed 100 percent of a farmers wheat crop at that location.
Morrill County Bayard	20	1640MST 1646MST			0	0	10K	0	Hail (1.75)
									A storm produced golf ball size hail in Bayard.
Morrill County Redington	20	1745MST 1749MST			0	0	3K	0	Hail (2.75)
									A storm produced golf ball to baseball size hail in the Redington area.
Morrill County 11 SSE Bridgeport to 12 SSE Bridgeport	20	1758MST 1804MST	1	10	0	0	0	0	Tornado (F1)
									Area law enforcement reported a brief tornado 11 miles southeast of Bridgeport.
Morrill County 8 SW Bridgeport	20	1844MST 1847MST			0	0	5K	3K	Hail (2.75)
									A storm produced baseball size hail 8 miles southwest of Bridgeport.
Cheyenne County 6 E Dalton	20	1900MST 1950MST			0	0	0	15K	Hail (1.00)
									A storm produced quarter size hail 6 miles east of Dalton. The hail fell for 50 minutes and caused considerable crop damage.
Cheyenne County 6 NE Gurley	20	1945MST 1948MST			0	0	4K	0	Hail (2.75)
									A storm produced baseball size hail 6 miles northeast of Gurley.
Box Butte County Hemingford	21	0930MST 1100MST			0	0	0	0	Heavy Rain
									Hemmingford received 2 inches of rain in 30 minutes, and a total of 3 inches by 1100.
Scotts Bluff County 1 E Henry to 1.5 E Henry	21	0950MST 0953MST	0.5	10	0	0	0	0	Tornado (F0)
									A brief tornado was reported by law enforcement just to the east of Henry. The tornado remained over open country and quickly dissipated.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Scotts Bluff County 2.5 S Morrill to 2.5 SE Morrill	21	0958MST 1010MST	3	20	0	0	0	0	Tornado (F0)
A tornado moved across open country to the south and southeast of Morrill, before dissipating.									
Scotts Bluff County 3 SW Morrill to 1 ESE Morrill	21	1003MST 1018MST	4	50	0	0	15K	2K	Tornado (F2)
A tornado touched down 3 miles southwest of Morrill and moved within 1 mile east southeast of Morrill. A two-car garage was destroyed and a roof ripped off a shed, 2 miles southwest of Morrill. Windows were blown out in a mobile home park and a barn was destroyed just to the southeast of Morrill. Shingles were blown off a house to the east southeast of Morrill.									
Scotts Bluff County 1 N Mitchell to 1.2 N Mitchell	21	1017MST 1020MST	0.2	10	0	0	4K	0	Tornado (F1)
A brief tornado touched down just to the north of Mitchell and uprooted several trees near the golf course.									
Scotts Bluff County 2.5 S Mitchell to 3 SE Mitchell	21	1030MST 1034MST	3	20	0	0	0	0	Tornado (F0)
A brief weak tornado moved across open country south of Mitchell then dissipated.									
Box Butte County Alliance	21	1300MST 1312MST			0	0	20K	0	Wet Microburst
A thunderstorm produced a microburst in Alliance which uprooted trees at a residence home and the owners vehicle was damaged by falling trees. Damage to power poles also occurred in Alliance.									
Box Butte County Alliance	21	1300MST 1330MST			0	0	5K	0	Lightning
Lightning caused two power outages and transformer failures in Alliance.									
Scotts Bluff County Morrill to Mitchell	26	1825MST			0	0	0	0	Thunderstorm Wind (G50)
Wind damage occurred between Mitchell and Morrill resulting in downed power lines and trees.									
Scotts Bluff County 3 NE Mitchell	26	1910MST			0	0	1K	0	Thunderstorm Wind (G52)
The Mitchell fire chief reported 1 tree uprooted 3 miles northeast of Mitchell due to thunderstorm winds.									
Scotts Bluff County Scottsbluff	29	2000MST 2130MST			0	0	0	85K	Heavy Rain
900 acres of sugar beets were lost due to heavy rains which created a crust on the soil.									
Sioux County Agate	29	2015MST 2025MST			0	0	0	0	Hail (0.75)
Sioux County Agate	29	2100MST 2105MST			0	0	2K	0	Hail (1.00)
A storm produced quarter size hail in Agate.									
Dawes County Chadron	29	2200MST 2206MST			0	0	3K	0	Hail (1.00)
A storm produced quarter size hail at the Chadron State Park.									
NEVADA, North									
Elko County Tuscarora	07	1230PST 1235PST			0	0			Hail (0.75)
Elko County Carlin	07	1408PST 1410PST			0	0			Hail (0.75)
A cluster of severe thunderstorms produced dime size hail and wind gusts to near 60 mph over Northern Lander and Northern Eureka counties.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEVADA, North</u>									
NVZ012		Lander/Eureka							
	09	2200PST			0	0			Heavy Snow
	10	0600PST							
	A strong and cold spring storm dropped locally heavy snow over the Toiyabe Mountains of Central Nevada. In Austin, 9 inches of snow fell overnight.								
Elko County									
Jackpot	12	1140PST			0	0			Hail (0.75)
		1145PST							
Elko County									
Oasis	12	1155PST			0	0			Hail (0.88)
		1200PST							
	Low radar reflectivity thunderstorms dropped dime to nickel size hail over parts of Northeast Elko County.								
NVZ008-008		Southwest And South Central Elko							
	25	1515PST			0	0			High Wind (G55)
		1525PST							
	Very strong winds in the 40-50 mph range with gusts to 63 mph occurred at J.C. Harris Airport in Elko as jet stream winds translated to the surface in dissipating thunderstorms 50 miles west of Elko. No damage was reported.								
NVZ007-012		Northern Elko - Lander/Eureka							
	25	2200PST			0	0			Heavy Snow
	26	0845PST							
	An unusually strong and cold winter-like storm system dropped locally heavy snow over the mountains of East Central and Northeast Nevada above 6000 feet. In Jarbidge, 12 inches was recorded overnight, while in Austin 10 inches fell.								
<u>NEVADA, South</u>									
	NONE REPORTED.								
<u>NEVADA, West</u>									
NVZ002		Greater Lake Tahoe Area							
	09	0729PST			0	0			High Wind (G50)
		0730PST							
	Peak wind gust 50 knots. No damage reported.								
NVZ003		Greater Reno/Carson City/Minden Area							
	13	0000PST			0	0			Heavy Snow
		0600PST							
	6 hour snow fall: Palomino Valley (20 miles NE Reno) NV 4 inches.								
NVZ004		Western Nevada Basin And Range							
	28	1644PST			0	0			High Wind (G52)
		1645PST							
	Peak wind gust 52 knots at Yerington NV. No damage reported.								
NVZ003		Greater Reno/Carson City/Minden Area							
	28	1808PST			0	0			High Wind (G54)
		1809PST							
	Reno NV peak wind gust 54 knots. No damage reported.								
NVZ003		Greater Reno/Carson City/Minden Area							
	28	1824PST			0	0			High Wind (G61)
		1825PST							
	1 mile W of Reno NV peak wind gusts 61 knots. No damage reported.								
NVZ004		Western Nevada Basin And Range							
	28	2114PST			0	0			High Wind (G52)
		2115PST							
	Yerington NV peak wind gust 52 knots. No damage reported.								
<u>NEW HAMPSHIRE, North and Central</u>									
Sullivan County									
Claremont	29	1551EST			0	0			Thunderstorm Wind (G55)
Merrimack County									
Danbury	29	1613EST			0	0			Thunderstorm Wind (G55)
Belknap County									
New Hampton	29	1624EST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW HAMPSHIRE, North and Central

Grafton County									
Plymouth	29	1628EST			0	0			Thunderstorm Wind (G55)
Merrimack County									
Franklin	29	1628EST			0	0			Thunderstorm Wind (G55)
Belknap County									
Sanbornton	29	1629EST			0	0			Thunderstorm Wind (G55)
Belknap County									
Belmont	29	1637EST			0	0			Thunderstorm Wind (G55)
Belknap County									
Laconia	29	1637EST			0	0			Thunderstorm Wind (G55)
Belknap County									
Alton	29	1652EST			0	0			Thunderstorm Wind (G55)
Strafford County									
Farmington	29	1707EST			0	0			Thunderstorm Wind (G55)
Strafford County									
Rochester	29	1722EST			0	0			Thunderstorm Wind (G55)

A line of severe thunderstorms crossed the state during the late afternoon and evening. Strong and gusty winds from these storms knocked down trees which caused power outages in many communities in central and southern New Hampshire. Based on tree damage, winds were estimated to have gusted to over 58 mph.

Coos County									
Whitefield	31	1643EST			0	0			Thunderstorm Wind (G55)
Rockingham County									
Londonderry	31	1724EST			0	0			Thunderstorm Wind (G55)
Rockingham County									
Derry	31	1730EST			0	0			Thunderstorm Wind (G55)
Merrimack County									
Bradford	31	1919EST			0	0			Thunderstorm Wind (G55)

Winds from thunderstorms moving through southern New Hampshire knocked over trees and large limbs in Merrimack and Rockingham Counties causing scattered power outages. An isolated thunderstorm near Whitefield knocked over some trees along Route 3. Based on the downed trees, wind gusts were estimated to be over 58 mph.

NEW HAMPSHIRE, Southern

Cheshire County									
Fitzwilliam	20	1815EST			0	0			Hail (0.75)
Cheshire County									
Rindge	20	1830EST			0	0			Hail (0.75)

A severe thunderstorm during the early evening dropped large hail in a couple of towns in Cheshire County. Dime size hail was reported by an amateur radio operator in Fitzwilliam and by a trained spotter in Rindge.

Cheshire County									
Walpole to Westmoreland	29	1630EST			0	0			Thunderstorm Wind (G50)
Cheshire County									
Jaffrey	29	1650EST			0	0			Thunderstorm Wind (G50)
Hillsborough County									
New Ipswich	29	1700EST			0	0			Thunderstorm Wind (G50)
Hillsborough County									
Brookline to Nashua	29	1720EST 1728EST			0	0	5K		Thunderstorm Wind (G55)

An active cold front collided with a warm, very humid airmass during the late afternoon and early evening, resulting in severe thunderstorms in parts of southern New Hampshire. Trees were reported blown down in Walpole and large limbs were knocked down in Westmoreland in Cheshire County. Trees and limbs were reported blown down in New Ipswich. Amateur radio operators reported that many trees were downed in Nashua, including one report of a tree on a van and a second tree on the roof of a home. One store window was blown out in downtown Nashua. No injuries were reported.

Cheshire County									
Hinsdale	31	1630EST			0	0			Thunderstorm Wind (G50)
Cheshire County									
Walpole	31	1632EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW HAMPSHIRE, Southern

Cheshire County Sullivan	31	1700EST			0	0			Thunderstorm Wind (G60)
Cheshire County Winchester	31	1700EST			0	0	5K		Thunderstorm Wind (G60)
Cheshire County Jaffrey	31	1705EST			0	0			Thunderstorm Wind (G60)

Severe thunderstorms caused wind damage in several communities in Cheshire County. Trees and wires were reported down in Walpole and wires were downed in Hinsdale. Trees were reported to have fallen and crashed into some homes in Winchester. Four to six inch diameter trees were downed in Sullivan. Power outages occurred due to the wind in Keene, Swanzey, and Westmoreland. In Jaffrey, in the far southeast part of the county, trees were downed, closing some roads.

Hillsborough County

Antrim	31	1703EST 1704EST	0.5	85	0	0	30K		Tornado (F2)
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A short-duration minimal F2 tornado moved along a half-mile long track which averaged 85 yards wide in Antrim in northwest Hillsborough County. A National Weather Service survey team investigated the damaging effects of this tornado and spoke with many eyewitnesses. One resident recalled seeing the NWS' Tornado Warning (which specifically mentioned Antrim) scroll on Cable TV a few minutes before the tornado struck. The tornado began at Nahor Hill and travelled north-northeast about a half mile before ending up just past the Great Brook Elementary School. Along the middle of its path, a wooded stretch sustained severe tree damage. Most of the trees were either uprooted or snapped in half...and they fell in different directions. A small boat was flipped over and a camper-trailer was turned around and flipped over. A single family home had some shingles torn off. An apartment complex resident said he saw the metal garbage dumpster rise a short distance while a dark gray-black cloud went by. At the elementary school, a wall was damaged. Only minor damage and no injuries occurred as a result of this tornado, but had the track been only a few hundred yards to the east, it could have caused significant damage to the center of the small town of Antrim.

Hillsborough County

Nashua to Merrimack	31	1720EST 1730EST			0	0	5K		Thunderstorm Wind (G56)
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A severe thunderstorm caused wind damage in Merrimack and Nashua. A private meteorologist reported a peak wind gust to 65 mph at 6:20 PM in Nashua and a National Weather Service employee reported large pine trees down at 6:30 PM, also in Nashua. Trees also were reported down in southwest Nashua per a spotter. In Merrimack, a roof was blown off of a construction trailer, a big oak tree was snapped in half, and a 20-foot by 20-foot piece of roof was ripped off of a porch. These last reports were received via the New Hampshire Office of Emergency Management.

Cheshire County

Walpole	31	1915EST 1918EST			0	0	8K		Hail (1.75)
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Cheshire County

Swanzey	31	1925EST			0	0			Thunderstorm Wind (G50)
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Cheshire County

Surry	31	1930EST			0	0			Hail (1.75)
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Cheshire County

Stoddard	31	1931EST			0	0			Hail (0.75)
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Severe thunderstorms in Cheshire County during the evening caused large hail and damaging winds in several communities. Golfball size hail fell in Walpole, where vehicles were damaged. Golfball size hail also was reported in Surry. Large branches and power lines were reported down in Swanzey. Up to 16,000 electric customers lost power in southern New Hampshire during the late afternoon and evening storms of May 31st.

NEW JERSEY, Northeast

Bergen County

Countywide	09 10	0000EST 2130EST			0	0			Heavy Rain
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Essex County

Countywide	09 10	0000EST 2130EST			0	0			Heavy Rain
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Hudson County

Countywide	09 10	0000EST 2130EST			0	0			Heavy Rain
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Passaic County

Countywide	09 10	0000EST 2130EST			0	2			Heavy Rain
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, Northeast

Union County Countywide

	09	0000EST			0	0			Heavy Rain
	10	2130EST							

A slow moving storm moved south and east of the Mid-Atlantic Coast from Friday, May 8th through Monday, May 11th.

Measurable rain developed across the region during Friday, May 8th. Rain was occasionally heavy during both Saturday, May 9th and Sunday, May 10th and ended on Monday, May 11th.

Heavy rain caused urban flooding of streets, poor drainage and low-lying areas as well as flooding of small streams. Rainfall amounts generally ranged from 3.00 to 6.00 inches. Here are selected rainfall amounts for:

- o Bergen County - from 3.09 inches at Lodi to 4.85 inches at Oakland.
- o Essex County - from 3.90 inches at Newark to 5.60 inches at Verona.
- o Passaic County - from 3.47 inches at Wanaque to 5.64 inches at Ringwood.
- o Hudson County - 3.80 inches was measured at Harrison.

Heavy rain also contributed to a roof that collapsed at the Plains Pharmacy in Packanack Shopping Center in Wayne around 11:30 am on May 10th. Two people required hospitalization and three others escaped with only minor injuries.

NJZ002-004>005

Western Passaic - Eastern Passaic - Essex

	11	1200EST			0	0			Flood
	12	1600EST							

A slow moving storm moved south and east of the Mid-Atlantic Coast from Friday, May 8th through Monday, May 11th. It produced rainfall amounts from 3 to 6 inches across the area. Bands of heavy rain fell primarily during Saturday and Sunday (May 9th and 10th).

With wet antecedent conditions in place during the previous 11 days, moderate flooding on mainstem rivers in the central portions of the Passaic Basin occurred on the Passaic, Wanaque, Pequannock, and Pompton Rivers. Minor flooding of smaller rivers and streams occurred in the headwaters of the Passaic Basin.

For Passaic County:

- o In Wayne - up to 3 feet of water flooded Fayette Ave. on the banks of Passaic River. Wayne township declared a state of emergency in four neighborhoods on May 11th as the Pompton River overflowed its' banks. Water rose as high as backyard fences and people needed hip boots to walk in the Hoffman Grove Section of Wayne.
- o In Pompton Lakes - four streets in the southern end of the borough were particularly hard hit: Cedar, Walnut, Laurel, and Willow Avenues from the rain-swollen Pequannock River. About 15 homes received flood damage and some residents were forced to evacuate their homes. Water flooded basements, garages, and first floors of houses.

In Northwest Essex County, the town of Fairfield received moderate flooding as the Passaic River overflowed its' banks. In Fairfield, Lane Road and Camp Lane were under 3 feet of water as row boats were the main form of transportation through Tuesday afternoon.

Hudson County Hoboken

	20	1730EST			0	0			Hail (1.75)
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Severe thunderstorms formed in a warm, moist, and unstable airmass ahead of an approaching cold front. In addition to producing 1.75- inch diameter size hail at Hoboken, thunderstorms also produced hail less than 0.75-inch in diameter at Lyndhurst in Bergen

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, Northeast

County.

Essex County Maplewood	25	0815EST			0	0			Lightning
Essex County Maplewood	25	0820EST			0	0	20K		Lightning

Thunderstorms produced lightning that:

- o Struck a house and caused a fire at 20 Burroughs Way around 8:15 am EST. Roof shingles and electric lines were damaged.
- o Struck a house and caused a fire at 432 Elmwood Ave. This three-story, single-family house incurred about \$20K in damage to the roof.

Both locations were in Maplewood.

Union County Fanwood to Hillside	29	1830EST			0	0			Thunderstorm Wind (G50)
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With a warm, moist, and unstable airmass in place, lines of thunderstorms (some severe) moved southeast across the region ahead of an approaching cold front.

Severe thunderstorms produced high winds that downed trees onto power lines at (and in between) the locations listed above. High winds downed trees (and power lines) in Fanwood, Summit, Westfield, and Hillside.

Passaic County Clifton	31	2205EST			0	0			Thunderstorm Wind (G50)
Bergen County Woodridge	31	2215EST			0	0			Thunderstorm Wind (G50)
Bergen County Lyndhurst	31	2219EST			0	0			Thunderstorm Wind (G50)
Bergen County Saddle Brook	31	2235EST			0	0			Thunderstorm Wind (G61)
Essex County Newark	31	2238EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms (in lines and clusters) formed and moved over parts of Northeast New Jersey. They formed in a moist and unstable airmass ahead of an approaching cold front.

Severe thunderstorms produced high winds, heavy rain, and frequent lightning. High winds downed many trees onto power lines, houses, and cars. Trees were blown into houses in both Woodridge and in Clifton. Frequent lightning strikes also downed trees onto power lines and houses.

NEW JERSEY, South and Northwest

Ocean County Whiting	03	0415EST			1	5		0	Lightning
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Lightning apparently struck a tree, traveled along the saturated ground, entered a tent and killed a 22-year-old National Guardsman during a routine artillery training weekend at McGuire Air Force Base. The lightning also injured five others, two critically and one seriously. A medic was also injured while trying to help the injured. They were all members of the Third Battalion Battery B, 112th Field Artillery and among 7,300 Army Reserve and National Guard Troops involved in weekend training. The soldiers were in their sleeping bags within the tents when the lightning apparently struck the pine tree. M22CA

Burlington County Tabernacle	06	1315EST			0	0		0	Hail (1.75)
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A severe thunderstorm produced golf ball size hail and damaged about 20 vehicles in a parking lot of a boot camp at Wharton Track within Tabernacle.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, South and Northwest

Ocean County Brick Town

06 1405EST 0 2 0 Lightning

Frequent lightning injured two persons, struck four buildings and knocked out power to 1,300 customers the afternoon of the 6th within Brick Township. A 35-year-old man and a 28-year-old woman were struck by lightning in the parking lot of a Costco store. The man was knocked unconscious. Lightning also struck four homes and businesses within the township. The worst reported damage was to the roof of a home on Barker Road. The lightning knocked out power for several hours to about 1,300 customers.

Morris County 1 W Port Morris

06 1450EST 0 0 0 Hail (1.75)

A severe thunderstorm dropped golf ball size hail in Netcong. In neighboring Roxbury Township, the Morris County Public Works sent plows to clear the streets of hail that accumulated up to 5 inches. The thunderstorms also produced frequent lightning and caused scattered power outages throughout the county and included outages within Denville, Jefferson, Mendham, Parsippany, Randolph and Roxbury Townships. Power outages were also reported in neighboring Somerset County.

Sussex County Hopatcong

06 1450EST 0 0 0 Hail (1.75)

A severe thunderstorm dropped golf ball size hail near Lake Hopatcong in Sussex County. Hail accumulated up to 3 inches within Hopatcong Heights. The thunderstorm also produced frequent lightning and caused widely scattered power outages throughout the county. The most outages were reported around the Vernon area.

Hunterdon County Whitehouse Station

06 1515EST 0 0 0 Hail (0.88)

A severe thunderstorm dropped nickle size hail in Whitehouse Station. The thunderstorm also produced frequent lightning and caused power outages throughout Hunterdon County. About 2,100 homes and businesses lost power in the county. There were also some widely scattered outages in neighboring Warren County. The most outages were reported around the Hackettstown area.

NJZ001-007>010-012>026

Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean

08 0400EST 0 0 Prolonged Rain

12 1600EST

NJZ008-010-019

Morris - Somerset - Burlington

09 1700EST 0 0 Flood

16 1800EST

Mercer County Princeton

10 1900EST 0 0 Urban/Sml Stream Fld
2300EST

Sussex County Vernon

11 0400EST 0 0 Urban/Sml Stream Fld
1100EST

A series of low pressure systems that passed through the Middle Atlantic States and then stalled offshore gave the state of New Jersey nearly five days of continuous rain from when it started Friday morning the 8th until it exited the state from north to south on Tuesday the 12th. Storm totals ranged from 2.4 to 5.8 inches. The highest storm totals were in Atlantic, Burlington, Monmouth and Ocean Counties. The lowest occurred in the valleys of Sussex County. Overall there were few periods of heavy downpours and there were sufficient lulls of light rain or drizzle to keep most small streams within bankfull. This though was not the case with some of the larger rivers in the Passaic and Raritan Basins which reached flood stage. By far the worst flooding occurred in the Rancocas Creek Basin in Burlington County. The North Branch of the Rancocas Creek at Pemberton crested at 3.6 feet at 8 a.m. EDT on the 11th, the sixth highest crest ever.

In Burlington County, flooding in the Rancocas Basin started toward evening on Saturday the 9th and peaked on the 11th. The county recommended a voluntary evacuation on the 11th. About 100 persons evacuated their homes in Eastampton, Mount Holly, Pemberton and Southampton Townships. A shelter was opened at the Vincentown Firehouse on the 11th and 12th, but most stayed with friends or families. Three hundred volunteers worked through the day and put 2,000 sandbags around vulnerable properties. The Ewansville Section of Southampton Township was hit the hardest with 60 to 70 homes damaged by the flooding on five different streets. Both the North and South Branches of the Rancocas Creek flooded within the township. In addition Mill Pond overflowed and forced the closure of two addition streets. In Eastampton Township, the worst flooding occurred along Mill Creek (Mill Creek also flooded) and Rabbit Run Roads. One house was damaged, but others were flooded. Propane tanks were breaking free and floating down the creek. In Pemberton Township, the Rancocas flooded Creek and Shady Lanes. Farther downstream residents in low-lying areas of Kate's Tract within Mount Holly were urged to evacuate. The Burlington County Health Department issued a well water advisory and urged residents to boil their well water before using it. The North Branch of the Rancocas Creek at Pemberton was above its 2.7 foot flood stage from 6 p.m. EDT on the 9th through 2 a.m. EDT on the 15th. It crested at 3.6 feet at 8 a.m. EDT on the 11th.

The second hardest hit area was the Passaic Basin in Morris County. Minor to moderate flooding occurred along the Passaic River

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

NEW JERSEY, South and Northwest

and some of its major tributaries. Along the Rockaway River, the police closed several roads in Dover and Rockaway Townships. Low lying areas also flooded in Boonton, Denville, Dover and Lake Hiawatha. Flooding along the Pompton River forced the closure of 15 side streets in Lincoln Park and five streets in Pequannock. In Pequannock, people in flooded areas were walking along the railroad tracks and the police recommended moving cars to higher ground. The flood waters came within 20 feet of an A & P Supermarket. The Rockaway River below the Boonton reservoir reached its 5 foot flood stage at 2 p.m. EDT on the 10th, crested at 6.04 feet at 11 p.m. EDT on the 11th and was back within bankfull at 2 a.m. EDT on the 14th. The Pompton River at Pompton Plains crested at 16.33 feet at 230 a.m. EDT on the 12th. It was above its 16 foot flood stage from Noon EDT on the 11th through 9 a.m. EDT on the 12th. The Pequannock River at the Macopin Dam reached its 5.5 flood stage at 2 p.m. EDT on the 10th, crested at 5.96 feet at 4 a.m. EDT on the 11th and was back within bankfull 10 a.m. EDT on the 13th. Along the main stem of the Passaic River, at Chatham the river crested at 6.18 feet at 11 p.m. EDT on the 12th and was above its 6 foot flood stage from 9 p.m. EDT on the 11th through 9 a.m. EDT on the 13th. In Pine Brook, the Passaic River was above its 19 foot flood stage from 7 a.m. EDT on the 11th through 7 p.m. EDT on the 16th. It crested at 20.07 feet at 330 a.m. EDT on the 13th.

Some minor flooding occurred in the Raritan River Basin in Somerset County. One roadway was closed near the North Branch of the Raritan River in Bridgewater and two causeways were closed in Franklin Township. Interstate 287 was flooded in spots on the 9th. The Raritan River at Bound Brook crested barely above its 26 foot flood stage (26.01 feet) at 930 a.m. EDT on the 12th. The Millstone River at Blackwells Mills crested at 9.7 feet at 3 a.m. EDT on the 11th. It was above its 9 foot flood stage from 9 a.m. EDT on the 10th through 3 p.m. EDT on the 12th.

Elsewhere across the state, most of the flooding problems were confined to flooded basements, backyards and some poor drainage flooding. New Jersey State Route 33 was closed in Neptune (Monmouth County) on the 9th due to the rain. The above normal precipitation throughout the first part of 1998 raised the water table to relatively high levels and the prolonged rain caused additional problems, particularly in Atlantic, Monmouth and Ocean Counties. A couple of small streams flooded. On the evening of May 10th, Quaker Road was closed within Princeton Township (Mercer County) after the Stony Creek flooded. On the morning of May 11th, County Route 644 was closed in Vernon (Sussex County) after the Pochuck Creek flooded over the roadway. Township school buses had to find alternate routes. The prolonged rain also caused some inland lakes to flood. In Middlesex County, Duheral Lake in Old Bridge Township overflowed and flooded yards at the end of West Avenue on the 11th. In Ocean County, poor drainage flooding was reported in Beachwood and Dover Townships on the 12th. In Lacey Township, ponds overflowed and added to the poor drainage flooding. The prolonged rain also loosened the ground and knocked over a few weak trees across the state, especially near coastal areas on the 12th as wind gusts reached above 40 mph. Power outages due to downed trees occurred in Morris County. Downed trees were also reported in Atlantic (within Atlantic City), Ocean (in Lacey Township) and Somerset (damaged a vehicle in Bernardsville) Counties. A peak wind gust of 47 mph was reported at the Marina in Atlantic City at 2 p.m. EDT on the 12th.

The heaviest rain for any given day during this event fell across most of the southern part of the state on Friday the 8th. The axis of heavy rain slowly shifted northward over the weekend. The heaviest rain on Saturday the 9th fell between Interstates 78 and 195 and on Sunday the 10th over Northwest New Jersey. The heaviest rain on Monday the 11th occurred in Somerset and Warren Counties while the heaviest rain for this event for Cape May County occurred on Tuesday the 12th. Tuesday May 12th also marked the 12th consecutive day that any precipitation (trace or greater) fell at the Philadelphia International Airport. This tied the monthly record for the month of May previously set in 1894.

Storm totals included 5.77 inches in Matawan (Monmouth County), 5.56 inches at the Atlantic City International Airport, 5.37 inches in New Lisbon (Burlington County), 5.35 inches in Freehold (Monmouth County), 5.28 inches in Harvey Cedars (Ocean County), 5.00 inches in Iselin (Middlesex County), 4.96 inches at the McGuire Air Force Base (Burlington County), 4.80 inches in Windsor (Mercer County) and Absecon (Atlantic County), 4.77 inches in Hamilton Square (Mercer County), 4.76 inches in Wertsville (Hunterdon County), 4.64 inches in Mount Laurel (Burlington County), 4.43 inches in Riegelsville (Hunterdon County), 4.35 inches in Sparta (Sussex County), 4.18 inches in New Brunswick (Middlesex County), 4.17 inches at High Point (Sussex County), 4.03 inches at Boonton (Morris County), the National Weather Service Office in Westampton (Burlington County) and Cherry Hill (Camden County), 4.01 inches in Cape May Courthouse, 4.00 inches in Verga (Gloucester County), 3.96 inches in Somerdale (Camden County) and Belle Mead (Somerset County), 3.82 inches in Stewartville (Warren County), 3.70 inches in Oak Ridge (Morris County), 3.60 inches in Bound Brook (Somerset County), 3.50 inches in Millville (Cumberland County), 3.49 inches in Bethel Mill Park (Gloucester County), 3.42 inches in Belvidere (Warren County), 2.95 inches in Seabrook (Cumberland County) and 2.76 inches in Dennis Township (Cape May County).

A low pressure system heading toward the Middle Atlantic States was in the lower Ohio Valley the morning of the 7th. By the morning of the 8th, it moved into northern Indiana as a secondary was forming in Virginia. On the morning of the 9th, this secondary low was located about 275 miles southeast of Atlantic City. But, it became trapped by a low at upper levels of our atmosphere and drifted slowly south through the morning of the 10th. Meanwhile, a large high pressure system started building into Northern New England. Yet another low pressure system developed over the Southern Plains on the 9th and was in the Tennessee Valley the morning of the 10th. On the morning of the 11th, two low pressure systems, one trapped under the closed low in the western Atlantic and the other just east of Charleston, South Carolina continued the wet onshore flow. These two lows merged into

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, South and Northwest

one by the morning of the 12th about 275 miles east of Cape Hatteras, North Carolina and remained nearly stationary through the 14th. The high pressure system over Northern New England slowly built south and brought drier air into the region and gave the area its first rain-free days of the month on the 13th and 14th.

NJZ012>014-024>026 Middlesex - Western Monmouth - Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean

11	1800EST	0	0	0	Coastal Flooding
12	2100EST				

A persistent northeast flow caused by a high pressure system building south from Canada and a couple of low pressure systems that moved off the Middle and South Atlantic States produced minor coastal flooding from the 10th through the 13th. Tidal flooding became locally moderate during the evening high tides on the 11th and 12th, especially in the back bays. The water in the back bays had a hard time draining because of the persistent onshore winds. Tidal departures averaged about 1.5 to 2.0 feet above normal at times of high tide along the ocean front. Tides were already astronomically high because of the full moon. The highest tides occurred during the evening of the 11th. At Cape May City, the tide was 7.4 feet above mean lower low water that evening. In addition to the tidal flooding, the pounding surf created more erosion problems along the shore.

The worst tidal flooding and erosion problems were reported in Ocean County. Isolated flooding was reported at Point Pleasant Beach. The erosion was described as substantial at Seaside Park. In Barnegat, the wind driven waves were crashing onto East Bay Avenue and Bayshore Drive. On Long Beach Island, Long Beach Boulevard was flooded several times. Bayside road flooding occurred in Beach Haven and Harvey Cedars. In Brant Beach, the dunes were chopped along 53rd Street. In Ship Bottom and Surf City cliffs were formed. In Ship Bottom dune fencing dangled down a 20 foot drop that extended for several blocks. Shifting sands exposed an old barge. In Tuckerton Beach, minor flooding occurred the evening of the 11th. In Stafford Township on Mallard Island minor flooding occurred as waves crashed onto the decks and docks on East Bay Avenue. Minor back bay flooding extended westward along Toms River into Avon Beach. Tidal flooding also occurred around Raritan Bay. On the evening of the 11th, the police had to block off several roads in Woodbridge in Middlesex County.

A low pressure system developed over Virginia on the 8th. It moved offshore by the morning of the 9th and was about 275 miles southeast of Atlantic City. Unfortunately, it was caught by a closed low at higher levels of the atmosphere and drifted slowly south through the 10th. Meanwhile a high pressure system was slowly building south into the United States from Canada. Another low pressure system moved into the Tennessee Valley the morning of the 10th and moved off the South Carolina Coast the morning of the 11th. These two lows combined into one east of Cape Hatteras, North Carolina by the morning of the 12th and remained nearly stationary through the 14th. The high pressure system eventually built far enough south to end the onshore flow across the area.

NJZ017>019 Gloucester - Camden - Burlington

12	0000EST	0	0	0	Tidal Flooding
13	0500EST				

The combination of the continuous rain, onshore flow up the Delaware Bay and high astronomical tides because of the recent full moon produced widespread minor to locally moderate tidal flooding at the times of high tide along the Delaware River and tidal sections of its tributaries on the 12th and 13th, particularly during the higher early morning high tides. Both the Admiral Wilson and Baird Boulevards flooded along the Cooper River in Camden. In Gloucester County in Westville, the Timber Creek flooded onto Timber Road and Edgewater Avenue. The tidal push also prolonged and exacerbated the flooding that occurred along the Rancocas Creek in Burlington County. The highest tide in Philadelphia occurred at 330 a.m. EDT on the 13th: 9.4 feet above mean lower low water, a departure of 2.5 feet above normal. Moderate tidal flooding starts at 9.3 feet above mean lower low water. The second highest tide was 9.1 feet above mean lower low water at 3 a.m. EDT on the 12th. Some minor tidal flooding also occurred on the 11th and 14th.

Cumberland County

Vineland

25	2040EST	0	0	0	Thunderstorm Wind
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A severe thunderstorm caused wind damage within Vineland during the evening of the 25th. Damage was centered around the Franklin heights area on Patterson, Buttonwood and Magnolia Drives. About a dozen large trees were snapped and two houses were damaged. One house suffered major roof damage. No injuries were reported.

Sussex County

Fredon to Sparta

29	1725EST	0	0	0	Thunderstorm Wind
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A line of severe thunderstorms produced wind damage across the southern part of Sussex County. Hardest hit was Newton with numerous downed trees. Wind damage was also reported in Fredon, Hampton and Sparta Townships. New Jersey State Route 94 was closed in Fredon. About 3,000 homes lost power due to downed wires. All power was restored by noon on the 30th.

Warren County

Lower Harmony

29	1803EST	0	0	0	Thunderstorm Wind
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A severe thunderstorm uprooted numerous trees in the southern part of Warren County, mainly within Harmony Township. About 1,300 homes and businesses lost power due to the severe thunderstorm.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW JERSEY, South and Northwest									
Hunterdon County									
Lebanon	29	1805EST			0	0	0	0	Thunderstorm Wind
	Severe thunderstorms uprooted several trees in northern Hunterdon County mainly within Lebanon Township.								
Monmouth County									
.2 E Sea Bright	29	1915EST			0	0	0	0	Waterspout
	A waterspout was sighted about 1,000 feet east of the beach in Sea Bright. No boats were reported damaged.								
Gloucester County									
Williamstown	29	2050EST			0	0	0	0	Thunderstorm Wind
	A severe thunderstorm toppled a few trees and downed some power lines in the southeastern part of Gloucester County in Monroe and Franklin Townships.								
NJZ007									
Warren	31	1615EST 1625EST			0	0	0	0	High Wind
	Very strong southwest winds funneling up the Delaware River Valley uprooted several trees and took down power lines in Knowlton Township during the late afternoon of the 31st. Power outages were reported.								
Sussex County									
Montague	31	1848EST			0	0	0	0	Thunderstorm Wind
	A severe thunderstorm knocked down trees in Montague Township. This was the first of three severe thunderstorms to affect Sussex County the evening of the 31st.								
Sussex County									
Bevans to Quarryville	31	1947EST 1955EST			0	0	0	0	Thunderstorm Wind
Sussex County									
Layton	31	1947EST			0	1	0	0	Lightning
	The second severe thunderstorm of the evening knocked down numerous trees and wires in the northwest part of Sussex County in Frankford, Montague, Sandyston and Wantage Townships. Frankford and Montague Townships were hit the hardest. The tree damage was so extensive in parts of Stoke Forest that the campgrounds were expected to be closed for up to two weeks for cleanup. Campers were evacuated before the thunderstorm hit. A Sandyston Township man was injured when he received an electrical shock while using the telephone during the thunderstorm.								
Sussex County									
Stillwater to Sparta	31	2132EST 2147EST			0	0	650K	0	Thunderstorm Wind
	The third and most destructive of a series of severe thunderstorms that moved through Sussex County the evening of the 31st caused considerable wind damage, especially in the southern half of the county. Extensive damage occurred within Newton and especially Sparta. About 40 percent of the monetary damage from all the severe thunderstorms that evening occurred within Sparta. Other municipalities reporting wind damage from the latest severe thunderstorm included Andover, Byram and Fredon.								
	In Sparta, widespread wind damage occurred in the township's Lake Mohawk's Alpine Section. A six block area between Andover-Sparta Road and Alpine Trail was hit the hardest. Wind damage also occurred on Summit Road and Valley View Trail. About six hundred trees were uprooted, some 100 feet tall. Several poles were split and homes and vehicles were damaged. In Newton, one quarter of the town lost power. Several homes were damaged and vehicles were crushed by fallen trees. In Byram Township a few homes and vehicles were also damaged by fallen trees. Numerous trees were uprooted in Fredon Township.								
	About 10,000 GPU customers lost power in Morris, Warren and Sussex Counties that evening. Power was not completely restored until June 2nd. The three severe thunderstorms damaged 111 homes in the county, blocked roads and downed numerous power lines. Two school districts were forced to remain closed on Monday June 1st because of power outages. Preliminary damage estimates for the county was \$650,000.								
Morris County									
Woodstock to Morris Plains	31	2152EST 2210EST			0	0	0	0	Thunderstorm Wind (G57)
	A severe thunderstorm produced wind damage across the northeast half of Morris County from Jefferson Township to Morris Plains. Numerous trees, power lines and limbs were knocked down. Hardest hit was Dover Town. In Denville three trees fell on houses. Trees crushed cars in both Jefferson Township and Parsippany. Several roads remained closed into June 1st in Jefferson Township and caused school opening delays. A tree also crushed a fence in Roxbury Township.								
Hunterdon County									
Whitehouse Station	31	2200EST			0	0	0	0	Thunderstorm Wind (G57)
Warren County									
Countywide	31	2207EST 2227EST			0	0	0	0	Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

NEW MEXICO, South Central and Southwest

NONE REPORTED.

NEW MEXICO, Southeast

NMZ027>029 **Guadalupe Mountains Of Eddy County - Eddy County Plains - Lea**
01 **0000MST** **0** **0** **Drought**
31 **2359MST**
 Drought conditions continued in Southwest Texas and Southeast New Mexico. The Midland/Odessa NWS office recorded only 0.02" of precipitation for the entire month, breaking the record minimum amount of 0.06". Marathon, TX and Carlsbad, NM received no precipitation for the month. Agricultural losses will be great but will not be included until the end of the drought or the end of the harvest when totals are calculated.

NMZ028>029 **Eddy County Plains - Lea**
14 **1630MST** **0** **0** **10.3K** **High Wind (G59)**
2200MST
 Gradient winds west of the dry line resulted in south to southwest winds sustained at 45 knots with gusts to 58 knots at the Lea County Airport in Hobbs (KHOB). A few trees were uprooted in town.

Gradient downsloping west winds in the wake of a Pacific Cold Front caused damage in Carlsbad. About 7 utility poles were knocked down as well as a roof taken off a mobile home. The peak gust at the Cavern City Airport (KCNM) was 59 knots.

Lea County
Eunice **19** **2125MST** **0** **0** **Thunderstorm Wind (G61)**
2145MST
 A multicell severe thunderstorm moved into Eunice with torrential rains and winds at 50 with gusts to 70 mph. The complex of storms originated earlier in the afternoon in northeastern Chihuahua in the Sierra del Huesco, northwest of Presidio where temperatures were near 103 degrees with dew points in the mid to upper 30s. The storms moved quickly to the northeast, across the Davis Mountains and into southeast New Mexico. When the complex moved into Lea County dew point readings were in the lower 50s, resulting in intensification of the storms in the region.

Lea County
15 N Tatum **25** **1530MST** **0** **0** **Hail (0.75)**

Lea County
Hobbs **26** **1502MST** **0** **0** **Hail (1.75)**
 This storm began in western Andrews County, Texas and spread northward into Gaines and then Lea County.

Lea County
Tatum **26** **1630MST** **0** **0** **Hail (1.75)**

Lea County
2 W Monument **26** **1655MST** **0** **0** **Hail (0.75)**
 These two storms formed along the dry line and were both multicell severe storms.

NEW YORK, Central

Onondaga County
Cicero to **29** **1227EST** **1** **1** **40K** **Thunderstorm Wind (G50)**
Manlius **1235EST**
 A line of thunderstorms became severe as it crossed northern sections of the county close to 1:30 pm EDT. Numerous trees and wires were downed across northern and eastern sections of the Syracuse metropolitan area. One man in Cicero was injured when he was shocked from falling wires. In Syracuse, another man was struck and killed by a large tree limb on the corner of Congress and Holland Streets.
 M400U

Seneca County
6 N Waterloo to **29** **1230EST** **0** **0** **30K** **Tstm Wind/Hail**
5 E Seneca Falls **1235EST**

A squall line with embedded severe thunderstorms produced wind damage and isolated large hail across northern sections of the county around and shortly after 1:30 pm EDT. In the towns of Aurelius and Junius, large trees were toppled. Nickel sized hail was also reported in Aurelius.

Yates County
Benton **29** **1239EST** **0** **0** **Hail (0.88)**

A thunderstorm briefly produced nickel sized hail as it crossed over the northern end of Keuka Lake in Benton township just before 1:40 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, Central									
Oneida County Camden to Forestport	29	1250EST 1320EST			0	0	65K		Thunderstorm Wind
									A fast moving line of severe thunderstorms inflicted widespread wind damage across much of the county, especially in northern and central portions. From roughly Camden eastward across the Rome area to Forestport, numerous trees and wires were downed.
Cayuga County Auburn to Moravia	29	1252EST 1320EST			0	0	40K		Tstm Wind/Hail
									Severe thunderstorms moved from northwest to southeast through the county. Widespread wind damage was the result. The hardest hit areas were in and just south of Auburn between 1:50 and 1:55 pm EDT and near Moravia at about 2:20 pm EDT. Several large trees were uprooted and hail to one inch in diameter was observed in Moravia.
Schuyler County Tyrone	29	1300EST			0	0	25K		Thunderstorm Wind
									A severe thunderstorm toppled several large trees in Tyrone around 2:00 pm EDT.
Steuben County Wheeler to Wayne Four Corners	29	1300EST 1333EST			0	0	50K		Thunderstorm Wind
									A cluster of severe thunderstorms affected the northeastern corner of the county roughly between 2:00 pm and 2:30 pm EDT. Wind damage was the main consequence with trees and power lines down in Wheeler, Savona, and Wayne Four Corners.
Tompkins County Trumansburg to Speedville	29	1315EST 1350EST			0	0	30K		Thunderstorm Wind
									A cluster of severe thunderstorms moved through Tompkins county between 2:15 and 2:50 pm EDT. Numerous trees and power lines were downed as a result of these storms in Trumansburg, Ithaca, Caroline, and Speedville.
Madison County 5 S Canastota to Hubbardsville	29	1335EST 1340EST			0	0	10K		Thunderstorm Wind
									A line of severe thunderstorms moved across the county causing trees and power lines to come down between 2:35 and 2:40 pm EDT. Trees and wires were downed 5 miles south of Canastota in Lincoln Township and in Hubbardsville.
Cortland County Solon	29	1355EST			0	0	5K		Thunderstorm Wind
									A line of severe thunderstorms moved across Cortland County knocking down trees on Telegraph Road in Solon at 2:55 pm EDT.
Otsego County Exeter Center to Unadilla	29	1355EST 1512EST			0	0	60K		Thunderstorm Wind
									A line of severe thunderstorms moved across Otsego County during the afternoon. Trees and wires were knocked down in Exeter Center at 2:55 pm, Hartwick at 3:20 pm, Morris at 3:27 pm, and Unadilla at 4:12 pm EDT.
Broome County Lisle to 3 W Harpursville	29	1400EST 1430EST			0	0	60K		Thunderstorm Wind
									A line of severe thunderstorms moved across Broome County between 2:45 and 3:40 pm EDT. Trees and wires were knocked down in Lisle at 3:00 pm, Glen Aubrey at 3:10 pm, Chenango Forks at 3:15 pm, and 3 miles west of Harpursville at 3:30 pm EDT.
Chemung County Erin	29	1405EST 1420EST			0	0	40K		Thunderstorm Wind
									A cluster of severe thunderstorms moved across Chemung County between 2:30 and 3:30 pm EDT. Numerous trees and power lines were knocked down in Erin and the northeastern part of the county between 3:05 and 3:20 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Central

Chenango County South New Berlin to 3 S Oxford

29	1405EST 1430EST			0	0	40K	Tstm Wind/Hail
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A line of severe thunderstorms moved across Chenango County between 3:00 and 3:40 pm EDT. Trees and wires were knocked down in South New Berlin at 3:05 pm, Plymouth at 3:10 pm, and 3 miles south of Oxford at 3:30 pm. Dime sized hail was reported by an off-duty NWS employee at 3:15 pm EDT in Coventry.

Tioga County Spencer to Candor

29	1415EST 1425EST			0	0	30K	Thunderstorm Wind
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A line of severe thunderstorms moved across Tioga County knocking down trees in Spencer at 3:15 pm and in Candor at 3:25 pm EDT.

Tompkins County Danby

29	1415EST			0	0	5K	Thunderstorm Wind
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A severe thunderstorm moved across the southern portion of the county and knocked down trees in Danby at approximately 3:15 pm EDT.

Delaware County Masonville to Delhi

29	1455EST 1520EST			0	0	35K	Thunderstorm Wind
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A line of severe thunderstorms plowed through the county with widespread wind damage. Many large trees and wires were knocked down in Masonville at 3:55 pm, in Walton around 4:10 pm, and in Delhi at 4:20 pm EDT.

Sullivan County Grahamsville to Liberty

29	1545EST 1615EST			0	0	10K	Thunderstorm Wind
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A line of severe thunderstorms moved across Sullivan County during the afternoon. A 64 mph wind gust was recorded in Grahamsville at 4:45 pm and trees were knocked down in Liberty at 5:15 pm EDT.

A strong cold front plowed into a moist unstable environment across central New York during the afternoon of the 29th. The result was organized severe thunderstorm activity in the form of several bow echoes and squall lines.

A line of severe thunderstorms first entered the northern Finger Lakes region shortly before 130 pm EDT. A fatality occurred in Syracuse as this line of storms passed through. A man was struck by a large tree limb while out walking. Many large trees and power lines littered streets in northern and eastern portions of the Syracuse metropolitan area in the wake of the thunderstorms. This same line of storms also grew back to the west and southwest and produced large hail to one inch in diameter across Cayuga and Seneca counties. Later that afternoon, the line of severe thunderstorms maintained its intensity and interacted with smaller line echo wave pattern features to produce a solid axis of damaging thunderstorms across New York's southern tier and the Catskills. An area from northern Broome county to southern Chenango county and into Otsego county likely sustained the most damage. Wind gusts estimated at close to 90 mph toppled trees and power lines in their path. Many roads were closed for a time in the Plymouth and Oxford areas of Chenango county due to fallen trees.

By 530 pm EDT, the severe thunderstorms had moved either into the eastern Catskills or northeastern Pennsylvania.

Oneida County Bridgewater to Vienna

31	1150EST 1155EST			0	0	5K	Thunderstorm Wind
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A severe thunderstorm moved across northern Oneida county around midday. Trees and wires were blown down in Bridgewater at 12:50 pm. A hay wagon was overturned in Vienna at 12:55 pm EDT.

Yates County Vine Vly to Middlesex

31	1240EST 1250EST			0	0	150K	Thunderstorm Wind
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Severe thunderstorms formed rapidly across western portions of the county. Trees were blown down on top of cars and trailers in Vine Valley and Middlesex between 1:40 and 1:50 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, Central									
Yates County Penn Yan	31	1305EST 1320EST			0	0	15K		Thunderstorm Wind
									A severe thunderstorm moved across the county during the early afternoon. Trees and wires were reported down in Penn Yan at 2:05 pm EDT. Numerous other trees and wires were blown down between 2:05 and 2:20 pm EDT.
Onondaga County Baldwinsville	31	1315EST 1330EST			0	0	10K		Thunderstorm Wind
									A severe thunderstorm moved across northern sections of the county. Trees and wires were blown down in and around Baldwinsville between 2:15 and 2:30 pm EDT.
Steuben County Hornell to Atlanta	31	1315EST			0	0	10K		Thunderstorm Wind
									A severe thunderstorm moved across the county during the early afternoon. Trees and wires were blown down in Hornell and Atlanta at 2:15 pm EDT.
Cortland County Cortland	31	1330EST 1340EST			0	0	15K		Thunderstorm Wind
									Severe thunderstorms toppled numerous trees in Cortland between 2:30 and 2:40 pm EDT.
Yates County Porter Corner	31	1349EST			0	0	5K		Thunderstorm Wind
									A severe thunderstorm moving across the county during the early afternoon blew down trees in Barrington township at 2:49 pm EDT.
Tompkins County 2 SE Trumansburg	31	1358EST			0	0	10K		Thunderstorm Wind
									A thunderstorm crossed into northwestern sections of the county and became severe. Several large trees and wires were downed in the town of Ulysses shortly before 3 pm EDT.
Madison County Cazenovia to Madison	31	1400EST 1420EST			0	0	50K		Thunderstorm Wind
									A cluster of severe thunderstorms moved across the county during the afternoon. Trees, wires, and a silo were blown down in Cazenovia and Madison at approximately 3:00 pm. Numerous trees and wires were also blown down in Smithfield Township between 3:10 and 3:20 pm EDT.
Schuyler County Hector to Mecklenburg	31	1400EST			0	0	30K		Thunderstorm Wind
									A severe thunderstorm moved through the county during the afternoon. Numerous trees and telephone poles were blown down with damage to roofing and siding occurring in Hector and Mecklenburg at 3:00 pm EDT.
Seneca County Covert	31	1400EST			0	0	20K		Thunderstorm Wind
									A severe thunderstorm moved across the southern part of the county during the mid afternoon. Large trees and power poles were blown down in Covert at 3:00 pm EDT.
Oneida County Augusta to Clinton	31	1403EST 1410EST			0	0	60K		Thunderstorm Wind
									Severe thunderstorms caused considerable wind damage as they plowed through southern portions of the county. A roof was torn from a silo in Augusta at 3:03 pm and trees were blown down in Clinton and Cassville at 3:10 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, Central									
Chenango County Smyrna to Sherburne	31	1415EST 1425EST			0	0	20K		Thunderstorm Wind
									A cluster of severe thunderstorms moved across the county during the afternoon. Trees and wires were blown down in Smyrna and Sherburne between 3:15 and 3:20 pm. Trees were also uprooted in Sherburne at 3:25 pm EDT.
Tompkins County Ithaca	31	1423EST			0	0	15K		Thunderstorm Wind
									A severe thunderstorm moving across the county blew a tree down onto a van in Ithaca at 3:23 pm EDT.
Otsego County Cooperstown to Burlington Flats	31	1430EST 1440EST			0	10	125K		Thunderstorm Wind
									Severe thunderstorms produced widespread damage across the county. Trees and wires were blown down in Cooperstown and northern Burlington Flats between 3:30 and 3:40 pm EDT. Several roads were blocked due to the downed trees and wires. People were trapped in their vehicles by falling trees and some sustained injury from flying debris, broken glass, or falling wires.
Chemung County Horseheads	31	1435EST			0	0	10K		Thunderstorm Wind
									A severe thunderstorm developed over the county during the afternoon and blew down trees and wires in Horseheads at 3:35 pm EDT.
Chenango County Sherburne	31	1515EST			0	0	5K		Thunderstorm Wind
									Severe thunderstorms moved across the county during the afternoon blowing down trees that blocked roads in Sherburne at 4:15 pm EDT.
Steuben County Hornell to Addison	31	1520EST 1527EST			0	0	15K		Hail (1.75)
									A severe thunderstorm moving across the county produced large hail ranging from 3/4 to 1 3/4 inches in diameter in Hornell, Addison, and Andover between 4:20 and 4:27 pm EDT. Several automobiles had cracked or smashed windows from the falling hailstones near Andover as sizes grew to that of a golf ball.
Otsego County Cooperstown to Oneonta	31	1530EST 1550EST			1	5	100K		Thunderstorm Wind
									Severe thunderstorms moved across the county during the afternoon. Trees and wires were blown down in Cooperstown and Laurens between 4:30 and 4:35 pm EDT. Numerous trees and wires were also downed by the wind in Scheneyus at 4:45 pm and Oneonta at 4:50 pm EDT. Transmission towers and large signs were also toppled in Oneonta. Numerous roads were blocked due to the downed trees and many of them were closed for several hours. In Oneonta, a 32 year old man was struck and killed by a large tree limb. Several additional injuries were sustained from flying debris.
									M32UT
Cortland County Cuyler	31	1535EST			0	0			Hail (0.75)
									A thunderstorm briefly reached severe limits and produced dime sized hail in Cuyler.
Chemung County Elmira Hgts to Breesport	31	1540EST 1610EST			0	0	30K		Hail (1.50)
									A severe thunderstorm dumped large hail from the Elmira/Elmira Heights vicinity eastward to near Breesport. Hailstones approaching golf ball size severely dented cars in a used automobile lot and cracked a few windshields.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

NEW YORK, Central

Delaware County

Davenport to Fergusonville	31	1545EST 1555EST	3	75	0	0	150K		Tornado (F0)
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A supercell thunderstorm briefly became tornadic as it crossed northern portions of the county late in the afternoon. The tornado cut a discontinuous 3 mile path from Davenport township northeastward through Butts Corners to Fergusonville between 4:45 and 4:55 pm EDT.

The twister appeared to skip across mainly hilltop sections. Large trees were twisted and snapped off on ridge tops with tree damage mainly confined to canopy level at somewhat lower elevations. In Butts Corners, several homes near the path of the tornado sustained siding and roof damage.

The tornado appeared to lift back into the cloud base just north of route 9 in Fergusonville.

Steuben County

Hornell to Woodhull	31	1610EST 1655EST			0	0	30K		Tstm Wind/Hail
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Severe thunderstorms crossed the county late in the afternoon and caused widespread wind damage and also produced large hail. Many large trees and utility poles were knocked down in an east to west path from Hornell to Bath between 5:10 and 5:30 pm EDT. Golf ball sized hail was also observed along much of this path. By around 5:55 pm, the northern edge of the storm had weakened and slowed in its movement. At the same time, the southern end of the squall line became dominant. More trees were toppled in southern portions of the county around this time near Jasper and Woodhull.

Onondaga County

Marcellus	31	1612EST			0	0	5K		Thunderstorm Wind
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A severe thunderstorm moving across the county blew down trees in Marcellus at 5:12 pm EDT.

Tioga County

Barton to Newark Vly	31	1620EST 1635EST			0	0	50K	30K	Tstm Wind/Hail
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Severe thunderstorms ripped through the county between 5:20 and 5:40 pm EDT. Downed trees and power lines were the result countywide with isolated roof damage to homes just west of Owego. Also, golf ball sized hail was observed in Newark Valley. Automobile and crop damage was inflicted by the falling hailstones. Hundreds of acres of crops at local fruit stands were severely damaged.

Tioga County

Apalachin	31	1630EST 1635EST	2	50	0	0	50K		Tornado (F0)
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A supercell thunderstorm became tornadic across extreme southeastern section of the county. A tornado touched down in the town of Apalachin around 5:30 pm EDT just west of the Tioga/Broome county line. The tornado skipped along hilltop sections, snapping off trees along its path and causing considerable damage to the back porch of a house. The storm then pushed eastward into Broome county and continued to intensify.

Broome County

Vestal to Sanford	31	1635EST 1745EST	30	200	0	12	1.5M		Tornado (F3)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Central

A tornadic supercell ripped across southern sections of the county between approximately 5:35 pm and 6:45 pm EDT. Tornado intensities varied from F0 to F3 along this path. Hailstones as large as baseballs and tea cups were also observed along the cell's southern and western flanks.

A tornado which affected Apalachin in southeastern Tioga county crossed the county line and into the town of Vestal around 5:35 pm EDT. At this point, the tornado was rated as F0 intensity with the width of the damage path around 70 yards. Damage was primarily to trees with some large trees uprooted and/or twisted off over hilltop sections. As the cell moved further east into the town of Binghamton, the tornado intensified to category F2 with the damage width increasing to around 100 yards. In this location, the damage became increasingly severe with more structures affected. The local ABC affiliate in the town of Binghamton sustained major damage. A 1000 foot television tower was twisted and toppled to the ground. A large trash dumpster was lifted off the ground and tossed into two satellite dishes, then thrown about 100 yards further over an embankment. A sport utility vehicle was rolled over several times as witnessed by a television crew member. Another vehicle was also moved and a video tape was carried over a mile and a half away from the station. Several small trailers were also flattened in Binghamton just east of Ingraham Hill and others had minor roof damage. Two serious injuries occurred when a trailer collapsed upon the two female occupants who were in the kitchen at the time.

Between approximately 6:20 and 6:45 pm EDT, the tornado moved further east through Conklin, Kirkwood, Windsor, and eventually to the Sanford/Deposit area. In the towns of Conklin and Kirkwood, the tornado maintained an F2 intensity. More than a dozen homes took on damage as the twister moved through. For the majority of these residences, damage was restricted to shingles and/or portions of the siding torn off or damaged from falling trees. However, there were several trailers that were nearly or completely destroyed within the direct path of the tornado in the town of Conklin. For one such trailer, its wreckage was strewn downstream for more than a quarter of a mile. As the twister moved into the town of Windsor, it briefly weakened to F0 intensity. At that point, touchdown locations appeared to be restricted to a few scattered spots with damage consisting of tree tops snapped or twisted off.

Once the tornado reached the town of Sanford, it reintensified and reached category F3. A well built house was totally destroyed. The only part of the structure left standing was a small interior closet. Also, a wide swath of trees were flattened near a power company sub-station. Trees were twisted off and blown in all directions with hundreds of them estimated to be toppled. Local residents observed hail to 3 inches in diameter near the path of the tornado. Fortunately, as the twister reached its greatest intensity, it affected areas that were more sparsely populated.

In all, county emergency management officials estimated damage totals near 1.5 million dollars. Dozens of structures were severely damaged or destroyed and thousands of trees were cut down. Twelve injuries were sustained in total with very fortunately no loss of life. In some of the more remote areas, it took the better part of a week to restore power. Two of the three local television affiliates were knocked off the air for a time on the evening of the 31st with several radio stations also suffering through service interruptions for up to three days. The towns of Binghamton, Conklin, and Sanford were put under a local state of emergency and also ultimately declared federal disaster areas.

Chenango County Plymouth

31	1650EST	1	1500	0	0	500K	Tornado (F2)
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A supercell thunderstorm became tornadic near Plymouth Reservoir in Plymouth township around 5:50 pm EDT. Although the tornado's touchdown was brief, it still cut a large swath of damage nearly a 1/4 mile wide and mowed down hundreds of trees around the reservoir. A few homes on the outer fringes of the tornado's sphere of influence had roof and siding damage.

Cortland County Cincinnatus

31	1652EST			0	0	10K	Thunderstorm Wind
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A thunderstorm quickly intensified to severe limits late in the afternoon over eastern portions of the county. Numerous trees were blown down in Cincinnatus at 5:52 pm EDT.

Otsego County Unadilla

31	1652EST			0	0	10K	Thunderstorm Wind
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A severe thunderstorm developed across southern portions of the county and blew down numerous trees in Unadilla around 5:52 pm EDT.

Madison County Cazenovia to Madison

31	1655EST			0	0	80K	Thunderstorm Wind
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A cluster of severe thunderstorms moved across the county during the afternoon. Numerous trees and wires were blown down across the county at approximately 5:55 pm EDT.

Chenango County North Norwich

31	1700EST	0.5	75	0	0	135K	Tornado (F0)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Central

A supercell thunderstorm became tornadic briefly over North Norwich around 6:00 pm EDT. Trees were snapped off and twisted in all directions along the tornado's path. Several road signs were also blown over and a few homes sustained roof and siding damage.

Onondaga County

**Nedrow to
Manlius**

31	1700EST 1745EST				0	0	200K		Tstm Wind/Hail
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A cluster of severe thunderstorms moved across the county during the late afternoon and early evening. Transmission towers were blown down in Nedrow close to 6:00 pm EDT. Numerous trees and wires were also blown down countywide between 6:00 and 6:45 pm EDT with isolated damage occurring to homes. Dime sized hail was observed in Camillus and Manlius between 6:35 and 6:45 pm EDT.

Schuyler County

Mecklenburg

31	1706EST				0	0	15K		Thunderstorm Wind
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A severe thunderstorm downed several large trees and power lines in Mecklenburg as it passed through shortly after 6:00 pm EDT.

Seneca County

Waterloo

31	1707EST				0	0	10K		Thunderstorm Wind
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A cluster of developing severe thunderstorms moved through central and southern portions of the county. Numerous trees and wires were downed in Waterloo at approximately 6:07 pm EDT.

Cayuga County

Auburn

31	1715EST 1730EST				0	0	10K		Thunderstorm Wind
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A severe thunderstorm blew down large trees and limbs in Auburn between 6:15 and 6:30 pm EDT.

Otsego County

**Portlandville to
Maryland**

31	1725EST 1730EST	0.7	30		0	0	75K		Tornado (F0)
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A severe thunderstorm briefly became tornadic early in the evening as it crossed over the ridges of the Crumhorn mountains and into the Portlandville/Maryland area.

Damage consisted of tree tops twisted off in about a 30 yard wide area. The path of the twister was around three quarters of a mile with the intensity rated as F0. Just beyond Morehouse Brook in Maryland township, the tornado appeared to lift back into the cloud base with no visible signs of damage downstream.

Tioga County

**Tioga Terrace to
Apalachin**

31	1725EST 1730EST				0	0	50K		Thunderstorm Wind
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A severe thunderstorm produced wind damage in the southeastern portion of the county between 6:25 and 6:30 pm EDT.

Many large trees were downed across roadways and power lines in Tioga Terrace. Also, more trees were toppled in Apalachin with a radio tower damaged in South Apalachin.

Madison County

**Cazenovia to
Brookfield**

31	1730EST 1750EST				0	0	50K		Thunderstorm Wind
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A cluster of severe thunderstorms moving across the county blew down trees and wires in Cazenovia at 6:30 pm EDT. Damage to a barn and mobile home was sustained in Brookfield by these storms at 6:50 pm EDT.

Otsego County

**Laurens to
Milford**

31	1730EST 1735EST	5	800		0	3	800K		Tornado (F3)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

NEW YORK, Central

A supercell thunderstorm became tornadic as it crossed southern portions of the county around 6:30 pm EDT. The storm cut nearly a 5 mile path from Laurens eastward into Milford township.

This twister incurred major damage to heavily forested areas. Thousands of trees were laid out with the width of damage varying up to nearly a half mile in spots. Trees were blown over in a chaotic and almost circular pattern as viewed from aerial damage surveys. Several homes within the path of the twister also sustained heavy damage. In the town of Laurens, a well built home was nearly destroyed with only the back and a portion of the side wall left in tact. Many local roads were closed for up to 3 days as fallen trees made them completely impassable. This included portions of routes 12 and 44.

The cell appeared to weaken as it approached Interstate 88 just east of Milford.

County emergency officials estimated damage totals in excess of three quarters of a million dollars from this twister. Most of it stemmed from deforestation, repair of utility poles, and other repairs to homes and public structures. Three minor injuries were sustained from falling tree limbs and flying debris.

Delaware County

**Deposit to
Downsville**

31	1745EST 1840EST	30	200	0	0	1M	Tornado (F3)
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The same tornadic supercell that moved through southern portions of Broome county crossed into Delaware county in Deposit around 6:45 pm EDT. At that point, the tornado was still quite strong and maintained an intensity of category F3. Several more homes were severely damaged as the twister moved over route 8 and areas just west of Cannonsville Reservoir. Again, large swaths of trees were cut down and hail larger than baseballs was observed.

Once the cell passed on to the east across Tompkins and Colchester townships, it weakened as tornado intensity decreased to F1. Significant tree damage was seen in both ground and aerial damage surveys along hilltop areas just north and east of Cannonsville Reservoir. Hundreds of tree tops were estimated to be twisted off with several utility poles also taken out in these areas.

Further east towards Downsville, tornado intensity fluctuated between F0 and F1 with most of the damage to trees along ridge tops. Fortunately, the twister skipped along sparsely populated areas for the most part. As a result, structural damage and injuries were kept to a minimum. Once the cell reached the eastern end of Pepacton Reservoir, it weakened further with the tornado apparently lifting back into the cloud base.

Emergency management officials estimated damage totals approaching a million dollars. The majority of the damage occurred in Deposit. The town of Deposit was placed under a local state of emergency for several days with this area also eventually receiving federal aid.

Broome County

Countywide

31	1750EST 1815EST			0	0	175K	20K	Tstm Wind/Hail
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Supercell thunderstorms continued to redevelop across the county during the early evening hours. These storms produced wind damage and large hail over a widespread area.

Hail to baseball size in diameter dented automobiles and damaged crops from the south side of Binghamton to Conklin and Windsor between 7:00 and 7:15 pm EDT. Trees were also downed in Chenango Forks, Endwell, Vestal, and Port Dickinson.

Chemung County

Horseheads

31	1822EST			0	0	5K	Thunderstorm Wind
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A thunderstorm briefly reached severe levels as it downed trees and power lines in and just outside of Horseheads shortly before 7:30 pm EDT.

Tioga County

Apalachin

31	1830EST			0	0	10K	Thunderstorm Wind
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A thunderstorm intensified to severe limits over southeastern portions of the county. Several large trees were toppled in Apalachin around 7:30 pm EDT.

Broome County

**Vestal to
Windsor**

31	1850EST 1950EST			0	0	60K	Tstm Wind/Hail
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The severe thunderstorm that produced wind damage in southeastern Tioga county a bit earlier in the evening also dropped large hail in the southwestern corner of Broome county. Golf ball sized hail was observed in Vestal by a skywarn spotter about 7:50 pm EDT. In addition, wind damage was inflicted in many communities after 8:00 pm EDT. Trees and wires were downed in Johnson City, Chenango Bridge, and Colesville between 8:00 and 8:30 pm EDT. Also, a few trees were toppled onto utility poles in Windsor between 8:40 and 8:50 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Central

Tioga County Newark Vly

31	1900EST				0	0	5K		Thunderstorm Wind
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A severe thunderstorm moving across the county blew down large trees in Newark Valley at 8:00 pm EDT.

Delaware County Margaretville

31	1905EST				0	0	10K		Thunderstorm Wind
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A thunderstorm briefly reached severe levels across southeastern sections of the county as wind damage was produced. Trees and wires were downed in Margaretville around 8:05 pm EDT.

Sullivan County Grahamsville to Monticello

31	1933EST 2000EST				0	0	10K		Thunderstorm Wind
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A cluster of severe thunderstorms moving across the county blew down trees and wires in Grahamsville at 8:33 pm EDT where a 61 mph wind gust was recorded by a skywarn spotter. In Monticello at around 9:00 pm EDT additional large trees were toppled.

An intensifying storm system moved across upstate New York and into southern Quebec early in the morning on the 31st. This system dragged a warm front northeastward across central New York. A southerly flow of warm, moist, and unstable air quickly developed. This set the stage for severe weather that afternoon and evening as a cold front and strong upper air disturbance approached.

From early in the afternoon until the evening hours, central New York was under siege from severe thunderstorms, including several tornadic supercells. In all, six separate tornadoes touched down on this day in central New York. The most devastating twister cut a discontinuous sixty plus mile track from southeastern Tioga county across southern Broome county and into Delaware county where it finally lifted back into the cloud base. This tornado alone damaged or destroyed more than 30 homes and injured nearly 20 people. Very fortunately, no fatalities occurred. Another violent tornado ripped through southern sections of Otsego county between Laurens and Milford. Thousands of trees were snapped off or uprooted with large sections of forest completely taken out. Several residences were leveled and many roads were impassable for days due to the fallen debris. The damage toll from this day's tornadoes ran into the millions.

Several strong bow echo complexes also affected central New York. From southern Chenango county through the lower half of Otsego county, one such storm took out hundreds of trees and inflicted considerable structural damage in and around Oneonta. One man was killed in Oneonta when hit by a falling tree limb. Throughout Onondaga county, wind gusts estimated at 90 to 100 mph caused widespread damage early in the evening between 6:00 and 6:30 pm EDT. Two large transmission towers near Nedrow were toppled from the winds and many buildings had blown out windows and/or roof damage.

Hail as large as 3 to 4 inches in diameter accompanied some of the tornadic supercells across New York's southern tier; smashing windows, severely denting cars, and causing crop losses. New York State Electric and Gas Company estimated that hundreds of thousands of customers were without power during the height of the storms late that afternoon and evening. Some of the more remote locations did not have power restored for the better part of a week.

NEW YORK, Coastal

Suffolk County Huntington

06	1940EST				0	0			Hail (0.75)
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As a severe thunderstorm moved north across Western Suffolk County, it produced 3/4 inch diameter hail in Huntington.

Bronx County Countywide

09	0100EST				0	0			Heavy Rain
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10	2230EST								
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Kings County Countywide

09	0100EST				0	0			Heavy Rain
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10	2230EST								
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Nassau County Countywide

09	0100EST				0	0			Heavy Rain
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10	2230EST								
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New York County Countywide

09	0100EST				0	0			Heavy Rain
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10	2230EST								
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Orange County Countywide

09	0100EST				0	0			Heavy Rain
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10	2230EST								
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, Coastal									
Putnam County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							
Queens County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							
Richmond County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							
Rockland County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							
Suffolk County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							
Westchester County									
Countywide	09	0100EST			0	0			Heavy Rain
	10	2230EST							

A slow moving storm moved south and east of the Mid-Atlantic Coast from Friday, May 8th through Monday, May 11th.

Measurable rain developed across the region during Friday, May 8th. Rain was occasionally heavy during both Saturday, May 9th and Sunday, May 10th and ended on Monday, May 11th.

Heavy rain caused urban flooding of streets, poor drainage and low-lying areas. Rainfall amounts generally ranged from 2 .50 to 5.50 inches. Here are selected rainfall amounts for:

- o New York City - from 3.22 inches at JFK Airport to 4.22 inches at Central Park.
- o Long Island - from 4.22 inches at the NWS Office in Upton to 5.31 inches at Mt. Sinai in Suffolk County.
- o Orange County - 3.79 inches was reported at Sterling Forest.
- o Rockland County - 2.92 inches was reported at Suffern.
- o Westchester County - 3.20 inches was reported at White Plains.

Additionally, mostly minor coastal flooding was reported along the south shore of Long Island during high tides from Saturday, May 9th through Monday, May 11th. Up to 8 inches of water inundated Woodcleft Ave. in Freeport (Nassau County) and several streets along the Fire Island Pines.

Rockland County									
Suffern	10	1150EST			0	0			Flash Flood
	11	1015EST							
Orange County									
Countywide	10	2130EST			0	0			Flash Flood
<p>With wet antecedent conditions during the past 11 days, bands of heavy rainfall caused flash flooding.</p> <p>In Orange County, the police reported several flooded basements and roads countywide. Route 44/55 flooded near Minnewaska State Park and a Section of Route 17M in Monroe was closed.</p> <p>In Rockland County, the Mahway River at Suffern rose rapidly above its' flood stage of 4.0 ft. at 11:50 pm EST and crested at 4.58 ft. on May 11th at 3:00 am EST. The river finally receded below its' flood stage at 10:15 am EST on May 11th.</p>									
Orange County									
Monroe	20	1630EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Coastal

Putnam County									
Cold Spgs	20	1630EST			0	0			Hail (1.75)
Rockland County									
West Nyack	20	1700EST			0	0			Hail (0.75)
New York County									
New York	20	1730EST			0	0			Hail (1.50)
Westchester County									
Armonk	20	1730EST			0	0			Hail (0.75)
Nassau County									
Franklin Square	20	1803EST			0	0			Hail (1.75)

Severe thunderstorms formed in a warm, moist, and unstable airmass ahead of an approaching cold front. They produced damaging hail up to 1.75-inches in diameter in Cold Springs, on Canal Street in New York City, and in Franklin Square. Other thunderstorms produced hail less than 0.75-inch in diameter in Kings County (Brooklyn) and in Wheatly Heights (Suffolk County). In addition, thunderstorms caused localized street and poor drainage flooding in lower Manhattan.

Orange County									
Hamptonburg	29	1720EST			0	0			Thunderstorm Wind (G50)
Putnam County									
Cold Spgs	29	1720EST			0	0			Lightning
Putnam County									
Countywide	29	1720EST			0	0			Thunderstorm Wind (G50)

With a warm, moist, and unstable airmass in place, lines of thunderstorms (some severe) moved southeast across the region ahead of an approaching cold front.

Severe thunderstorms produced high winds that downed trees onto power lines at the locations listed above. High winds caused widespread damage to trees and power lines in Putnam County. In addition, lightning struck and ignited a fire that damaged a home on Corey Lane in Cold Springs. The extent of the damage is unknown.

Orange County									
Port Jervis	31	1850EST			0	0			Hail (1.50)
Orange County									
Slate Hill	31	1911EST			0	0			Thunderstorm Wind (G57)
Orange County									
Goshen	31	1940EST			0	0			Thunderstorm Wind (G50)
Orange County									
Harriman	31	1947EST			0	0			Funnel Cloud
Orange County									
Stewart Afb	31	1955EST			0	0			Funnel Cloud
Orange County									
Slate Hill	31	2013EST			0	0			Hail (0.75)
Putnam County									
Cold Spgs	31	2020EST			0	0			Thunderstorm Wind (G50)
Orange County									
Warwick	31	2057EST			0	0			Thunderstorm Wind (G60)
Putnam County									
Mahopac	31	2106EST			0	0			Hail (0.75)
Orange County									
Slate Hill	31	2200EST			0	0	200K		Flash Flood
Rockland County									
West Nyack	31	2203EST			0	0			Lightning

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Coastal

Westchester County Peekskill	31	2203EST			0	0			Thunderstorm Wind (G50)
Westchester County Pound Ridge	31	2218EST			0	0			Thunderstorm Wind (G50)
Rockland County Nanuet	31	2227EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms (in lines and clusters) formed and moved over the Lower Hudson Valley of New York. They formed in a moist and unstable airmass ahead of an approaching trough of low pressure.

Severe thunderstorms produced high winds, large hail, torrential rain, and frequent lightning. High winds downed many trees onto power lines, into houses, and onto cars. Spotters reported funnel clouds 5 miles south of the Harriman Tolls on Interstate-87 and near Stewart AFB in Newburgh. Up to 6 inches of rain caused flash flooding of roads and basements across Orange County. Frequent lightning strikes caused numerous brush and structure fires and downed trees onto power lines and houses. There were significant interruptions of power for up to 48 hours following these storms.

The combination of high winds, large hail, and flash flooding caused significant damage to onion crops on 4000 (out of 5000) acres in Orange County. This resulted in \$200K in property damage.

NEW YORK, East

Ulster County Saxton	06	2000EST			0	1			Lightning
At Saxton in Ulster County, a male was struck by lightning. The individual was hospitalized and released.									
Columbia County Northwest Portion	06 07	2035EST 0400EST			0	0	50K		Flash Flood
During the late evening hours and early morning hours of May 6 and 7, thunderstorms with torrential rain produced flash flooding across the northwest portion of Columbia County. A mud slide covered the Conrail tracks at Stuyvesant. Roads were also flooded in Stockport, Stuyvesant, West Ghent and Greenport. In the Town of Stuyvesant, State Highway 9J, Land Road, Hollow and Allendale Roads and County Highway 46 were flooded. Mud slides also covered portions of State Highway 9J. Other flooded roads included, State Highway 66 in West Ghent and County Highway 25 in Stockport. Numerous basements in this portion of the county were also flooded.									
Rensselaer County Southwest Portion	06	2100EST 2359EST			0	0	40K		Flash Flood
During the late evening hours of May 6, thunderstorms with torrential rain produced flash flooding across the southwest portion of Rensselaer County. Significant road flooding occurred at Schodack and Schodack Landing. Four sections of State Highway 9J from Castleton-on-the-Hudson to the Columbia County line, were blocked by mud slides.									
Greene County Northeast Portion	06	2200EST 2359EST			0	0	30K		Flash Flood
During the late evening hours of May 6, thunderstorms with torrential rain produced flash flooding across the northeast portion of Greene County. At the Hamlet of New Baltimore, Church Street was washed out and State Highway 144 was closed. Underpasses were flooded in Coxsackie along with many basements.									
NYZ063>064	Western Ulster - Eastern Ulster								
	10 13	1400EST 1400EST			0	0	10K		Flood
Low pressure off the Mid-Atlantic coast produced 3 to 7 inches of rain across the Catskill Mountains in Greene County. The rain fell on fairly wet ground and forced the Esopus Creek to spill out of its banks both above and below the Ashokan Reservoir. The creek flooded above the dam on May 10 and crested just over flood stage at Mount Tremper during the evening hours. Below the Ashokan Reservoir the creek flooded from the early morning hours of May 11 to the early afternoon hours of May 13. The creek crested approximately three feet over flood stage at Mount Marion. The flood waters caused problems mainly between Kingston and Saugerties. Flooding occurred in a trailer park in the Town of Saugerties. Several trailers were surrounded by water but no evacuations were necessary. Minor flooding also occurred in the Kingston Plaza area.									
NYZ051>052	Western Albany - Eastern Albany								
	10 11	2110EST 0700EST			0	0	13K		Flood
Low pressure off the Mid-Atlantic coast produced several inches of rain across southern Albany County. The rain fell on fairly wet ground and forced the Hannacroix Creek below the Alcove Dam to flood. Flooding occurred in the Town of Coeymans along State									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
			Highway 143 and County Highway 102.						
Hamilton County									
Long Lake	20	1245EST			0	0	5K		Thunderstorm Wind
Washington County									
Putnam Station	20	1530EST			0	0			Hail (0.75)
Warren County									
Chestertown	20	1548EST			0	0	3K		Hail (0.88)
Dutchess County									
Fishkill	20	1617EST			0	0			Hail (0.75)
Dutchess County									
Beacon	20	1619EST			0	0			Hail (0.75)
Dutchess County									
Poughkeepsie	20	1625EST			0	0	1K		Thunderstorm Wind
During the afternoon of May 20, a cold frontal passage initiated several severe thunderstorms across eastern New York. The severe thunderstorms were mainly hail producers with some wind damage. At Long Lake in Hamilton County, damaging winds downed trees and wires. At Chestertown in Warren County, the storms produced nickel size hail. Across the Mid-Hudson Valley and southern Catskills, approximately 3,000 customers lost power.									
Herkimer County									
Fairfield	29	1333EST			0	0	0.50K		Thunderstorm Wind
Fulton County									
Stratford	29	1338EST			0	0	3K		Thunderstorm Wind
Herkimer County									
Dolgeville	29	1340EST			0	0	3K		Thunderstorm Wind
Montgomery County									
St Johnsville	29	1357EST			0	0	3K		Thunderstorm Wind
Hamilton County									
Piseco	29	1358EST			0	0	3K		Thunderstorm Wind
Fulton County									
Johnstown	29	1400EST			0	2	30K		Thunderstorm Wind
Hamilton County									
Indian Lake	29	1408EST			0	0	2K		Thunderstorm Wind
Warren County									
Warrensburg	29	1425EST			0	0	8K		Thunderstorm Wind
Schoharie County									
Central Bridge	29	1427EST			0	0	2K		Thunderstorm Wind
Saratoga County									
Jonesville	29	1430EST			0	0	20K		Thunderstorm Wind
Schenectady County									
Delanson	29	1430EST			0	0	5K		Thunderstorm Wind
Saratoga County									
Greenfield Center	29	1434EST			0	0	4K		Thunderstorm Wind
Saratoga County									
Malta	29	1434EST			0	0	6K		Thunderstorm Wind
Saratoga County									
Rock City Falls	29	1439EST			0	0	1K		Thunderstorm Wind
Montgomery County									
Amsterdam	29	1445EST			0	1	2K		Thunderstorm Wind
Montgomery County									
Fonda	29	1445EST			0	0	15K		Thunderstorm Wind
Albany County									
Berne	29	1448EST			0	0	2K		Thunderstorm Wind
Washington County									
Ft Edward	29	1448EST			0	0	2K		Thunderstorm Wind
Washington County									
Granville	29	1448EST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
Washington County Whitehall	29	1448EST			0	0	3K		Thunderstorm Wind
Schenectady County Glenville	29	1455EST			0	0	1K		Thunderstorm Wind
Rensselaer County Buskirk	29	1520EST			0	0	1K		Thunderstorm Wind
Rensselaer County Hoosick Falls	29	1520EST			0	0	15K		Thunderstorm Wind
Rensselaer County Wynantskill	29	1520EST			0	0	15K		Thunderstorm Wind
Greene County Catskill	29	1535EST			0	0	2K		Thunderstorm Wind
Greene County Leeds	29	1535EST			0	0	2K		Thunderstorm Wind
Columbia County Valatie	29	1538EST			0	0	15K		Thunderstorm Wind
Columbia County Kinderhook	29	1541EST			0	0	2K		Thunderstorm Wind
Rensselaer County East Greenbush	29	1545EST			0	0	1K		Thunderstorm Wind
Ulster County Hurley	29	1603EST			0	0	2K		Thunderstorm Wind
Ulster County Olivebridge	29	1603EST			0	0	2K		Thunderstorm Wind
Ulster County Woodstock	29	1603EST			0	0	2K		Thunderstorm Wind
Ulster County Napanoch	29	1605EST			0	0	1K		Thunderstorm Wind
Ulster County Ellenville	29 M69UT	1610EST			1	0	0.50K		Thunderstorm Wind
Ulster County Kingston	29	1618EST			0	0	2K		Thunderstorm Wind
Dutchess County Hyde Park	29	1620EST			0	0	2K		Thunderstorm Wind
Dutchess County Red Hook	29	1620EST			0	0	2K		Thunderstorm Wind
Dutchess County Poughkeepsie	29	1645EST			0	0	4K		Thunderstorm Wind
<p>During the afternoon of May 29, a line of fast moving severe thunderstorms crossed eastern New York and produced damage in every county. This intense convection developed well ahead of a strong cold front. The storms resulted in one fatality and three injuries. An elderly man was instantly killed at Ellenville in Ulster County, when a large tree limb fell on him. Two injuries occurred in Fulton County and one injury in Montgomery County. The injuries were the result of fallen tree limbs and wires. Across the region the damaging winds knocked out power to approximately 40,000 customers, broke several power poles and damaged dozens of homes due to fallen trees or large branches. Damage was most widespread in Montgomery, Fulton, Saratoga, Warren and Washington Counties. State Highway 9N south of Bolton Landing in Warren County and route 4 in the Whitehall area in northern Washington County, were closed through the evening hours due to tree debris. At North Winfield in southern Herkimer County, a silo collapsed in the damaging winds.</p>									
Herkimer County Cedarville	31	1438EST			0	0	80K		Thunderstorm Wind
Herkimer County Dolgeville	31	1438EST			0	0	30K		Thunderstorm Wind
Herkimer County Frankfort	31	1438EST			0	0	50K		Thunderstorm Wind
Montgomery County Fonda	31	1442EST			0	0	40K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
Fulton County									
Gloversville	31	1445EST			0	0	70K		Thunderstorm Wind
Herkimer County									
Mohawk	31	1445EST			0	0	60K		Thunderstorm Wind
Schoharie County									
Schoharie	31	1510EST			0	0	10K		Thunderstorm Wind
Saratoga County									
Milton Center	31	1515EST			0	0	5K		Hail (1.00)
Saratoga County									
Mechanicville	31	1516EST			0	0			Thunderstorm Wind (G52)
Saratoga County									
Saratoga Spgs	31	1520EST			0	0	10K		Hail (1.75)
Saratoga County									
.7 NNE Ushers to 1 NNE Mechanicville	31	1522EST 1527EST	4.7	970	0	68	60M		Tornado (F3)
Rensselaer County									
1.9 NNW Reynolds to 2.6 ENE Walloomsac	31	1527EST 1545EST	20.3	970	0	0	10M	200K	Tornado (F2)
Schoharie County									
North Blenheim	31	1530EST			0	0	8K		Thunderstorm Wind
Washington County									
Cambridge	31	1530EST			0	0	8K		Thunderstorm Wind
Schoharie County									
Middleburg	31	1532EST			0	0	10K		Thunderstorm Wind
Saratoga County									
Ballston Spa	31	1535EST			0	0			Hail (0.75)
Washington County									
Easton	31	1535EST			0	0	60K		Thunderstorm Wind
Albany County									
1.7 NNW Colonie to .7 WNW Latham	31	1537EST 1541EST	3.5	75	0	0	25K		Tornado (F1)
Albany County									
Bethlehem Center	31	1538EST			0	0	8K		Thunderstorm Wind
Albany County									
Albany Arpt	31	1540EST			0	0	8K		Thunderstorm Wind (G71)
Albany County									
Colonie	31	1550EST			0	0	12K		Thunderstorm Wind
Schenectady County									
Rotterdam	31	1550EST			0	0	10K		Thunderstorm Wind
Schenectady County									
Schenectady	31	1550EST			0	0	12K		Thunderstorm Wind
Greene County									
Greenville	31	1600EST			0	0	4K		Hail (1.00)
Rensselaer County									
Brunswick	31	1600EST			0	0	6K		Thunderstorm Wind
Rensselaer County									
East Greenbush	31	1605EST			0	0	10K		Thunderstorm Wind
Columbia County									
Kinderhook	31	1610EST			0	0	10K		Thunderstorm Wind
Columbia County									
Stuyvesant	31	1610EST			0	0	6K		Thunderstorm Wind
Columbia County									
Chatham	31	1620EST			0	0	15K		Thunderstorm Wind
Columbia County									
Niverville	31	1626EST			0	0	20K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
Columbia County Stuyvesant	31	1631EST			0	0	4K	200K	Hail (1.00)
Rensselaer County Nassau	31	1635EST			0	0	4K		Thunderstorm Wind
Montgomery County Ft Plain	31	1720EST			0	0	4K		Thunderstorm Wind
Montgomery County Ames	31	1722EST			0	0	4K		Thunderstorm Wind
Montgomery County Rural Grove	31	1724EST			0	0	3K		Thunderstorm Wind
Herkimer County Mohawk	31	1725EST			0	0	5K		Thunderstorm Wind
Montgomery County Fonda	31	1726EST			0	0	10K		Thunderstorm Wind
Montgomery County Charleston	31	1728EST			0	0	6K		Thunderstorm Wind
Fulton County Gloversville	31	1730EST			0	0	12K		Thunderstorm Wind
Montgomery County Amsterdam	31	1730EST			0	0	16K		Thunderstorm Wind
Schoharie County Richmondville	31	1735EST			0	0	20K		Thunderstorm Wind
Schoharie County North Blenheim	31	1745EST			0	0			Hail (0.75)
Schoharie County Breakabeen	31	1747EST			0	0	15K		Thunderstorm Wind
Schenectady County Duanesburg	31	1800EST			0	0	7K		Thunderstorm Wind
Albany County Clarksville	31	1808EST			0	0	3K		Thunderstorm Wind
Saratoga County Mechanicville	31	1808EST			0	0	4K		Thunderstorm Wind
Albany County New Scotland	31	1811EST			0	0	3K		Thunderstorm Wind
Washington County White Creek	31	1812EST			0	0	5K		Hail (1.75)
Rensselaer County 1.5 NNW East Schodack to 3.4 ENE Millers Corner	31	1822EST 1832EST	8	200	0	0	175K		Tornado (F2)
Albany County New Scotland	31	1830EST			0	0	6K		Thunderstorm Wind
Greene County Greenville	31	1833EST			0	0	2K		Thunderstorm Wind
Schoharie County Schoharie	31	1835EST			0	0	15K		Thunderstorm Wind
Washington County Greenwich	31	1835EST			0	0	8K		Thunderstorm Wind
Greene County New Baltimore	31	1840EST			0	0	50K		Thunderstorm Wind
Rensselaer County Stephentown	31	1842EST			0	0			Hail (0.75)
Greene County Catskill	31	1845EST			0	0			Hail (0.75)
Ulster County Saugerties	31	1900EST			0	0	12K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
Greene County Catskill	31	1927EST			0	0	4K		Hail (1.00)
Columbia County Hillsdale	31	1930EST			0	0	4K		Thunderstorm Wind
Columbia County Copake	31	2000EST			0	0	6K		Thunderstorm Wind
Dutchess County Red Hook	31	2000EST			0	0	8K		Thunderstorm Wind
Ulster County Gardiner	31	2000EST			0	0	15K		Thunderstorm Wind
Dutchess County Rhinebeck	31	2010EST			0	0	6K		Thunderstorm Wind
Dutchess County Clinton Corners	31	2025EST			0	0	7K		Thunderstorm Wind
Dutchess County Stanfordville	31	2040EST			0	0	6K		Thunderstorm Wind
Dutchess County Wappingers Falls	31	2055EST			0	0	8K		Thunderstorm Wind

During the morning hours of May 31, a strong low pressure system over the upper Great Lakes pushed a warm front across eastern New York and western New England. This set the stage for a major severe weather outbreak in eastern New York. In this highly sheared environment several lines of severe thunderstorms formed ahead of an approaching cold front. This resulted in three tornadoes and severe thunderstorm damage in every county. The most significant tornado occurred in Saratoga County and northern Rensselaer County. This tornado touched down at Ushers Road in the Town of Halfmoon and moved due east into the City of Mechanicville. Here, the tornado intensified to an F3 and destroyed the DiSiena Furniture Company. The tornado tracked over Viall Hill where several housing developments were devastated. It continued east into the Riverside area in the Town of Stillwater, where many homes, businesses and several warehouses including De Crescente Distributing Company were destroyed or heavily damaged. The tornado then crossed the Hudson River into Rensselaer County and decreased to an F2. The tornado tracked across the Town of Schaghticoke and just brushed the Village of Schaghticoke to the north. Czub Grain Farm on Verbeck Avenue was heavily damaged. It then followed the Hoosic River as it crossed the Village of Valley Falls and into the northern portion of the Town of Pittstown to Millertown. At this point the track became discontinuous and the intensity decreased to an F1. In the Town of Hoosick the path became continuous again and increased to an F2. Several farms received extensive damage including Lukeland Dairy Farm where a 60 ton silo and barn were leveled. The tornado then tracked from extreme northeast Rensselaer County to Bennington County in southern Vermont where it quickly decreased to an F1 after crossing the border. Governor Pataki declared a State of Emergency in Saratoga and Rensselaer Counties. The National Guard was called in by the Governor to assist in the clean up. In Saratoga County approximately 55 homes were destroyed and 230 were damaged. In Rensselaer County approximately 50 to 60 homes and businesses were damaged or destroyed. Power was not restored to parts of this region for three to four days. Approximately 70 injuries occurred with this tornado but no one was killed. Another tornado tracked across southern Rensselaer County. This tornado first touched down on Palmer Road about two miles east of Interstate 90 in the Town of Schodack. The tornado moved due east and passed just south of North Schodack then tracked east northeast to Millers Corners on the south shore of Burden Lake. The damage path continued in this direction to Pike Pond before it dissipated at Alps Mountain. This tornado destroyed three barns, damaged several homes and produced extensive tree damage along its path. The last tornado tracked across the Albany International Airport. It began southwest of the airport about one-half mile west of Memory Gardens Cemetery. The damage path continued east northeast to the Albany ASOS unit where an 82 mile an hour gust was reported. Next it tracked near the Air National Guard facility at the Albany Airport before it crossed Interstate 87 and dissipated. The most widespread damage occurred near the Hilton Hotel where several trees were uprooted or sheared off. At Easton in Washington County, a microburst producing winds of 100 miles an hour took the roof off the fire house and leveled a barn after it was carried 60 yards. South of the Village of Herkimer in Herkimer County, a powerful downburst took the roof off a T hangar at a small private airport and damaged two airplanes. A couple of out buildings and a small trailer office were also rolled off their foundations. The severe weather caused widespread power outages across all of eastern New York. The damaging winds downed power lines, power poles and trees in many locations. Structural damage occurred to several homes and garages due to downed trees. Damage to crops was also quite extensive especially in the mid Hudson Valley and Capital District. Resources from the State Department of Agriculture and Markets were made available to many counties in this region. Approximately 25 cows were killed across the area due to either electrocution or collapsed barns.

NEW YORK, North

Essex County Newcomb	20	1320EST			0	0	5K		Thunderstorm Wind
A weather disturbance moved across southern Canada during Wednesday May 20th. The associated frontal systems triggered afternoon thunderstorms, a few of which were accompanied by strong winds and hail. In particular, trees were blown down in Newcomb, New York around 120 PM EST.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, North									
Clinton County Chazy	20	1345EST			0	0			Hail (0.75)
Clinton County Mooers	20	1405EST			0	0	5K		Thunderstorm Wind
A weather disturbance moved across southern Canada during Wednesday May 20th. The associated frontal systems triggered afternoon thunderstorms, a few of which were accompanied by strong winds and hail. In particular, Hail 3/4 inch in diameter was reported in Chazy while trees were blown down by thunderstorm winds in Mooers.									
Franklin County Bangor	29	1100EST 1105EST			0	0	1K		Thunderstorm Wind
Franklin County Burke	29	1100EST 1105EST			0	0	1K		Thunderstorm Wind
Franklin County Malone	29	1100EST 1105EST			0	0	5K		Thunderstorm Wind
A cold front moved southeast across northern New York Friday afternoon (May 29th) and night. Thunderstorms preceded the passage of the front. Some storms were accompanied by strong winds and Very heavy rain. In particular, trees and power lines were blown down in the New York localities of Malone, Burke and Bangor.									
Clinton County Mooers	29	1125EST			0	0	5K		Thunderstorm Wind
A cold front moved southeast across northern New York during Friday afternoon and night (May 29th). Thunderstorms preceded this front and a few were accompanied by strong winds and very heavy rain. In particular, trees and power lines were blown down in the New York town of Mooers.									
Franklin County Paul Smiths	29	1354EST			0	0	1K		Thunderstorm Wind
A cold front moved southeast across northern New York during Friday, May 29th. Thunderstorms developed ahead of it and a few were accompanied by strong winds and very heavy rain. In Paul Smiths, New York trees were blown down.									
St. Lawrence County Cranberry Lake	31	1425EST			0	0	1K		Thunderstorm Wind
St. Lawrence County Starlake	31	1425EST			0	0	1K		Thunderstorm Wind
An area of strong low pressure moved across southern Canada during Sunday, May 31st. Thunderstorms and showers moved across the county. A few thunderstorms were accompanied by strong winds and very heavy rain. In particular, numerous trees were blown down and power lines were blown down during the early afternoon in the New York towns of Starlake and Cranberry Lake.									
Essex County Ausable Forks	31	1500EST			0	0			Tstm Wind/Hail
An area of strong low pressure moved across southern Canada during Sunday, May 31st. Thunderstorms and showers with gusty winds, small hail and very heavy rain moved across the county. Marble sized hail was reported in Ausable Forks around 3 PM EST.									
NYZ026									
Northern St. Lawrence									
	31	1500EST 1930EST			0	0	5K		High Wind
Gradient high winds were reported across the northern St. Lawrence Valley during the afternoon and evening of Sunday, May 31st. Winds blew in excess of 50 knots (58 mph) at Massena, New York and in excess of 45 knots (52 mph) at Ogdensburg. These winds were in response to a strong low pressure system moving across southern Canada.									
NEW YORK, West									
Genesee County Batavia	04	1710EST			0	0	7K		Hail (1.25)
Genesee County Bergen	04	1839EST			0	0	3K		Hail (0.75)
A localized thunderstorm dropped three quarters of an inch of rain in less than an hour and inch and a quarter hail across the county. The hail accumulated several inches on the ground and piles of it could still be seen hours later.									
Erie County Clarence	06	1730EST			0	1			Lightning
Erie County Clarence	06	1750EST 1950EST			0	0	50K		Flash Flood
Heavy thunderstorms caused flash flooding over the northern suburbs of Buffalo during the evening hours. Several basements were									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, West									
flooded and roads were closed because of the flood waters. A 46 year old delivery man was struck by lightning and was only slightly injured.									
Erie County Wanakah	19	1938EST			0	0	3K		Hail (0.75)
					An isolated thunderstorm came across Lake Erie and dropped 3/4" hail as it came ashore.				
Allegany County Cuba	25	0515EST			0	0	5K		Hail (0.75)
					A thunderstorm during the early morning hours produced torrential rains and quarter-sized hail.				
Wyoming County Attica	29	1105EST			0	0	15K		Hail (1.00)
Wyoming County Gainesville	29	1115EST			0	1			Lightning
Wyoming County Warsaw	29	1120EST			0	0	20K		Thunderstorm Wind
Livingston County Avon	29	1140EST			0	0	8K		Thunderstorm Wind
Wayne County Newark	29	1140EST			0	0	5K		Hail (0.75)
Oswego County Oswego	29	1150EST			0	0	10K		Thunderstorm Wind
Wayne County Sodus	29	1210EST			0	0	28K		Thunderstorm Wind
Cayuga County Fair Haven	29	1215EST			0	0	5K		Thunderstorm Wind
Oswego County West Monroe	29	1223EST			0	0	10K		Thunderstorm Wind (G59)
Allegany County Canaseraga	29	1225EST			0	0	5K		Hail (0.75)
Lewis County Lyons Falls	29	1315EST			0	0	12K		Thunderstorm Wind
					Strong thunderstorms raced across the region during the late morning and early afternoon hours. The storms produced high winds, very heavy rain and one inch hail. The storms also caused scattered power outages throughout the counties. Most damage consisted of downed trees and power lines though in Sodus and Warsaw automobiles were damaged by falling trees. A 45 year old man was injured when he was struck by lightning while attempting to get from his tractor to his car during the storm. He was treated and released from a local hospital.				
Niagara County Lockport	31	0420EST			0	0	5K	75K	Hail (0.75)
Erie County Kenmore	31	0927EST			0	0	15K		Thunderstorm Wind
Erie County Elma	31	0930EST			0	0	12K		Thunderstorm Wind
Niagara County North Tonawanda	31	0930EST			0	0	23K		Thunderstorm Wind
Orleans County Medina	31	0945EST			0	0	10K	50K	Thunderstorm Wind
Genesee County Bergen	31	1000EST			0	0	12K		Thunderstorm Wind
Monroe County Gates Center	31	1000EST			0	0	18K		Thunderstorm Wind
Wyoming County Attica	31	1005EST			0	0	10K		Thunderstorm Wind
Monroe County Hamlin	31	1015EST			0	0	17K		Thunderstorm Wind (G69)
Monroe County Scottsville	31	1020EST			0	0	15K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, West									
Erie County									
Orchard Park	31	1030EST			0	0	12K		Thunderstorm Wind
Monroe County									
Rochester	31	1030EST			0	0	15K		Thunderstorm Wind
Livingston County									
Caledonia	31	1040EST			0	0	10K		Thunderstorm Wind
Ontario County									
Victor	31	1050EST			0	0	30K		Thunderstorm Wind
Wayne County									
Ontario	31	1050EST			0	0	15K		Thunderstorm Wind
Chautauqua County									
Ripley	31	1100EST			0	0	25K		Hail (0.75)
Jefferson County									
Watertown	31	1100EST			0	0	15K		Thunderstorm Wind
Oswego County									
Fulton	31	1115EST			0	0	10K		Thunderstorm Wind
Erie County									
Evans Center	31	1130EST			0	0	10K		Thunderstorm Wind
Oswego County									
Caughdenoy	31	1130EST			0	0	8K		Thunderstorm Wind
Lewis County									
Castorland	31	1140EST			0	0	8K		Thunderstorm Wind
Cayuga County									
Conquest	31	1145EST			0	0	10K		Thunderstorm Wind
Cattaraugus County									
Perrysburg	31	1200EST			0	0	15K		Thunderstorm Wind
Allegany County									
Scio	31	1230EST			0	0	20K		Thunderstorm Wind
Cattaraugus County									
East Otto	31	1230EST			0	0	5K		Hail (0.75)
Livingston County									
Dansville	31	1315EST			0	0	11K		Thunderstorm Wind
Livingston County									
Conesus	31	1345EST			0	0	15K		Thunderstorm Wind
Wyoming County									
Arcade	31	1345EST			0	0	10K		Thunderstorm Wind
Cattaraugus County									
South Dayton	31	1455EST			0	0	11K		Thunderstorm Wind
Oswego County									
Hannibal	31	1510EST			0	0	13K		Thunderstorm Wind
Wayne County									
Ontario	31	1529EST			0	0	15K		Thunderstorm Wind (G67)
<p>An outbreak of severe storms began across the region during the early morning hours. The storms were particularly dangerous because of the speed that they were moving across the region--sometimes in excess of 60 mph. Most of the damage associated with these storms occurred from a combination of high winds and hail. There were reports of numerous trees and wires down as well as power outages. Tens of thousands were without power. In Niagara and Orleans counties, about 50% of the apple crop was damaged by the pelting hail stones. Several flights were delayed or cancelled at the Buffalo and Rochester airports due to the storms. In Pultneyville, Wayne county, a wooden pavilion was collapsed by the winds.</p>									
Niagara County									
Niagara Falls	31	1530EST			0	0	25K		Hail (0.75)
Erie County									
Buffalo	31	1535EST			0	0	30K		Thunderstorm Wind (G62)
Erie County									
Lancaster	31	1545EST			0	1	15K		Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, West									
Allegany County Angelica	31	1551EST 1557EST			0	0	35K		Thunderstorm Wind
Chautauqua County Westfield	31	1555EST			0	0	25K		Thunderstorm Wind
Chautauqua County Jamestown	31	1625EST			0	0	15K		Hail (1.00)
Chautauqua County Lakewood	31	1635EST			0	0	10K		Hail (0.75)
Erie County Cheektowaga	31	1635EST			0	0	21K		Hail (1.00)
Genesee County East Pembroke	31	1645EST			0	0	15K		Thunderstorm Wind
Livingston County Caledonia	31	1645EST			0	0	18K		Thunderstorm Wind
Wyoming County Wethersfield Spgs	31	1645EST			0	0	15K		Thunderstorm Wind
Cattaraugus County Carrollton	31	1700EST			0	0	8K		Hail (0.75)
Cattaraugus County Ellicottville	31	1700EST			0	0	12K		Hail (1.50)
Chautauqua County Jamestown	31	1708EST			0	0	8K		Hail (0.75)
Chautauqua County Westfield	31	1710EST			0	0	10K		Thunderstorm Wind
Genesee County Bergen	31	1710EST			0	0	12K		Thunderstorm Wind
Allegany County Angelica	31	1730EST			0	0	20K		Thunderstorm Wind
Monroe County Henrietta	31	1745EST			0	1			Lightning
Monroe County Rochester	31	1745EST			0	0	30K		Thunderstorm Wind
Orleans County Yates Center	31	1745EST			0	0	8K		Thunderstorm Wind
Chautauqua County Jamestown	31	1926EST			0	0	10K		Thunderstorm Wind

A second round of storms for the day moved across the region during the evening hours. Again the thunderstorms produced high winds, large hail and torrential rains. Trees and power lines were downed across western New York. In the Rochester area, the power company reported 30 poles snapped by the winds and 40,000 customers without power. A woman was injured in Depew, Erie county, when a falling tree broke her leg and pelvis. Lightning hit a car travelling on the New York State Thruway--travelled through the car to a door handle--burning the arm of 16 year old female passenger. Lightning throughout the area shattered trees and set a number of fires. At Locust Hill Country Club, the nationally televised Ladies Pro Golf Association tournament was delayed four times by the storms.

Chautauqua County
Brocton

31	1605EST 1615EST	2	25	0	2	75K	15K	Tornado (F1)
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A fast moving storm produced a combination of downburst winds and a weak tornado. The initial damage from the storm was the result of downburst winds and consisted of several large trees tipped over...roots exposed...which witnesses say occurred prior to the heavy rain. A funnel was sighted about 3/4 mile into the damage path and eyewitnesses from that point on said the damage occurred after the heavy rain and hail were over and skies were beginning to brighten. Damage was sporadic along the damage path as it appears the tornado was not on the ground the entire time. There were three structures--a house, a barn and a garage--which suffered considerable damage. Several other structures sustained minor damage of siding and shingles being torn off. Most of the damage appeared to have been caused by straightline winds apparently due to the fast movement of the storm. Wind speeds were estimated around 80 mph.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, Central									
Davidson County 5 S Lexington	01	1730EST			0	0			Hail (0.75)
Forsyth County Walkertown	01	1745EST			0	0			Hail (0.75)
Guilford County Monticello	01	1748EST			0	0			Hail (0.75)
Davidson County Thomasville	01	1800EST			0	0			Hail (0.75)
Alamance County Union Ridge	01	1813EST			0	0			Hail (1.75)
Golfball size hail fell in Union Ridge, reported by Triad Skywarn.									
Alamance County Altamahaw	01	1815EST			0	0	100K		Hail (2.50)
Hail the size of tennis balls caused significant damage to 65 single family homes, 13 manufactured homes, 3 churches and 300 cars. Windows were shattered, gutters torn from homes, lawn furniture ripped to shreds, and roofs were decimated.									
Person County Bushy Fork	01	1855EST			0	0			Hail (0.75)
Halifax County Enfield	01	1920EST			0	0			Hail (0.75)
Franklin County 10 N Louisburg	01	1945EST			0	0			Hail (0.75)
Granville County Berea	01	2005EST			0	0			Hail (0.75)
Wake County Cary	03	1650EST			0	0	50K		Lightning
A large house was struck by lightning on Gold Meadow Drive in Cary. The strike caused an electrical fire that damaged most of the house. Smoke from the fire produced the most damage.									
Cumberland County Cedar Creek	04	1420EST			0	0			Hail (0.75)
Halifax County Darlington	04	1425EST			0	0			Hail (0.75)
Wayne County Pikeville	04	1448EST			0	0			Hail (0.75)
Wayne County Fremont	04	1455EST			0	0			Hail (0.75)
Wayne County 2 SE Fremont	04	1500EST			0	0			Hail (0.75)
Dime size hail occurred in Pikeville and Fremont with the same storm before it decreased in intensity.									
Wayne County Goldsboro	04	1450EST			0	0			Hail (1.75)
Golfball size hail occurred at the Holland Hill Subdivision along Highway 581 and US-70 area near Goldsboro.									
Sampson County Delway	04	1500EST			0	0			Hail (0.75)
Wilson County Wilson	04	1545EST			0	0			Hail (0.75)
Dime size hail fell in Wilson at Highway 42 and Wagner School Road.									
Edgecombe County Pinetops	04	1550EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down numerous trees in an area of Pinetops. A downburst was determined to be the cause of the damage. No structures were damaged.									
Person County Hyco	07	1610EST			0	0			Hail (1.75)
Golfball size hail fell on the south end of Hyco Lake in northwest Person county.									
Forsyth County Clemmons	07	1730EST 1735EST	2	.5	0	5	50M		Tornado (F3)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
A large tornado tore through the Waterford Subdivision of Clemmons in southwest Forsyth county. The initial touchdown was at 630 pm local time. Several homes were completely destroyed, several hundred sustained major roof, wall, and window damage. Tree damage was extensive with debris scattered for miles.									
Forsyth County Kernersville	07	1800EST			0	0			Hail (1.00)
Quarter size hail fell on the northwest side of Kernersville. This event was reported by Triad Skywarn.									
Davidson County Wallburg	07	1810EST	0.1	100	0	0	50K		Tornado (F1)
Many trees were blown on homes. Around 15 homes sustained serious damage. A service station lost most of its roof.									
Guilford County 1 SE Greensboro Arprt	07	1820EST	1.5	.1	0	0	100K		Tornado (F1)
A tornado touched down approximately 1 mile southeast of the Piedmont-Triad International Airport near Greensboro. The first damage occurred just south of West Friendly Avenue. The tornado moved to the southeast and lifted at Jamestown Road approximately 1.5 miles from its initial touchdown. Damage was rated at F1 initially and F0 at the point it rose back into the thunderstorm. This tornado was produced by the same parent storm that produced the Clemmons tornado less than an hour before this one.									
Guilford County 2 SE High Pt	07	1830EST			0	0			Hail (0.88)
Davidson County 2 NE Thomasville	07	1830EST			0	0			Thunderstorm Wind (G50)
Numerous trees were downed just northeast of Thomasville in northeast Davidson county near the Guilford and Randolph county lines. Marble size hail also occurred in the same area.									
Guilford County 10 E Climax to 11 E Climax	07	1907EST 1911EST	1.5	.1	0	0			Tornado (F1)
Randolph County 3 E Julian to 2.5 SE Julian	07	1911EST 1913EST	1	.1	0	0			Tornado (F1)
A tornado touched down in extreme southeast Guilford county and tracked to the southeast for approximately 2.5 miles. It moved into extreme northeast Randolph county before lifting about 2 miles north of Liberty. The tornado produced F1 damage. The exact path stretched from Lake Juno Road to Liberty Grove Road.									
Randolph County Archdale	07	1925EST 1935EST			0	0			Hail (0.88)
Alamance County Snow Camp	07	1925EST			0	0			Hail (0.75)
Chatham County Pittsboro	07	1930EST			0	0			Hail (0.75)
Stanly County 2 W Albemarle	07	2015EST			0	0	20K		Thunderstorm Wind (G50)
Strong thunderstorm winds associated with a downburst destroyed a new house still under construction 2 miles west of the city of Albemarle. There were also numerous reports of pea to marble size hail in the same area.									
Chatham County Pittsboro	07	2019EST			0	0			Hail (1.75)
Golfball size hail fell in northern Chatham county around Pittsboro and dime size hail fell on Cary as the storm moved east-southeast into Wake county.									
Wake County Cary	07	2030EST			0	0			Hail (0.75)
Wake County Fuquay Spgs	07	2045EST			0	0			Hail (0.75)
Dime size hail fell in downtown Fuquay-Varina. The report came from Skywarn.									
Johnston County 2 NW Clayton	07	2048EST			0	0			Hail (1.00)
Lee County 7 NE Sanford	07	2105EST 2108EST			0	0			Thunderstorm Wind (G58)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, Central									
Thunderstorm wind damage occurred in rural northeast Lee county on Deep River Road near US-1. This location was about 7 miles northeast of Sanford. Numerous trees were downed in a 1/2 mile path that was only 25 to 50 yards wide. This was a report from a Skywarn Observer and county EM officials surveyed the damage.									
Hoke County 12 NW Raeford	07	2135EST			0	0			Hail (0.75)
Forsyth County Belews Creek	08	0900EST			0	0			Hail (0.75)
Vance County 5 N Henderson	08	1059EST			0	0			Hail (1.75)
Granville County Oxford	08	1115EST			0	0			Hail (0.75)
Vance County 2 W Henderson	08	1116EST			0	0			Hail (0.75)
Warren County Warrenton	08	1135EST			0	0			Hail (0.75)
Warren County Norlina	08	1155EST			0	0			Hail (0.75)
Warren County Elberon	08	1206EST			0	0			Hail (0.75)
Halifax County Airlie	08	1234EST			0	0			Hail (0.75)
Halifax County 4 W Roanoke Rapids	08	1245EST			0	0			Hail (0.88)
Edgecombe County Leggett	08	1258EST			0	0			Hail (1.00)
Halifax County Scotland Neck	08	1330EST			0	0			Hail (1.75)
Wilson County Lucama	08	1430EST			0	0			Hail (1.50)
Wilson County Black Creek	08	1445EST			0	0			Hail (1.75)
Wayne County Saulston to Mt Olive	08	1445EST			0	0			Hail (0.75)
Sampson County Butlers Xrds	08	1450EST			0	0			Hail (1.00)
Person County Bethel Hill	08	1500EST			0	0			Hail (0.75)
Granville County Providence	08	1535EST			0	0			Hail (0.75)
Wake County Raleigh	08	1535EST			0	0			Hail (0.75)
Dime size hail was reported on Falls of the Neuse and Six Forks Roads in north Raleigh.									
Franklin County Louisburg	08	1605EST			0	0			Thunderstorm Wind (G50)
This was the lone report of wind damage on a day when hail was the primary cause of severe weather. This wind event knocked down 10 to 15 large trees in Louisburg and was reported by the Louisburg police. Hail was reported to be marble sized.									
Harnett County Anderson Creek	08	1628EST			0	0			Hail (1.00)
Cumberland County Spring Lake	08	1640EST			0	0			Hail (1.00)
Hail the size of quarters fell in the Spring Lake community of northwest Cumberland county. Blinding rain also accompanied the storm reducing visibilities to near zero for several minutes.									
Cumberland County Fayetteville	08	1707EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Cumberland County Eastover	08	1711EST			0	0			Hail (0.75)
Johnston County Four Oaks	08	1715EST			0	0			Hail (0.75)
Harnett County 7 S Lillington	08	1730EST			0	0			Hail (0.75)
Wayne County Grantham	08	1741EST			0	0			Hail (0.75)
Granville County 6 NW Oxford	16	2348EST			0	0			Hail (0.88)
Guilford County Greensboro	20	1455EST			0	0			Hail (1.75)
Guilford County Guilford	20	1515EST			0	0			Hail (1.00)
Alamance County Snow Camp	20	1520EST			0	0			Hail (0.75)
Moore County Robbins	20	1719EST			0	0			Hail (1.00)
Moore County West End	20	1752EST			0	0			Hail (1.00)
Lee County Sanford	23	0545EST			0	0			Hail (0.75)
Harnett County Anderson Creek	23	0545EST			0	0			Thunderstorm Wind (G50) A barn was destroyed and several other farm buildings were damaged. Numerous trees were also uprooted, one of which fell on a car.
Harnett County Olivia	23	0550EST			0	0			Hail (0.88)
Sampson County Mc Clam Xrds	23	0715EST			0	0			Hail (0.75)
Granville County Wilton	23	0955EST			0	0			Hail (0.75)
Cumberland County Ft Bragg	23	1100EST			0	0			Hail (0.75)
Johnston County Benson	23	1110EST			0	0			Thunderstorm Wind (G50) Several trees were downed in Benson on 210 and Mount Pleasant Road and Amelia Church Road.
Sampson County Clinton	23	1110EST 1115EST			0	0			Thunderstorm Wind (G50) Trees were uprooted and snapped off on the north side of Clinton.
Wayne County Grantham	23	1130EST 1135EST			0	0			Thunderstorm Wind (G50) Strong thunderstorm winds knocked down several trees in the Grantham area. Area crops in southwestern Wayne county were damaged by the strong wind.
Wayne County Mt Olive	23	1130EST			0	0	1K		Lightning Lightning struck a home in Mount Olive. The strike hit an exterior wall and knocked down bricks at the home on Indian Springs Road. No damage was reported from the interior of the home.
Wayne County Goldsboro	23	1140EST			0	0	10K		Thunderstorm Wind (G50) A severe thunderstorm produced winds that uprooted trees and tore the roof off a portion of Southern Wayne High School . Torrential rains also damaged books and furniture in the school.
Person County Bethel Hill	25	1645EST			0	0			Thunderstorm Wind (G50) Several trees were uprooted along US-501N in Bethel Hill

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Wayne County 12 WSW Goldsboro to Grantham	25	1800EST 1815EST			0	0			Hail (1.75)
			Golfball size hail fell along the Sampson and Wayne county lines in Wayne county. A short time later, dime sized hail fell in Grantham.						
Guilford County Greensboro	26	0215EST			0	0			Hail (0.75)
			UNC-G campus police reported dime sized hail						
Durham County Durham	26	0321EST			0	0			Hail (1.75)
			Golfball size hail fell 1 mile southwest of downtown Durham.						
Durham County Durham	26	0327EST			0	0			Hail (1.75)
Forsyth County Lewisville	26	1857EST			0	0			Hail (0.75)
Forsyth County Winston Salem	26	1910EST			0	0	20K		Thunderstorm Wind (G50)
			Several mobile homes were damaged by strong thunderstorm wind 2 miles north of the Davidson county line in southern Forsyth county. Trees were also uprooted and damaged in the same area.						
Davidson County Wallburg	26	1915EST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down several trees in north and northeast Davidson county. Trees were uprooted in the Wallburg area east to the Guilford county line.						
Davidson County Lexington	26	1930EST			0	0			Thunderstorm Wind (G50)
			Several trees were uprooted and snapped off in the city of Lexington.						
Randolph County Seagrove	26	2025EST			0	0			Hail (2.00)
			Numerous reports of large hail were associated with a severe storm that crossed southern Randolph county. Hen egg and quarter size hail fell in Seagrove.						
Randolph County Ramseur	26	2055EST			0	0			Hail (0.88)
Lee County Broadway	26	2150EST			0	0			Hail (0.88)
Wake County Garner	26	2210EST			0	0			Hail (0.75)
Harnett County Coats	26	2220EST			0	0			Hail (0.88)
Johnston County 5 N Benson	26	2223EST			0	0			Hail (1.75)
Johnston County 3 S Benson	26	2251EST			0	1	50K		Thunderstorm Wind (G50)
			A downburst occurred 2 to 3 miles south of Benson where 3 mobile homes and a barn were destroyed in the Woods trailer park. A swath of trees were also downed in the same area. 1 minor injury was reported.						
Scotland County Laurinburg	27	1307EST			0	0			Hail (1.75)
Hoke County Timberland	27	1500EST			0	0			Hail (0.75)
Sampson County Clinton	27	1510EST			0	0			Hail (1.75)
Sampson County Spiveys Corner	27	1550EST			0	0			Thunderstorm Wind (G50)
			Three trees were downed on Midway Elementary School Road in Spivey's Corner.						
Wayne County Goldsboro	27	1620EST			0	0			Hail (1.75)
Stanly County Millingport	27	1715EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Montgomery County Uwharrie to Wadeville	27	1800EST 1815EST			0	0			Hail (1.75)
									Golfball size hail fell in Wadesville. Also, numerous large trees were blown down in the Uwharrie National Forest.
Richmond County Ex Way	27	1820EST			0	0			Thunderstorm Wind (G50)
									Numerous trees and power lines were reported down in the Ex Way community.
Montgomery County Troy to Pekin	27	1825EST 1835EST			0	0	25K		Hail (4.50)
									Softball size hail fell just west of Pekin in Montgomery county. At least one car was destroyed with others sustaining large dents. Several trees were also downed throughout the county.
Moore County Carthage	27	1835EST			0	0			Hail (1.00)
									Quarter size hail along with strong winds hit portions of Moore county causing several trees to fall.
Moore County Eastwood	27	1840EST			0	0			Hail (1.00)
Wake County Garner	27	2100EST			0	0			Hail (0.75)
<u>NORTH CAROLINA, Central Coastal</u>									
Lenoir County 2 NW Kinston	04	1542EST			0	0			Funnel Cloud
									Possible funnel cloud Dobbs Rd. near the airport.
Jones County Hargetts	04	1604EST	0.2	50	0	0			Tornado (F0)
									Brief touchdown at intersection of Highways 41 and 258. No damage.
Duplin County 2 NW Chinquapin	04	1605EST			0	0			Funnel Cloud
Jones County 1 W Wise Fork	04	1622EST	0.2	50	0	0			Tornado (F0)
									Some tree damage.
Duplin County Fountain	04	1630EST			0	0			Hail (1.00)
Onslow County 10 SW Jacksonville	04	1647EST			0	0			Hail (0.75)
Onslow County Jacksonville	04	1648EST			0	0			Hail (0.75)
Craven County New Bern	04	1700EST			0	0			Hail (0.75)
Craven County New Bern	04	1705EST			0	0			Hail (1.00)
Jones County Maysville	04	1713EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Onslow County Sneads Ferry	04	1734EST			0	0			Hail (0.75)
Beaufort County Pamlico Beach	04	1745EST			0	0	20K		Thunderstorm Wind (G51)
									Tree fell on a trailer and house, porch blown off a trailer.
Carteret County Salter Path	04	1748EST			0	0			Waterspout
									Waterspout off Indian Beach.
Carteret County Morehead City	04	1755EST			0	0			Waterspout
									Waterspout on Newport River.
Carteret County 5 W Ocean	04	1903EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central Coastal</u>									
Carteret County Newport	04	1925EST			0	0			Hail (0.88)
Carteret County Newport	05	0100EST 0300EST			0	0			Flash Flood
Craven County Havelock	05	0100EST 0300EST			0	0			Flash Flood
Pamlico County Arapahoe	05	0100EST 0300EST			0	0			Flash Flood
A slow moving cold front and a nearly stationary low pressure aloft combined to produce severe weather and heavy rains across east central North Carolina. In terms of flash flooding, the hardest hit areas were western Carteret, southern Craven and Pamlico counties, where widespread poor drainage flooding and deep ponding of water on roads occurred. Havelock recorded 6.00" of rain, Newport 5.10", and Cherry Point 4.07".									
Lenoir County 1 W Kinston	08	1512EST			0	0			Hail (0.75)
Lenoir County Kinston	08	1519EST			0	0			Hail (1.00)
Lenoir County 1 S Kinston	08	1527EST 1529EST			0	0			Hail (1.00)
Lenoir County La Grange	08	1529EST			0	0			Hail (1.75)
Pitt County Greenville	08	1531EST			0	0			Hail (0.75)
Pitt County Grimesland	08	1551EST			0	0			Hail (0.75)
Greene County Snow Hill	08	1555EST			0	0			Hail (1.00)
Hyde County New Holland	08	1649EST			0	0			Funnel Cloud
Funnel cloud over Lake Mattamuskeet.									
Hyde County 2 N New Holland	08	1649EST			0	0			Hail (1.00)
Hyde County Scranton	08	1653EST			0	0			Hail (1.00)
Hyde County Engelhard	08	1703EST			0	0			Hail (1.00)
Duplin County Albertson	08	1828EST			0	0			Hail (0.75)
Pitt County Calico	08	1844EST			0	0			Hail (1.00)
Craven County 6 N Vanceboro	08	1852EST			0	0			Hail (1.75)
Onslow County Holly Ridge	08	1935EST			0	0			Hail (0.75)
Beaufort County Bayview	17	1100EST			0	0			Hail (0.75)
Carteret County 3 N Beaufort	17	1105EST			0	0			Hail (1.00)
Duplin County Chinquapin	17	1530EST			0	0			Hail (1.25)
Duplin County Chinquapin	17	1540EST			0	0			Thunderstorm Wind (G50)
Two large pine trees blown down.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central Coastal</u>									
Onslow County Jacksonville	17	1600EST 1800EST			0	0			Flash Flood
		Six inches of rain recorded at Camp Lejeune between 3 and 5 pm. Cars were stalled in water at the camp. Highway 17 was closed for awhile in Jacksonville. Flooding reported in Hubert.							
Duplin County Faison	23	1140EST			0	0			Thunderstorm Wind (G52)
Lenoir County La Grange	23	1145EST			0	0			Thunderstorm Wind (G59)
Greene County Hookerton	23	1152EST			0	0			Thunderstorm Wind (G61)
Duplin County Kenansville	23	1155EST			0	0	25K		Thunderstorm Wind
		Trees down throughout county...damage to houses and boats.							
Lenoir County Hugo	23	1155EST			0	0	150K		Thunderstorm Wind (G61)
		12 homes damaged.							
Pitt County Grifton	23	1158EST			0	0	20K		Thunderstorm Wind (G61)
		2 homes damaged.							
Craven County Cove City	23	1159EST			0	0			Thunderstorm Wind (G61)
Onslow County Richlands	23	1202EST			0	0			Thunderstorm Wind (G59)
		Trees down							
Craven County Clark	23	1205EST			0	0			Thunderstorm Wind (G61)
Craven County James City	23	1210EST			0	0			Thunderstorm Wind (G52)
Jones County Maysville	23	1215EST			0	0			Thunderstorm Wind (G61)
Beaufort County Aurora	23	1220EST			0	0			Thunderstorm Wind (G61)
		Trees and powerlines down.							
Pamlico County Reelsboro	23	1220EST			0	0			Thunderstorm Wind (G61)
		Trees down.							
Craven County Bridgeton	23	1223EST			0	0	15K		Thunderstorm Wind
		Several homes damaged.							
Craven County Havelock	23	1230EST			0	0	20K		Thunderstorm Wind
		Trees down on houses.							
Carteret County Newport	23	1237EST			0	0			Thunderstorm Wind (G50)
Onslow County Swansboro	23	1240EST			0	0	25K		Thunderstorm Wind
		Roof blown off commercial building.							
Carteret County Davis	23	1300EST			1	0			Lightning
		Man struck by lightning died 3 days later. M68OU							
Carteret County Otway	23	1304EST 1305EST			0	0			Thunderstorm Wind (G59)
		Trees down.							
Carteret County Atlantic Beach	23	1305EST			0	2			Lightning

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

NORTH CAROLINA, Central Coastal

A classic bow echo moved through eastern portion of State producing widespread wind damage. The hardest hit area was around Hugo in northern Lenoir county where 12 homes were damaged, three of which were ripped apart. Several boats capsized off Carteret county with several injuries. The bow echo evolved into a "comma head" over northern Craven and southern Beaufort counties. Most of the severe damage can be attributed to downbursts.

Greene County 5 W Snow Hill	27	0000EST			0	0	2K		Thunderstorm Wind
Storage shed destroyed, roof off shop.									
Onslow County Bear Creek	27	1332EST			0	0			Hail (0.75)
Pamlico County 2 N Grantsboro	27	1335EST			0	0			Hail (1.00)
Pamlico County Grantsboro	27	1335EST			0	0			Hail (1.75)
Onslow County Swansboro	27	1340EST			0	0			Hail (0.75)
Pamlico County 1 N Bayboro	27	1345EST			0	0			Hail (0.75)
Duplin County 6 S Kenansville	27	1400EST			0	0			Thunderstorm Wind (G50)
Jones County 1 E Comfort	27	1419EST			0	0			Hail (0.75)
Jones County 1 E Comfort	27	1419EST			0	0			Thunderstorm Wind (G61)
Hyde County Scranton	27	1440EST			0	0			Hail (0.75)
Craven County 8 NW New Bern	27	1450EST			0	0			Thunderstorm Wind (G52)
Numerous trees down near Weyerhauser with some roads blocked.									
Dare County Nags Head	27	1700EST			0	0			Hail (1.00)
Numerous severe thunderstorms developed in warm, moist, unstable airmass ahead of an approaching cold front.									

NORTH CAROLINA, Extreme Southwest

Clay County Pinelog	07	1305EST			0	0			Hail (1.75)
Cherokee County 1.5 NW Wolf Creek to 1 SW Ranger	07	1415EST	9	100	0	0	75K	75K	Tornado (F1)
The tornadic thunderstorm moved east out of Polk County Tennessee into Cherokee County. It damaged several houses and a campground before finally dissipating.									
Cherokee County 10 N Murphy	07	1630EST			0	0			Hail (1.00)

NORTH CAROLINA, North Coastal

Northampton County Pendleton	01	2036EST			0	0	1K		Hail (1.00)
Quarter size hail damaged a car windshield.									
Northampton County 3 NW Rich Square	04	1515EST			0	0			Hail (0.88)
Hertford County Como	04	1615EST			0	0			Hail (0.88)
Currituck County Poplar Branch	05	1850EST			0	0			Hail (0.88)
Northampton County Henrico	08	1240EST			0	0			Hail (0.75)
Northampton County Margaretsville	08	1258EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, North Coastal

Northampton County Rich Square	08	1325EST			0	0			Hail (1.00)
Currituck County Moyock	08	1447EST			0	0			Hail (0.75)
Chowan County 1 N Edenton	08	1454EST			0	0			Hail (0.75)
Perquimans County Belvidere	08	1500EST			0	0			Hail (1.00)
Camden County South Mills	08	1505EST			0	0			Hail (0.75)
Northampton County Lasker	17	0820EST			0	0			Hail (0.75)
Northampton County Conway	26	0410EST			0	0			Hail (0.75)
Perquimans County Belvidere	26	0430EST			0	0	2K		Thunderstorm Wind

Few trees down.

NORTH CAROLINA, Northwest and North Central

Caswell County Prospect Hill	01	1852EST			0	0			Hail (1.75)
An isolated severe thunderstorm during the evening hours on the 1st produced hail up to golf ball size in Caswell County									
Watauga County 3 NE Blowing Rock	03	1829EST			0	0			Hail (0.75)
An isolated severe thunderstorm during the evening hours on the 3rd produced hail up to dime size hail.									
Stokes County 2 WSW Pine Hall	04	1845EST			0	0			Hail (0.88)
An isolated severe thunderstorm during the evening hours on the 4th produced hail up to nickel size.									
Caswell County 7.5 SW Leasburg to 7 SW Leasburg	07	1535EST 1537EST	0.5	50	0	2	200K		Tornado (F0)
Watauga County 2 W Blowing Rock	07	1545EST 1550EST			0	0			Hail (1.00)
Wilkes County Ferguson	07	1605EST			0	0			Hail (1.75)
Wilkes County 3.5 WSW Wilkesboro	07	1615EST			0	0	10K		Thunderstorm Wind
Yadkin County Jonesville	07	1645EST			0	0	0		Thunderstorm Wind
Surry County 1 ESE Level Cross to 3.5 E Level Cross	07	1719EST 1725EST	2.5	100	0	0	800K		Tornado (F1)
Stokes County South Portion	07	1800EST 1820EST			0	0	0		Thunderstorm Wind
Caswell County 2 SSE Providence	07	1940EST			0	0	0		Thunderstorm Wind
Caswell County 3 SSW Milton	07	1950EST			0	0	0		Thunderstorm Wind

Thunderstorms during the afternoon and evening hours on the 7th produced two tornadoes, hail up to golf ball size, and damaging winds.

A tornado formed seven and a half miles southwest of Leasburg at 1535 EST and traveled about one half mile northeast before dissipating at 1537 EST seven miles southwest of Leasburg. This tornado damaged several homes, two chicken houses, a mobile home, a carport, a business, and a rest home, knocked down trees, and injured two people.

A tornado formed one mile east southeast of Level Cross at 1719 EST and traveled east northeastward about two and a half miles

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Northwest and North Central

before dissipating three and a half miles east of Level Cross at 1725 EST. The tornado ripped shingles from a roof, blew houses off their foundation, damaged or destroyed numerous out buildings, broke out windows, and damaged trees and a mobile home and knocked down power lines. A house was damaged when two large trees fell on it.

Thunderstorm winds knocked down numerous trees across the southern portion of Stokes County and two miles south-southeast of Providence, knocked down trees and power lines three miles south-southwest of Milton, broke off tree limbs in Jonesville, and destroyed a mobile home and damaged trees three and a half miles west-southwest of Wilkesboro.

Wilkes County

3 E Moravian Falls

07 2245EST 0 0 Hail (1.75)

An isolated severe thunderstorm during the late evening hours on the 7th produced hail up to golf ball size three miles east of Moravian Falls.

NCZ006

Caswell

08 0400EST 0 0 Flood
09 1400EST

Heavy rain on the 7th and 8th resulted in minor flooding on the Dan River in the northern portion of Caswell County.

Surry County

Siloam

08 0815EST 0 0 Hail (1.75)

Stokes County

King

08 0845EST 0 0 Hail (0.88)

Rockingham County

Reidsville

08 0855EST 0 0 Hail (0.88)

Stokes County

Walnut Cove

08 0905EST 0 0 Hail (1.75)

Rockingham County

Eden

08 0920EST 0 0 Hail (0.75)

Caswell County

1 N Yanceyville

08 0925EST 0 0 Hail (0.88)

Thunderstorms during the morning hours on the 8th produced hail up to golf ball size.

Surry County

Mt Airy

16 1830EST 0 0 Hail (1.00)

Surry County

Mt Airy

16 1835EST 0 0 0 Thunderstorm Wind
1840EST

Surry County

Mt Airy

16 1839EST 0 0 450K Hail (1.75)

Surry County

Pilot Mtn

16 1900EST 0 0 Hail (1.75)
1905EST

Severe thunderstorms during the evening hours on the 16th produced hail up to golf ball size and damaging winds.

Thunderstorm winds knocked down trees and broke off tree limbs in Mount Airy.

Hail up to the size of golf balls broke out windows and damaged hundreds of vehicles in Mount Airy.

Ashe County

4 W Warrentsville

20 1815EST 0 0 Hail (0.88)

An isolated severe thunderstorm during the evening hours on the 20th produced hail up to nickel size.

Rockingham County

Madison

24 0600EST 0 0 Hail (1.00)

Rockingham County

Madison

24 0600EST 0 0 0 Thunderstorm Wind

Thunderstorms during the early morning hours on the 24th produced hail up to quarter size and damaging winds.

Thunderstorm winds knocked down trees in Madison.

Alleghany County

Piney Creek

24 0900EST 0 0 1K Lightning

A thunderstorm during the morning hours on the 24th produced damaging lightning. A lightning strike started a small fire which damaged a home in Piney Creek.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Northwest and North Central

Surry County Elkin	25	1423EST			0	0			Hail (1.75)
Wilkes County East Portion	25	1430EST 1450EST			0	0	0		Thunderstorm Wind
Wilkes County 1 E Roaring River	25	1430EST			0	0			Hail (1.50)
Surry County Siloam	25	1433EST			0	0			Hail (0.88)
Stokes County Southwest Portion	25	1455EST 1515EST			0	0	0		Thunderstorm Wind
Rockingham County Madison	25	1515EST			0	0	0		Thunderstorm Wind
Rockingham County 5 NNW Reidsville	25	1548EST			0	0	0		Thunderstorm Wind
Rockingham County Reidsville	25	1600EST			0	0	0		Thunderstorm Wind

Thunderstorm winds during the afternoon hours on the 25th produced damaging winds and hail up to golf ball size.

Thunderstorm winds knocked down trees in the southwest portion of Stokes County and in the eastern portion of Wilkes County, knocked down trees and power lines in Madison and Reidsville, and knocked down a large tree five miles north northwest of Reidsville.

Wilkes County North Wilkesboro	26	1410EST 1415EST			0	0	0		Thunderstorm Wind
Wilkes County Wilkesboro	26	1410EST 1415EST			0	0	0		Thunderstorm Wind

Thunderstorm winds during the afternoon hours on the 26th knocked down several trees in North Wilkesboro and in Wilkesboro.

Yadkin County Yadkinville	26	1830EST			0	0	0		Thunderstorm Wind
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Thunderstorm winds on the 26th knocked down numerous trees in and around Yadkinville.

Rockingham County 1 W Madison	27	0330EST			0	0			Hail (0.75)
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An isolated severe thunderstorm during the early morning hours on the 27th produced hail up to dime size.

Wilkes County Wilkesboro	27	1423EST			0	0			Hail (1.00)
Surry County Dobson	27	1550EST 1700EST			0	0			Flash Flood

Surry County Mountain Park	27	1600EST			0	0			Hail (0.88)
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Thunderstorms during the afternoon hours on the 27th produced hail up to quarter size and flash flooding.

Heavy rain resulted in the flooding and closing of a road near Dobson.

NORTH CAROLINA, South Coastal

Robeson County 8 NW Lumberton	04	1330EST 1345EST			0	0			Hail (1.00)
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Hail reported along Hwy N.C. 211

Bladen County Clarkton	04	1405EST 1415EST			0	0			Hail (1.75)
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Columbus County Bolton to Riegelwood	04	1500EST 1515EST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, South Coastal</u>									
Pender County									
Watha to 3 E Currie	04	1520EST 1535EST			0	0			Hail (1.00)
Pender County									
Watha to Maple Hill	04	1522EST 1550EST			0	0			Hail (1.00)
			Strong wind caused power outage in Maple Hill.						
Brunswick County									
1 E Shallotte	04	1540EST 1545EST			0	0			Hail (0.75)
Brunswick County									
3 W Holden Beach to 3 SE Shallotte	04	1630EST			0	0			Hail (0.75)
Brunswick County									
Leland	04	1705EST 1710EST			0	0			Hail (1.25)
New Hanover County									
Wilmington	04	1725EST 1745EST			0	0			Hail (1.25)
Pender County									
Scotts Hill	04	1735EST 1744EST			0	0			Hail (0.75)
New Hanover County									
Carolina Beach	04	1917EST 1925EST			0	0			Hail (1.75)
			A low pressure trough from the midwest collided with a sea breeze front moving west. There were many reports of hail between 1 and two inches diameter.						
Brunswick County									
Leland	07	2240EST			0	0			Thunderstorm Wind (G55)
New Hanover County									
Murraysville	07	2240EST 2245EST			0	0	2K		Hail (2.00)
			Damage to home reported.						
New Hanover County									
Wilmington	07	2248EST 2255EST	2	40	0	0	40K		Tornado (F1)
			Tornado touchdown in Gordon Woods Subdivision downed trees and damaged homes. Spotty path of downed trees crossed U.S. 17 at Alexander Rd ended before reaching Porters Neck Subdivision.						
Pender County									
Scotts Hill	07	2300EST 2305EST			0	0			Thunderstorm Wind (G60)
			Trees reported down.						
Brunswick County									
Bolivia to 10 E Bolivia	07	2320EST 2330EST			0	0			Thunderstorm Wind (G65)
			A few trees were downed from Bolivia to Old Brunswick town.						
New Hanover County									
Wilmington	07	2330EST			0	0			Thunderstorm Wind (G60)
			N.C. State Port guard reported wind gust. Thunderstorms formed in the night as an upper level disturbance met with a sea breeze boundary and remnant outflow boundaries from earlier storms. Thunderstorms with damaging winds, a tornado, and large hail resulted.						
Bladen County									
3 E Tobemory	08	1445EST 1455EST			0	0			Hail (0.75)
			Reported by lock operator, Wm O. Huske L&D, on Cape Fear River.						
Columbus County									
5 W Riegelwood	08	1855EST 1900EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, South Coastal</u>									
Pender County									
Penderlea	08	1900EST			0	0			Thunderstorm Wind (G60)
		Trees reported downed.							
New Hanover County									
Wilmington	08	1919EST 1935EST			0	0			Hail (1.25)
		Wind gust reported 62 mph at N.C. State Port, causing damage to cranes. Trees were reported downed in Windward Oaks subdivision. Hail swath extended to Long Leaf Mall on N.C. 132.							
Brunswick County									
Leland	08	1920EST 1925EST			0	0			Hail (1.00)
		A weak upper level trough approaching the coast spawned evening thunderstorm activity.							
Brunswick County									
Phoenix	11	0520EST 0545EST			0	0			Flash Flood
		Heavy rain and some flooding reported by Guard at Dupont Plant.							
New Hanover County									
Wilmington	17	0225EST 0315EST			0	0			Hail (1.00)
		With wind gust estimation of 60 mph, there were many reports of hail from downtown to North Chase subdivision.							
Pender County									
Rocky Pt	17	1635EST 1645EST			0	0			Hail (0.75)
New Hanover County									
Wilmington	17	1705EST 1710EST			0	0			Hail (0.75)
		Reported in North Chase subdivision.							
Brunswick County									
Maco	17	1720EST 1730EST			0	0			Hail (1.25)
Bladen County									
1 E Clarkton	17	1725EST 1730EST			0	0			Hail (0.75)
		Besides hail, power outage reported.							
Columbus County									
Hallsboro to Chadbourn	17	1800EST 1836EST			0	0			Hail (1.75)
		Many reports across central Columbus County describe hail sized from pennies to golf balls. Late afternoon thunderstorms caused hail as big as golf balls and a few power outages.							
Pender County									
Hampstead	23	1325EST 1330EST			0	0			Hail (1.00)
Brunswick County									
Leland	23	1400EST 1405EST			0	0			Hail (0.75)
New Hanover County									
8 E Wilmington	23	1400EST 1415EST			0	0			Hail (1.00)
New Hanover County									
Wrightsville Beach	23	1410EST 1415EST			0	0	1K		Thunderstorm Wind (G60)
		Along with quarter-size hail, winds tossed small boats on trailers and blew down fences.							
New Hanover County									
Wilmington	23	1415EST 1420EST	1.5	40	0	1	50K		Tornado (F1)
		Tornado touchdown occurred on U.S. 421, and proceeded about 1.5 miles SE to Monkey Junction at N.C. 132. Damage was spotty. A 30 foot camper trailer was tossed 150 feet into a vacant mobile home, destroying both. Roofing from another building broke through a windshield, injuring a woman. The Myrtle Grove fire house lost it's antenna tower.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, South Coastal</u>									
Pender County Rocky Pt	23	1557EST 1600EST			0	0			Hail (0.75)
New Hanover County 10 E Wilmington to Wrightsville Beach	23	1630EST 1640EST			0	0			Hail (2.00)
Afternoon thunderstorms erupted as an upper level atmospheric wave collided with a seabreeze front. A tornado and hail resulted.									
New Hanover County 3 NW Wilmington to 3 N Wilmington	27	1247EST 1258EST			0	0			Hail (1.00)
Reports from U.S. 421, and GE plant on Castle Hayne Rd. Also, trees were reported down near the GE plant and on N. College Rd.									
Brunswick County Ash	27	1255EST 1300EST			0	0	1K		Thunderstorm Wind (G60)
Large tree downed on Big Neck Rd, damage to roof on Mill Branch Rd.									
Pender County Hampstead	27	1310EST 1315EST			0	0			Thunderstorm Wind (G60)
New Hanover County 7 N Wilmington	27	1340EST			0	0			Thunderstorm Wind (G55)
Tree downed on Sidbury Rd.									
Pender County Hampstead to 4 N Burgaw	27	1345EST 1410EST			0	0	30K		Thunderstorm Wind (G60)
Trees were downed on several residences in Hampstead, and one was downed on Penderlea Highway, 4 miles north of Burgaw.									
New Hanover County Wilmington	27	1350EST 1415EST			0	0			Flash Flood
Heavy rain caused flooding at intersection of Market and Bayshore Streets. Early afternoon thunderstorms developed across the coastal counties, causing hail and downburst winds.									
Robeson County Lumber Bridge to Orrum	27	1605EST 1650EST			0	0	80K		Thunderstorm Wind (G70)
Hail up to an inch diameter fell as thunderstorms tracked southeast. Downburst winds in Orrum caused major damage to two homes, and minor damage to 8 others.									
Columbus County Chadbourn	27	1700EST 1705EST			0	0			Thunderstorm Wind (G60)
A large tree was downed across Princess Ann Road. A motorist topped a hill and hit the tree and died. Another tree landed on a house and a utility building lost its roof.									
Bladen County Dublin to White Lake	27	1705EST 1740EST			0	0	40K		Thunderstorm Wind (G60)
Thunderstorm winds downed trees onto power lines in Dublin, and in White Lake a tree fell on and destroyed a mobile home.									
Columbus County Freeman	27	1835EST 1840EST			0	0			Hail (1.00)
Columbus County Brunswick	27	1850EST			0	0			Hail (0.75)
Late afternoon and evening thunderstorms caused downburst winds and small hail.									
<u>NORTH CAROLINA, Southwest</u>									
Rowan County 5 SE Salisbury	01	1710EST			0	0			Hail (1.75)
A severe thunderstorm produced golf ball size hail southeast of Salisbury and ping-pong ball size hail in the nearby town of Rockwell.									
Mecklenburg County Charlotte	03	1330EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, Southwest									
Avery County 4 NW Newland	03	1746EST			0	0			Thunderstorm Wind (G50)
Polk County 6 N Columbus	03	2210EST			0	0			Hail (0.75) A severe thunderstorm downed a few trees on the southeast side of Charlotte during the afternoon. Other isolated severe thunderstorms downed a of couple trees in Avery county and produced dime size hail in Polk county in the early and late evening.
Madison County Big Laurel	07	1458EST			0	0			Hail (0.75)
Avery County 4 SW Newland	07	1503EST			0	0			Hail (0.88)
Madison County Big Laurel	07	1525EST			0	0			Hail (0.88)
Madison County 13 NE Marshall	07	1525EST			0	0			Hail (1.75)
Yancey County Burnsville	07	1527EST			0	0			Hail (1.75)
Madison County Spring Creek	07	1535EST			0	0			Hail (1.75)
Madison County Spring Creek	07	1535EST 1537EST	1.3	50	0	0			Tornado (F1) A tornado pulled a roof partly off a house and damaged three other houses. Debris from the houses was found about a half mile away on another ridge. Numerous trees were blown down through 4:37 pm EDT.
Yancey County Burnsville	07	1535EST			0	0			Thunderstorm Wind (G50)
Avery County 3 NE Linville	07	1550EST			0	0			Hail (0.75)
Avery County 3 NE Linville	07	1550EST			0	0			Thunderstorm Wind (G50)
Madison County Marshall	07	1550EST			0	0			Hail (0.75)
Alexander County Hiddenite	07	1555EST			0	0			Thunderstorm Wind (G50)
Madison County 5 S Marshall	07	1608EST			0	0			Hail (1.00)
Alexander County 2 N Hiddenite to 2 E Smiths Store	07	1615EST 1625EST	5	300	0	0	425K		Tornado (F0) A weak tornado travelled for 5 miles on the ground in eastern Alexander county before crossing into Iredell county. Damage was mainly confined to trees and outbuildings.
Buncombe County Barnardsville	07	1615EST			0	0			Hail (1.75)
Graham County Robbinsville	07	1625EST			0	0			Hail (1.00)
Iredell County 4 S Love Valley to 4 SSE Love Valley	07	1625EST 1631EST	3	1320	0	0	100K		Tornado (F1) A fairly wide, but weak tornado crossed the border from Alexander county and travelled east to NC Highway 115. Trees, poultry houses, and various other structures sustained damage.
Caldwell County Dudley Shoals to 4 E Dudley Shoals	07	1649EST 1703EST	4	1320	0	2	1.1M		Tornado (F4) A violent, F4 tornado touched down near Dudley Shoals then moved east-southeast cutting a winding path through valleys, to the Alexander county border. The damage path was 100 yards wide on average, but reached a width of 3/4 of a mile at times. One well-constructed home was totally destroyed, other homes were damaged, and many mobile homes sustained damage or were destroyed.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, Southwest									
Iredell County 2 N Harmony to 3 E Harmony	07	1650EST 1655EST	3	440	0	0	1M		Tornado (F1)
									An F1 tornado cut a path from just north of Harmony to near the Davie county line, but caused substantial damage. Forty-six houses and 6 poultry houses were damaged with one poultry house destroyed. Several barns were damaged as well and numerous trees were downed.
McDowell County Glenwood	07	1655EST 1703EST	3.7	880	0	0	482K		Tornado (F2)
									Another supercell which tracked across the mountains spawned a tornado that travelled through a portion of Glenwood. Several homes and mobiles sustained damage or were destroyed.
Alexander County 2 WNW Bethlehem to Millersville	07	1703EST 1717EST	10	200	0	0	450K		Tornado (F1)
									A tornado continued its track from Caldwell county through the southern part of Alexander county, before dissipating near Millersville. Homes in the tornado's path were damaged and mobile homes were either damaged or destroyed.
Burke County 10 SW Morganton	07	1710EST			0	0			Hail (1.00)
Alexander County Bethlehem	07	1713EST			0	0			Hail (0.75)
Davie County 1 E Farmington to 6 E Farmington	07	1715EST 1721EST	5	100	0	0			Tornado (F0)
									The same supercell thunderstorm that produced a tornado in northern Iredell county spawned another tornado, this time a little weaker, in eastern Davie county. The tornado damaged trees and outbuildings before lifting about one mile from the border with Forsyth county.
Burke County Morganton	07	1717EST			0	0			Hail (1.00)
Burke County 10 W Morganton	07	1730EST 1737EST			0	0			Hail (1.50)
Alexander County Taylorsville	07	1737EST			0	0			Hail (1.00)
Burke County 10 W Morganton	07	1745EST			0	0			Hail (1.50)
Lincoln County 1 NW Vale to 1 N Vale	07	1749EST 1753EST	2	440	0	0	212K		Tornado (F2)
									The same supercell that produced the tornado in McDowell county spawned a strong tornado in the Vale and Cat Square area. Four homes were destroyed, 50 homes were damaged, a church roof was partially blown off and numerous trees were downed.
Buncombe County Barnardsville	07	1750EST			0	0			Hail (1.75)
Catawba County 3 SW Plateau to Maiden	07	1750EST 1800EST			0	0			Hail (1.75)
									A swath of golf ball size hail fell in southern Caldwell county, just to the north of the tornado track in northern Lincoln county.
Lincoln County Denver to 5 ESE Denver	07	1825EST 1845EST	5	50	0	0	20K		Tornado (F0)
									A weak tornado developed once again from the same supercell that produced the tornado earlier near Vale. The tornado tracked east-southeast from Denver and became a waterspout as it crossed Lake Norman and moved into Mecklenburg county. Trees and power lines were downed with some falling on homes.
Rowan County Woodleaf	07	1836EST			0	0			Hail (0.75)
Buncombe County Barnardsville	07	1845EST			0	0			Hail (1.75)
Mecklenburg County 6 WNW Cornelius to Cornelius	07	1845EST 1858EST	6	50	0	0	50K		Tornado (F0)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Southwest

A waterspout/tornado crossed Lake Norman from Lincoln county and moved through Cornelius. The roof of a grocery store was damaged and debris from the store damaged cars and other buildings across the street at a dealership.

Iredell County Mooreville	07	1853EST			0	0			Hail (0.75)
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Rowan County 10 W Kannapolis	07	1900EST			0	0			Hail (2.75)
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Cabarrus County 10 W Kannapolis	07	1904EST			0	0			Hail (2.75)
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Cabarrus County 5 NW Concord	07	1910EST			0	0			Hail (1.75)
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Rowan County Kannapolis	07	1910EST			0	0			Hail (4.50)
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Softball size hail, very unusual in the Southeast, fell through a roof of at least one home in Kannapolis and damaged numerous vehicles. A damage estimate was not available at the time of this writing.

Rowan County 1 N Kannapolis	07	1915EST			0	0			Hail (1.75)
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Yancey County Newdale	07	1915EST			0	1			Lightning
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Yancey County Burnsville	07	2115EST			0	0			Hail (1.00)
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Avery County 2 SW Ingalls	07	2137EST			0	0			Hail (0.88)
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Avery County 2 SE Crossnore	07	2152EST			0	0			Hail (1.00)
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Henderson County 2 E Asheville Rgnl Arpt	07	2355EST			0	0			Hail (1.00)
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Supercell thunderstorms developed in a highly sheared atmosphere in eastern Tennessee then moved east across the mountains, foothills and western piedmont of North Carolina. These long-lived, cyclic supercells produced a considerable amount of large hail and some damaging winds in the mountains. The first tornado of the day in western North Carolina occurred in Madison county. Numerous reports of hail as large as golf balls were reported from the mountains. In Madison and Yancey counties, hail covered roads. More supercell thunderstorms developed behind the previous ones and followed similar tracks. In northern Buncombe county, the town of Barnardsville had three separate severe storms cross overhead and drop hail on the ground to a depth of 3 inches. Yancey county also had 3 separate storms move across the county that accumulated hail to 6 inches in depth. The hail was still on the ground the next morning.

As the supercells moved into the foothills, they began to curve a little to the right, indicative of strong mesocyclonic circulations present. One supercell produced several tornadoes from Alexander county to Davie county. Another storm produced a tornado that tracked from western Caldwell county into south-central Alexander county. A third supercell that emerged out of the mountains in McDowell county produced several tornadoes from the southern part of that county to northern Mecklenburg county. Damage was fairly significant across western North Carolina with numerous homes either damaged or destroyed. Fortunately, no one was killed. However, 2 people were injured as a result of the violent F4 tornado in eastern Caldwell county. One person received minor injuries from a lightning strike in Yancey county later in the evening.

The storms continued to reform in eastern Tennessee until very late in the evening and still produced large hail as they crossed the border into the mountain counties of North Carolina, before weakening shortly after midnight..

Mitchell County Spruce Pine	07	2137EST			0	0			Hail (0.88)
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Cabarrus County Kannapolis	08	1445EST			0	0			Hail (0.75)
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Cabarrus County Kannapolis	08	1445EST			0	0			Thunderstorm Wind (G50)
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An isolated severe thunderstorm downed three large trees and produced grape size hail.

Graham County Fontana Vlg	21	2315EST			0	0			Thunderstorm Wind (G50)
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An isolated severe thunderstorm downed trees and power lines, causing some power outages.

Madison County Spring Creek	25	1346EST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Southwest</u>									
Burke County Morganton	25	1457EST			0	0			Hail (0.88)
Burke County Morganton	25	1457EST			0	0			Thunderstorm Wind (G52)
									An isolated severe storm in Madison county produced large hail in the early afternoon. Thunderstorms developed on the Blue Ridge and moved east into the foothills during the mid-afternoon. One storm became severe over Morganton and produced nickel size hail as well as wind that damaged a Hardee's sign and blew a tire rack over.
Rutherford County Thermal City	26	1633EST 1639EST			0	0			Hail (0.88)
McDowell County Marion	26	1643EST			0	0			Hail (0.75)
McDowell County Marion	26	1643EST 1648EST			0	0	20K		Thunderstorm Wind (G50)
Catawba County Hickory	26	1810EST			0	0			Hail (1.00)
Catawba County Hickory	26	1810EST			0	0			Thunderstorm Wind (G52)
Rutherford County Thermal City	26	1818EST 1832EST			0	0			Hail (0.88)
Catawba County 2.5 NW Plateau	26	1820EST			0	0			Thunderstorm Wind (G50)
Catawba County 2.5 SE Claremont	26	1840EST			0	0			Hail (1.00)
Catawba County 2.5 SE Claremont	26	1840EST			0	1			Thunderstorm Wind (G50)
Iredell County Troutman to Mooresville	26	1850EST 1905EST			0	0			Hail (1.50)
Iredell County Troutman to Mooresville	26	1850EST 1905EST			0	0			Thunderstorm Wind (G50)
Rutherford County Gilkey	26	1855EST			0	0			Hail (1.75)
Rutherford County Gilkey	26	1855EST			0	0			Thunderstorm Wind (G50)
Rutherford County Union Mills	26	1905EST			0	0			Hail (1.75)
Rutherford County Union Mills	26	1905EST			0	0			Thunderstorm Wind (G50)
Iredell County Troutman	26	1910EST			0	0			Thunderstorm Wind (G60)
Rowan County 8 W China Grove	26	1910EST 1925EST			0	0			Hail (1.00)
Rowan County 8 W China Grove	26	1910EST 1925EST			0	0			Thunderstorm Wind (G70)
Rowan County 2 N China Grove	26	1915EST			0	0	100K		Thunderstorm Wind (G80)
Rowan County Salisbury to 5 E Salisbury	26	1935EST 1945EST			0	0			Thunderstorm Wind (G70)

Multi-cell thunderstorms developed in a hot and humid airmass just ahead of a cold front sagging south across North Carolina during the evening of the 26th. Several storms became severe and produced widespread hail and wind damage. Hail and wind lasted

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Southwest

15-20 minutes at some locations. Numerous trees and power lines were downed, some on homes, and numerous power outages occurred. In Marion, downed trees severely damaged a mobile home. In the town of Catawba, a shed was blown apart and siding taken off a garage. A 5 year old girl was injured in her mobile home when a tree struck it.

The southern half of Iredell county and much of Rowan county seemed to be hardest hit with large swaths of damage from winds, at times as high as 70 to 90 mph. Power poles were downed along Interstate 77. Boats and docks were damaged along Lake Norman. A roof was blown off a mobile home and a deck was destroyed in Troutman. Trees were downed on homes and outbuildings near China Grove and in Salisbury, with a damage path of trees and power lines down all the way to High Rock Lake. A car was crushed by a tree and a roof was blown off a supply store north of China Grove. Funnel cloud sightings were common with the passage of the storms in these areas.

In the town of Gilkey, in Rutherford county, a storage building was blown into the woods. Four homes were damaged by fallen trees in Union Mills and windows were blown out.

Jackson County Sylva	27	1230EST			0	0			Hail (1.00)
Jackson County Sylva	27	1230EST			0	0			Thunderstorm Wind (G50)
Transylvania County Brevard	27	1323EST			0	0			Hail (1.00)
Transylvania County Brevard	27	1323EST			0	0			Thunderstorm Wind (G50)
Caldwell County 5 NW Collettsville	27	1330EST			0	0			Hail (0.75)
Caldwell County 5 NW Collettsville	27	1330EST			0	0			Thunderstorm Wind (G52)
McDowell County Marion	27	1352EST			0	0			Hail (0.75)
Catawba County Hickory	27	1500EST			0	0	5K		Lightning
Catawba County Claremont	27	1508EST			0	0			Hail (1.00)
Catawba County Newton to Conover	27	1515EST			0	0			Hail (0.75)
Iredell County 15 S Statesville	27	1546EST			0	0			Thunderstorm Wind (G52)
Iredell County Mooreville	27	1557EST			0	0			Hail (1.00)
Mecklenburg County Cornelius	27	1611EST			0	0			Thunderstorm Wind (G50)
Cabarrus County 5 N Concord	27	1643EST			0	0			Hail (0.75)

A frontal boundary in the area again provided the focus for thunderstorm development during the afternoon of the 27th. Many storms became severe across western North Carolina and produced hail ranging in size between dimes and quarters. Severe straight-line winds downed numerous trees and power lines, some on houses, in Sylva and Brevard. A few cars were damaged as well. Several trees and power lines were downed in Cornelius later in the afternoon. Lightning struck an apartment in Hickory and caused an attic fire.

Caldwell County Lenoir	30	1437EST			0	0			Hail (0.75)
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An isolated severe thunderstorm produced dime size hail.

NORTH DAKOTA, Central and West

Hettinger County 5 NW New England	13	1605MST 1620MST			0	0			Hail (0.75)
Dunn County 1 S Killdeer	13	1620MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH DAKOTA, Central and West									
Stark County 13 S Dickinson	13	1630MST			0	0			Hail (0.75)
Stark County 8 NE Richardton	13	1718MST	0.1	20	0	0			Tornado (F0)
Brief touch down. Location is also 10 northwest of Hebron.									
Morton County 2 W Glen Ullin to 1 N Glen Ullin	13	1835CST 1845CST	3	100	0	0	500K		Tornado (F1)
The tornado damage was confined to the west side of town while downburst winds and hail affected the east side. Several buildings at the airport and golf course were destroyed as well as garages and grain bins. Numerous trees and power lines were downed. The first severe weather outbreak of the season saw numerous funnel cloud, tornado and hail reports. Thunderstorms developed late in the afternoon along a warm front which extended from Dickinson to Devils Lake. Most of the storms moved northeast and produced heavy rain and pea size hail. Those storms that moved east produced the severe weather.									
Morton County 14 NW Mandan	13	1915CST 1928CST			0	0			Hail (0.75)
Oliver County 16 SE Center	13	1945CST	0.1	20	0	0			Tornado (F0)
Brief touch down									
Burleigh County 10 SE Wilton	13	2000CST 2030CST			0	0			Hail (1.75)
Oliver County 2 S Price	13	2005CST			0	0			Hail (1.00)
Burleigh County 1 SW Wilton to 5 E Wilton	13	2010CST 2030CST	6	100	0	0			Tornado (F0)
Tornado up and down along path									
Mclean County Max	13	2200CST			0	0	3K	5K	Hail (1.00)
Newspaper reported slight damage to house and a field of grain.									
Sheridan County 8 NW McClusky	14	1655CST 1710CST			0	0			Hail (1.75)
Ward County 3 W Carpio	17	1618CST	0.1	20	0	0			Tornado (F0)
Brief touch down reported by deputy.									
Renville County 5 SW Grano	17	1623CST	0.1	20	0	0			Tornado (F0)
Brief touch down reported by deputy.									
Renville County 5 W Glenburn	17	1720CST	0.1	20	0	0			Tornado (F0)
Brief touch down as seen from the Minot Air Force Base.									
Bottineau County Lansford	17	1722CST			0	0			Hail (0.75)
Ward County 10 S Minot	17	1750CST			0	0			Hail (0.75)
Mchenry County 6 SW Upham	17	1830CST 1850CST			0	0			Hail (1.75)
Mchenry County Upham	17	1900CST			0	0	40K		Thunderstorm Wind (G61)
New machine shop destroyed, equipment in shop OK.									
Mchenry County 1 N Balfour	17	1920CST	0.1	20	0	0			Tornado (F0)
Brief touch down reported by deputy.									
Mchenry County 9 NE Drake	17	1925CST			0	0			Hail (2.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Bottineau County									
Willow City	17	1930CST			0	0			Hail (0.75)
Pierce County									
Rugby	17	1945CST			0	0	4K		Hail (2.00)
Damage to car windows and house siding.									
Pierce County									
12 SW Rugby	17	1945CST			0	0			Hail (2.50)
Reported by law enforcement at Red Lake.									
Mchenry County									
9 NE Drake	17	1950CST			0	0			Hail (2.00)
Pierce County									
8 W Rugby to 6 S Rugby	17	1955CST 2013CST	10	100	0	0			Tornado (F0)
Reported by North Dakota Highway Patrol.									
Pierce County									
Barton	17	2010CST			0	0			Hail (1.75)
Pierce County									
5 NW Rugby	17	2011CST 2031CST			0	0	1K		Hail (1.25)
Wells County									
Bremen	17	2030CST			0	0	125K		Hail (2.50)
Crop damage near Bremen reported by farmer.									
Mercer County									
5 SW Stanton	27	1430MST			0	0			Hail (1.00)
Hail occurred with 44 knot wind (51 mph).									
Mclean County									
2 NW Wilton to Wilton	27	1615CST 1620CST			0	0			Hail (1.00)
Burleigh County									
Wilton to 2 SE Wilton	27	1620CST 1630CST			0	0	5K		Hail (1.00)
Damage mostly at truck stop on highway 83.									
Burleigh County									
7 SE Regan	27	1649CST			0	0			Thunderstorm Wind (G52)
Burleigh County									
1 E Wing to 6 E Wing	27	1715CST 1730CST			0	0	100K		Hail (1.25)
Total path was 10 miles long and 4 miles wide and extended from 1 mile east of Wing to 1 east of Tuttle.									
Kidder County									
5 W Tuttle to 1 E Tuttle	27	1730CST 1745CST			0	0	2K 150K		Hail (1.25)
Total path was 10 miles long and 4 miles wide and extended from 1 mile east of Wing to 1 east of Tuttle. Estimate of crop damage calculated with help of county extension office.									
Mountrail County									
8 NW Stanley	27	1808CST			0	0			Thunderstorm Wind (G50)
Stutsman County									
2 N Cleveland	27	1916CST			0	0			Hail (0.75)
Ward County									
4 NE Minot to 2 N Minot	27	1925CST			0	0			Hail (0.75)
Stutsman County									
Jamestown	27	1956CST			0	0			Thunderstorm Wind (G61)
Jamestown airport ASOS reported 49 knots (56 mph).									
Stark County									
10 W Richardton	30	0200MST 0300MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Benson County 8 SE Minnewaukan	14	0010CST			0	0			Hail (0.75)
Ramsey County 7 E Garske	14	1245CST 1300CST			0	0			Hail (0.75)
Cavalier County Langdon	14	1315CST			0	0			Hail (0.75)
Ramsey County 6 E Garske	14	1315CST			0	0			Hail (1.75)
Cavalier County Langdon	14	1357CST			0	0			Hail (0.75)
Richland County Dwight	14	2245CST The strong wind blew trees down.			0	0	0.20K		Thunderstorm Wind
Richland County 4 W Abercrombie	14	2325CST The strong wind blew several trees down.			0	0	0.20K		Thunderstorm Wind
Richland County Colfax	14	2330CST The strong wind blew several trees down.			0	0	0.20K		Thunderstorm Wind
Richland County Wahpeton	15	0000CST 2359CST			0	0	50K		Urban/Sml Stream Fld
5 to 6 inches of rain fell across portions of Richland county. On top of several days of heavy rains, lift stations could not keep up with the water, resulting in some basement flooding. Across the county, 40 roads and 20 bridges were damaged by flooding, with damages estimated at 1 million. Northern portions of the county were hit the hardest.									
Benson County Maddock	17	2043CST			0	0			Hail (1.75)
Benson County 2 E Niles	17	2100CST 2130CST			0	0			Hail (0.75)
Benson County Leeds	17	2104CST			0	0			Hail (0.75)
Ramsey County Churchs Ferry	17	2117CST			0	0			Thunderstorm Wind (G60)
Benson County 10 N Maddock	17	2125CST			0	0			Hail (0.75)
Eddy County Sheyenne	17	2125CST			0	0			Hail (1.75)
Ramsey County 5 N Churchs Ferry	17	2130CST			0	0			Hail (0.75)
Benson County Minnewaukan	17	2200CST			0	0			Hail (0.75)
Eddy County 10 N New Rockford	17	2200CST			0	0			Hail (0.75)
Ramsey County Webster	17	2205CST			0	0			Hail (0.75)
Eddy County Sheyenne	17	2225CST			0	0			Hail (0.75)
Cavalier County 2 S Alsen	27	1715CST			0	0			Hail (0.75)
Cavalier County Nekoma	27	1755CST A grain bin and several 6 inch diameter tree limbs were blown down.			0	0	5K		Thunderstorm Wind
Cavalier County Nekoma	27	1800CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH DAKOTA, East									
Cavalier County Nekoma	27	1810CST 1818CST			0	0			Hail (0.75)
Walsh County Park River	27	1810CST			0	0			Hail (0.75)
Cavalier County 6 E Nekoma	27	1815CST			0	0			Hail (1.75)
									Hail drifts up to 3 feet were reported. A car got stuck in the deep hail and had to be towed out. Trees were stripped of leaves and buildings and vehicles sustained damage. Hail remained in shady areas through the next day.
Walsh County 7 W Edinburg	27	1830CST			0	0			Hail (1.00)
Walsh County Grafton	27	1833CST			0	0			Hail (1.00)
Walsh County Grafton	27	1840CST			0	0			Hail (1.25)
Walsh County Park River	27	1850CST			0	0			Hail (1.25)
Walsh County Grafton	27	1912CST			0	0			Hail (1.00)
Walsh County 4 NW Park River	27	1920CST			0	0	2K		Thunderstorm Wind
									Several 12 inch diameter trees were blown down and a roof was damaged.
Walsh County 3 W Park River	27	1922CST			0	0	3K		Thunderstorm Wind
									A parked car was blown into a van.
Walsh County 2.5 N Pisek	27	1925CST			0	0			Hail (1.75)
Barnes County Sanborn	27	2034CST			0	0			Hail (0.75)
Ransom County 5 N Ft Ransom	27	2140CST			0	0			Hail (0.75)
Ransom County 5 W Ft Ransom	27	2140CST	0.2	25	0	0			Tornado (F0)
Cavalier County 8 E Hannah	28	1345CST			0	0			Hail (1.00)
Cavalier County Mt Carmel	28	1407CST			0	0			Hail (1.00)
Cavalier County 13 NE Langdon	28	1415CST			0	0			Hail (1.00)
Cavalier County 10 SE Mt Carmel	28	1419CST			0	0			Hail (0.75)
Cavalier County 5 NE Olga	28	1420CST 1430CST			0	0			Hail (1.75)
Pembina County 5 S Walhalla	28	1429CST			0	0			Hail (1.00)
Pembina County Concrete	28	1430CST			0	0			Hail (0.75)
Pembina County Glasston	28	1512CST			0	0			Hail (1.00)
Pembina County Drayton	28	1540CST			0	0			Hail (1.00)
Pembina County Pembina	28	1610CST			0	0	0.20K		Thunderstorm Wind
									Several trees were blown down.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, East									
Guernsey County Countywide	02 03	0350EST 1100EST			0	0	10K		Flood
Noble County Countywide	02 03	0355EST 1900EST			0	0	10K		Flood
Monroe County Countywide	02	0640EST 1800EST			0	0	5K		Flood
Coshocton County Countywide	02 05	0650EST 0900EST			0	0	10K		Flood
Muskingum County Countywide	02 03	0700EST 1200EST			0	0	5K		Flood
Tuscarawas County Countywide	02 03	1330EST 0800EST			0	0	5K		Flood
Monroe County Countywide	03	0150EST 1900EST			0	0	5K		Flood

Widespread heavy rainfall across the region dumped 2 to 4 inches causing many small streams and creeks to go out of their banks throughout a large part of east central Ohio. Several basements were also flooded.

In Guernsey County, flooding of low-lying areas was common. Some roads were flooded including Route 285 and Route 660 in Byesville.

In Noble County, Duck Creek was the first to go out of its banks and flood SR 821 and 339 south of Dexter City. Numerous county and state roads were also flooded, including SR 285N near Sarahsville, SR 260 near Summerfield, SR 146 near I77, SR 821 and 564 near Caldwell, and SR 147 near Seneca Lake. Flooding was prolonged in the southeast part of the county.

In Coshocton County, county roads were flooded in Adams and Oxford Townships. SR 79 was closed in Jefferson Township and numerous other state and county roads were flooded. SR 16 near the Muskingum County line was also flooded. The Muskingum River at Coshocton rose to 15.3 feet, 2.3 feet above its 13 foot flood stage.

In Monroe County, SR 78 west of Woodsfield was closed. Several other state and county roads were flooded, especially in the southwest part of the county.

In Muskingum County, SR 16 at Adams Mills near the Coshocton County line was flooded. Roads were closed on the east and north sides of Zanesville.

In Tuscarawas County, SR 258 between Stillwater and Weschester was flooded. CR 105 in Sandyville was flooded.

OHZ058

Guernsey 03 05	0500EST 2000EST			0	0			Flood	
Heavy rains associated with a slow moving upper low produced flooding over a large part of east central Ohio in the Muskingum River Basin. Minor flooding occurred at Cambridge, Ohio where the Wills Creek went above its 15 foot flood stage at 6 am EDT May 3rd. Wills Creek crested at 17.5 feet at Cambridge at 7 am May 4 and receded below flood stage at 9 pm May 5.									
Belmont County St Clairsville	24	1630EST			0	0		Hail (0.75)	
Monroe County 10 S Woodsfield	24	1915EST			0	0	1K	Thunderstorm Wind	
Thunderstorm winds downed a tree.									
Jefferson County Mt Pleasant	24	1930EST			0	0	2K	Thunderstorm Wind	
Thunderstorm winds downed a few trees.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, East									
Columbiana County Summitville	29	1505EST			0	0	2K		Thunderstorm Wind
									Trees were downed by thunderstorm winds onto Route 644.
Columbiana County Hanoverton	29	1505EST			0	0	2K		Thunderstorm Wind
									A small outbuilding was destroyed by thunderstorm winds.
Carroll County 3 N Augusta	29	1525EST			0	0			Hail (0.75)
Carroll County 3 N Augusta	29	1525EST			0	0	1K		Thunderstorm Wind
									A few trees were downed by thunderstorm winds.
Columbiana County 1 NE Summitville	29	1532EST			0	0			Hail (0.75)
Tuscarawas County Bolivar	29	1545EST			0	0	3K		Thunderstorm Wind
									Trees and power lines were downed by thunderstorm winds.
Carroll County Carrollton	29	1600EST			0	0	3K		Thunderstorm Wind
									Trees and power lines were downed by thunderstorm winds.
Columbiana County 1 S Salineville	29	1615EST			0	0	2K		Thunderstorm Wind
									Trees were downed by thunderstorm winds.
Jefferson County Bloomingdale	29	1705EST			0	0	2K		Thunderstorm Wind
									Large trees, downed by thunderstorm winds, were blocking roads.
Coshocton County West Lafayette	29	1731EST			0	0			Funnel Cloud
									A funnel cloud was reported.
Coshocton County Coshocton	29	1735EST			0	0	2K		Thunderstorm Wind
									Thunderstorm winds downed a few trees.
Harrison County Scio	29	1755EST			0	0	2K		Thunderstorm Wind
									Thunderstorm winds downed a tree and power lines.
Belmont County Morristown	29	1815EST			0	0			Hail (0.88)
Belmont County 4 W St Clairsville	29	1825EST			0	0			Hail (0.88)
Belmont County Shadyside	29	1845EST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds downed two trees.
Coshocton County 4 NE Blissfield	31	1645EST			0	0	3K		Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Coshocton County 5 NE Mound	31	1645EST			0	0	2K		Thunderstorm Wind
									A large tree and power lines were downed.
Carroll County Harlem Spgs	31	1650EST			0	0			Hail (1.75)
Tuscarawas County Strasburg	31	1650EST			0	0	30K		Thunderstorm Wind
									Thunderstorm winds ripped part of a roof off of a school. Trees were also downed.
Tuscarawas County Dover	31	1650EST			0	0	2K		Thunderstorm Wind
									Large trees were downed by thunderstorm winds.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, East</u>									
Jefferson County Countywide	31	1700EST 1715EST			0	0	5K		Thunderstorm Wind
			Trees and power lines were downed throughout the county.						
Tuscarawas County Mineral City	31	1700EST			0	0	3K		Thunderstorm Wind (G61)
			Large trees were downed by 70 mph thunderstorm gusts.						
Carroll County Wattsville	31	1710EST			0	0			Hail (0.75)
Belmont County Bellaire	31	1730EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed trees.						
Belmont County Colerain	31	1730EST			0	0			Hail (1.75)
Columbiana County Countywide	31	1730EST 1745EST			0	0	6K		Thunderstorm Wind
			Trees and power lines were downed by thunderstorm winds throughout the county.						
Jefferson County Countywide	31	1800EST 1820EST			0	0	10K		Thunderstorm Wind
			Trees and power lines were downed throughout the county.						
Carroll County Wattsville	31	1810EST			0	0	2K		Thunderstorm Wind
			Trees were downed.						
Belmont County Colerain	31	1830EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Tuscarawas County Zoar	31	1915EST			0	0	10K		Thunderstorm Wind
			Large trees were downed by thunderstorm winds. One tree fell onto a house, causing damage.						
Muskingum County Frazier	31	1930EST			0	0	3K		Thunderstorm Wind
			Power poles were downed by thunderstorm winds.						
Columbiana County Countywide	31	1930EST 2000EST			0	0	8K		Thunderstorm Wind
			Numerous trees were downed by thunderstorm winds throughout the county.						
Carroll County Wattsville	31	1950EST			0	0	4K		Thunderstorm Wind
			Numerous trees were downed by thunderstorm winds.						
Belmont County Colerain	31	2015EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
<u>OHIO, North</u>									
Wood County Bowling Green	01	2200EST			0	0			Flood
			Run-off from heavy thunderstorm rain earlier in the evening caused flooding along a portion of Greenburg Pike Road and it was subsequently closed.						
Summit County Akron	02	0845EST			0	0			Flood
			Heavy thunderstorm rain caused flooding and minor accidents along State Route 8.						
Stark County Canton	02	0855EST			0	0			Flood
			Heavy thunderstorm rain caused flooding of roads and streams, especially between Canton and Minerva and also in Sandy Township.						
Wyandot County Upper Sandusky	02	1914EST			0	0			Flood

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Heavy thunderstorm rain caused flooding on State Route 182 and County Roads 56 and 124.									
Richland County Shelby	03	1445EST			0	0			Flood
Heavy thunderstorm rain caused flooding of streets. Two feet of standing water accumulated in the low lying area of a local park.									
Richland County Shiloh	03	1610EST			0	0			Hail (1.00)
Wood County North Baltimore	03	1630EST			0	0			Flood
Heavy thunderstorm rain caused flooding of roads. Some county roads around Hoytville were also flooded.									
Knox County Gambier	03	1733EST			0	0			Hail (0.75)
Huron County Greenwich	03	1740EST			0	0			Flood
Heavy thunderstorm rain caused flooding of U.S. Route 224 and a few other roads in the vicinity.									
Wood County Hoytville	03	1915EST			0	0			Flood
Heavy thunderstorm rain caused continued flooding of roads.									
Ashland County Loudonville	03	1950EST			0	0			Flood
Heavy thunderstorm rain caused flooding of several roads. The flood water reached a depth of three feet on one county road.									
Ashland County Hayesville	03	1950EST			0	0	30K		Flood
Heavy thunderstorm rain caused flooding of basements and State Route 60.									
Ashland County Ashland	03	1950EST			0	0	20K		Lightning
Lightning struck and touched off a blaze at a house.									
OHZ008	Sandusky								
	04	1630EST			0	0			Flood
	06	0315EST							
The Portage River at Woodville exceeded its flood stage of nine feet and crested at ten feet at 1450 EST on 05/05/98. Flooding was confined to low lying areas along the river, including Trail Marker Park.									
Crawford County New Winchester	04	1854EST			0	0			Flood
Heavy thunderstorm rain caused flooding on State Route 98.									
Crawford County New Winchester	04	1905EST			0	0			Hail (0.75)
Stark County Alliance	19	1705EST			0	0	3K		Thunderstorm Wind
Trees were downed.									
Mahoning County Countywide	19	1708EST			0	0	5K		Thunderstorm Wind
Trees were downed, especially around Canfield and Campbell.									
Marion County La Rue	19	1955EST			0	0			Hail (0.75)
Knox County Mt Vernon	19	2015EST			0	0			Hail (1.00)
Marion County Prospect	19	2016EST			0	0			Hail (0.88)
Marion County Marion	24	1730EST			0	0			Hail (1.75)
Morrow County Fulton	24	1812EST			0	0			Hail (0.75)
Mahoning County Youngstown	29	1359EST			0	0	6K		Thunderstorm Wind
Trees and power lines were downed.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Stark County Canton	29	1400EST			0	0			Hail (0.75)
Stark County Perry Hgts	29	1500EST			0	0	2K		Thunderstorm Wind
		Windows were blown out.							
Stark County Massillion	29	1505EST			0	0	3K		Thunderstorm Wind
		Trees were downed.							
Stark County Brewster	29	1508EST			0	0	4K		Thunderstorm Wind
		Trees and power lines were downed.							
Stark County Massillion	29	1600EST			0	0	20K		Thunderstorm Wind
		Trees, large limbs and power lines were downed.							
Knox County Countywide	29	1700EST			0	0	60K		Thunderstorm Wind
		Numerous trees were downed. In Bladensburg, a shed was blown on top of a car and the roof was torn off a house.							
Ottawa County Port Clinton	31	0925EST			0	0	4K		Thunderstorm Wind
		Trees were downed.							
Ottawa County Catawba Is	31	0925EST			0	0			Thunderstorm Wind (G52)
Erie County Sandusky	31	0925EST			0	0			Hail (1.00)
		Also, three quarter inch hail fell at Cedar Point.							
Lake County Willoughby	31	1025EST			0	0			Hail (0.75)
Lake County Concord	31	1029EST			0	0			Hail (0.75)
Lake County Madison	31	1051EST			0	0			Hail (0.88)
Geauga County Chardon	31	1100EST			0	0			Hail (1.75)
Geauga County Chardon	31	1115EST			0	0	3K		Thunderstorm Wind
		Trees were downed.							
Wood County Weston	31	1400EST			0	0	2K		Thunderstorm Wind
		Trees were downed.							
Seneca County Fostoria	31	1425EST			0	0	1K		Thunderstorm Wind
		Several large limbs were downed.							
Lake County Wickliffe	31	1450EST			0	0			Hail (0.88)
Cuyahoga County Euclid	31	1454EST			0	0			Hail (0.88)
Hancock County Findlay	31	1456EST			0	0			Hail (1.75)
Hancock County Jenera	31	1458EST			0	0			Hail (1.00)
Hancock County Vanlue	31	1458EST			0	0			Hail (1.00)
Cuyahoga County Richmond Hgts	31	1500EST			0	0			Hail (1.00)
Geauga County Chesterland	31	1500EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Cuyahoga County Lyndhurst	31	1500EST			0	0	50K		Lightning
									Lightning struck two houses, knocking the chimney off one and burning the second floor of the other.
Lake County Kirtland	31	1505EST			0	0			Hail (0.75)
Lake County Painesville	31	1505EST			0	0			Thunderstorm Wind (G52)
									A wind gust was estimated at 60 miles per hour.
Seneca County New Riegel	31	1514EST			0	0			Hail (0.88)
Hancock County Arlington	31	1514EST			0	0			Hail (0.88)
Ashtabula County Conneaut	31	1530EST			0	0	5K		Thunderstorm Wind
									Trees and power lines were downed.
Seneca County Tiffin	31	1532EST			0	0			Hail (1.00)
Seneca County Attica	31	1532EST			0	0			Hail (0.88)
Ashtabula County Conneaut	31	1540EST			0	0			Hail (1.75)
Ashtabula County Colebrook	31	1540EST			0	0			Hail (1.00)
Ashtabula County Williamsfield	31	1545EST			0	0			Hail (0.75)
Knox County Mt Vernon	31	1605EST			0	0	3K		Thunderstorm Wind
									Trees were downed between Mt. Vernon and Howard.
Huron County Wakeman	31	1615EST			0	0			Hail (0.88)
Huron County Willard	31	1615EST			0	0			Thunderstorm Wind (G52)
Lorain County Sheffield Lake	31	1622EST			0	0			Hail (0.88)
Lorain County Amherst	31	1623EST			0	0			Hail (0.88)
Holmes County Millersburg	31	1625EST			0	0	2K		Thunderstorm Wind
									Trees were downed.
Lorain County Lorain	31	1628EST			0	0	5K		Thunderstorm Wind
									Trees and power lines were downed.
Lorain County Elyria	31	1630EST			0	0			Hail (0.75)
Lorain County Avon	31	1630EST			0	0			Hail (1.75)
Cuyahoga County Mayfield Hgts	31	1630EST			0	0			Hail (0.88)
Erie County Castalia	31	1632EST			0	0			Hail (0.75)
Cuyahoga County Westlake	31	1635EST			0	0			Hail (0.75)
Lorain County Amherst	31	1640EST			0	0	4K		Thunderstorm Wind
									Trees and large limbs were downed.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Ashtabula County Kelloggsville	31	1644EST			0	0			Hail (0.75)
Ashtabula County Austinburg	31	1644EST			0	0			Hail (0.75)
Cuyahoga County Cleveland	31	1646EST			0	0			Hail (0.75)
Cuyahoga County North Olmsted	31	1646EST			0	0			Hail (0.75)
Ashtabula County Ashtabula	31	1649EST			0	0			Hail (0.75)
Geauga County South Russell	31	1650EST			0	0			Hail (1.00)
Geauga County Novelty	31	1650EST			0	0			Hail (0.75)
Ashtabula County Pierpont	31	1652EST			0	0			Hail (0.75)
Geauga County Newbury	31	1653EST			0	0			Hail (0.88)
Geauga County Newbury	31	1655EST			0	0			Thunderstorm Wind (G52)
		A wind gust was estimated at 60 miles per hour.							
Lorain County Vermilion On The Lk	31	1700EST			0	0			Hail (1.00)
Cuyahoga County Cleveland	31	1700EST			0	0	6K		Thunderstorm Wind
		Trees were downed.							
Cuyahoga County Lakewood	31	1700EST			1	0	10K		Thunderstorm Wind
		A 14 year old boy was killed when struck by an electric wire that was downed when a tree was downed on two utility poles and part of a garage roof.							
		M14OU							
Lorain County Eaton Estates	31	1700EST			0	0	15K		Lightning
		A house was struck by lightning in Eaton Township.							
Lorain County Lorain	31	1705EST			0	0			Hail (0.88)
Stark County Canton	31	1705EST			0	0			Thunderstorm Wind (G52)
		A wind gust was measured at 60 miles per hour.							
Trumbull County Leavittsburg	31	1715EST			0	0	4K		Thunderstorm Wind
		At least two trees were downed, one on a pickup truck.							
Stark County Canton	31	1715EST			0	0	5K		Thunderstorm Wind
		Trees and power lines were downed.							
Lorain County Avon	31	1716EST			0	0			Hail (0.75)
Cuyahoga County Bay Vlg	31	1716EST			0	0			Hail (0.75)
Lorain County Sheffield Lake	31	1719EST			0	0			Hail (0.75)
Cuyahoga County Brooklyn	31	1720EST			0	0			Hail (0.75)
Portage County Garrettsville	31	1730EST			0	0	2K		Thunderstorm Wind
		Several large tree limbs were downed.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Stark County Paris	31	1730EST			0	0	2K		Thunderstorm Wind
									Trees and power lines were downed in Paris Township at Minerva.
Summit County Twinsburg	31	1735EST			0	0			Thunderstorm Wind (G52)
									Wind gusts were estimated at 60 miles per hour.
Cuyahoga County Euclid	31	1738EST			0	0			Hail (0.75)
Cuyahoga County Cleveland	31	1740EST			0	0			Hail (0.75)
Cuyahoga County Chagrin Falls	31	1740EST			0	0			Flood
									Heavy thunderstorm rain caused flooding on Solon Road by the Chagrin River.
Lorain County Countywide	31	1745EST			0	0	20K		Thunderstorm Wind
									Trees and power lines were downed.
Cuyahoga County Cleveland	31	1755EST			0	0	5K		Thunderstorm Wind
									Trees were downed.
Geauga County Auburn Center	31	1755EST			0	0	2K		Thunderstorm Wind
									Trees were downed.
Marion County Prospect	31	1805EST			0	0			Hail (0.75)
Marion County Marion	31	1900EST			0	0	10K		Thunderstorm Wind
									Numerous power poles were downed.
Marion County Caledonia	31	1900EST			0	0			Hail (1.00)
Richland County Lexington	31	1910EST			0	0			Hail (0.75)
Stark County Massillion	31	1915EST			0	0	2K		Thunderstorm Wind
									Trees were downed.
Stark County North Canton	31	1915EST			0	0	2K		Thunderstorm Wind
									Trees were downed.
Knox County Martinsburg	31	1930EST			0	0	2K		Thunderstorm Wind
									Trees were downed. One tree was reported downed in nearby Brandon.
OHIO, Northwest									
Allen County 1 SE Lima	03	1624EST			0	0			Hail (0.75)
Allen County Delphos	03	1630EST			0	0			Hail (0.75)
									HAIL COVERED THE GROUND
Van Wert County 2 W Scott to 2.8 WNW Haviland	03	1715EST	0.5	.1	0	0	10K		Tornado (F0)
									OLD BARN SUSTAINED MODERATE STRUCTURAL DAMAGE. GARAGE SUFFERED MINOR DAMAGE.
Paulding County 2 SW Haviland	03	1718EST			0	0			Thunderstorm Wind (G52)
Van Wert County Scott	03	1725EST			0	0			Hail (0.75)
Putnam County Gilboa	03	1741EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, Northwest</u>									
Van Wert County Willshire	19	2018EST			0	0			Hail (0.75)
Van Wert County Wren	29	1700EST			0	0			Hail (1.00)
Van Wert County Wren	29	1710EST			0	0			Thunderstorm Wind (G70)
Van Wert County Wren	29	1828EST			0	0			Thunderstorm Wind (G50)
Defiance County Hicksville	31	1300EST			0	0			Hail (0.75)
Defiance County Hicksville	31	1314EST			0	0			Hail (0.75)
Henry County Napoleon	31	1315EST			0	0	35K		Thunderstorm Wind (G60)
Defiance County Hicksville	31	1316EST			0	0			Hail (1.00)
Defiance County Hicksville	31	1329EST			0	0			Hail (1.75)
Defiance County Hicksville	31	1334EST			0	0			Thunderstorm Wind (G60)
Defiance County Defiance	31	1346EST			0	0			Hail (0.75)
Putnam County Continental	31	1404EST	0	0	0	0			Tornado (F0)
Putnam County Miller City	31	1405EST			0	0			Hail (1.75)
Defiance County Hicksville	31	1409EST			0	0			Thunderstorm Wind (G70)
Putnam County Prentiss	31	1409EST			0	0			Hail (0.75)
Putnam County Leipsic	31	1414EST			0	0			Hail (0.75)
Van Wert County Monticello	31	1454EST			0	0			Thunderstorm Wind (G60)
Allen County Lima	31	1502EST			0	0			Hail (0.75)
Allen County Elida	31	1507EST			0	0			Hail (0.88)
Van Wert County Venedocia	31	1518EST			0	0			Thunderstorm Wind (G60)
Allen County Beaverdam	31	1519EST			0	0			Hail (0.75)
<u>OHIO, Southeast</u>									
Meigs County Countywide	01 02	1900EST 0800EST			0	0	15K		Flash Flood
Rains of 2 to 3 inches fell over the course of 48 hours, from Wednesday night April 29th to Friday night May 1st. The last inch of rain fell Friday evening on the 1st. Leading Creek flooded and closed roads in the Dexter and Langsville vicinity. Little Leading Creek flooded Route 124 at Rutland. The West Branch of the Shade River flooded Route 33 around Burlingham. No dwellings were flooded.									
<u>OHZ067</u>									
Morgan	02	2000EST			0	0	5K		Flood
The Muskingum River crested at 11.6 feet at McConnelsville, just over its 11 foot flood stage. High water blocked Route 669 near Malta. No dwellings were flooded.									
Jackson County Oak Hill	21	0030EST			0	0	10K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OHIO, Southeast									
The sheriff reported trees and power lines were knocked down.									
Lawrence County Pedro	24	1648EST			0	0	40K		Hail (1.50)
Jackson County 5 SE Wellston	24	1705EST			0	0	15K		Hail (0.88)
Nickel size hail fell along Buckeye Furnace road.									
Lawrence County Ironton	24	1738EST			0	0	50K		Hail (1.00)
Washington County Marietta	24	1856EST			0	0			Hail (0.75)
Perry County 2 E New Lexington	24	1945EST			0	0	5K		Thunderstorm Wind
Jackson County 3 NW Jackson	31	1955EST			0	0	25K		Hail (1.50)
Jackson County 1 W Jackson	31	1956EST			0	0	50K		Hail (2.50)
Jackson County Jackson	31	1958EST			0	0	200K		Thunderstorm Wind
Large hail and damaging winds hit around the city of Jackson. Trees and power lines were downed, some onto homes. One tree fell on an occupied car that was stopped at a traffic light. Luckily no one was hurt. The largest hail was reported just west of town.									
OHIO, Southwest									
Pickaway County Circleville	04	1510EST 1515EST			0	0			Hail (0.75)
Greene County Xenia	07	1935EST 1940EST	0.2	30	0	0	10K		Tornado (F0)
A tornado briefly touched down ripping a roof off a home and knocking down numerous trees.									
Clark County Countywide	07	2032EST 2330EST			1	0	50K		Flood
From 2.5 to 5 inches of rain fell across Clark county with much of it falling in only a few hours. Numerous roads were flooded and people were rescued from their vehicles. A man was swept into Buck Creek and killed. The creek was 9 feet higher than normal. M201W									
Greene County Countywide	07	2115EST 2300EST			0	0			Flood
Numerous roads closed.									
Champaign County Mechanicsburg	13	1425EST 1430EST			0	0			Hail (0.75)
Madison County London	13	1526EST 1535EST			0	0			Hail (1.50)
Clark County South Vienna	13	1530EST 1535EST			0	0			Hail (1.50)
Butler County Trenton to Monroe	13	1630EST 1640EST			0	0			Hail (1.75)
Greene County 5 NW Xenia	13	1630EST 1635EST			0	0			Hail (0.75)
Fayette County Jeffersonville	13	1655EST 1700EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Clinton County Kingman	13	1702EST 1705EST			0	0			Hail (1.00)
Miami County Tipp City	13	1707EST 1710EST			0	0			Hail (0.75)
Clinton County 3 N Wilmington to Wilmington Arpt	13	1712EST 1720EST			0	0	100K		Hail (2.75)
Hail as large as baseballs occurred around Wilmington. Extensive damage occurred ranging from broken car windows to 4 airplanes at Airborne Express, which is located at the Wilmington Airport.									
Warren County South Lebanon	13	1717EST 1725EST			0	0			Hail (0.75)
Fayette County Octa	13	1718EST 1725EST			0	0			Thunderstorm Wind (G50)
A wind gust to 58 mph occurred.									
Clinton County New Vienna	13	1750EST 1755EST			0	0			Hail (2.75)
Montgomery County Huber Hgts	13	1751EST 1755EST			0	0			Hail (1.00)
Brown County Fayetteville	13	1815EST 1820EST			0	0			Hail (1.75)
Clermont County Batavia	13	1815EST 1820EST			0	0			Hail (0.75)
Highland County Hillsboro	13	1821EST 1825EST			0	0			Hail (1.75)
Clermont County Bethel	13	1835EST 1840EST			0	0			Hail (1.00)
Highland County Hillsboro	13	1854EST 1900EST			0	0			Hail (0.75)
Clinton County 6 NW Wilmington	13	1855EST 1900EST			0	0			Hail (1.00)
Highland County Hillsboro	13	1855EST 1900EST			0	0	10K		Thunderstorm Wind (G60)
Winds lifted a roof off a building. Also, trees were downed some of which fell on cars.									
Brown County Georgetown	13	1920EST 1925EST			0	0	20K		Thunderstorm Wind (G60)
Trees were downed and roofs were blown off a house and barn.									
Brown County Ripley	13	1945EST 1950EST			0	0			Hail (0.88)
Clermont County Loveland	13	2000EST 2010EST			0	0	5K		Thunderstorm Wind (G50)
Trees and power lines downed.									
Auglaize County Villa Nova	19	1820EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Mercer County Montezuma	19	1847EST 1850EST			0	0			Hail (0.75)
Auglaize County Waynesfield	19	1853EST 1858EST			0	0			Hail (0.75)
Hardin County Roundhead	19	1914EST 1920EST			0	0			Hail (0.75)
Auglaize County St Marys	19	1915EST 1920EST			0	0			Hail (0.88)
Darke County Rossburg	19	2020EST 2025EST			0	0			Hail (0.75)
Clark County Springfield	19	2039EST 2042EST			0	0			Hail (0.75)
Clark County Enon	19	2045EST 2050EST			0	0	5K		Thunderstorm Wind (G50)
			Several trees downed, one of which fell on a van.						
Butler County West Chester	19	2300EST 2315EST			0	0	750K		Lightning
			Thunderstorms moved through Butler county causing 2 house fires. Both houses were nearly completely destroyed.						
Clermont County Batavia	19	2300EST 2310EST			0	0	3K		Thunderstorm Wind (G50)
			Numerous trees downed.						
Brown County Mt Orab	19	2320EST 2325EST			0	0	3K		Thunderstorm Wind (G50)
			Numerous trees downed.						
Hamilton County Countywide	20	0008EST 0200EST			0	0			Flood
			Roads flooded, especially near Mill Creek in the northeastern part of the county.						
Montgomery County Kettering to Oakwood	20	2155EST 2205EST			0	0	15K		Thunderstorm Wind (G60)
			Trees and power lines downed. Also, a wooden baseball dugout was completely destroyed.						
Greene County Bellbrook	20	2215EST 2220EST			0	0			Hail (0.75)
Pike County Latham	20	2339EST 2345EST			0	0	3K		Thunderstorm Wind (G50)
			Trees downed.						
Scioto County Lucasville	21	0015EST 0020EST			0	0	5K		Thunderstorm Wind (G50)
			Trees and power lines downed.						
Hamilton County Mt Healthy	23	1507EST 1510EST			0	0			Hail (0.75)
Clermont County Milford	23	1536EST			0	0			Hail (1.00)
			Hail covered the ground in Milford.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Preble County									
Eaton	24	0815EST 0820EST			0	0			Hail (0.75)
Warren County									
Lebanon	24	0815EST 0820EST			0	0			Hail (0.75)
Montgomery County									
Miamisburg	24	0850EST 0855EST			0	0			Hail (1.00)
Warren County									
Springboro	24	0853EST 0900EST			0	0			Hail (0.75)
Hamilton County									
5 W Cincinnati	24	1543EST 1545EST			0	0			Hail (1.00)
Scioto County									
West Portsmouth	24	1559EST 1605EST			0	0			Hail (1.00)
Hamilton County									
Cincinnati	24	1603EST 1610EST			0	0			Hail (1.75)
Hamilton County									
Dent	24	1630EST 1635EST			0	0			Hail (0.75)
Clermont County									
Amelia	24	1712EST 1715EST			0	0			Hail (0.75)
Auglaize County									
4 S St Marys	24	2235EST 2243EST			0	0	15K		Thunderstorm Wind (G60)
									Winds downed numerous trees and knocked a roof off a barn.
Logan County									
Lakeview	29	1452EST 1455EST			0	0			Hail (0.75)
Logan County									
Rushsylvania	29	1514EST 1520EST			0	0			Hail (0.75)
Delaware County									
Ashley	29	1530EST 1535EST			0	0	2K		Thunderstorm Wind (G50)
									Trees downed.
Union County									
Marysville	29	1545EST 1550EST			0	0			Hail (0.75)
Union County									
Magnetic Spgs	29	1608EST 1612EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Franklin County									
Worthington to Westerville	29	1620EST 1640EST			0	0	10K		Thunderstorm Wind (G59)
									Winds gusted to 70 mph across the northern part of the county causing downed trees and power lines.
Darke County									
Bradford	29	1630EST 1635EST			0	0			Hail (1.00)
Delaware County									
Powell to Lewis Center	29	1630EST 1645EST			0	0	10K		Thunderstorm Wind (G59)
									Winds gusted to 70 mph downing trees and power lines.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OHIO, Southwest									
Darke County Gettysburg to Bradford	29	1635EST 1640EST			0	0	25K		Thunderstorm Wind (G60)
									High winds knocked trees and power lines down. Also, roofs were blown off mobile homes and barns.
Licking County Hartford to Alexandria	29	1700EST 1715EST			0	0	10K		Thunderstorm Wind (G59)
									Winds gusted to 70 mph causing downed trees and power lines.
Miami County Covington	29	1705EST 1710EST			0	0			Hail (0.75)
Miami County 3 N Troy	29	1715EST 1725EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Clark County Tremont City to Lawrenceville	29	1800EST 1810EST			0	0	3K		Thunderstorm Wind (G50)
									Trees downed.
Hardin County Ada to Dunkirk	31	1515EST 1525EST			0	0	3K		Thunderstorm Wind (G50)
									Trees downed.
Mercer County 7 E Celina	31	1520EST 1625EST			0	0			Hail (1.75)
Mercer County Chickasaw	31	1658EST 1700EST			0	0			Hail (0.75)
Auglaize County 5 S Wapakoneta	31	1714EST 1720EST			0	0			Hail (1.75)
Shelby County Botkins	31	1716EST 1720EST			0	0			Hail (1.50)
Logan County Belle Center	31	1741EST 1745EST			0	0			Hail (0.75)
Preble County New Paris	31	1815EST 1820EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Clinton County 7 W Wilmington	31	1825EST 1830EST	0.3	100	0	0	20K		Tornado (F1)
									A tornado briefly touched down just west of State route 380. Many trees were downed, some of which fell on top of a house causing significant damage.
Ross County Bainbridge	31	1940EST 1945EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Pike County Piketon	31	1945EST 1950EST			0	0			Hail (1.75)
Franklin County Grove City	31	1954EST 1955EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Fairfield County Pickerington	31	2000EST 2005EST			0	0			Hail (1.00)
OKLAHOMA, Eastern									
Muskogee County Ft Gibson	02	1510CST			0	0			Hail (1.00)
Wagoner County 3 SE Okay	02	1510CST			0	0			Hail (1.00)
Muskogee County 3 NE Muskogee	02	1534CST			0	0			Hail (1.00)
Cherokee County Cookson	02	1545CST			0	0			Hail (0.88)
Muskogee County Braggs	02	1548CST			0	0			Hail (0.75)
Sequoyah County Gore	02	1555CST			0	0			Hail (0.75)
Adair County Bunch	02	1600CST			0	0			Hail (0.75)
Le Flore County Poteau	02	1650CST			0	0			Hail (0.75)
		Thunderstorm wind gusts to 50 mph also reported at Poteau at 548 PM CDT (448 PM CST)							
Le Flore County Poteau Kerr Arpt	02	1650CST			0	0			Hail (2.00)
Sequoyah County 1 N Muldrow	02	1650CST			0	0			Hail (1.00)
Le Flore County Cameron	02	1651CST			0	0			Hail (0.75)
Haskell County Stigler	02	2100CST			0	0			Hail (0.88)
Le Flore County Pocola	02	2105CST			0	0			Hail (0.75)
Summary of events for May 2 1998:									
Scattered severe thunderstorms developed along a southward-moving cold front over eastcentral Oklahoma on the afternoon of May 2. During the evening, there were more severe thunderstorms that developed in southeast Oklahoma and moved eastward into westcentral Arkansas. Some of these storms produced very large hail as evidenced by hail as large as 2 inches in diameter at Poteau.									
Creek County 7 W Kellyville	05	0300CST			0	0			Hail (0.75)
		Near south side of Heyburn Lake							
Creek County 4 W Kellyville	05	0310CST			0	0			Hail (1.75)
		2 miles east of Heyburn Lake							
Okfuskee County 5 WSW Okemah	05	0310CST			0	0			Hail (0.88)
		At intersection of SH 48 and I-40							
Okfuskee County East Portion	05	0330CST 0600CST			0	0			Flash Flood
		SH 56 was covered by water 3 miles northeast of Okemah. The NWS cooperative observer in Okemah reported 3.95 inches of rain, and the Oklahoma mesonet site near Okemah reported 3.67 inches of rain. At the mesonet site, 2.71 inches of the rain fell between 345 AM CDT and 500 AM CDT, a rate of over 2 inches per hour.							
Okfuskee County Pharoah	05	0340CST			0	0			Hail (0.88)
Okfuskee County 7 E Okemah	05	0345CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Hail accumulated to depths of 1 to 2 inches									
Okmulgee County 5 N Henryetta	05	0418CST			0	0			Hail (1.00)
Okmulgee County Henryetta	05	0430CST			0	0			Hail (0.88)
Report from downtown Henryetta									
Okmulgee County Henryetta	05	0430CST			0	0	30K		Lightning
Lightning struck a TV antenna and set fire to a residence in Henryetta. The home was about a 50 percent loss.									
Mcintosh County 2 E Hitchita	05	0450CST 0530CST			0	0			Flash Flood
US Hwy 266 was under water 2 miles east of Hitchita near Gaines Creek.									
Okmulgee County Henryetta	05	0450CST 0530CST			0	0			Flash Flood
Water covered the east end of Main Street in Henryetta. The street had to be closed for a time. The NWS cooperative observer 2 miles northeast of Dewar reported 2.50 inches of rain.									
Okfuskee County Okemah	05	0500CST			0	0	0.10K		Thunderstorm Wind
Tree knocked down by thunderstorm winds									
Okfuskee County Weleetka	05	0517CST			0	0			Hail (0.88)
Pittsburg County 3 SW Mc Alester	05	0551CST			0	0			Hail (1.00)
Haskell County 1 S Mc Curtain	05	0635CST			0	0			Hail (0.75)
Pushmataha County 8 NE Moyers	05	0700CST			0	0			Hail (0.75)
Pushmataha County 8 NE Moyers	05	0700CST			0	0	40K		Lightning
Lightning set fire to and destroyed an old house									
Pushmataha County Antlers	05	0805CST			0	0			Hail (0.75)
Choctaw County 2 E Speer	05	0810CST			0	0			Hail (0.75)

Summary of events for May 5 1998:

A large complex of thunderstorms (known to meteorologists as a nocturnal MCS) formed during the early morning hours of May 5 over northcentral Oklahoma. The complex of thunderstorms then dropped to the southeast, affecting a broad area from Stillwater to Mc Alester to Antlers. As is typical with this kind of weather setup, there were reports of locally heavy rain, high winds, and numerous reports of hail as large as quarters. There were also frequent lightning strikes with these storms that set fire to a house in Pushmataha County. Overall, Okfuskee County received the worst of the storm with numerous reports of large hail and torrential, flooding rains.

Le Flore County Heavener	06	0221CST			0	0			Hail (0.88)
Le Flore County Poteau	06	0300CST 0330CST			0	0			Flash Flood

High water temporarily covered Dewey Avenue near the hospital. The NWS cooperative observer at the Poteau Water Works reported 2.14 inches of rain in the 24 hours ending at 7 AM CDT 5/6.

Summary of events for morning of May 6 1998:

Scattered thunderstorms developed over southeast Oklahoma during the early morning hours of May 6. The axis of thunderstorm activity and heaviest rainfall was just south of Interstate 40, with initial development taking place in McIntosh County and the thunderstorm emphasis shifting eastward toward Le Flore County. Over Le Flore County, the thunderstorms became severe, producing hail to the size of nickels near Heavener and torrential, flooding rainfall near Poteau.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Okfuskee County Welty	06	1600CST			0	0			Hail (0.88)
Okmulgee County 2 SW Nuyaka	06	1624CST			0	0			Hail (1.00)
Okmulgee County Nuyaka	06	1628CST			0	0			Hail (0.75)
Okmulgee County 2 W Okmulgee	06	1650CST			0	0			Funnel Cloud
Okmulgee County 4 W Hector	06	1655CST			0	0			Funnel Cloud
									Funnel cloud reported at 251st Street and US Hwy 75, just south of the Tulsa county line.
Okmulgee County 1 N Okmulgee	06	1655CST			0	0			Hail (0.75)
									Thunderstorm wind gusts up to 55 mph also reported
Creek County Mounds	06	1657CST			0	0			Hail (0.75)
Creek County Mounds	06	1657CST			0	0			Thunderstorm Wind (G65)
Muskogee County Boynton	06	1700CST			0	0			Hail (1.75)
Muskogee County Boynton	06	1713CST	0.1	30	0	0			Tornado (F0)
									Brief tornado touchdown. No known damage or injuries.
Washington County 1 S Bartlesville	06	1715CST			0	0			Hail (0.75)
Okmulgee County 7 E Morris	06	1717CST			0	0			Funnel Cloud
									A TV meteorologist from KOTV reported a funnel cloud lifting back up into the clouds.
Muskogee County Boynton	06	1720CST			0	0			Hail (0.75)
Muskogee County 5 E Boynton	06	1721CST	0.1	30	0	0			Tornado (F0)
									Brief tornado touchdown in open country
Muskogee County 5 S Boynton	06	1731CST			0	0	0.10K		Thunderstorm Wind
									Three-inch tree limbs blown down along SH 72
Muskogee County Muskogee	06	1732CST			0	0			Hail (0.75)
									Dime-sized hail on Country Club Road in Muskogee
Tulsa County Tulsa	06	1735CST			0	0			Hail (0.75)
									Dime-sized hail near 66th Street North and US Hwy 75
Tulsa County Tulsa	06	1735CST			0	0			Hail (0.75)
									Dime-sized hail near 45th Street North and Delaware
Washington County Oglesby	06	1735CST			0	0			Hail (0.75)
Tulsa County Bixby	06	1743CST			0	0	0.10K		Thunderstorm Wind
									Several mature trees blown down along US Hwy 64 near 171st Street in Bixby
Rogers County Talala	06	1745CST			0	0			Hail (0.75)
Wagoner County Tulahassee	06	1745CST			0	0	0.10K		Thunderstorm Wind (G52)
									Several large tree limbs down

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Tulsa County									
Tulsa	06	1750CST 1930CST			0	0			Flash Flood
Northbound lane of Riverside Drive was impassable in spots from 61st Street to the pedestrian bridge due to high water. Several roadways under water in north Tulsa.									
Creek County									
1 E Shamrock	06	1759CST			0	0			Hail (0.75)
Craig County									
7 SSW Vinita	06	1800CST			0	0			Hail (0.88)
Nickel-sized hail at Big Cabin									
Cherokee County									
Tahlequah	06	1818CST			0	0			Hail (0.75)
Delaware County									
Eucha	06	1825CST			0	0	0.50K		Thunderstorm Wind
Park ranger reported numerous large tree limbs down									
Haskell County									
Stigler	06	1845CST			0	0			Hail (0.88)
Mayes County									
Disney	06	1845CST			0	0	2K		Thunderstorm Wind
The top of a tree blew off causing slight damage to a trailer									
Adair County									
1 S Bunch	06	1850CST			0	0			Hail (1.25)
Pittsburg County									
5 W Blocker	06	1905CST			0	0	3K		Thunderstorm Wind
Power lines and trees blown down									
Haskell County									
3 S Stigler	06	1906CST			0	0			Funnel Cloud
Haskell County									
4 E Stigler	06	1912CST			0	0			Funnel Cloud
Pittsburg County									
4 SW Quinton	06	1927CST	0.1	30	0	0			Tornado (F0)
Emergency management director reported a tornado 4 miles southwest of Quinton. No known damage or injuries.									
Pittsburg County									
Quinton	06	1932CST 1933CST	0.3	30	0	0	2K		Tornado (F0)
A brief tornado touchdown in Quinton knocked power lines down. There are no known injuries with this tornado. The parent storm produced a tornado 4 miles southwest of Quinton just five minutes earlier.									
Sequoyah County									
1 E Muldrow	06	1932CST			0	0			Thunderstorm Wind (G52)
Le Flore County									
Panama	06	1935CST			0	0			Hail (0.88)
Haskell County									
4 W Kinta	06	1938CST			0	0			Funnel Cloud
Le Flore County									
Calhoun	06	1938CST 1939CST	0.8	150	0	2	100K		Tornado (F1)
At 838 PM CDT, a tornado touched down in the small community of Calhoun. Six homes in Calhoun were damaged, four of which were considered destroyed. One of the six was a mobile home. Two minor injuries occurred when a home was lifted off of its concrete block foundation and destroyed. Wind speed estimates based on the damage suggests velocities were in the upper end of the F1 category, meaning wind in Calhoun were near 110 mph.									
Haskell County									
Cartersville	06	1940CST	0.1	30	0	0			Tornado (F0)
Civil defense director reported a brief tornado touchdown near Cartersville. There is no known damage or injuries with this									
Le Flore County									
Panama	06	1942CST			0	0			Hail (1.00)
Le Flore County									
Bokoshe	06	1944CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Eastern

Le Flore County 1 N Poteau	06	1944CST			0	0			Thunderstorm Wind (G50)
Le Flore County Poteau	06	1954CST			0	0			Hail (1.50)
Le Flore County Poteau	06	1954CST			0	0	10K		Thunderstorm Wind (G52) Several houses in Poteau were damaged, and several trees were blown down.

Summary of events for May 6:

Numerous severe thunderstorms developed over eastern Oklahoma during the late afternoon and evening hours of May 6. Many of these thunderstorms developed rotation with some storms ultimately producing tornadoes.

The first thunderstorms of the day developed over central Oklahoma and then moved eastward toward Okfuskee County after 430 PM CDT, traversing the counties along and just north of I-40 through 730 PM CDT before exiting into Arkansas to the east of Stilwell and Sallisaw. These thunderstorms produced large hail, numerous reports of funnel clouds, and two brief tornado touchdowns in Muskogee County. Other severe thunderstorms developed behind the first cluster, producing severe weather primarily in Creek and Okmulgee Counties from 700 PM to 830 PM CDT.

Other severe thunderstorms developed rapidly around 600 PM CDT along a weak cold front across the northern border counties of Oklahoma. These storms primarily produced large hail.

Further south in southeast Oklahoma, a cap of warm air in the mid-levels of the atmosphere prevented thunderstorm development until around 700 PM CDT with the approach of an upper level disturbance. Once thunderstorms developed in Pittsburg County, they rapidly became severe and began rotating. These storms moved east across Haskell and northern Le Flore Counties through 900 PM CDT, producing large hail, numerous reports of funnel clouds, several brief tornado touchdowns and a tornado producing considerable damage in the small town of Calhoun in northwestern Le Flore County. At the time of the Calhoun tornado, the WSR-88D near Fort Smith had its first algorithm-induced tornado vortex signature (TVS).

Delaware County 5 W Jay	07	1833CST			0	0			Hail (0.88)
Strong thunderstorms moved southeastward out of Kansas late on the afternoon of May 7 on the back side of an upper level weather system in northwesterly flow aloft. For the most part, these storms remained below severe limits, but one storm strengthened enough to cause a report of nickel-sized hail west of Jay.									
Delaware County Kansas	09	1040CST			0	0			Hail (0.75)
Sequoyah County 4 NW Muldrow	09	1130CST			0	0			Hail (0.75)
Sequoyah County 3 SW Short	09	1145CST			0	0			Hail (0.75)
Pittsburg County 1 SW Crowder	09	1430CST			0	0			Hail (1.00)
Pittsburg County Blocker	09	1450CST			0	0	0.30K		Thunderstorm Wind Several trees blown down
Pittsburg County Quinton	09	1500CST			0	0			Hail (0.75)
Pittsburg County Featherston	09	1502CST			0	0	0.10K		Thunderstorm Wind Large tree limbs blown down
Le Flore County Poteau	09	1545CST			0	0			Hail (0.75)
Le Flore County Poteau	09	1555CST			0	0			Hail (0.88)
Le Flore County Poteau	09	1557CST			0	0	0.10K		Thunderstorm Wind Large trees blown down

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Eastern

Le Flore County Conser	09	1600CST			0	0			Hail (0.75)
Le Flore County Heavener	09	1600CST			0	0			Hail (0.88)
Le Flore County 3 S Poteau	09	1604CST			0	0			Hail (0.88)

Summary of events for May 9 1998:

Scattered areas of severe thunderstorms developed across eastern Oklahoma from the late morning through the late afternoon on May 9. These storms formed as an upper level low and cold air aloft approached the area and to the north of a surface warm front. Due to the proximity north of a warm front, the primary threat with any of these storm was large hail to the size of quarters and marginally severe thunderstorm wind gusts.

While other non-severe thunderstorms rumbled around eastern Oklahoma earlier in the morning, the first severe storms formed in far eastern Oklahoma around 1130 AM CDT along and north of I-40 and quickly moved east into Arkansas. Other severe storms formed by 330 PM CDT in Pittsburg and moved eastward to the Arkansas state line east of Poteau shortly after 500 PM CDT.

OKZ060

Tulsa									
14	0400CST				0	0			Record Warm
	0700CST								

The low temperature for May 14 at the Tulsa International Airport was 71 degrees Fahrenheit. This is the warmest low temperature on record for May 14, breaking the old record of 70 set back in 1991.

Pawnee County Ralston	15	0530CST			0	0			Hail (0.75)
Osage County Fairfax	15	0535CST			0	0			Hail (0.75)
Osage County Fairfax	15	0535CST			0	0			Thunderstorm Wind (G52)
Osage County 3 NE Bowring	15	0645CST			0	0			Hail (0.75)
Washington County 2 NW Copan	15	0655CST			0	0			Hail (0.75)

Summary of events for May 15 1998:

A line of strong to severe thunderstorms that originally developed over the Texas panhandle moved eastward into Osage and Pawnee Counties around 600 AM CDT on the morning of May 15. This line quickly swept across northeast Oklahoma to the north of I-44 as an upper level system moving northeastward from New Mexico interacted with a pacific cold front. This line of storms weakened as it moved east of Washington County. These storms produced marginally severe wind and hail.

Nowata County South Coffeyville	24	2035CST			0	0			Hail (0.88)
Osage County Grainola	24	2040CST			0	0			Hail (0.75)
Osage County Grainola	24	2040CST			0	0	0.10K		Thunderstorm Wind
			Large tree limbs blown down						
Osage County Foraker	24	2105CST			0	0			Hail (1.00)
			In addition, a 53 mph thunderstorm gust was measured at the Oklahoma mesonet site 8 miles ESE of Foraker at 1030 PM CDT.						
Osage County Shidler	24	2110CST			0	0			Thunderstorm Wind (G61)
Osage County Burbank	24	2120CST			0	0			Thunderstorm Wind (G61)
Craig County 12 W Welch	24	2125CST			0	0			Thunderstorm Wind (G52)
Osage County 5 NW Pawhuska	24	2206CST			0	0			Thunderstorm Wind (G61)
			In addition, the Oklahoma mesonet site 2 S Wynona measured a wind gust of 51 miles an hour at 1145 PM CDT.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Eastern

Osage County North Portion	24 25	2215CST 0030CST			0	0			Flash Flood
			County roads 5 miles west of Grainola were flooded, and there was an unofficial report of 4 inches of rain near the same area. This forced Beaver Creek to be near bankfull. The Oklahoma mesonet site 8 miles ESE of Foraker reported 2.33 inches of rain between 1015 and 1115 PM CDT on May 24 with 1.61 inches of rain falling in just 30 minutes time for a rainfall rate of over 3 inches per hour. By 100 AM CDT (5/25), 3.38 inches of rain had fallen at 8_ESE Foraker.						
Washington County Copan	24	2225CST			0	0			Thunderstorm Wind (G52)
Craig County 4 E Centralia	24	2230CST			0	0			Hail (1.00)
Osage County Shidler	24	2250CST			0	0			Hail (0.75)
Nowata County Nowata	24	2310CST			0	0			Thunderstorm Wind (G52)
Osage County 1 W Hominy	24	2336CST			0	0			Thunderstorm Wind (G52)
Craig County Vinita	24	2345CST			0	0			Thunderstorm Wind (G52)
Delaware County 4 W Bernice	24	2358CST			0	0			Thunderstorm Wind (G52)
Ottawa County Afton	25	0005CST			0	0			Thunderstorm Wind (G61)
			Reported near Vo-Tech school						
Osage County Avant	25	0015CST			0	0			Thunderstorm Wind (G52)
Washington County Vera	25	0030CST			0	0	0.30K		Thunderstorm Wind
			Several trees blown down						
Rogers County Talala	25	0040CST			0	0	0.10K		Thunderstorm Wind
			Large tree limbs blown down						
Mayes County Disney	25	0130CST			0	0			Hail (0.88)
Delaware County Chloeta	25	0145CST			0	0			Hail (1.00)
Delaware County Colcord	25	0210CST			0	0			Hail (1.75)
Pawnee County Cleveland	25	0400CST			0	0			Hail (0.75)
Tulsa County Tulsa	25	0505CST			0	0	0.10K		Lightning
			Lightning split a tree and the tree fell across 91st Street South 2 blocks east of Yale Ave.						
Tulsa County Bixby	25	0510CST			0	0			Hail (0.75)
Tulsa County Glenpool	25	0512CST			0	0	0.10K		Thunderstorm Wind
			Large tree limbs blown down						

Summary of events for May 24-25 1998:

Many severe thunderstorms affected northern Oklahoma during the evening of May 24 and the early morning of May 25. On the evening of May 24, the first thunderstorms moved south of the Kansas state line after 900 PM CDT. After that, individual thunderstorms kept moving along a quasi-stationary front near the Oklahoma/Kansas border, causing one thunderstorm after another to move over the same areas just south of the Kansas state line. One result was widespread rainfall amounts in excess of one inch with a storm total of 3.68 inches reported 8 ESE of Foraker and several unofficial reports of about 4 inches. These storms were also prolific wind producers with thunderstorm gusts of 60 to 70 miles an hour common across the northern border counties.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Eastern

Additionally, there were reports of a tornado touchdown north of Pawhuska and hail as large as quarters. After 1100 PM CDT, the last in the series of storms took a more southward route across Rogers, Mayes, and Delaware Counties, producing severe winds and hail as large as golfballs, before exiting into Benton County AR around 300 AM CDT.

Around 200 AM CDT, more severe thunderstorms developed in northwest Oklahoma and moved east along an outflow boundary produced by the earlier thunderstorms. These storms moved across Pawnee and Tulsa Counties between 430 AM and 630 AM CDT, producing marginally severe hail and winds. These storms weakened below severe levels as they moved past Tulsa County.

OKLAHOMA, Extreme Southeast

NONE REPORTED.

OKLAHOMA, Panhandle

Beaver County

5 N Turpin 07 1845CST 0 0 Hail (0.75)

A severe thunderstorm moved through the eastern Oklahoma panhandle producing some hail during the early evening hours.

Cimarron County

Boise City 08 1547CST 0 0 Hail (1.00)

Severe thunderstorms moved north out of the northwest Texas panhandle and into the western Oklahoma panhandle during the late afternoon hours. These storms produced only hail.

OKZ002-002

**Texas
14 1840CST 0 0 High Wind (G56)
1940CST**

High winds kicked up across the central Oklahoma panhandle during the evening hours.

OKLAHOMA, Western, Central and Southeast

Oklahoma County

Edmond 05 0100CST 0 0 Hail (1.75)

Lincoln County

Meeker 05 0130CST 0 0 0.01K Thunderstorm Wind

Harper County

10 NW Buffalo 05 0135CST 0 0 Hail (0.75)

Woods County

4 NE Waynoka 05 0210CST 0 0 Hail (0.88)

Logan County

3 W Meridian 05 0300CST 0 0 Hail (0.75)

Hughes County

Lamar 05 0530CST 0 0 Hail (0.75)

Isolated severe thunderstorms developed during the early morning of May 5th, resulting in numerous reports of large hail. Severe winds also blew down several large tree limbs in Meeker in Lincoln County.

OKZ013-017>020-023>032-037>048-050>052

Noble - Blaine - Kingfisher - Logan - Payne - Caddo - Canadian - Oklahoma - Lincoln - Grady - McClain - Cleveland - Pottawatomie - Seminole - Hughes - Tillman - Comanche - Stephens - Garvin - Murray - Pontotoc - Coal - Cotton - Jefferson - Carter - Johnston - Atoka - Love - Marshall - Bryan
**06 0300CST 0 0 Fog
0800CST**

Dense fog formed over most of central and southern Oklahoma during the early morning of May 6th, resulting in visibilities of less than one-quarter of a mile at many routine surface observation sights. Two automobile accidents, attributed at least in part to the dense fog, were reported. One woman involved in a single-vehicle accident at 0430 CST was killed near Elmore City (Garvin County) when she failed to make a sharp curve, went off the road and struck an embankment. Another woman was injured near Lawton (Comanche County) at 0700 CST when her car hit another vehicle which was trying to turn left out of a driveway.

Beckham County

5 S Carter 08 1900CST 0 0 45K Thunderstorm Wind (G61)

Greer County

1 S Willow 08 1900CST 0 0 2.5K Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Western, Central and Southeast

Kiowa County 12 NW Lone Wolf	08	1905CST			0	0			Thunderstorm Wind (G61)
Washita County Sentinel	08	1930CST			0	0			Thunderstorm Wind (G61)
Beckham County 2 N Delhi	08	2130CST			0	0	3K		Thunderstorm Wind
Beckham County Erick	08	2130CST			0	0	0.40K		Thunderstorm Wind
Beckham County 4 SE Erick	08	2130CST			0	0			Thunderstorm Wind (G59)
Measured by Oklahoma Mesonet.									
Beckham County Sayre	08	2130CST			0	0	50K		Thunderstorm Wind
Beckham County 4 S Sayre	08	2130CST			0	0	15.5K		Thunderstorm Wind
Beckham County 6 E Sayre	08	2135CST			0	1	36K		Thunderstorm Wind
Beckham County Elk City	08	2141CST			0	0			Hail (0.88)
Beckham County Elk City	08	2145CST			0	0	1K		Thunderstorm Wind
Beckham County 6 S Elk City	08	2145CST			0	0	13K		Thunderstorm Wind
Beckham County 8 S Elk City	08	2145CST			0	0	18.5K		Thunderstorm Wind
Washita County Canute	08	2210CST			0	0			Hail (0.88)
Washita County Canute	08	2210CST			0	0	0.60K		Thunderstorm Wind

Two severe thunderstorms developed over western Oklahoma the evening of May 8th. The first storm formed over Beckham, Greer, Kiowa and Washita Counties between 1900 CST and 1930 CST. Several mobile homes and barns were destroyed and one horse was killed 5 miles south of Carter in Beckham County. In Sentinel in Washita County severe winds destroyed fences, an elevator, a barn and several storage buildings while a gas pump was damaged, and a wood structure was blown onto Interstate 44. One mile south of Willow in Greer County 5 high-line power poles were broken. The other severe thunderstorm formed 2 hours later in Beckham County first blowing a roof off of a mobile home 2 miles north of Delhi, then knocking down power lines onto Highway 34 in Erick. As the storm moved to 4 miles south of Sayre, a metal tower was blown onto Highway 283 while roof damage occurred to a mobile home. Substantial damage was reported in Sayre where a semi-truck was blown off of Interstate 40. Additional damage included roof damage to a barn and well house, uprooted trees, one onto a house, a destroyed gas pump and a destroyed mobile home on Highway 52 just east of Sayre. Also east of Sayre, an ostrich was killed, and power was knocked out for 4 hours. Six miles east of Sayre, one person was injured due to flying debris; an oil rig was damaged, and one trailer was overturned while 3 others shifted off their foundation. Eight miles south of Elk City, two metal buildings were destroyed; a grain silo was blown over; a stock trailer was blown into a canyon and destroyed, and a barn roof was damaged. Two barns were destroyed; a trailer was blown off of its foundation; a house chimney was damaged, and house windows were broken 6 miles south of Elk City, while large trees fell over in Elk City crushing a fence and swing set. A tin roof was blown off a small out building in Canute. Power outages and downed 4 to 5 inch tree limbs were also reported.

Cleveland County 2 W Moore	09	0615CST			0	0			Hail (0.75)
Cleveland County Norman	09	0620CST			0	0	0.10K		Thunderstorm Wind
Oklahoma County Tinker Afb	09	0630CST			0	0			Hail (0.75)
Pottawatomie County 4 S Mc Loud	09	0705CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Western, Central and Southeast

Isolated severe thunderstorms developed during the early morning of May 9th, resulting in a downed 6 inch diameter tree in Norman. Nickel size hail was reported 4 miles south of McLoud, while dime size hail fell 2 miles west of Moore and at Tinker Air Force Base.

Beckham County 20 SW Erick	14	2000CST			0	0			Hail (0.75)
Beckham County 12 SW Erick	14	2005CST			0	0			Hail (0.88)
Beckham County Erick	14	2030CST			0	0	45K		Thunderstorm Wind (G52)
Beckham County 2 N Erick	14	2030CST			0	0			Thunderstorm Wind (G70)
Roger Mills County 3 N Sweetwater	14	2030CST			0	0			Hail (0.75)
Beckham County 1 S Elk City	14	2040CST			0	0	2K		Thunderstorm Wind
Roger Mills County 7 N Sweetwater	14	2040CST			0	0			Hail (1.00)
Roger Mills County 7 N Sweetwater	14	2040CST			0	0			Thunderstorm Wind (G52)
Roger Mills County Cheyenne	14	2050CST			0	0	54.1K		Thunderstorm Wind
Harmon County 3 WNW Vinson	14	2100CST			0	0			Hail (0.75)
Harmon County Hollis	14	2135CST			0	0			Hail (1.25)
Roger Mills County 2 N Dempsey	14	2145CST			0	0			Hail (0.75)
Roger Mills County 2 N Dempsey	14	2145CST			0	0	0.01K		Thunderstorm Wind
Beckham County 4 ESE Erick	14	2200CST			0	0			Thunderstorm Wind (G60)
Major County 17 N Chester	14	2205CST			0	0	50K		Thunderstorm Wind
Beckham County Elk City	14	2215CST			0	0	9K		Thunderstorm Wind
Roger Mills County Cheyenne	14	2215CST			0	0	0.20K		Thunderstorm Wind
Woods County Waynoka	14	2215CST			0	0	2.5K		Thunderstorm Wind
Greer County 15 WNW Willow	15	0100CST			0	0			Hail (0.75)
Greer County 15 WNW Willow	15	0100CST			0	0	2K		Thunderstorm Wind
Roger Mills County 2 SW Durham	15	0130CST			0	0			Hail (0.75)
Roger Mills County 2 SW Durham	15	0130CST			0	0	0.10K		Thunderstorm Wind
Roger Mills County 6 SW Cheyenne	15	0140CST			0	0	2.5K		Thunderstorm Wind
Roger Mills County 2 N Dempsey	15	0155CST			0	0			Thunderstorm Wind (G70)
Jackson County Altus Muni Arpt	15	0200CST			0	0	20K		Thunderstorm Wind (G61)
Roger Mills County 2 W Cheyenne	15	0200CST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Roger Mills County									
Cheyenne	15	0200CST			0	0			Thunderstorm Wind (G70)
Ellis County									
Shattuck	15	0204CST			0	0	1K		Thunderstorm Wind
Jackson County									
Martha	15	0209CST			0	0	1.4K		Thunderstorm Wind
Tillman County									
Tipton	15	0227CST			0	0	0.80K		Thunderstorm Wind
Harper County									
8 SW Laverne	15	0230CST			0	0			Hail (1.00)
Woodward County									
Woodward	15	0233CST			0	0	0.50K		Thunderstorm Wind
Dewey County									
5 SE Vici	15	0245CST			0	0	0.01K		Thunderstorm Wind
Major County									
19 N Chester	15	0300CST			0	0	1K		Thunderstorm Wind
Comanche County									
20 NW Lawton	15	0302CST			0	0	1.8K		Thunderstorm Wind
Alfalfa County									
Helena	15	0330CST			0	0	5.5K		Thunderstorm Wind
Blaine County									
Okeene	15	0330CST			0	0	6K		Thunderstorm Wind
Kingfisher County									
Lacey	15	0335CST			0	0	40K		Thunderstorm Wind
Kingfisher County									
1 W Loyal	15	0335CST			0	0	2.5K		Thunderstorm Wind
Kingfisher County									
1 S Hennessey	15	0338CST			0	0	5.5K		Thunderstorm Wind
Canadian County									
Calumet	15	0340CST			0	0	6K		Thunderstorm Wind
Garfield County									
Drummond	15	0345CST			0	0			Thunderstorm Wind (G52)
Garfield County									
Vance Afb	15	0357CST 0402CST			0	0	8K		Thunderstorm Wind (G65)
Wind gust to 56 knots at 0357 CST measured at Vance AFB. Wind gust to 65 knots at 0402 CST, also measured at Vance AFB.									
Garfield County									
Countywide	15	0400CST			0	0	8K		Thunderstorm Wind
Garfield County									
1 S Enid	15	0405CST			0	0	10K		Thunderstorm Wind
Kay County									
Braman	15	0430CST			0	0	16.5K		Thunderstorm Wind
Kay County									
Tonkawa	15	0435CST			0	0	0.50K		Thunderstorm Wind
Grant County									
2 ESE Lamont	15	0445CST			0	0	0.40K		Thunderstorm Wind
Kay County									
Blackwell	15	0445CST			0	0	2K		Thunderstorm Wind
Kay County									
Blackwell	15	0445CST			0	0			Thunderstorm Wind (G60)
Measured by Oklahoma Mesonet.									
Kay County									
Kildare	15	0450CST			0	0			Thunderstorm Wind (G61)
Cleveland County									
Norman	15	0505CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Western, Central and Southeast

Cleveland County								
Norman	15	0515CST			0	0	6K	Thunderstorm Wind

A cluster of severe thunderstorms developed over portions of western Oklahoma during the evening of May 14th, before a large and intense line of severe thunderstorms accompanied by damaging winds and large hail moved into western Oklahoma and eventually central Oklahoma during the early morning of May 15th. In association with the first cluster of severe thunderstorms, two hangars were damaged, one destroyed at the airport in Erick in Beckham County. At least \$50,000 damage occurred to a church roof. A lumberyard building was destroyed; Trees were downed, and windows were smashed in Erick. There were also many reports of roof damage in the city of Erick. Roof damage occurred at a sewer plant 1 mile south of Elk City, while in Elk City ten utility poles were snapped; one trailer was pushed off its foundation; semi trucks were blown off of Interstate 40; and damage occurred to many roofs. In Cheyenne in Roger Mills County severe winds damaged a gymnasium roof allowing rain to pour into a new \$52,000 floor causing major water damage. The roof was blown off at the Oklahoma Educational Television Association (OETA) translator station, and windows were blown out at a fire station. Tree limbs and power lines were also downed. Three inch diameter tree limbs were blown down 2 miles north of Dempsey. In Major County 17 miles north of Chester a garage roof was damaged, and a chicken house was destroyed, while a roof was blown off and high line poles were snapped in Waynoka. There were also many reports of large hail, the largest, half dollar size, occurred in Hollis (Harmon County) at 2135 CST.

Damaging winds accompanied a line of severe thunderstorms that moved through western and central Oklahoma between 0100 CST and 0515 CST on May 15th. A roof was blown off of a barn 15 miles northwest of Willow; 6 to 8 inch diameter tree limbs were blown down 2 miles southwest of Durham. Six miles southwest of Cheyenne, a wellhouse blew over, and roof damage occurred to a house. In Cheyenne severe winds damaged several homes, while a roof was blown off a trailer house 2 miles west of Cheyenne. Two hangar doors were blown off at Altus Municipal Airport. Numerous trees were downed in Shattuck in Ellis County; seven utility poles were snapped in Martha. Reports of snapped utility poles also came from Tipton. Trees were downed in Woodward; 2 inch diameter tree limbs were broken 5 miles southeast of Vici, and a roof was blown off of a garage 19 miles north of Chester in Major County. An antenna was destroyed 20 miles northwest of Lawton, while trees were uprooted, and damage occurred to a roof. In Helena several 3 inch diameter tree limbs were blown down; a swingset was blown over; a large cedar tree was snapped in half; power lines were downed; and damage occurred to many roofs, while in Okeene a large metal building was destroyed, and utility poles were snapped. In Lacey in Kingfisher County 2 large irrigation systems were destroyed. There were also reports of power outages and damage to many mobile homes and barns. One mile west of Loyal the doors and roof were blown off of a barn, while a shed was destroyed, and power lines were downed 1 mile south of Hennessey. A barn was demolished in Omega. Roof damage was reported southwest of Kingfisher. In Calumet in Canadian County a grain storage bin was damaged, and a barn was destroyed. Limbs and power lines were downed all across Garfield County, while a sheet metal building was destroyed in Enid. A guinea hen and two geese were also killed, and roofs were damaged, while a U-haul trailer was blown off of the highway 1 mile south of Enid. Several barns were damaged in Brahman. Power lines and numerous tree limbs were downed in Brahman and Tonkawa. A semi truck was blown off of Interstate 35 in Blackwell. Large trees were blown over 2 miles southeast of Lamont, and fences were blown down in Norman.

Oklahoma County								
Oklahoma City	20	1100CST			0	1		Lightning
Oklahoma County								
Oklahoma City	20	1100CST			0	0	2K	Thunderstorm Wind

An isolated severe thunderstorm developed over Oklahoma City the morning of May 20th. One man sustained minor burns when he was struck by lightning, and power was knocked out to 53 homes at May and NW 14th Street for over two hours.

Alfalfa County								
1 S Amorita	24	1745CST	0.1	10	0	0		Tornado (F0)
Alfalfa County								
3 ENE Amorita	24	1750CST	0.1	10	0	0		Tornado (F0)
Alfalfa County								
8 E Amorita to	24	1755CST	3.5	100	0	0	3K	Tornado (F1)
10 ESE Amorita		1759CST						
Grant County								
8 SW Manchester to	24	1759CST	1.5	100	0	0		Tornado (F0)
9 SSE Manchester		1805CST						
Grant County								
4 WNW Wakita	24	1823CST	0.1	10	0	0		Tornado (F0)
Grant County								
2 SW Wakita to	24	1825CST	2.5	50	0	0		Tornado (F0)
2 S Wakita		1829CST						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Grant County 9 W Medford	24	1839CST	0.1	10	0	0			Tornado (F0)
Grant County 3 SE Wakita	24	1840CST	0.1	10	0	0			Tornado (F0)
Grant County 6 W Medford	24	1846CST 1853CST	1	250	0	0			Tornado (F0)
Grant County 6 W Medford	24	1847CST 1850CST	0.8	175	0	0			Tornado (F0)
Grant County 4 W Medford	24	1909CST			0	0			Hail (2.75)
Kiowa County 4 S Hobart	24	1910CST			0	0			Hail (0.75)
Grant County Deer Creek	24	1920CST			0	0			Hail (1.00)
Grant County 2 SW Medford to 2 S Medford	24	1920CST 1924CST	2	75	0	0	5K		Tornado (F1)
Grant County Medford	24	1923CST			0	0			Hail (3.50)
Grant County 3 SE Jefferson to 7 E Pond Creek	24	1929CST 1934CST	5	275	0	0	1K		Tornado (F0)
Jackson County Duke	24	1930CST			0	0			Hail (0.75)
Grant County 4 ENE Pond Creek	24	1935CST 1936CST	1	200	0	0	5K		Tornado (F1)
Grant County 1 N Salt Fork	24	1950CST	2	400	0	0	15K		Tornado (F1)
Kay County 1 WNW Braman	24	1955CST	0.1	10	0	0			Tornado (F0)
Kay County 4 N Blackwell	24	2000CST			0	0			Thunderstorm Wind (G52)
Grant County 3.5 S Lamont to 4 NW Lamont	24	2010CST 2025CST	5.3	1300	0	0	2M		Tornado (F3)
Grant County 13 W Medford to 4 WNW Pond Creek	24	2029CST 2038CST			0	0	10K		Thunderstorm Wind (G96)
Kay County 8 E Newkirk	24	2030CST Measured by Oklahoma Mesonet.			0	0			Thunderstorm Wind (G63)
Kay County 8 E Newkirk	24	2035CST Measured by Oklahoma Mesonet.			0	0			Thunderstorm Wind (G55)
Woods County 16 NNE Freedom	24	2105CST Measured by Oklahoma Mesonet.			0	0			Thunderstorm Wind (G51)
Woods County 16 E Freedom	24	2110CST Measured by Oklahoma Mesonet.			0	0			Thunderstorm Wind (G57)
Alfalfa County 9 S Cherokee	24	2115CST			0	0			Hail (1.00)
Alfalfa County 9 S Cherokee	24	2115CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Kay County 5 NW Tonkawa	24	2130CST	0.1	10	0	0			Tornado (F0)
Woodward County 21 NNE Mooreland	24	2130CST			0	0			Thunderstorm Wind (G58)
									Measured by Oklahoma Mesonet.
Alfalfa County Goltry	24	2140CST			0	0			Hail (2.50)
Alfalfa County Goltry	24	2140CST			0	0			Thunderstorm Wind (G61)
Kay County Blackwell	24	2140CST			0	0			Hail (1.75)
Kay County Blackwell	24	2140CST			0	0			Thunderstorm Wind (G52)
Kay County Tonkawa	24	2140CST			0	0			Hail (1.00)
Kay County Tonkawa	24	2140CST			0	0			Thunderstorm Wind (G52)
Noble County 7 W Billings	24	2140CST			0	0			Thunderstorm Wind (G61)
Grant County Jefferson	24	2145CST			0	0			Hail (0.88)
Grant County Jefferson	24	2145CST			0	0	4K		Thunderstorm Wind
Harper County 11 NNE Selman	24	2155CST			0	0			Hail (1.25)
Alfalfa County 8 S Cherokee	24	2200CST			0	0			Hail (1.75)
Alfalfa County 8 S Cherokee	24	2200CST			0	0			Thunderstorm Wind (G61)
Harper County 9 ENE Buffalo	24	2200CST			0	0			Hail (0.75)
Woods County 14 NNE Camp Houston	24	2200CST			0	0			Hail (0.75)
Woods County 14 NNE Camp Houston	24	2200CST			0	0	0.50K		Thunderstorm Wind
Alfalfa County Goltry	24	2230CST			0	0			Hail (2.50)
Alfalfa County Goltry	24	2230CST			0	0			Thunderstorm Wind (G61)
Kay County Blackwell	24	2230CST			0	0			Flash Flood
Kay County Blackwell	24	2230CST			0	0			Hail (0.75)
Alfalfa County Cherokee	24	2240CST			0	0			Hail (1.75)
Alfalfa County Cherokee	24	2240CST			0	0			Thunderstorm Wind (G61)
Garfield County Kremlin	24	2300CST			0	0			Hail (0.88)
Alfalfa County Goltry	24	2305CST			0	0			Hail (2.75)
Garfield County Enid	24	2305CST			0	0			Hail (1.75)
Major County 5 NNE Meno	24	2310CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Garfield County Hillsdale	24	2315CST			0	0			Hail (2.00)
Garfield County 3 SE Breckinridge	24	2340CST			0	0			Thunderstorm Wind (G57)
		Measured by Oklahoma Mesonet.							
Alfalfa County 9 W Cherokee	24	2345CST			0	0			Hail (0.75)
Alfalfa County 9 W Cherokee	24	2345CST			0	0	0.01K		Thunderstorm Wind
Harper County 9 ENE Buffalo	25	0000CST			0	0			Hail (0.88)
Harper County 11 NNE Selman	25	0000CST			0	0			Thunderstorm Wind (G70)
Woods County Alva	25	0055CST			0	0			Hail (1.75)
Woods County Alva	25	0055CST			0	1	55K		Thunderstorm Wind
Alfalfa County 6 W Cherokee	25	0100CST			0	0			Hail (1.00)
Alfalfa County 6 W Cherokee	25	0100CST			0	0			Thunderstorm Wind (G52)
Alfalfa County Cherokee	25	0115CST			0	0			Hail (1.00)
Alfalfa County Cherokee	25	0130CST			0	0	10K		Flash Flood
Alfalfa County Cherokee	25	0130CST			0	0			Thunderstorm Wind (G61)
Garfield County Hillsdale	25	0200CST			0	0			Hail (2.50)
Dewey County 5 NNE Leedey	25	0245CST			0	0			Hail (1.00)
Custer County Thomas	25	0300CST			0	0	0.11K		Thunderstorm Wind
Blaine County Watonga	25	0315CST			0	0			Hail (1.75)
Caddo County Hinton	25	0326CST			0	0			Thunderstorm Wind (G60)
Canadian County Okarche	25	0345CST			0	0			Hail (2.50)
Kingfisher County 3 S Kingfisher	25	0400CST			0	0			Hail (0.88)
Kingfisher County 4 WNW Kingfisher	25	0400CST			0	0			Hail (0.75)
Canadian County 6 N Piedmont	25	0415CST			0	0			Hail (1.00)
Canadian County Piedmont	25	0415CST			0	0	40K		Lightning
Oklahoma County Oklahoma City	25	0420CST			0	0			Hail (1.50)
Oklahoma County Edmond	25	0430CST			0	0			Hail (0.75)
Oklahoma County Edmond	25	0430CST			0	0	0.10K		Thunderstorm Wind
Oklahoma County Oklahoma City	25	0430CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Oklahoma County									
Del City	25	0500CST			0	0			Hail (0.88)
Oklahoma County									
3 S Choctaw	25	0515CST			0	0			Hail (0.88)
Pottawatomie County									
4 S Mc Loud	25	0535CST			0	0			Hail (0.75)
Pottawatomie County									
Shawnee	25	0545CST			0	0	1K		Thunderstorm Wind

A large complex of severe thunderstorms moved from southern Kansas into northern and central Oklahoma during the evening of May 24th and the early morning of May 25th, resulting in 16 tornadoes, most of which occurred in Grant County. The strongest tornado, an F3, occurred near Lamont in Grant County. There were also reports of hail up to 3.5 inches in diameter, straight line wind damage, and flooding.

The first tornado, an F0, touched down in an open field 1 mile south of Amorita in Alfalfa County at 1745 CST lasting for less than one minute with no reports of damage. The second tornado, also an F0, was reported 5 minutes later by media chasers to have touched down in an open field 3 miles east northeast of Amorita. Touchdown was very brief with no damage reported. The third tornado was also observed by media chasers, this time in northeast Alfalfa County 8 miles east of Amorita. The tornado, an F1, damaged one house and knocked down power lines as it moved southeast and weakened while crossing into western Grant County for a total damage path length of 5 miles. There were no reports of damage with this segment of the tornado in Grant County and thus was rated an F0. An unusual aspect of this tornado was that it was reported to be rotating anticyclonically. The fourth and fifth tornadoes were also rated F0, the fourth reported by media chasers to have touched down in an open field 4 west northwest of Wakita with no damage, and the fifth observed by Wakita Fire Department to be on the ground for 2.5 miles from 2 miles southwest of Wakita to 2 miles south of Wakita. No damage was reported.

An off-duty National Weather Service meteorologist observed the sixth tornado, an F0, in an open field 9 miles west of Medford. The seventh tornado, also an F0, produced no damage as it rotated anticyclonically 3 miles southeast of Wakita. The eighth and ninth tornadoes, both F0, occurred simultaneously 6 miles west of Medford. The eighth tornado touched down just north of Highway 11 while the ninth tornado touched down just south of Highway 11. One house and a business were damaged by the tenth tornado which occurred in Grant County from 2 miles southwest of Medford to 2 miles south of Medford. The eleventh tornado, an F0, was observed by an off duty National Weather Service meteorologist to be knocking down trees and power lines in a 5 mile long damage path in southern Grant County. The twelfth tornado, an F1, snapped trees in half and damaged a private airstrip 4 miles east northeast of Pond Creek while the thirteenth tornado, also an F1, damaged several homes and knocked down trees and power lines 1 mile north of Salt Fork. The fourteenth tornado, an F0, was reported by spotters to have touched down briefly in an open field causing no damage.

The most destructive tornado occurred near the city of Lamont where damage estimates reached 2 million dollars. National Weather Service meteorologists conducted a survey of the area and found a damage path 5 1/4 miles long and 3/4 of a mile wide with F3 damage occurring 2 miles west of Lamont where a well-built brick home had all of its exterior walls destroyed. In addition, 6 single-family homes were destroyed 1.5 miles south of Lamont, while in the city of Lamont 3 single-family dwellings sustained major damage. Nine single-family homes suffered minor damage. Nearly a dozen vehicles were destroyed, including automobiles, pickup trucks, farm trucks, and farm tractors. Several barns were destroyed including one barn where 30 sheep were also killed. More than 70 utility poles were ripped down in a 3 mile stretch. The Lamont tornado, as it is referred, was unusual in its direction of movement. Several eye witnesses reported a southeast to northwest movement. WSR-88D data also showed the mesocyclone associated with the tornado moving from south to north in a looping manner when the tornado was reported. The last tornado, the sixteenth of this episode, touched down briefly in an open field 5 miles northwest of Tonkawa at 2130 CST. Tonkawa Emergency Management reported no damage. Thus, this tornado was rated an F0.

In addition to these tornadoes, a large macroburst containing damaging straight-line winds occurred from 13 miles west of Medford (Grant County) to 4 miles west northwest of Pond Creek. Satellite dishes owned by Classic Cable Company, which were rated at 110 mph, were flattened by the winds. Straight-line wind damage was also reported in Alva where one man sustained minor injuries when he was blown into the bed of a pickup truck. Also in Alva at least 3 mobile homes suffered major damage; several carports were destroyed; awning and minor roof damage occurred to many homes; and trees and power lines were blown down. One indirect fatality occurred in Alva when a man slipped and suffered a heart attack while seeking shelter in a storm cellar. Other reports of straight-line wind damage include major roof damage to an old schoolhouse gymnasium in the city of Jefferson in Grant County. Two large cedar trees were also uprooted in Jefferson. A tree limb was blown through a picture window 14 miles north northeast of Camp Houston in Woods County. Windows were also blown out of a shed, and numerous trees were downed. Four to six inch tree limbs were blown down 9 miles west of Cherokee in Alfalfa County. In Thomas in Custer County one utility pole was snapped and large limbs were blown down. Power lines were knocked down in Edmond in Oklahoma County. Severe winds also damaged the roof of the Fred Humphrey Pavillion in Shawnee in Pottawatomie County. The largest hail reported measured 3.5 inches in diameter

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OREGON, Central and East									
Crook County Prineville	04	1545PST 1645PST			0	0			Hail (1.00)
			A thunderstorm produced up to 1 inch hail, heavy rain, and wind gusts to between 50 and 60 mph. 1/2 inch hail covered the ground to a depth of one inch. 1.13 inches of rain fell in 20 minutes. Highway 26 east of Prineville had mud slides on it.						
Union County Union	04	1600PST 1620PST			0	0			Heavy Rain
			0.75 inches of rain fell in 20 minutes with water standing in the streets. Less than 1/4 inch hail.						
ORZ018			Columbia Deschutes Plateau						
	04	1640PST 1840PST			0	0			Flood
			West Branch of Bridge Creek south of Mitchell washed out some culverts then dropped to below bank full.						
Deschutes County Lapine State Arpt	20	1740PST			0	0			Tstm Wind/Hail
			A twelve inch lodgepole pine tree was snapped by high wind and smashed two cars.						
Wallowa County Imnaha	22 23	0300PST 0400PST			0	0			Heavy Rain
			3.10 inches of rain fell in a 25 hour period. Springs and streams flowing out of canyons flooded and left one to one and a half foot deep ruts in some roads.						
ORZ019			Northeast Oregon						
	25 30	1600PST 1400PST			0	0			Flood
			Nearly a week of steady rain, up to five inches in places, caused flooding problems across Union and Wallowa Counties. High water and debris clogged culverts causing numerous road washouts in the Imnaha area stranding several vehicles. Travel on other roads was restricted to people who lived there. High water threatened as many as eight homes in the town of Imnaha, flooded pastures and uprooted trees along the Imnaha River. Mud slides downed power lines and isolated two homes 26 miles from Imnaha. A state of emergency was declared in Wallowa county on May 27 through May 30. Sandbags, rock, and gravel were used to divert water in the towns of Union and Cove. Several other roads were closed in Union County because of high water. At least one home was flooded and the family was evacuated just outside the town of Union.						
Deschutes County Lapine State Arpt	28 29	1530PST 1530PST			0	0			Heavy Rain
			1.50 inches of rain was reported in 24 hours eight miles northwest of LaPine State Airport.						
Jefferson County Ashwood	28 29	1800PST 1800PST			0	0			Heavy Rain
			1.50 inches of rain fell in 24 hours.						
Crook County Prineville	28 29	2100PST 2100PST			0	0			Heavy Rain
			Two inches of rain fell in 24 hours.						
ORZ018			Columbia Deschutes Plateau						
	30	0145PST			0	0			Flood
			A car was washed away on the Post-Paulina road in Crook County. Search and Rescue had to pull the car out of the rising water. The passengers were unharmed.						
ORZ013			North Central Oregon						
	29 30	0800PST 0800PST			0	0			Flood
			Flooding in Madras closed several roads Friday and into early Saturday. One road had two feet of fast moving water flowing over it where a culvert could not contain a creek.						
ORZ014			Central Oregon						
	29	0800PST 1800PST			0	0			Flood
			More than an inch of rain overwhelmed the storm drain system in Redmond. This caused parking lots to fill up and streets to flood. City workers used pumps and sandbags to ease some of the flooding problems. All the water in the storm drain system overloaded the city sewer treatment plant and a ditch near the plant overflowed.						
ORZ018			Columbia Deschutes Plateau						
	29	1040PST			0	0			Flood

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Central and East

Highway 26 east of Mitchell was partially flooded. Some private bridges were washed out along Highway 19 near Fossil.

OREGON, Northwest

Benton County

Adair Vlg	01	1530PST 2000PST			0	0	5K		Thunderstorm Wind
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Strong winds blew into the Corvallis area from late afternoon into the evening. A Corvallis spotter reported numerous trees down all over town, and a tree fell on a garage on Peavy Arboretum road between Lewisburg and Adair Village. Thunderstorms were reported in Corvallis around the same time.

Hood River County

Parkdale	01	1600PST 1800PST			0	0	2K		Thunderstorm Wind
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Trees and power lines were reported down in Parkdale at about 1730 PST. Highway 35 was closed for a short time.

Marion County

Woodburn	01	1900PST 2000PST			0	0	25K		Lightning
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Lightning struck two houses in Woodburn, causing minor fires.

Washington County

Hillsboro	25	1600PST 1630PST			0	0			Hail (1.00)
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A small airplane pilot near Hillsboro reported brief quarter sized (one inch) hail at a little after 4 PM PST. The report was confirmed by a call to McMinnville Flight Service Station.

OREGON, Southeast

Malheur County

Harper	04	1430MST 1440MST			0	0			Funnel Cloud
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Two small, short lived funnel clouds were reported by a spotter near Harper, Oregon.

Malheur County

Jordan Vly	13	0900MST 1500MST			0	0			Urban/Sml Stream Fld
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Scattered heavy rain showers and thunderstorms over south east Oregon produced small stream flooding in Malheur County. Flooding was reported on Cow Creek and Jordan Creek. Three homes had to be sand bagged to protect them against rising water s on Jordan Creek. A section of Highway 95 west of Jordan Valley had water covering the road when a creek overflowed it's bank.

Malheur County

Westfall	23	1600MST 1800MST			0	0			Flash Flood
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A spotter reported 6 to 8 inches of mud on the Harper-Westfall Road north of Harper, evidence of a flash flood.

OREGON, Southwest

Lake County

20 NE Summer Lake	06	1630PST			0	0			Hail (0.75)
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A severe thunderstorm produced up to dime size hail from Christmas Valley to the Fort Rock area. The large hail covered the ground up to six inches in depth, and flattened alfalfa fields.

Klamath County

Klamath Falls	07	1705PST 1747PST			0	0			Flash Flood
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Klamath County

Klamath Falls	07	1740PST			0	0			Hail (0.75)
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An upper level trough and abundant moisture in the atmosphere combined to produce thunderstorms with hail and heavy rain in south central Oregon late on the afternoon of the 7th. Hail up to dime size piled up to three inches deep in Klamath Falls. Nearly an inch of rain fell in downtown Klamath Falls within an hour during the same storm, and caused extensive flooding of streets and businesses. Up to a foot of water filled streets and flowed into some businesses, causing minor damages.

ORZ008

Rogue Basin

20	0700PST 1230PST			0	0			Heavy Snow
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An unseasonably cold upper level low parked over southern Oregon produced locally heavy snow near the Siskiyou mountains on the morning of the 20th. Snowfall rates ranged up to three inches per hour, with total accumulations from 6 inches to a foot of new snow.

Coos County

2 W North Bend	25	1453PST			0	0			Waterspout
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OREGON, Southwest</u>									
Waterspout formed to the west of North Bend and dissipated offshore.									
<u>PACIFIC</u>									
Guam									
Ritidian Point	02	1600HST			1	0			Rip Currents
A man snorkeling with two friends became separated from them in strong currents. His body is yet to be found and is presumed drowned. The drought conditions across the Western Pacific seem to have abated this month. While rainfall may not have been heavy, it is higher than it has been the last few months and is closer to average. M?IW									
<u>PENNSYLVANIA, Central</u>									
Huntingdon County									
Water Street	04	2115EST			0	0			Hail (1.25)
Golf ball size hail was reported just northwest of Water Street.									
York County									
York	05	1730EST 2030EST			0	0			Flash Flood
Heavy rains caused flooding of highways and small streams.									
Cambria County									
Johnstown	05	1740EST			0	0			Hail (0.75)
Dime size hail was reported in the Johnstown area.									
Cambria County									
South Portion	05	1830EST 2230EST			0	0			Flash Flood
Somerset County									
North Portion	05	1830EST 2230EST			0	0			Flash Flood
Torrential thunderstorm downpours dumped between 2 to 3 inches of rain in about 2 hours time flooding streams and highways.									
Dauphin County									
South Portion	05	1845EST 2100EST			0	0			Flash Flood
Nearly 2 inches of rain fell in little more than an hour, flooding roads and small streams.									
Bedford County									
Bedford	05 06	1850EST 0100EST			0	0			Flash Flood
Between 2 and 3 inches of rain fell in Bedford in less than 2 hours time, flooding basements and small streams.									
Lancaster County									
Millersville	06	1404EST			0	0			Hail (0.80)
Lancaster County									
Millersville to Lancaster	06	1412EST			0	0			Hail (0.80)
Nickel size hail fell in Millersville and just north of Lancaster. Pea size hail covered the ground in Lancaster.									
Lancaster County									
Lititz	06	1530EST 1830EST			0	0			Flash Flood
Heavy rains caused flooding of roads across central and northern Lancaster County.									
Mckean County									
Kane	16	1615EST			0	0			Thunderstorm Wind (G51)
A tree was blown down in Kane, and pea size hail was reported south of Bradford.									
Northumberland County									
Riverside	16	2115EST			0	0			Thunderstorm Wind (G51)
Thunderstorm winds blew down trees and wires in Riverside.									
Centre County									
Filmore	25	0430EST			0	0			Thunderstorm Wind (G51)
Downburst winds blew over about 2 dozen trees one mile west of Filmore on Route 550, northwest of State College. A group of campers in the area for a reunion narrowly escaped injury when trees fell down around their tents.									
Centre County									
State College	25	0440EST			0	0			Hail (0.75)
Dime size hail fell northeast of State College.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Warren County Youngsville	29	1305EST			0	0			Thunderstorm Wind (G51)
			A tree was blown down in Youngsville.						
Mckean County Rew	29	1345EST			0	0			Thunderstorm Wind (G51)
			A tree was blown down on a car in Rew.						
Mckean County Kane	29	1415EST			0	0			Thunderstorm Wind (G51)
			Trees were down and power was disrupted.						
Mckean County Smethport	29	1418EST			0	0			Thunderstorm Wind (G51)
			Many trees were blown down between Smethport and Port Allegheny.						
Potter County Coudersport	29	1420EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Cameron County Emporium	29	1455EST			0	0			Thunderstorm Wind (G51)
			Limbs and power lines blown down.						
Tioga County Mansfield	29	1500EST			0	0			Thunderstorm Wind (G70)
			Many trees down. A mobile home was blown off its foundation.						
Sullivan County Shunk	29	1515EST			0	0			Hail (0.75)
Centre County Clarence	29	1520EST			0	0			Thunderstorm Wind (G51)
			Many trees down across the county.						
Clinton County Lock Haven	29	1550EST			0	0			Thunderstorm Wind (G51)
			Tree damage was widespread.						
Clinton County Mill Hall	29	1559EST			0	0			Thunderstorm Wind (G80)
			A roof was blown off the country club and a church in Mill Hall.						
Centre County Bellefonte	29	1600EST 1603EST	2	440	0	0			Tornado (F0)
			A weak tornado (F0, winds around 60 mph) touched down briefly in Bellefonte, Centre County, around 5pm EDT on Friday, May 29th. The storm produced a narrow 2-mile long path of damage extending from northwest to southeast. From approximately Water Street across Curtin and High Streets to the Blanchard Street extension just southeast of Mulbarger Road. The damage path was only about 2 blocks wide, or about 1/4 mile wide. While the damage appeared to be caused by straight line downburst winds, a trained spotter confirmed a brief touchdown of a small tornado in the vicinity of Tallyrand Park as the storm passed. There were no injuries reported from this storm.						
Lycoming County Williamsport	29	1600EST			0	0			Thunderstorm Wind (G51)
			Trees and power lines were blown down.						
Cambria County Ebensburg	29	1610EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Blair County Altoona	29	1615EST			0	0			Thunderstorm Wind (G51)
			Many trees and power lines down.						
Clearfield County Coalport	29	1615EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Clearfield County Du Bois	29	1630EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Clearfield County Clearfield	29	1641EST			0	0			Thunderstorm Wind (G51)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
			Trees down.						
Columbia County									
Bloomsburg	29	1645EST			0	0			Thunderstorm Wind (G51)
			Trees and wires down.						
Union County									
Lewisburg	29	1645EST			0	0			Thunderstorm Wind (G51)
			Many trees down.						
Huntingdon County									
Smithfield	29	1647EST			0	0			Thunderstorm Wind (G51)
			Trees blown down.						
Huntingdon County									
Huntingdon	29	1655EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Northumberland County									
Northumberland	29	1655EST			0	0			Thunderstorm Wind (G51)
			Trees were down in Northumberland and Sunbury. A large tree fell on a propane tank. Other parts of the county also had trees down.						
Montour County									
Danville	29	1705EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Dauphin County									
Millersburg	29	1725EST			0	0			Hail (0.88)
			Nickel size hail.						
Franklin County									
Pleasant Hall	29	1730EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Schuylkill County									
Frackville	29	1730EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Perry County									
New Bloomfield	29	1739EST			0	0			Thunderstorm Wind (G51)
			Trees were blown down across the county.						
Schuylkill County									
Cressona	29	1745EST			0	0			Thunderstorm Wind (G51)
			Large tree blown down.						
Cumberland County									
Newville	29	1800EST			0	0			Thunderstorm Wind (G85)
			A roof was blown off a house near Newville. Trees were down across the county.						
Dauphin County									
Harrisburg	29	1800EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
Somerset County									
Somerset	29	1800EST			0	0			Thunderstorm Wind (G51)
			Trees blown down.						
Dauphin County									
Hershey	29	1810EST			0	0			Thunderstorm Wind (G51)
			A tree was blown down on a car.						
Lebanon County									
Mt Gretna	29	1820EST			0	0			Thunderstorm Wind (G51)
			Trees down.						
York County									
Manchester	29	1820EST			0	0			Thunderstorm Wind (G51)
			Large tree blown down.						
Adams County									
Fountain Dale	29	1856EST			0	0			Thunderstorm Wind (G51)
			Trees and wires down.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Lancaster County									
Columbia	29	1930EST			0	0			Thunderstorm Wind (G51)
		A few trees were blown down.							
Warren County									
Lottsville	31	1210EST			0	0			Hail (0.88)
		Nickel size hail fell.							
Potter County									
Wharton	31	1500EST			0	0			Hail (0.88)
		Nickel size hail fell in Wharton.							
Potter County									
Burtville	31	1505EST			0	0			Thunderstorm Wind (G51)
		Trees were blown down in Summit Township near Borie.							
Lycoming County									
Cedar Run	31	1613EST			0	0			Hail (1.00)
		One inch hail fell in Cedar Run and 3/4 inch hail in Buttonwood.							
Lycoming County									
Buttonwood	31	1620EST 1625EST	0.5	440	0	0			Tornado (F1)
		An F1 tornado touched down on Sugar Hill just west of Buttonwood, traveled east across Route 15 passing through Buttonwood. A shed at a hunting lodge on Sugar hill was destroyed and a roof was blown off a lumberyard building in Buttonwood. Intermittent tree damage continued east for 15 miles into Sullivan County.							
Lycoming County									
Buttonwood	31	1630EST			0	0			Hail (1.00)
		1 inch hail fell in Buttonwood.							
Warren County									
Sugar Grove	31	1645EST			0	0			Tstm Wind/Hail
		A sign was blown down on a vehicle and nickel size hail fell in Sugar Grove.							
Mckean County									
Bradford	31	1730EST			0	0			Hail (0.75)
		Hail broke the windshield of a police car.							
Mckean County									
Smethport	31	1735EST			0	0			Thunderstorm Wind (G51)
		Trees were blown down north of Smethport.							
Potter County									
Genesee	31	1800EST			0	0			Hail (0.75)
Cameron County									
Cameron	31	1825EST			0	0			Thunderstorm Wind (G51)
		Trees blown down.							
Elk County									
Johnsonburg	31	1830EST 1835EST	3	100	0	0			Tornado (F1)
		An F1 tornado touched down near Kings Airfield on Grant Road about 5 miles north of Ridgway on Friday evening of May 31st. The storm moved northeast, crossing Route 948 before lifting off the ground. Damage was mostly to trees and farmland. Trees were also damaged by straight line winds in St. Mary's and Ridgway.							
Elk County									
Ridgway	31	1830EST 1831EST	0.5	100	0	0			Tornado (F0)
		A small tornado touched down just east of Route 948, 2 miles north of Ridgway just west of Moon Creek. Less than a dozen trees were blown over or damaged next to a warehouse.							
Cameron County									
Sinnamahoning	31	1910EST 1915EST	3	50	0	0			Tornado (F1)
		An F1 tornado touched down just south of Sinnamahoning near Wykoff Run Road. The storm moved southeast along Sinnamahoning Creek and Route 120 crossing into Clinton County, before ending along Montour Road. Trees were blown over or tops were damaged along the path, but no damage was noted to homes in the area.							
Clinton County									
Keating	31	1915EST 1918EST	2	50	0	0			Tornado (F1)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, Central</u>									
Columbia County Millville	31	2030EST			0	0			Thunderstorm Wind (G51)
									Trees down.
Fulton County Warfordsburg	31	2100EST			0	0			Thunderstorm Wind (G51)
									Trees and limbs down 1S of Warfordsburg.
Franklin County Mercersburg	31	2130EST			0	0			Hail (0.75)
Franklin County Greencastle	31	2150EST			0	0			Hail (0.75)
Bedford County Manns Choice	31	2200EST			0	0			Thunderstorm Wind (G51)
									Many trees blown down.
Huntingdon County Shade Gap	31	2230EST			0	0			Thunderstorm Wind (G51)
									Trees down.
Franklin County Chambersburg	31	2233EST			0	0			Thunderstorm Wind (G51)
									Trees down 5 miles south of Chambersburg.
Cumberland County Shiremanstown	31	2250EST			0	0			Thunderstorm Wind (G55)
Adams County Cashtown	31	2259EST			0	0			Thunderstorm Wind (G51)
									Trees down. Route 30 and 233 closed.
York County York	31	2310EST			0	0			Thunderstorm Wind (G85)
									Winds blew the roof of the Bell Socialization Services building in York. The top of a 60-foot white oak tree was blown off into a York area home.
Lancaster County Quarryville to Ninepoints	31	2330EST 2335EST	7	880	0	0			Tornado (F2)
									The tornado struck about 12:30am EDT in the early morning hours of Monday, June 1st. Initial touchdown was just south of Quarryville. The tornado traveled east along a 7 mile path to Ninepoints. Damage was most extensive in the Ninepoints area and was rated an F2 intensity (112 to 157 mph). The width of the F2 damage was probably 100 to 200 yards wide with lesser damage extending out to 1/2 mile. At least 6 homes had significant damage. One home had the roof and second floor removed. Several barns were damaged and at least one destroyed. Trees were blown down on a number of homes. One person reported sighting the tornado. Only one minor injury was reported.
Dauphin County Harrisburg	31	2335EST			0	0			Thunderstorm Wind (G51)
									Trees down.
York County York	31	2335EST			0	0			Hail (0.75)
<u>PENNSYLVANIA, East</u>									
Montgomery County King Of Prussia	02	1855EST			0	0	0		Lightning
									Lightning struck a house's chimney in Upper Merion Township. It caused structural damage to the chimney and several pieces of stone also fell through and damaged the roof.
Chester County Birmingham	06	0630EST			0	0	180K	0	Lightning
Chester County 4 SE West Chester	06	0635EST			0	0	0		Lightning
									Lightning struck the television antenna on the roof of a home in the Radley Run Country Club development in Birmingham Township within Chester County the morning of the 6th. The ensuing fire destroyed half the house. The fire started behind a dresser in the guest bedroom and then spread to the curtains and other rooms. Three persons within the house escaped injury. It took 45 firefighters an hour to extinguish the fire. Damage was estimated at \$180,000. In nearby Thornbury Township, lightning demolished a house's chimney. A third home was also struck by lightning within the county with no apparent damage. Thunderstorms produced between 4,000 and 5,000 cloud to ground strikes that morning across Chester, Bucks, Delaware and Montgomery Counties. PECO Energy and Pennsylvania Power and Light reported 30,200 customers lost power because of the

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, East

lightning strikes in the northwest Philadelphia suburbs. There were 3,600 outages within Chester County and 2,600 outages within neighboring Delaware County.

Montgomery County Franconia

06	0750EST	0	0	110K	0	Lightning
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Lightning struck and badly damaged a barn and its contents the morning of the 6th within Franconia Township in Montgomery County. Heavy downpours hampered the fire fighters and a tin roof helped hold the flames. Beside the barn's roof, a 1967 Pontiac Firebird and several tractors were also damaged. Damage was estimated at \$110,000. Thunderstorms produced between 4,000 and 5,000 cloud to ground strikes that morning across Bucks, Chester, Delaware and Montgomery Counties. PECO Energy and Pennsylvania Power and Light reported 25,300 customers lost power because of the lightning strikes, about 18,000 within Montgomery County.

Bucks County New Britain

06	0800EST	0	0	0	0	Lightning
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Lightning struck a house within New Britain Borough the morning of the 6th. It caused an electrical fire within the basement and badly damaged it. Fire damage was confined to the basement, but heat and smoke damage spread through the first and second floors of the house. No injuries occurred or property damage estimate was available. Thunderstorms produced between 4,000 and 5,000 cloud to ground strikes that morning across Bucks, Chester, Delaware and Montgomery Counties. PECO Energy and Pennsylvania Power and Light reported 30,200 customers lost power because of the lightning strikes, about 6,000 within Bucks County.

Bucks County 2 W Sellersville

06	0830EST	0	0	0	0	Tstm Wind/Hail
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A thunderstorm dropped numerous small hailstones in West Rockhill Township during the morning of the 6th. So much hail fell, that it covered the ground and was described that it looked like a snowstorm. No serious injuries or damage were reported.

Montgomery County Cheltenham

06	1900EST	0	0	0	0	Lightning
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Lightning struck a home on Jenkintown Road within Cheltenham Township. A fire started in a second floor bedroom and before it could be extinguished, two bedrooms were heavily damaged and there was smoke and heat damage throughout the rest of the home. The house was expected to be uninhabitable for about 6 months.

Northampton County Easton

06	2000EST	0	0	0	0	Lightning
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Lightning struck and knocked down a tree within Easton's College Hill area. It caught on fire, fell and blocked a roadway the evening of the 6th. The frequent lightning caused power outages to about 300 homes and businesses in and around Easton.

PAZ054>055-060>062-067>071

Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia

08	0400EST	0	0			Prolonged Rain
12	1400EST					

Montgomery County Schwenksville

08	1945EST	0	0	0		Flash Flood
	2200EST					

A series of low pressure systems that passed through the Middle Atlantic States and then stalled offshore gave Eastern Pennsylvania nearly five days of continuous rain from when it started Friday morning the 8th until it exited the state from north to south on Tuesday the 12th. Storm totals ranged from 2.1 to 5.1 inches. The highest storm totals were in Bucks and Monroe Counties. The lowest occurred in Chester County. Overall there were few periods of heavy downpours and there were sufficient lulls of light rain or drizzle to keep most small streams within bankfull. The only gaged streams that briefly exceeded bankfull were the Wissahickon within Philadelphia and the Perkiomen Creek in Schwenksville (Montgomery County). Flooding problems were confined to flooded basements, backyards and some poor drainage flooding.

The heaviest rain for any given day during this event was mainly Friday the 8th. The axis of heavy rain slowly shifted northward over the weekend. The heaviest rain on Saturday the 9th through Monday the 11th fell across sections of the Lehigh Valley and the Poconos. Precipitation totals on the 12th were generally under a quarter of an inch throughout the region. Tuesday May 12th also marked the 12th consecutive day that any precipitation (trace or greater) fell at the Philadelphia International Airport. This tied the monthly record for the month of May previously set in 1894.

Heavy rain the evening of the 8th caused some minor flooding along the Perkiomen Creek in Schwenksville. The creek crested at about 7.5 feet. Flood stage is estimated at 7 feet. Heavy rain the evening of the 8th also caused the Wissahickon Creek in Philadelphia to crest at its flood stage of 5.0 feet at about 10:45 p.m. EDT.

Storm totals included 5.07 inches in Springtown (Bucks County), 4.70 inches in Tobyhanna (Monroe County), 4.65 inches in Chadds Ford (Delaware County), 4.44 inches in Mount Pocono (Monroe County), 4.06 inches in Perkasio (Bucks County), 3.83

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

PENNSYLVANIA, East

inches at the Willow Grove NAS (Montgomery County), 3.77 inches in Crum Creek (Delaware County), 3.63 inches in Valley Forge (Montgomery County), 3.45 inches in Easton (Northampton County), 3.44 inches in Palm (Montgomery County) and the Northeast Philadelphia Airport, 3.26 inches in Glenmoore (Chester County), 3.13 inches at the Lehigh Valley International Airport, 3.05 inches at the Philadelphia International Airport, 2.86 inches in Hamburg (Berks County), 2.76 inches in Reading (Berks County) and 2.24 inches in Lehighton (Carbon County).

A low pressure system heading toward the Middle Atlantic States was in the lower Ohio Valley the morning of the 7th. By the morning of the 8th, it moved into northern Indiana as a secondary was forming in Virginia. On the morning of the 9th, this secondary low was located about 325 miles southeast of Philadelphia. But, it became trapped by a low at upper levels of our atmosphere and drifted slowly south through the morning of the 10th. Meanwhile, a large high pressure system started building into Northern New England. Yet another low pressure system developed over the Southern Plains on the 9th and was in the Tennessee Valley the morning of the 10th. On the morning of the 11th, two low pressure systems, one trapped under the closed low in the western Atlantic and the other just east of Charleston, South Carolina continued the wet onshore flow. These two lows merged into one by the morning of the 12th about 275 miles east of Cape Hatteras, North Carolina and remained nearly stationary through the 14th. The high pressure system over Northern New England slowly built south and brought drier air into the region and gave the area its first rain-free days of the month on the 13th and 14th.

PAZ069>071

Bucks - Delaware - Philadelphia

12	0000EST	0	0	0	Tidal Flooding
13	0500EST				

The combination of the continuous rain, onshore flow up the Delaware Bay and high astronomical tides because of the recent full moon produced widespread minor to locally moderate tidal flooding at the times of high tide along the Delaware River and tidal sections of its tributaries on the 12th and 13th, particularly during the higher early morning high tides. Some low-lying streets near the Delaware and Schuylkill Rivers were flooded in Philadelphia. Some low-lying flooding occurred in the former Navy Yard, in the Gulf Oil area and between Philadelphia International Airport and Essington in Delaware County. The highest tide in Philadelphia occurred at 330 a.m. EDT on the 13th: 9.4 feet above mean lower low water, a departure of 2.5 feet above normal. Moderate tidal flooding starts at 9.3 feet above mean lower low water. The second highest tide was 9.1 feet above mean lower low water at 3 a.m. EDT on the 12th. Some minor tidal flooding also occurred on the 11th and 14th.

Berks County Breezy Corner

25	0650EST	1	0	0	Lightning
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A 37-year-old male was struck and killed by lightning at the Golden Oakes Golf Course in Ruscombmanor Township in Berks County. The gentleman was leaving for shelter on the fourth hole of the golf course when lightning struck him in the face. M37GF

Berks County 2 N Fleetwood

25	0650EST	0	0	0	Thunderstorm Wind
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A severe thunderstorm tore down power lines in Richmond Township causing about 700 homes and businesses to lose power the morning of the 25th. Lightning caused an additional 800 homes and businesses to also lose power throughout Berks County that morning.

Montgomery County Hatfield

25	0745EST	0	0	1K	0 Lightning
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Montgomery County Montgomeryville

25	0745EST	0	0	125K	0 Lightning
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Montgomery County Worcester

25	0800EST	0	0	2K	0 Lightning
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Thunderstorms with frequent lightning caused property damage to at least four homes in Montgomery County during the morning of May 25th. By far the worst damage occurred to a home in Montgomery Township. Lightning struck the house's chimney and started a fire in the attic. There was fire and water damage to the house's attic and second floor. The family was away for the weekend. Damage was estimated at \$125,000. In Hatfield Borough, a lightning strike damaged the dryer in one home and melted a hole in the gutter of a second home. In Worcester Township, lightning toppled the chimney of a two story home. Some of its masonry came down into the flue and into the family room. Other lightning strikes were reported in Cheltenham, East Greenville and Lower Providence Townships with little reported damage. About 1,700 homes lost power due to lightning strikes throughout Montgomery County.

Northampton County 3 SW Pen Argyl

25	0800EST	0	0	0	Lightning
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Lightning caused two separate fires in Plainfield Township the morning of the 25th in Northampton County. One lightning strike set a barn on fire and the second strike set a shed on fire.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, East

Bucks County

Langhorne 25 0815EST 0 0 0 **Lightning**
 Lightning struck a tree behind a Langhorne (Bucks County) house the morning of May 25th. The bolt travelled down the tree and into the house shattering light bulbs and rendering nearly every major appliance in the house useless. Other homes were struck by lightning in Bristol, Doylestown and Middletown Townships, but suffered little apparent damage.

Monroe County

Pocono Summit 29 1730EST 0 0 0 **Lightning**
 Lightning struck two homes in Pocono Summit.

Northampton County

2 SE Wind Gap 29 1730EST 0 0 0 **Lightning**
 Lightning struck a large metal shed and started a fire in Plainfield Township. The 50 foot wide wood lining within the shed caught on fire. A 15 foot section of the shed's metal side melted because of the intense heat as did some four wheelers and a golf cart within the shed. Firefighters had to close Pennsylvania State Route 191 while fighting the blaze. Elsewhere within Northampton County, lightning knocked down a couple of trees within Bangor.

Lehigh County

Slatington 29 1755EST 0 0 0 **Thunderstorm Wind**
 A line of severe thunderstorms knocked down a few trees and wires across the northern part of Lehigh County.

Northampton County

Countywide 29 1800EST 0 0 0 **Thunderstorm Wind**
 A line of severe thunderstorms produced scattered pockets of wind damage throughout Northampton County. Downed trees were reported in Bath, Easton, Nazareth and Upper Mount Bethel. Pennsylvania State Route 611 was closed until 930 p.m. EDT in Easton because of downed trees blocking the roadway. Between the damaging winds and intense lightning, about 4,000 homes and businesses lost power in the county.

Berks County

Hamburg to Boyertown 29 1830EST 0 0 0 **Thunderstorm Wind**
 A line of severe thunderstorms uprooted trees in and around Muhlenberg Township and pulled down limbs in the northern and eastern parts of the county. Downed limbs were reported in the following communities: Boyertown, Hamburg, Leesport, Mohrsville and Topton.

Chester County

West Chester 29 1950EST 0 0 0 **Thunderstorm Wind**
 A severe thunderstorm downed a couple of trees within West Chester. The same thunderstorm proceeded to down trees and power lines farther southeast in both Delaware and Gloucester Counties.

Delaware County

Ridley Park to Upland 29 2015EST
2020EST 0 0 0 **Thunderstorm Wind**
 A severe thunderstorm pulled down large tree limbs and power lines diagonally across Delaware County from Ridley Park and Edgemont Township southeast through Middletown Township and Upland Borough.

Berks County

Centerport 31 1940EST 0 0 0 **Hail (0.75)**

Berks County

Leesport 31 1955EST 0 0 100K **Thunderstorm Wind**

Berks County

Evansville to 2 E Lyons 31 2000EST
2015EST 8.3 120 0 7 1.4M **Tornado (F3)**

Berks County

Moselem Spgs 31 2010EST 0 0 0 **Hail (1.75)**

Berks County

5 NW Kutztown to 6 SE Topton 31 2020EST
2035EST 0 0 0 **Thunderstorm Wind (G50)**

A violent thunderstorm produced a swath of wind damage across the northern half of Berks County and included an eight mile long strong F3 (Fujita Scale) Tornado that devastated the borough of Lyons. Seven persons were injured (five within Lyons). About 40 homes were either destroyed or damaged in Lyons, Maiden Creek, Maxatawny and Richmond Townships. Preliminary damage estimates for the entire event were placed at \$1.5 million dollars. About 10,250 homes and businesses lost power. The last homes to come back on line were in Lyons on June 3rd. This was the first tornado of that strength to occur in Southeast Pennsylvania and the Southern Poconos since the Limerick Tornado on July 27, 1994 and the first F3 tornado to occur within Berks County since November 4, 1950.

Even before the tornado formed, the parent thunderstorm was producing wind damage in western Berks County. Wind damage

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, East

started in Centre Township as several trailers were overturned in Donny Acres. In Leesport, the severe thunderstorm ripped the entire roof off one home. The couple in the house was temporarily trapped after the porch roof they use to access the stairs collapsed. The thunderstorm also ripped the roof and some bricks off a detached garage. Other houses and buildings on East Main Street also had some minor wind damage. Debris from a knitting company's air conditioning unit pelted a neighborhood. Wind damage also occurred in Ontelaunee Township along Pennsylvania State Route 61.

The tornado made its initial touchdown just to the east of Lake Ontelaunee in Maiden Creek Township around 9 p.m. EDT and moved almost due east across Richmond Township into the borough of Lyons (about 910 p.m. EDT), across southern Maxatawny Township and lifted in northern Rockland Township and 915 p.m. EDT. The tornado was on the ground for about 8.3 miles. Its path width was around 120 yards.

The tornado destruction started near U.S. Route 222 in Maiden Creek Township as the roof was blown off one farmhouse. A vehicle was also crushed by a tree. In Maxatawny Township six homes were severely damaged. One house collapsed on Smoketown Road in the Bowers area. A second house lost its roof in the Arrowhead Development. The damage increased across Richmond Township as 10 homes or farms were destroyed or damaged. Pennsylvania State Route 662 was closed between U.S. Route 222 and the Fleetwood Borough line because of downed poles and trees. Parts of U.S. Route 222 were also closed because of debris on the road. One house completely collapsed. At one farm the tornado toppled a huge silo and ripped off the roofs of another silo and the barn. At another home, the remains of a large metal storage bin rested on top of the house. Golf ball size hail also damaged two vehicles and a metal awning. The same parent thunderstorm also produced straight line wind damage farther south in Ruscombmanor Township.

The worst damage occurred in the borough of Lyons. The north side of the borough was destroyed. About one quarter of the borough's 550 residents were affected by the tornado. The tornado damage within this borough led to a presidential declaration of a disaster area for Berks County. About 100 residents were sheltered. The tornado cut a two block wide path along Hunter Street just north of the Conrail Tracks. About 25 homes were heavily damaged, several collapsed. Miraculously, only five persons were injured. The last two tornado related injuries occurred in northern Rockland Township as it lifted and threw a modular home from its foundation. The two men inside were injured. The tornado then lifted.

Although the tornado lifted, the parent thunderstorm still produced wind damage across eastern Berks County. Noble Street was closed in Kutztown because of downed trees and lines. Trees were also uprooted in Longswamp Township. Downed limbs and wires caused power outages in District, Greenwich, Longswamp and Rockland Townships.

Lehigh County Alburtis to Coopersburg

31	2013EST 2033EST	0	0				Thunderstorm Wind (G50)
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The same parent thunderstorm that produced the tornado in Berks County caused widely scattered pockets of wind damage as trees and power lines were pulled down across the southern half of Lehigh County.

Bucks County Dublin

31	2047EST	0	0	0			Thunderstorm Wind
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Severe thunderstorms knocked down a few trees across the northern half of Bucks County.

Chester County Spring City

31	2057EST	0	0	0			Thunderstorm Wind
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A severe thunderstorm uprooted several trees in Spring City. One roadway was closed because of a downed tree.

Monroe County Snydersville

31	2112EST	0	0				Hail (0.75)
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Monroe County Tobyhanna to Stroudsburg

31	2112EST 2127EST	0	0				Thunderstorm Wind
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Monroe County 2 NE Long Pond

31	2117EST	0	0	0			Lightning
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A severe thunderstorm uprooted numerous trees and downed power lines, mainly in the northern half of Monroe County. A 14-year-old East Stroudsburg boy died from an asthma attack during the thunderstorm. Downed trees on roadways hindered the paramedics during their rescue operations. Downed trees blocked Pennsylvania State Route 447 in three separate locations. In Coolbaugh Township, the fire department responded to over 20 calls of downed trees. In Barrett Township trees were uprooted in over a dozen places and they also blocked Pennsylvania State Route 390. Numerous trees were also uprooted in Monroe Lake and throughout Middle Smithfield Township. About 8,700 homes and businesses lost power in Monroe County. All were restored by the evening of the first. One school district had to cancel classes because of the power outages on the 1st. Around 119,000 homes and businesses lost power throughout Pennsylvania Power and Light's service area in the Pocono Region. Lightning also ignited a fire that destroyed a home in the Mountaintop Estates Development. The damage estimate was not available.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, East

Montgomery County

Port Indian to East Norriton 31 2130EST 0 0 0 **Lightning**

Montgomery County

Center Square Greens 31 2150EST 0 0 0 **Lightning**

A thunderstorm with frequent lightning caused damage across parts of lower Montgomery County between 1030 p.m. and 11 p.m. EDT. In West Norriton, lightning struck a tree and it landed onto a garage. In East Norriton, a lightning bolt blasted the Timberlake Apartments. Thirteen apartments were damaged as the lightning travelled through the wires of the apartment's air conditioning units. The jolt pushed some of the air conditioning units into the apartments setting carpeting and/or walls on fire. In Whitpain Township, 200 elderly persons were evacuated from the Normandy Farms Estate Retirement Community after lightning struck the roof of an elevator silo between two wings of the building. The ensuing fire was confined to the roof area of the silo. No injuries were reported and damage estimates were not available.

Northampton County

Wind Gap to Glendon 31 2202EST
2207EST 0 0 **Thunderstorm Wind (G50)**

Trees and power lines were pulled down in pockets of Northampton County by a severe thunderstorm. Most of the damage was in the eastern half of the county.

Berks County

Reading 31 2330EST 0 1 0 **Lightning**

Berks County

2 SE St Lawrence 31 2330EST 0 1 0 **Lightning**

A thunderstorm with frequent lightning caused two injuries in and around Reading. Within the city itself, lightning struck and injured a man walking on 11th and Rockland Streets. In Exeter Township, a 74-year-old woman suffered a leg injury when lightning struck a tree and it landed on and destroyed her mobile home.

Chester County

2 S Atglen to 4 SE Malvern 31 2340EST
2358EST 0 2 500K **Thunderstorm Wind (G62)**

Chester County

1 NE Daleville to 5 N Avondale 31 2343EST
2350EST 6 100 0 0 200K **Tornado (F1)**

Chester County

Bucktown 31 2345EST 0 0 **Thunderstorm Wind (G50)**

Chester County

Lenape to 5 S West Chester 31 2352EST
2358EST 3 100 0 0 300K **Tornado (F1)**

A line of severe thunderstorms pounded the southern half of Chester County mainly to the south of U.S. Route 30 (Lincoln Highway) the night of May 31st with wind gusts to near hurricane force and two tornadoes. A weak tornado (F1 on the Fujita Scale) moved through Londonderry and West Marlborough Townships. A second tornado (F1 on the Fujita Scale also) moved through eastern Pocopson and Birmingham Townships. Damage estimates were around one million dollars and included road clearance, clearing trees from houses and automobiles as well as damage to homes. Throughout the county one mobile home was destroyed, five homes had major damage or were destroyed, 19 homes had minor to moderate damage and 24 homes had minor or less damage. The hardest hit communities included Birmingham Township, Cochranville (part of West Fallowfield Township), Highland Township, Kenneth (including Kenneth Square) Township, Londonderry Township and New Garden Township. Only two persons were injured in Cochranville. Cochranville, Highland Township, Londonderry Township, Lower Oxford Township, West Fallowfield Township and West Marlborough Township all were declared either local disaster or county emergency areas. Governor Tom Ridge also declared Chester County a disaster emergency. About 115,000 homes and businesses lost power. About 28,000 customers were still without power during the night of June 1st. Power was not completely restored until the evening of the 4th. This was the fourth worst and the greatest non-winter storm to affect the PECO Energy service area in its 50 year history. About 336,000 customers lost power throughout their service area and PECO Energy distributed about 365,000 pounds of dry ice. Sections of major roads such as U.S. Route 1, and Pennsylvania State Routes 41, 52, 82 and 926 were closed by downed trees and wires. Even in open sections, traffic crawled due to non working traffic lights. Roads were still closed in Birmingham, East Fallowfield, Highland, London Grove, Londonderry and New Garden Townships the night of June 1st. Five southern Chester County School districts had to cancel classes on Monday, June 1st. One could not reopen until Wednesday, June 3rd.

The line of severe thunderstorms entered the county in West Fallowfield and Lower Oxford Townships about 1240 a.m. EDT on June 1st and wasted no time causing damage. In Lower Oxford Township poles along Pennsylvania State Route 10 were snapped and Pennsylvania State Route 896 was partially blocked by downed trees. In West Fallowfield Township, the thunderstorms hit the King Road area of Cochranville the hardest. About 30 homes were damaged. A couple of mobile homes were either crushed or severely damaged by fallen trees. One woman was temporarily trapped. Several barns or silos were also destroyed. On one plot over 100 trees were uprooted. The Red Cross worked with thirteen displaced families in the area.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

PENNSYLVANIA, East

The first tornado of the night touched down in Londonderry Township at about 12:43 a.m. EDT on June 1st. The touchdown occurred just north of the intersection of Fernwood and Jackson Roads. The tornado moved west to east into West Marlborough Township. It was there it reached its maximum intensity. The tornado continued to travel almost due east and lifted in the extreme eastern part of the township near Pennsylvania State Route 842. Hundreds of trees were knocked down, but structural damage since this tornado passed through relatively rural areas was minimal. The tornado stayed on the ground for about 6 miles and its width was about 100 yards.

Even though the tornado lifted, wind damage continued farther east into East Marlborough Township. Hundreds of trees were uprooted, at least one vehicle was crushed and a flag pole was bent to the ground. In northern parts of London Grove Township, a couple of mobile homes were overturned and a tree crushed a garage. At one point during the night, all major roads were closed in New Garden Township due to downed trees and wires. As the line headed farther east, almost all of Kenneth Square lost power as large trees were uprooted. Many homes and vehicles were hit by trees. Included in the tree casualties, was a 140-year-old Kentucky Coffee Tree, which was one of the oldest in the eastern part of Pennsylvania.

As the line went farther east, it dropped the second tornado of the night. At about 12:52 a.m. EDT a tornado touched down in the far eastern part of Pocopson Township along Pennsylvania State Route 52 just to the west of the Brandywine River and the intersections of Pennsylvania State Routes 52 and 100. The tornado moved northwest to southeast into Birmingham Township and intensified into a F1 tornado and caused damage. The tornado lifted just west of the Dilworthtown Inn in Dilworthtown near the Delaware County line. Hundreds of trees were down with power lines down in over one hundred locations. At least five homes had roof and window damage. The Spring Meadows Development had some of the worst damage with a couple of homes and several vehicles struck by fallen trees. The tornado was on the ground for about 3 miles and its width was about 100 yards. It appears as though the winds in this tornado reached near the high end of the F1 scale and probably were close to 100 mph at its maximum intensity.

The wind damage was not done in Chester County. The line of severe thunderstorms sheared off part of the side of a house in West Chester. In Easttown, eight roads were closed because of downed trees. While most of the wind damage was in the southern half of the county, a thunderstorm in the far northern part of the county also turned severe in East and South Coventry Townships. In Bucktown in South Coventry Township, one tree fell on a home and damaged some of its shingles and rain spouts. In East Coventry Township, six roads were at least partially blocked by downed trees.

Montgomery County

Pottstown to Trooper

31	2355EST 2359EST	0	0	Thunderstorm Wind (G50)
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A squall line of severe thunderstorms produced wind damage across central parts of Montgomery County. This would be the same line of severe thunderstorms that would produce a tornado in Upper and Lower Moreland Townships once it reached this location. In Pottstown the damage started with toppled trees and scattered power outages. Downed trees and wires were then reported farther south in Skippack and Lower Providence Townships. The damaged intensified as the line reached into southern Montgomery County. The high winds and intense lightning caused 60,000 PECO Energy customers in Montgomery County to lose power that night. All power were restored by the morning of Thursday June 4th. PECO Energy distributed about 365,000 pounds of dry ice throughout its service area.

PENNSYLVANIA, Northeast

Bradford County

East Smithfield

25	0700EST	0	0	Hail (0.75)
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A thunderstorm developed across western Bradford county around 7:35 am EDT. It quickly intensified and produced small hail in both Gillette and Troy. At about 8:00 am EDT, the cell briefly reached severe limits as dime sized hail was observed in East Smithfield. Thereafter, the storm weakened as it moved into eastern portions of the county.

Bradford County

East Smithfield to Towanda

29	1450EST 1500EST	0	0	20K	Thunderstorm Wind
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A line of severe thunderstorms moved across Bradford County during the afternoon. Trees and wires were toppled in East Smithfield at 3:50 pm and in Towanda at 4:00 pm EDT.

Susquehanna County

Forest Lake to Susquehanna

29	1510EST 1525EST	0	0	30K	Thunderstorm Wind
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A line of severe thunderstorms moved across Susquehanna County during the afternoon. Trees and wires were knocked down in Forest Lake at 4:10 pm, Rushville at 4:15 pm, and Susquehanna township at 4:25 pm EDT.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, Northeast

Wyoming County 2 NE Osterhout to Evans Falls

29	1600EST 1610EST				0	0	10K		Thunderstorm Wind
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A line of severe thunderstorms moved across Wyoming County during the afternoon and knocked down trees and wires 2 miles northeast of Osterhout at 5:00 pm and in Evans Falls at 5:10 pm EDT.

Wayne County 3 E Waymart

29	1610EST				0	0	5K		Thunderstorm Wind
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A severe thunderstorm knocked down trees just south of Cherry Ridge at 5:10 pm EDT.

Lackawanna County Scranton

29	1615EST				0	0	10K		Thunderstorm Wind
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A severe thunderstorm moved through Lackawanna County during the afternoon and knocked down many large trees and wires on the north side of Scranton around 5:15 pm EDT.

Luzerne County Dallas to Mtn Top

29	1645EST 1705EST				0	0	150K		Thunderstorm Wind
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A line of severe thunderstorms moved across Luzerne County knocking down trees and wires countywide between 5:45 and 6:05 pm EDT. Trees and wires were downed in Dallas at 5:45 pm and in Kingston at 5:55 pm EDT. Several roofs were also blown off with a few large trees uprooted in and near Mountain Top.

Pike County 9 NE Milford

29	1652EST				0	0	10K		Thunderstorm Wind
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A severe thunderstorm moved across the central portion of the county during the afternoon and knocked down trees and wires in Matamoras at 5:52 pm EDT.

A strong cold front plowed into a moist unstable environment across northeastern Pennsylvania late in the afternoon on the 29th. The result was several areas of organized severe thunderstorm activity in the form of squall lines and bow echoes.

Two long lived bow echo features affected northeastern Pennsylvania on this day. The first began earlier that afternoon across north central sections of the commonwealth. It moved into western Bradford county between 3:30 and 4:00 pm EDT. By the time it had moved across the Delaware River near Milford shortly before 6:00 pm EDT, widespread wind damage had been incurred across the northern tier counties. Another intense squall line ripped by farther to the south affecting the Wilkes-Barre/Scranton metropolitan area and adjacent portions of the Poconos between roughly 4:45 pm and 6:15 pm EDT. Perhaps the hardest hit area was in Mountain Top in southern Luzerne county. Strong wind gusts estimated at near 90 mph tore roofs and aluminum siding off several houses.

The severe thunderstorms had all moved into the Catskills of New York state or northern New Jersey by 6:30 pm EDT.

Luzerne County Shavertown to 1 SW Avoca

31	1715EST 1718EST				0	0	75K		Tstm Wind/Hail
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Severe thunderstorms moving across the county produced nickel to golfball sized hail in Pittston, Dupont, and Shavertown between 6:15 and 6:18 pm EDT. Many trees and power lines were also downed. Two vehicles were pinned underneath large tree branches in Pittston and sustained heavy damage.

Bradford County New Albany

31	1725EST				0	0	15K		Thunderstorm Wind
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A thunderstorm briefly reached severe limits across southern portions of the county. Trees and wires were downed in New Albany around 6:25 pm EDT.

Lackawanna County Old Forge

31	1727EST				0	0	75K		Tstm Wind/Hail
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Severe thunderstorms moving across the county produced between 3/4 and 2 inch diameter hail in Old Forge at 6:27 pm EDT. Vehicles had cracked and/or smashed windshields from the largest hail. Also, wind damage was observed in the form of fallen trees and downed utility poles.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, Northeast

Wayne County Sterling

31	1750EST 1800EST					0	0	50K	Tstm Wind/Hail
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Severe thunderstorms moving across the county produced 1 to 2 inch hail between 6:50 and 7:00 pm in Sterling township. Siding damage to a house was incurred from the falling hailstones. In addition, strong winds downed numerous trees and wires just before 7:00 pm EDT.

Luzerne County 2 NE Pittston

31	1800EST	0.2	40			0	0	50K	Tornado (F0)
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A severe thunderstorm intensified and briefly became tornadic over Jackson township in eastern portions of the county around 7:00 pm EDT.

Eyewitness reports and damage surveys indicate tree tops were twisted off and a few utility poles were sheared off. The pattern of the damage was chaotic with tree limbs in many directions. The tornado appeared to be near ground level for only a brief time before it lifted back into the cloud base. Fortunately, it touched down away from more populated areas.

Lackawanna County Old Forge

31	1835EST					0	0	10K	Thunderstorm Wind
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Severe thunderstorms downed trees and wires in Old Forge at 7:35 pm EDT.

Pike County 3 SW Blooming Grove to 1 SW Blooming Grove

31	1908EST 1912EST	2	550			0	0	200K	Tornado (F2)
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The tornadic supercell that affected southern Wayne county a bit earlier in the evening continued eastward into Pike county. A tornado touched down briefly in Promised Land and then plowed through portions of Promised Land State Park before temporarily lifting into the cloud base.

The twister cut approximately a 2 mile by 500 yard path through heavily forested areas of the park. Camp sites were littered with trees as the tornado cut down hundreds of them. Some of the trees were very sizeable and they were still chopped down or twisted off quite easily as evidenced by ground and aerial post storm surveys. A few homes near the path of the twister sustained minor to moderate damage from falling trees. Fortunately, camp grounds and vacation homes were largely unoccupied when the tornado struck.

The tornado appeared to be near ground level for only a few minutes as the damage path became discontinuous again just east of the park.

Susquehanna County Montrose

31	1916EST					0	0	10K	Thunderstorm Wind
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A severe thunderstorm crossing central portions of the county blew down trees in Montrose at 8:16 pm EDT.

Lackawanna County 2 NE Elmhurst

31	1920EST	0.3	30			0	0	75K	Tornado (F0)
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A thunderstorm briefly became tornadic across extreme southern portions of the county. An F0 tornado appeared to touch down for a short time in Jefferson township at about 9:20 pm EDT.

The tornado was only on the ground for a minute or two as determined from storm surveys and eyewitness accounts. A small swath of tree damage was evident just west of Half Moon Lake. Tree tops were sheared off in all directions. The damage path was approximately a quarter of a mile by about 30 yards.

Lackawanna County Old Forge

31	1920EST	0.1	100			0	0	100K	Tornado (F0)
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A severe thunderstorm dropped an F0 tornado on Old Forge township around 8:20 pm EDT.

The tornado only appeared to be near ground level briefly as judged from residents who witnessed the event. A restaurant had its front windows blown out and several trees in the front yard near the parking lot toppled. The twister then skipped down an embankment and downed a few more trees before lifting back into the cloud base. Fortunately, there were no injuries.

Pike County Blooming Grove to 2 E Blooming Grove

31	1920EST 1930EST	3	200			0	0	400K	Tornado (F2)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, Northeast

A severe thunderstorm became tornadic just south of Interstate 84 and east of Tarey Hill in Blooming Grove township around 8:20 pm EDT. The tornado cut approximately a 3 mile by 200 yard path paralleling Interstate 84.

The twister moved through heavily forested areas and mowed down hundreds of trees in its path. Again, many of the trees were quite sizeable and appeared to be toppled easily. The damage pattern was circular in spots as viewed by aerial surveys. Fortunately, little in the way of houses or populated regions were in the path of this particular tornado. The tornado's intensity seemed to fluctuate between F1 and F2. The tornado lifted back up just east of route 739 near Cranberry Ridge as little in the way of damage was seen downstream of this point.

Several local roads were closed for up to 24 hours from fallen trees.

Pike County

Pecks Pond to 1 NE Dingmans Ferry	31	1920EST 1945EST	20	200	0	2	1M	Tornado (F3)
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The cell that produced tornadic damage earlier both in southern Wayne county and just upstream in Promised Land State Park dropped a tornado once again across the southern and southeastern portions of Pike county. A nearly continuous 20 mile path was uncovered via aerial storm surveys from Pecks Pond east-southeastward to near route 739 in Delaware township. The average width of the damage path was about 200 yards.

The twister descended once again in the Pecks Pond area around 8:20 pm EDT. At that point, the intensity was rated as F2 as the tornado cut down nearly every tree in its path on its way towards Blue Heron Lake. At approximately 8:30 pm, the tornado struck the small vacation community surrounding Blue Heron Lake. A summer home was leveled by the force of the twister. The only things left standing were an interior wall and a few sturdy metal cabinets on the floor in the kitchen. An adjacent mobile home was severely damaged as well. Two campers near this area had minor injuries from falling tree limbs. Otherwise, though, injuries were kept to a minimum as homes were mostly vacant. In addition, an estimated thousands of trees were sheared off or toppled bordering Blue Heron Lake both to the west and east. The twister's intensity increased at this point to F3. Further downstream, the tornado continued to cut a consistent path of twisted off and/or uprooted trees across the Little Mud Pond, Silver Lake, and Deer Leap Factory areas. The tornado appeared to skip across hilltop sections along this route with its intensity mainly in the F1 range. Finally, just before 8:45 pm EDT, the tornado ascended once again in Delaware township as little in the way of damage was evident between route 739 and the Delaware River.

In all, emergency management and federal officials estimated that in excess of 1 million dollars damage was incurred along this approximately 20 mile path. Many roads were closed as they became impassable due to fallen trees and wires. Portions of routes 402 and 390 were closed for several days. In addition, sections of Promised Land State Park were closed off to the public for about two weeks until all debris was cleared away and power was restored.

Bradford County

New Albany	31	1945EST			0	0	10K	Thunderstorm Wind
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A thunderstorm became severe over southern portions of the county. Trees and wires were downed in New Albany around 8:45 pm EDT.

Wayne County

1 S Sterling	31	1950EST	0.5	30	0	0	50K	Tornado (F0)
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A severe thunderstorm became tornadic across extreme southern portions of the county. Eyewitness reports and post storm surveys indicate that a tornado briefly touched down in Dreher township around 7:50 pm EDT.

The tornado appeared to skip over hilltop areas for a minute or two before lifting back into the cloud base. Spurts of tree and power line damage were seen from above. Trees and large limbs were fallen in several directions with the damage pattern rather chaotic. The tornado's intensity was rated as F0 at this point with the damage path about a half mile by 30 yards or so.

Wayne County

Gouldsboro	31	2000EST			0	0	10K	Thunderstorm Wind
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A thunderstorm reached severe levels over extreme southern sections of the county late in the evening. Several trees and wires were toppled in Gouldsboro as the storm passed through around 9:00 pm EDT.

Wyoming County

Beaumont	31	2015EST 2017EST	0.5	50	0	0	75K	Tornado (F1)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, Northeast

A thunderstorm became tornadic over extreme southern portions of the county late in the evening. The cell dropped an F1 tornado on Beaumont township around 9:15 pm EDT.

Post storm surveys and eyewitness accounts indicate that the tornado was near ground level only briefly as it skipped over a cemetery site and down an embankment just south of state route 2018. A house sustained minor damage from falling tree limbs near the path of the twister. A metal sign was bent over from the force of the winds and a few large trees were sheared off.

The tornado lifted back up before crossing route 309. The distance of its path was about a half mile by 50 yards.

Wayne County South Canaan

31	2020EST								
		0	0		25K			Hail (1.00)	

A severe thunderstorm moving across the county produced 1 inch hail in South Canaan at 9:20 pm EDT. Several trailers at a mobile home park had smashed windows and dented siding as a result.

Lackawanna County Scranton to Waverly

31	2045EST 2100EST								
		0	0		30K			Thunderstorm Wind	

A cluster of severe thunderstorms moving across the county blew down numerous trees and wires in northern sections of Scranton, Waverly, and Taylor between 9:45 and 10:00 pm EDT.

Pike County Greentown

31	2050EST 2053EST	0.3	30						
				0	0		40K	Tornado (F0)	

A severe thunderstorm briefly produced a tornado over southwestern portions of the county late in the evening. An F0 tornado touched down over Greentown around 9:50 pm EDT.

The twister toppled trees and sheared off some tree tops just east of route 447. The path of the damage was about a quarter of a mile by 30 yards.

Wayne County Waymart

31	2125EST								
		0	0		10K			Thunderstorm Wind	

A severe thunderstorm moving across the county blew down trees in Waymart at 10:25 pm EDT.

Wayne County South Canaan

31	2147EST								
		0	0		10K			Thunderstorm Wind	

The same severe cell that produced wind damage in the Scranton area earlier in the evening also caused damage in extreme southern Wayne county. Trees and wires were downed in South Canaan township just after 10:45 pm EDT.

An intensifying storm system moved across upstate New York and into southern Quebec early in the morning on the 31st. This system dragged a warm front across northeastern Pennsylvania. Behind this front, a southerly flow of warm, moist, and unstable air quickly developed. This set the stage for the development of severe weather later that afternoon as a cold front and strong upper air disturbance approached.

From late in the afternoon until late that evening, northeastern Pennsylvania was under siege from severe thunderstorms, including several tornadic supercells. In all, nine separate tornadoes touched down on this day. Overall damage estimates run into the millions with many homes and structures heavily damaged or destroyed. The most devastating storms occurred in Pike county. Within about a 3 hour stretch from 7 to 10 pm EDT, four different twisters affected the county. One tornadic cell was responsible for knocking down thousands of healthy large trees in and around Promised Land State Park with several vacation homes damaged or leveled. Fortunately, injuries were kept at a minimum.

Widespread straight line wind damage also occurred with hailstones the size of ping pong balls falling in some places. The north side of Scranton had extensive wind damage as a storm passed through shortly before 10 pm EDT and sections of Wayne and Luzerne counties had roads closed and/or blocked from falling trees for more than 2 days after the storm. Pennsylvania Power and Light Company estimated that hundreds of thousands of customers were without power at the height of the storms on the evening of the 31st. Some of the more remote locations did not have power restored for the better part of a week.

PENNSYLVANIA, Northwest

Erie County Corry

04	1415EST								
				0	0			Hail (0.75)	

Erie County Corry

29	1230EST								
				0	0		5K	Thunderstorm Wind	

Trees and power lines were downed.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, Northwest</u>									
Crawford County Meadville	29	1245EST			0	0	4K		Thunderstorm Wind
		Trees were downed.							
Crawford County Cochranton	29	1254EST			0	0	3K		Thunderstorm Wind
		Trees were downed.							
Crawford County Springboro	31	1128EST			0	0			Hail (1.00)
		Large hail covered the ground.							
Erie County Edinboro	31	1139EST			0	0			Hail (1.00)
Crawford County Cambridge Spgs	31	1155EST			0	0			Hail (1.75)
Erie County Albion	31	1545EST			0	0			Hail (1.00)
Erie County West Springfield	31	1546EST			0	0			Hail (1.00)
Erie County Fairview	31	1613EST			0	0			Hail (1.00)
Erie County Erie	31	1623EST			0	0			Hail (0.75)
		Large hail fell approximately four miles south of the city of Erie.							
Erie County Girard	31	1658EST			0	0	2K		Thunderstorm Wind
		Trees were downed.							
Crawford County Conneautville	31	1705EST			0	0			Hail (1.75)
Crawford County Saegertown	31	1710EST			0	0			Hail (1.75)
<u>PENNSYLVANIA, West</u>									
Indiana County Countywide	05	1925EST 2100EST			0	0	10K		Flood
		Route 286 between Indiana and Clymer was flooded. Airport Road by Indiana Airport was flooded. Numerous basements in the area were also flooded.							
Armstrong County 1 W Nu Mine	05	2200EST 2300EST			0	0			Flood
		Cowanshannock Creek was out of its banks and onto Route 85 between Nu mine and Rural Valley.							
Butler County Criders Corners	19	1830EST			0	0	1K		Thunderstorm Wind
		Thunderstorm winds downed a tree.							
Allegheny County Pittsburgh	19	1850EST			0	0	5K		Thunderstorm Wind
		A large limb fell onto a car in the Shadyside section of Pittsburgh.							
Greene County Waynesburg	24	1738EST			0	0			Hail (1.25)
Fayette County Masontown	24	1840EST			0	0	1K		Thunderstorm Wind
		Thunderstorm winds downed a tree across a road.							
Butler County 1 S Butler	29	1501EST			0	0	3K		Thunderstorm Wind
		Large trees were downed just south of Butler.							
Jefferson County Punxsutawney	29	1512EST			0	0			Hail (0.75)
Butler County Renfrew	29	1528EST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, West									
			Trees were downed by thunderstorm winds.						
Armstrong County									
Ford City	29	1530EST			0	0	3K		Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Butler County									
Sarver	29	1545EST			0	0	2K		Thunderstorm Wind
			Five trees were downed by thunderstorm winds.						
Indiana County									
Blairsville	29	1550EST			0	0	3K		Thunderstorm Wind (G65)
			Thunderstorm wind gusts to 75 mph downed several trees and large branches.						
PAZ032									
			Fayette						
	29	1600EST			0	0			Flood
		1800EST							
			Runoff from thunderstorm rains caused some street flooding throughout Fayette County. Some roads were closed in Connellsville, Perryopolis, and Brownsville.						
Indiana County									
Creekside	29	1605EST			0	0	6K		Thunderstorm Wind
			Numerous trees and power lines were downed by thunderstorm winds.						
Westmoreland County									
North Washington	29	1655EST			0	0	3K		Thunderstorm Wind
			Trees and power lines were downed by thunderstorm winds.						
Fayette County									
Countywide	29	1720EST			0	0	6K		Thunderstorm Wind
		1740EST							
			Several trees were downed throughout the county.						
Washington County									
Countywide	29	1720EST			0	0	8K		Thunderstorm Wind
		1745EST							
			Thunderstorm winds downed power lines and trees throughout the county.						
Allegheny County									
2 S Mt Lebanon	29	1740EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed a tree onto power lines and blocking a road.						
Westmoreland County									
Mt Pleasant	29	1745EST			0	0			Thunderstorm Wind (G51)
			An amateur radio spotter reported a wind gust to 60 mph.						
Allegheny County									
1 W Bethel Park	29	1745EST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds downed trees.						
Washington County									
Charleroi	31	1730EST			0	0			Hail (0.75)
Beaver County									
Beaver Falls Co Arpt	31	1737EST			0	0			Thunderstorm Wind (G51)
			Thunderstorm wind gust to 59 mph measured at the airport.						
Allegheny County									
Sewickley	31	1739EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Allegheny County									
Imperial	31	1740EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Allegheny County									
Pittsburgh	31	1745EST			0	0			Thunderstorm Wind (G51)
			A wind gust to 59 mph was measured in downtown Pittsburgh.						
Allegheny County									
West View	31	1750EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Allegheny County									
Pittsburgh	31	1752EST			0	0			Thunderstorm Wind (G52)
			A wind gust to 60 mph was reported in the North Hills section of Pittsburgh.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, West									
Westmoreland County									
Delmont	31	1800EST			0	0	3K		Thunderstorm Wind
			Several large trees were downed by thunderstorm winds.						
Washington County									
South Strabane	31	1800EST			0	0	10K		Lightning
			Lightning sparked a fire that caused damage to the attic and roof of a two-story wood framed house.						
Allegheny County									
Penn Hills	31	1803EST			0	0	2K		Thunderstorm Wind
			Large trees were downed by thunderstorm winds.						
Venango County									
Nectarine to 5 E Clintonville	31	1810EST 1815EST			0	0	20K		Thunderstorm Wind (G61)
			Thunderstorm wind gusts to 70 mph downed several trees and some power lines. One home was lightly damaged when a tree fell into it. Some mobile homes had damage to the skirting.						
Allegheny County									
West View	31	1814EST			0	0	5K		Thunderstorm Wind
			A tree fell onto a van in West View.						
Lawrence County									
New Castle	31	1815EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed trees.						
Mercer County									
Countywide	31	1815EST 1825EST			0	0	10K		Thunderstorm Wind
			Numerous trees were downed throughout as a line of thunderstorms moved quickly east at 70 mph through the county.						
Venango County									
Oil City	31	1825EST			0	0	5K		Thunderstorm Wind
			Numerous trees were downed throughout Oil City.						
Forest County									
Marienville	31	1830EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed trees.						
Washington County									
Vestaburg	31	1837EST			0	0			Hail (1.00)
Fayette County									
1 S Brownsville	31	1850EST			0	0			Hail (1.75)
Fayette County									
Republic	31	1850EST			0	0			Hail (1.75)
Greene County									
Countywide	31	1900EST 1920EST			0	0	8K		Thunderstorm Wind
			Trees and power lines were downed throughout the county.						
Clarion County									
1 NE Scotch Hill	31	1900EST			0	0	3K		Thunderstorm Wind
			Power lines and trees were downed.						
Clarion County									
St Petersburg	31	1900EST			0	0	3K		Thunderstorm Wind
			Trees and power lines were downed by thunderstorm winds.						
Fayette County									
9 SE Uniontown	31	1925EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Beaver County									
New Brighton	31	1950EST			0	0	6K		Thunderstorm Wind
			Numerous trees were downed by thunderstorm winds and a building was damaged by a falling tree.						
Beaver County									
Aliquippa	31	2000EST			0	0			Funnel Cloud
			An amateur radio operator reported a funnel cloud.						
Allegheny County									
Ben Avon	31	2015EST			0	0	4K		Thunderstorm Wind
			Numerous trees were downed by thunderstorm winds.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, West</u>									
Westmoreland County New Kensington	31	2020EST			0	0			Thunderstorm Wind (G56)
			A wind gust to near 65 mph was reported.						
Butler County West Sunbury	31	2030EST			0	0	3K		Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Westmoreland County Derry	31	2035EST			0	0			Hail (0.75)
Indiana County Armagh	31	2042EST 2046EST			0	0			Hail (0.88)
			Penny to nickle size hail was reported.						
Westmoreland County Mt Pleasant	31	2050EST			0	0	15K		Lightning
			Lightning sparked a fire and caused damage to the attic and the outside overhang of the house. Five people inside the house escaped unharmed.						
Washington County Donora	31	2100EST			0	0	10K		Thunderstorm Wind
			A roof was blown off a house.						
Fayette County Vanderbilt	31	2100EST			0	0	2K		Lightning
			Lightning sparked a small fire that caused damage to a clothes dryer, electrical wiring and a nearby rug.						
Westmoreland County Latrobe	31	2105EST			0	0	15K		Thunderstorm Wind
			Thunderstorm winds knocked down trees and blew out windows in some downtown businesses.						
Westmoreland County Latrobe	31	2105EST			0	1	5K		Thunderstorm Wind
			A tree fell onto a vehicle, trapping and injuring the occupant.						
Westmoreland County Hermie	31	2118EST			0	1			Lightning
			A man was reported to have been struck and injured by lightning. No further details were available.						
Fayette County Perryopolis	31	2130EST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds downed a tree.						
Westmoreland County Hermie	31	2218EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed 3 trees.						
<u>PUERTO RICO</u>									
Arecibo Manati	14	1330AST 1530AST			0	0	5K		Urban/Sml Stream Fld
San Juan Countywide	14	1330AST 1530AST			0	0	20K		Urban/Sml Stream Fld
			Heavy rains produced urban flooding along the north coast of Puerto Rico from Catano to Manati. Several residences in Dorado and Manati were affected by the waters.						
San Juan Morovis	14	2100AST 2300AST			0	0			Flash Flood
San Juan Orocovis	14	2100AST 2300AST			0	0			Flash Flood
			Various roads across Orocovis and Morovis were impassable due to river Cibuco overflowing its banks. Landslides were also reported in rural sectors.						
San Juan Vega Alta	15	0100AST 0300AST			0	0			Flood

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PUERTO RICO									
									River Cibuco went out of its banks along some low sectors of Vega Alta and flooded various roads and highways.
San Juan Orocovis	15	1400AST 1700AST			0	0	15K		Heavy Rain
San Juan Trujillo Alto	15	1400AST 1700AST			0	0	30K		Heavy Rain
									Very heavy rains in the afternoon produced numerous mudslides across the north central sections of Puerto Rico. In Trujillo Alto a residence and several roads were affected by the landslides. In Orocovis several roads were partially impassable due to mudslides.
Arecibo Arecibo	18	1500AST 1800AST			0	0	500K		Flash Flood
									Daytime heating combined with high moisture content produced very heavy rains across the municipality of Arecibo. About seventy three residences were totally or partially affected due to several canals that overflowed.
Arecibo Arecibo	18	1630AST 1830AST			0	0			Urban/Sml Stream Fld
									Heavy rains produced urban flooding in Arecibo. Various streets were flooded due to poor drainage.
Humacao Ceiba	19	1720AST 1735AST			0	0			Funnel Cloud
									Roosevelt Roads Naval Base personnel sighted a funnel cloud just east of Ceiba.
Ponce Adjuntas	21	1400AST 1700AST			0	0	20K		Heavy Rain
									Very heavy rains produced several landslides across the municipality of Adjuntas. Two houses were damaged by the landslides.
Aguadilla San Sebastian	22	1500AST 1700AST			0	0	20K		Urban/Sml Stream Fld
									Heavy rains produced urban flooding and landslides over San Sebastian. Several residences were affected by the waters due to poor drainage. A low lying area in sector Guajataca was also affected by the waters.
San Juan Countywide	23	1530AST 1800AST			0	0	40K		Urban/Sml Stream Fld
									Heavy rains across the north sections of Puerto Rico produced urban flooding in Toa Baja and Bayamon. In Toa Baja several roads and parts of the town had flooding problems. In Bayamon four residences in La Milagrosa sector had flooding problems due to poor drainage.
Arecibo Camuy	26	1700AST 1830AST			0	0			Urban/Sml Stream Fld
									Civil Defense reported urban flooding in Camuy.
Arecibo Arecibo	29	1430AST 1630AST			0	0	30K		Flash Flood
									Flash flooding occurred in parts of Arecibo. At the Miraflores sector several houses were affected by the floods.
Humacao Rio Grande	29	1600AST 1800AST			0	0			Flash Flood
									Rio Grande Civil Defense indicated low lying areas along highway 3 impassable due to some creeks that overflowed their banks. River Mameyes near Palmer sector overflowed its banks.
Aguadilla San Sebastian	30	1400AST 1600AST			0	0	10K		Flash Flood
Arecibo North Portion	30	1400AST 1600AST			0	0	30K		Flash Flood
									Civil Defense indicated roads and houses flooded in Arecibo, Barceloneta, Manati and San Sebastian.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
SOUTH CAROLINA, Central									
Edgefield County 14 SSW Edgefield	07	1912EST			0	0			Hail (1.75)
		SKYWARN spotter reported golf ball size hail near SC highway 230.							
Saluda County 1.5 WSW Ward to .5 SW Ward	07	1912EST 1915EST	1.5	150	0	0	50K		Tornado (F1)
		An F1 tornado damaged several buildings and homes and picked up two cotton bin holders and threw them 100 yds.							
Edgefield County 12 SW Edgefield to 10 SSE Edgefield	07	1915EST 1935EST	12	880	1	9	1M		Tornado (F3)
		An F3 tornado either destroyed or severely damaged around 60 homes and mobile homes and a church. One person was killed when her mobile home took a direct hit and was completely destroyed. Widespread trees were taken down. F38MH							
Aiken County 5 NNW Aiken to 5.3 NNW Aiken	07	1945EST 1947EST	3	100	0	0	0		Tornado (F0)
		An F0 tornado touched down near I-20 and SC highway 19 taking down trees.							
Aiken County 5 NNW Aiken	07	1947EST			0	0			Hail (0.88)
		SKYWARN spotter reported nickel size hail.							
Aiken County Salley	07	2002EST			0	0			Thunderstorm Wind (G50)
		Spotter reported trees down, some on houses.							
Orangeburg County North	07	2010EST			0	0			Hail (0.88)
		Police report nickel size hail.							
Orangeburg County Springfield to North	07	2025EST 2035EST			0	0			Thunderstorm Wind (G60)
		EOC reported trees down from Springfield to North.							
Orangeburg County Cordova	07	2040EST			0	0			Hail (1.75)
		Sheriff reported golf ball size hail.							
Bamberg County Denmark	07	2100EST			0	0	0		Thunderstorm Wind (G55)
		Police reported trees down around town.							
Edgefield County 5 S Edgefield	07	2105EST			0	0			Hail (0.88)
		Sheriff reported nickel size hail.							
Barnwell County 2 N Blackville	07	2115EST			0	0	0	0	Thunderstorm Wind (G50)
		Highway department reported trees down on SC highway 3.							
Mccormick County Meriwether	07	2313EST 2315EST	0.5	100	0	0			Tornado (F0)
		Sheriff reported trees down with minor damage to some homes.							
Newberry County Little Mtn	08	0100EST			0	0			Thunderstorm Wind (G50)
		Spotter reported trees and powerlines down.							
Fairfield County 5 SW Winnsboro	08	0130EST			0	0			Thunderstorm Wind (G50)
		Sheriff reported trees down.							
Lexington County 8 SW Lexington	08	0145EST			0	2	15K		Thunderstorm Wind (G50)
		Trees fell on a vehicle as it pulled out from under an over pass on I-20 at SC highway 34.							
Orangeburg County Neeses	10	1455EST			0	0			Hail (1.00)
		EOC reported 1 inch hail in Neeses.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Central</u>									
Orangeburg County 5 W Orangeburg to 2 W Orangeburg	10	1505EST 1510EST			0	0	0	0	Thunderstorm Wind (G50)
									Sheriff reported trees and powerlines down in Bolentown.
Orangeburg County Santee	10	1510EST			0	0			Hail (1.75)
									SKYWARN spotter reported golf ball size hail.
Orangeburg County Cordova	10	1512EST			0	0	0	0	Thunderstorm Wind (G60)
									Sheriff reported trees down.
Orangeburg County Cordova	10	1514EST			0	0			Hail (1.75)
									Sheriff reported golf ball size hail.
Orangeburg County 5 E Orangeburg	10	1520EST			0	0			Hail (1.75)
									SKYWARN spotter reported golf ball size hail.
Sumter County Pinewood	10	1628EST 1629EST	0.2	50	0	0	0	0	Tornado (F0)
									An F0 briefly touched down and took some trees down around Panola and Avin roads.
Bamberg County Bamberg to 2 ENE Bamberg	10	1645EST 1650EST			0	0			Thunderstorm Wind (G60)
									Highway Maintenance Dept reported trees down along SC highway 20 from Bamberg to the Orangeburg county line.
Orangeburg County 9 SW Cordova to Cordova	10	1650EST 1700EST			0	0			Thunderstorm Wind (G60)
									Highway Maintenance Dept reported trees down along SC highway 70 from the Bamberg/Orangeburg county line to Cordova.
Sumter County Sumter	17	1707EST			0	0			Hail (0.75)
									Sumter police report dime size hail on Pocalla road.
Orangeburg County 5 E Orangeburg	17	1810EST			0	0			Hail (1.75)
									Sheriff reported golf ball size hail at the intersection of SC hwy 176 and 301.
Orangeburg County Rowesville	17	1815EST			0	0			Hail (2.75)
									Sheriff reported baseball size hail at Rowesville.
<u>SOUTH CAROLINA, North Coastal</u>									
Williamsburg County 12 SE Kingstree	03	2225EST 2230EST			0	0			Hail (1.00)
									Reported along Highway U.S. 527.
Marion County Peedee to Marion	04	1250EST 1300EST			0	0			Hail (1.75)
Dillon County Floydale	04	1304EST 1310EST			0	0			Hail (2.00)
Florence County Claussen	04	1305EST 1310EST			0	0			Hail (2.00)
Horry County Conway	04	1330EST 1340EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, North Coastal</u>									
Florence County Lake City	04	1340EST 1355EST			0	0	1K		Hail (1.75)
									Along with hail, wind damaged wheat field near Lake City.
Georgetown County Georgetown	04	1425EST 1430EST			0	0			Hail (1.00)
									Reported at intersection of U.S. 701 and S.C. 6.
Horry County Surfside Beach to Little River	04	1514EST 1520EST			0	0			Hail (1.00)
Georgetown County Murrells Inlet	04	1515EST 1530EST			0	0			Hail (1.75)
									A springtime low pressure trough from the midwest collided with a seabreeze front moving inland. Many hail reports were received, with hail sizes mostly around an inch.
Marion County Mullins to Nichols	17	1830EST 1835EST			0	0			Hail (0.75)
Horry County Galivants Ferry	17	1911EST 1915EST			0	0			Hail (0.75)
Marion County Rains	17	2000EST 2005EST			0	0			Hail (0.75)
Georgetown County Georgetown	17	2030EST 2100EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm winds caused power outages across the city.
Horry County Socastee	17	2210EST			0	0	30K		Lightning
									Lightning sparked a fire in a condominium in Deerfield Plantation. Thunderstorms moved slowly south across the area, with very active lightning and penny-size hail.
Horry County Socastee	27	1203EST 1230EST			0	0	20K		Thunderstorm Wind (G60)
									Reports of twisted signs and hail ranging from pea size up to golf ball size at Conway. Two mobile homes were damaged by snapped trees, and other trees on lines caused power outages to 500 homes and businesses.
Marlboro County Bennettsville to Clio	27	1533EST 1550EST			0	0			Hail (0.75)
									Hail occurred with winds strong enough to cause power outages.
Marlboro County Bennettsville	27	1750EST 1805EST			0	0	10K		Thunderstorm Wind (G60)
									Strong winds downed trees, signs, and blew debris around Bennettsville. Heavy rains measured up to 4.5 inches, causing curb-dee p water in the city. Hail reports ranged to 1 inch diameter.
Florence County Pamplico	30	2037EST 2130EST			0	0			Flash Flood
									Heavy rains caused flooding and roads were closed from Walnut to 7th Street.
<u>SOUTH CAROLINA, Northwest</u>									
Oconee County 5 NE Walhalla	03	2030EST			0	0			Hail (2.75)
Pickens County 8 NW Pickens	03	2050EST 2100EST			0	0			Hail (2.75)
Pickens County 4 N Pickens	03	2110EST			0	0			Hail (2.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH CAROLINA, Northwest									
Greenville County Cleveland	03	2115EST 2120EST			0	0			Hail (2.75)
Laurens County Laurens to Clinton	03	2220EST			0	0			Hail (0.75)
A large severe thunderstorm produced baseball size hail across three counties in the Upstate. The hailstorm lasted for 10 minutes northwest of Pickens and for 5 minutes in the Cleveland area of Greenville county. Dime size hail was reported between Laurens and Clinton from another severe thunderstorm.									
Oconee County 5 W Walhalla	07	1608EST	0.1	50	0	0			Tornado (F0)
Oconee County 5 W Westminster	07	1608EST			0	0			Hail (1.75)
Oconee County Oakway	07	1625EST 1627EST	0.1	50	0	0	5K		Tornado (F0)
A weak tornado briefly touched down in the town of Oakway downing trees and blowing roofs off outbuildings. The tornado was seen by several citizens and weather spotters.									
Anderson County Anderson	07	1654EST			0	0			Hail (1.75)
Anderson County 6 W Belton	07	1707EST			0	0			Hail (1.75)
Anderson County 3 NW Honea Path	07	1719EST			0	0			Hail (2.75)
Anderson County 3 NW Honea Path	07	1719EST			0	0			Thunderstorm Wind (G50)
Anderson County 5 S Anderson	07	1720EST			0	0			Thunderstorm Wind (G50)
Abbeville County 2 NNW Due West to 2 SSE Due West	07	1725EST 1735EST			0	0			Hail (1.00)
Abbeville County 2 NNW Due West to 2 SSE Due West	07	1725EST 1735EST	5	50	0	0	30K		Tornado (F0)
A weak short-lived tornado downed numerous large trees and blew a carport off house, and underpinning off a trailer.									
Greenwood County 3 W Hodges to 2 SE Hodges	07	1742EST 1800EST			0	0			Hail (2.75)
Greenwood County 3 W Hodges to 2 SE Hodges	07	1742EST 1800EST	10	100	0	0	75K		Tornado (F1)
A weak tornado touched down near the Abbeville county line and moved east-southeast damaging some buildings, lifting a pick-up truck off the ground and lodging it in a tree, and killing goats and pigs. Hundreds of trees were downed in the Creekside subdivision.									
Abbeville County Calhoun Falls	07	1745EST			0	0			Hail (1.00)
Anderson County Anderson	07	1800EST 2000EST			0	0			Urban Flood
Oconee County 3 NW Walhalla	07	1829EST			0	0			Hail (1.00)
Oconee County 4 N Walhalla	07	1829EST			0	0			Hail (1.00)
Anderson County Sandy Spgs	07	1842EST			0	0			Hail (1.00)
Greenville County 5 S Fork Shoals	07	1912EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH CAROLINA, Northwest									
Laurens County 5 NW Mt Olive	07	1915EST			0	0			Hail (1.00)
Laurens County 5 NW Mt Olive	07	1915EST			0	0			Thunderstorm Wind (G50)
Oconee County 6 WNW Fair Play	07	1925EST			0	0			Hail (0.88)
			Supercell thunderstorms developed rapidly in a highly sheared and unstable environment in east Tennessee and north Georgia during the late afternoon and tracked east-southeast. One long-lived supercell crossed into Oconee county around 5 pm EDT and tracked southeast through Anderson, Abbeville and Greenwood counties. Two weak tornadoes touched down briefly in Oconee county. The same storm produced a weak tornado in Abbeville and Greenwood counties as well. This supercell also produced hail up to baseball size and actually clipped extreme southern Greenville county and western Laurens with quarter to golf ball size hail. Rear flank downdraft winds blew down trees and power lines in Anderson county. Laurens county also had trees and power lines blown down from the forward flank downdraft. Heavy rain from the severe thunderstorm caused several streets and roads in and around the city of Anderson to be flooded for a couple hours. Another supercell made its way into Oconee county later in the evening and produced nickel size hail near Chickasaw Point before weakening.						
Oconee County Seneca	10	1015EST			0	0	25K		Thunderstorm Wind (G50)
Pickens County Norris	10	1100EST			0	0			Hail (0.75)
Pickens County Liberty	10	1123EST			0	0			Hail (0.75)
Greenville County Mauldin to 7 SE Mauldin	10	1230EST 1600EST			0	0			Flash Flood
			A cluster of thunderstorms crossed the Upstate during the midday hours. One became severe and produced damaging straight line winds that blew a canopy off a gas station, blew trees and power lines down, and knocked a tower over in Seneca. Dime size hail was reported in couple of locations in Pickens county. Heavy rain of over 2 inches in a 30 minute period in the Simpsonville and Mauldin areas of southern Greenville county caused the Gilder and Horspen creeks to flood through the late afternoon.						
Greenville County Tigerville	21	1700EST			0	0			Hail (0.75)
Spartanburg County 2 N Spartanburg	21	1705EST			0	0			Hail (1.75)
Greenville County 8 N Greer	21	1715EST			0	0			Hail (1.00)
Spartanburg County 2 W Spartanburg	21	1718EST			0	0			Hail (0.75)
Spartanburg County 2 W Spartanburg	21	2027EST			0	0			Hail (2.00)
Spartanburg County 2 N Spartanburg	21	2053EST			0	0			Hail (1.75)
			A couple of thunderstorms became severe across Greenville and Spartanburg counties and produced hail ranging in size from dimes to hen eggs. Marble to dime size hail lasted for 10 minutes in the Tigerville area. The Westgate Mall area just west of Spartanburg received two separate rounds of large hail.						
Greenville County Simpsonville	27	1510EST			0	0			Hail (1.00)
Greenville County Simpsonville	27	1510EST			0	0			Thunderstorm Wind (G50)
Greenville County Fountain Inn	27	1522EST			0	0			Hail (1.00)
Greenville County Fountain Inn	27	1522EST			0	0			Thunderstorm Wind (G50)
Cherokee County Blacksburg	27	1530EST			0	0			Hail (1.00)
York County 5 W Bethany	27	1539EST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Northwest</u>									
Spartanburg County 2 W Woodruff to Woodruff	27	1545EST			0	0			Thunderstorm Wind (G50)
York County 8 E York	27	1600EST			0	0			Hail (1.00)
York County 8 E York	27	1600EST			0	0			Thunderstorm Wind (G50)
York County 1 W York	27	1630EST			0	0			Hail (1.00)
York County 1 W York	27	1630EST			0	0			Thunderstorm Wind (G50)
Greenville County 3 E Travelers Rest	27	1750EST			0	0			Thunderstorm Wind (G50)
Greenville County Taylors to Greer	27	1804EST			0	3			Thunderstorm Wind (G50)
Greenville County 3 N Grnvl Sptrnbrg Arpt	27	1822EST			0	0			Thunderstorm Wind (G50)
Spartanburg County 1 NE (Gsp)Grvl-Spnbng Apt	27	1825EST			0	0			Thunderstorm Wind (G50)
<p>Thunderstorms developed along a stationary front draped near the North Carolina/South Carolina border. Several of these multi-cell thunderstorms became severe and produced damaging straight-line winds and large hail. Most of the wind damage was confined to downed trees and power lines. However, some of the trees fell on homes and cars on the west side of Fairview and the Standing Springs area near Simpsonville. Also some homes were damaged in the Quail Run section of Fountain Inn and from Taylors over towards Greer. Outbuildings were damaged just northeast of the Greenville-Spartanburg Airport. A barn roof was blown off northwest of Greer and a few members of a soccer team sustained minor injuries.</p>									
Spartanburg County Spartanburg	29	0100EST			0	0	150K		Lightning
Spartanburg County North Portion	29	0120EST 0320EST			0	0			Flash Flood
<p>A cluster of slow-moving thunderstorms caused several creeks to flood in the northern part of Spartanburg county during wee hours of the morning. Two roads were washed out, a couple houses were flooded, and water those rose 8-9 feet above the top of the bank, drowned pigs and goats. Lightning struck the a large house on the west side of the city of Spartanburg which ignited a fire, destroying the second floor and all its contents.</p>									
<u>SOUTH CAROLINA, South Coastal</u>									
Allendale County Martin	03	1405EST 1408EST			0	0			Thunderstorm Wind (G50)
Trees and powerlines down.									
Hampton County Hampton	03	1420EST 1423EST			0	0			Thunderstorm Wind (G50)
Trees and large limbs down.									
Dorchester County 10 W Summerville	03	1430EST 1435EST			0	0			Hail (1.00)
Hampton County 3 NE Varnville	03	1430EST 1433EST			0	0			Thunderstorm Wind (G50)
Trees and powerline down.									
Colleton County 4 SE Islandton	03	1455EST 1500EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, South Coastal</u>									
Dorchester County Knightsville	03	1510EST 1515EST			0	0			Hail (0.75)
Charleston County Lincolville	03	1525EST 1528EST			0	0			Thunderstorm Wind (G50)
			Trees and large limbs down.						
Berkeley County Ladson	03	1527EST 1530EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Beaufort County 15 SE Beaufort	03	1535EST 1540EST			0	0			Hail (0.88)
Berkeley County Goose Creek	03	1538EST 1541EST			0	0			Hail (1.75)
Beaufort County 2 E Beaufort	03	2244EST 2247EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Colleton County 3 E Cottageville	03	1445EST 1450EST			0	0			Hail (1.00)
Colleton County 3 E Cottageville	03	1445EST 1448EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Jasper County Hardeeville	03	2250EST 2253EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Allendale County Sycamore	04	1230EST 1235EST			0	0			Hail (1.75)
Dorchester County Summerville	04	1310EST			0	0			Hail (0.75)
Berkeley County 7 N Ladson to 5 NE Ladson	04	1315EST 1320EST			0	0			Hail (0.75)
Berkeley County Jamestown	04	1405EST			0	0			Hail (1.75)
Dorchester County 1 E Summerville to Summerville	04	1414EST 1419EST			0	0			Hail (1.00)
Charleston County 3 W (Chs)Charleston Afb to 2 N (Chs)Charleston Afb	04	1445EST 1450EST			0	0			Funnel Cloud
			Several reports of a funnel cloud in the area, but no damage.						
Charleston County 3 W (Chs)Charleston Afb	04	1445EST 1500EST			0	0			Hail (1.00)
Charleston County North Charleston	04	1445EST 1450EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, South Coastal</u>									
Dorchester County 10 SE Summerville	04	1450EST 1455EST			0	0			Hail (0.75)
Charleston County North Charleston	04	1514EST 1520EST			0	0			Hail (1.75)
Berkeley County 2 W Wando	04	1525EST 1530EST			0	0			Hail (1.00)
Hampton County Hampton	07	1400EST 1405EST			0	0			Hail (0.75)
Hampton County Brunson	07	1430EST 1435EST			0	0			Hail (0.75)
Colleton County Lodge	07	1530EST 1535EST			0	0			Thunderstorm Wind (G50)
		Several trees down.							
Colleton County Green Pond	07	1540EST 1545EST			0	0			Thunderstorm Wind (G50)
		Trees down.							
Berkeley County 5 NNE Moncks Corner to Moncks Corner	07	2245EST 2248EST			0	0			Thunderstorm Wind (G50)
		Powerlines down.							
Berkeley County 2 SW St Stephen to 1 SW St Stephen	08	0400EST 0405EST	1	50	0	0			Tornado (F1)
		Portion of roof taken off and numerous trees snapped off with several uprooted.							
Beaufort County Beaufort	08	1240EST 1245EST			0	0			Hail (0.88)
Dorchester County 6 NNE St George to 6 NE St George	10	1545EST 1555EST	0.5	50	0	0	4.5K		Tornado (F0)
		Roof on brick home damaged, shed destroyed , a boat was thrown 40 feet and a couple of trees were uprooted.							
Dorchester County Ridgeville	10	1605EST 1610EST			0	0			Thunderstorm Wind (G88)
Dorchester County .5 NW Summerville to Summerville	10	1620EST 1625EST	0.5	40	0	0			Tornado (F0)
		Several trees and large limbs down.							
Berkeley County 3 NNW Ladson to Goose Creek	10	1625EST 1705EST	10	666	1	7	5M		Tornado (F2)
		After two brief earlier touchdowns in Dorchester County, the supercell crossed Interstate 26 into Berkeley County where the most extensive damage occurred. There were 442 homes damaged (17 destroyed, 113 major damage, and the remainder had minor damage. Areas hardest hit were Frankie Lane and Royale Road, where numerous mobile homes were located. There was a 90 year old female who was injured severely when her mobile home was flipped and thrown more than 40 feet. She died several hours later. Several eye witnesses reported seeing vortices rotating around the main funnel. This fact was born out by the damage pattern in several areas. F90MH							
Berkeley County 6 SE Goose Creek	10	1710EST 1714EST			0	0			Thunderstorm Wind (G50)
		Trees and powerlines down							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

SOUTH CAROLINA, South Coastal

Berkeley County

**1 NW St Stephen to
St Stephen**

10 1810EST 1 35 0 0 3K Tornado (F0)

Several trees and limbs down, mobile home damaged, minor roof damage to several brick homes and outdoor shed destroyed.

Colleton County

3 W Walterboro

17 1715EST 0 0 5K Thunderstorm Wind (G50)

Trees down and a tree fell on a car.

Dorchester County

**7 SW St George to
St George**

17 1921EST 0 0 Hail (1.75)

Colleton County

Walterboro

27 1630EST 0 0 Thunderstorm Wind (G55)

Trees and powerlines down.

Dorchester County

Ridgeville

27 1715EST 0 0 Thunderstorm Wind (G50)

Trees and large limbs down.

SOUTH DAKOTA, Central and North

SDZ006

Brown

01 0000CST
31 2359CST

0 0 Flood

The James River dropped below flood stage at Columbia in early May but remained above flood stage southwest of Stratford throughout the month. The James dropped below flood stage at Columbia 1 south on May 6th. Seven miles southwest of Stratford the James River reached a crest of 15.7 feet on May 25th where flood stage is 14 feet. Flooding of lowlands along the James and few county roads continued throughout May.

SDZ006>007-011- 018>019

Brown - Marshall - Day - Spink - Clark

11 1800CST
13 0600CST

0 0 Flood

Heavy rain of 2 to 4 inches with some amounts nearing 5 inches fell across a large part of the five county area mainly on the evening of the 11th. This round of heavy rain only exacerbated the already extensive flooding occurring from many years of above normal precipitation. Day county was most affected by this round of heavy rain where area lakes were already at new record levels. Blue Dog, Waubay, Rush, and Bitter Lake in Day County were just a few of the lakes hard hit again. In fact, extensive sandbagging was done around Blue Dog Lake to save many homes. Some residents of Blue Dog Lake said they had never seen the lake so high in over 35 years of living there.

Many more roads became flooded after this heavy rain event and will remain so for quite some time. Spots on US Highway 12 and US Highway 25 became flooded near Holmquist and Webster. Also, more of US Highway 212 4 miles east of Clark was flooded. Many area roads had to once again be built up. There remained only one road open to the town of Grenville in northeast Day County. Mail was delayed to many areas due to the road problems. Some school bus drivers said they had never seen rural gravel roads this bad. Also, some railroad tracks were washed out.

In all five counties, the rising water took away many more acres of farm and pastureland, as well as drowning many crops that had already been planted. One farmer in Spink County said sixty percent of his farm was under water. Many farmers were unable to reach their fields because of the flooding. Some farmhouses and outbuildings became surrounded by water leaving some families stranded. After this heavy rain, around sixty percent of the crop and pastureland in Day county and one-third of it in Spink county had been inundated by a swollen water table and several years of above normal precipitation. Overall, the continued flooding has had a tremendous impact on the economy in the five county area. In April, Marshall, Day, Clark, and Spink counties were all declared disaster areas as a result of the flooding. Some rainfall amounts included, 2.18 at Aberdeen, 2.41 at Clark, 2.60 at Groton, 2.63 at Conde, 3.60 at Turton, 3.81 at Waubay NWR, 4.01 at Doland, 4.52 at Webster, and 4.7 inches just north of Crocker in Clark county.

SDZ037

Hand

11 1800CST
13 0600CST

0 0 Flood

Heavy rains of 2 to 4 inches fell mainly during the evening of the 11th across southern and central Hand county. Many creeks in the areas became rushing torrents through the night and through the day of the 12th. Also, low-lying areas and a lot of crop and pastureland were flooded. Some businesses and homes in the Miller, Saint Lawrence, Ree Heights and Vayland areas were flooded and damaged. Some sandbagging was done to try to save some property in Miller. US Highway 14 at the east end of Miller was

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, Central and North

flooded over for several hours along with many other streets, county and townships roads in southern and central Hand county. Many of the roads were damaged as result of the flooding. Some people in Miller said they had never seen it flood this bad in 35 years. Some rainfall amounts included, 2.65 at Ree Heights, 3.10 inches 3 miles south of Ree Heights, and 3.99 inches at Miller.

Day County Webster	14	2041CST			0	0			Hail (0.75)
Roberts County 4 E Ortley	14	2100CST			0	0			Hail (0.75)
Hamlin County 4 E Bryant	14	2205CST			0	0			Hail (0.75)
Hamlin County 4 S Lake Norden	14	2210CST			0	0			Hail (0.75)
Hamlin County 4 S Lake Norden	14	2230CST			0	0			Hail (0.75)
Codington County Watertown	15	0250CST			0	0			Hail (1.75)
Grant County 3 SE Milbank	15	0339CST			0	0			Thunderstorm Wind (G70)
Thunderstorm winds gusting to around 80 mph bent over a highway billboard sign on south Highway 15. Also, at a farm, a chicken shed was blown apart, several large trees were snapped off or uprooted, and some utility poles were leaning over.									
Hand County 6 E Polo	30	1730CST			0	0			Hail (1.75)
Jones County Murdo	30	1741CST			0	0			Hail (1.00)
Hand County 10 N St Lawrence	30	1750CST			0	0			Hail (3.00)
Spink County 10 SW Tulare	30	1805CST			0	0			Hail (1.75)
Spink County 7 SW Doland	30	1810CST			0	0			Hail (1.25)
Clark County 10 NE Carpenter	30	1835CST			0	0			Hail (1.00)
Hamlin County Estelline	30	1915CST			0	0			Thunderstorm Wind (G61)
Winds gusting to around 70 mph downed many tree branches in Estelline.									
Deuel County Clear Lake	30	1921CST			0	0			Thunderstorm Wind (G52)
Winds gusting to 60 mph downed several large tree branches in Clear Lake.									
Deuel County Gary	30	1930CST			0	0			Hail (0.88)

SOUTH DAKOTA, Southeast

Gregory County 10 S Burke	14	1746CST			0	0			Hail (2.00)
Gregory County 6 SE Lucas	14	1825CST			0	0			Hail (0.88)
Charles Mix County 7 SW Platte	14	1840CST			0	0			Hail (0.88)
Gregory County 5 N Dallas	14	1900CST			0	0			Hail (0.75)
Brule County 14 S Kimball	14	1915CST			0	0			Hail (1.00)
Gregory County 1 E Dixon	14	1925CST			0	0			Hail (0.75)
Gregory County 6 E Dixon	14	2000CST			0	0			Hail (0.75)
Aurora County Stickney	14	2000CST			0	0			Hail (2.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Southeast									
Aurora County Plankinton	14	2005CST			0	0			Hail (1.00)
Aurora County Storla	14	2020CST			0	0			Hail (1.75)
Davison County 7 N Mt Vernon	14	2023CST			0	0			Hail (1.75)
Sanborn County 7 W Letcher	14	2025CST			0	0	2K		Hail (0.75)
		Dime size hail covered the ground and broke a few windows.							
Sanborn County 4 SW Forestburg	14	2055CST			0	0			Hail (0.88)
Kingsbury County De Smet	14	2148CST			0	0			Hail (1.75)
Beadle County Huron	15	0121CST			0	0			Hail (1.25)
Union County North Sioux City	15	0949CST			0	0			Thunderstorm Wind (G52)
Lincoln County Beresford	15	1100CST			0	0	40K		Lightning
		Lightning started a house fire.							
SDZ040 Brookings	15	1730CST			0	0	1M		High Wind (G43)
		High winds destroyed a building under construction.							
SDZ038-053-059>060-065-068 Beadle - Sanborn - Davison - Hanson - Hutchinson - Bon Homme	18 31	0600CST 2359CST			0	0			Flood
		Flooding occurred along the James River after runoff from earlier heavy rains upstream coincided with 1 to 3 inches of rainfall over the area. Flooding was limited to farmland along the river. Damage could not be estimated as some of the farmland was still unusable from more severe flooding the previous year. An unknown amount of damage was also suspected from bank erosion and silt deposition which could aggravate future flooding.							
Minnehaha County Sioux Falls	28	1630CST 1633CST			0	0			Hail (1.00)
Lincoln County Sioux Falls	28	1635CST			0	0			Hail (0.75)
Minnehaha County Sioux Falls	28	1651CST			0	0			Hail (1.00)
Union County Jefferson	28	1815CST 1840CST			0	0			Hail (1.75)
		Hail which fell for 25 minutes was mostly pea size but a few larger stones up to golf ball size fell.							
Union County North Sioux City	28	1820CST			0	0			Hail (1.75)
Union County Mc Cook Lake	28	1854CST			0	0			Hail (1.75)
Union County Elk Pt	30	0904CST			0	0			Hail (0.75)
Beadle County 3 W Huron	30	1819CST			0	0			Hail (0.75)
Beadle County 5 S Huron	30	1820CST			0	0	5K		Hail (2.75)
		Large hail broke windows and damaged a pickup on a farm.							
Kingsbury County 5 W Lake Preston	30	1902CST	0.1	50	0	0			Tornado (F0)
		A brief tornado caused no reported damage.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
Hanson County 4 NW Fulton to 2 NW Fulton	30	1908CST 1915CST	2	200	0	0	50K		Tornado (F1)
									A tornado caused tree and power line damage.
Hanson County 5 N Riverside	30	1915CST			0	0			Hail (1.75)
Hanson County 2 N Fulton to 2 NW Farmer	30	1916CST 1928CST	6	200	0	0	50K		Tornado (F2)
									A tornado damaged trees and power lines.
Hanson County 2 N Farmer to 7 E Farmer	30	1926CST 1938CST	7	700	0	0	1M	100K	Tornado (F3)
									A large and strengthening tornado destroyed buildings and other property on five farms and also destroyed trees and power lines before crossing the eastern edge of Hanson County.
McCook County 1 NW Spencer to 4 SW Salem	30	1938CST 1952CST	7	1600	6	150	17M	400K	Tornado (F4)
									The tornado from Hanson County destroyed most of Spencer as it strengthened and continued to grow. Most homes, other buildings, and other structures in Spencer were completely levelled. Debris and belongings were scattered over a large area, and on e receipt blown from Spencer was found just west of Chandler, MN about 80 miles east of Spencer. The tornado killed 6 and injured 150 in Spencer. The tornado continued southeast from Spencer, widened, then weakened, and dissipated 4 miles southwest of Salem with another tornado then forming from the same storm. The tornado caused additional damage to trees, power lines, crops, and buildings on farms after moving southeast of Spencer. F70PH, F77PH, F93PH, F68PH, M62PH, F85PH
Hanson County 2 SE Alexandria to 4 SE Alexandria	30	1955CST 2000CST	2	100	0	0	20K	10K	Tornado (F1)
									A tornado damaged trees, power lines, and crops.
McCook County 4 SW Salem to 5 W Canistota	30	1956CST	6	700	0	0	900K	100K	Tornado (F2)
									A tornado spawned by the same storm which produced the Spencer tornado damaged farms, crops, trees, and power lines in southern McCook County.
Hanson County 4 W Emery to 3 SW Emery	30	2001CST 2006CST	2	100	0	0	20K	10K	Tornado (F1)
									A tornado damaged trees, power lines, and crops.
McCook County 5 W Canistota to 4 W Canistota	30	2007CST 2010CST	1	100	0	0	100K		Tornado (F1)
									A tornado from the same storm that produced the Spencer tornado damaged a farm.
Turner County 2 E Monroe to 3 SE Monroe	30	2025CST 2028CST	1	100	0	0	50K		Tornado (F1)
									A tornado damaged trees and power lines.
<u>SOUTH DAKOTA, West</u>									
Pennington County 6 NE Hill City	13	1818MST			0	0	0.50K		Hail (1.75)
									Hail broke car windshield.
Pennington County 13 W (Rap)/Rapid City Arpt to 10 W (Rap)/Rapid City Arpt	13	1845MST 1848MST			0	0			Hail (0.75)
Tripp County 8 S Colome	14	1830CST			0	0	1K		Hail (1.75)
									Hail broke two house windows .
Fall River County 10 SSE Hot Spgs	20	1530MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Fall River County 7 NW Edgemont	20	1535MST	5	.1	0	0			Tornado (F0)
Fall River County Hot Spgs	20	1535MST			0	0			Hail (1.00)
Fall River County 7 S Hot Spgs	20	1635MST			0	0			Hail (1.00)
Fall River County Oelrichs	20	1715MST			0	0			Hail (1.75)
Fall River County Hot Spgs	20	1821MST			0	0			Hail (1.75)
Fall River County Oelrichs	23	1520MST			0	0			Hail (1.25)
		Hail covered ground up to two inches in depth.							
Fall River County Oelrichs	23	1526MST			0	0			Hail (1.50)
Pennington County 6 W Hill City	25	1455MST			0	0			Hail (0.75)
Fall River County Edgemont	29	1907MST			0	0			Hail (1.00)
Fall River County Edgemont	29	1910MST			0	0			Hail (1.75)
Fall River County Edgemont	29	1915MST			0	0			Hail (2.50)
Shannon County 10 W Pine Ridge	29	2350MST			0	0			Hail (0.75)
Shannon County Oglala	30	0000MST 0030MST			0	0			Hail (1.25)
Shannon County 5 N Pine Ridge	30	0015MST			0	0			Hail (2.75)
Shannon County Pine Ridge	30	0015MST			0	0			Hail (1.75)
Shannon County Pine Ridge	30	0115MST			0	0			Hail (0.75)
Butte County 18 N Belle Fourche	30	1315MST			0	0			Thunderstorm Wind (G61)
Harding County 11 N Redig	30	1315MST			0	0	2K		Hail (1.00)
		Hail broke several windows.							
Butte County 18 N Belle Fourche	30	1320MST			0	0			Hail (1.00)
Harding County 28 E Redig	30	1345MST			0	0			Hail (1.00)
Butte County 12 NE Newell	30	1355MST			0	0			Hail (1.00)
Meade County Stoneville	30	1430MST			0	0			Hail (0.75)
Meade County 5 N Enning	30	1445MST			0	0			Hail (1.75)
Meade County Faith	30	1457MST			0	0			Hail (0.75)
Meade County Plainview	30	1458MST			0	0			Thunderstorm Wind (G52)
Meade County Howes	30	1500MST			0	0			Hail (2.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Pennington County Creighton	30	1502MST			0	0			Hail (2.50)
Pennington County 18 NE Creighton	30	1502MST			0	0			Hail (2.50)
Meade County Howes	30	1505MST			0	0			Thunderstorm Wind (G52)
			Tractor-trailer semi blown off road.						
Haakon County Billsburg	30	1530MST			0	0			Hail (0.75)
Haakon County Milesville	30	1530MST			0	0			Hail (1.75)
Haakon County 3 NW Milesville	30	1530MST			0	0			Hail (0.75)
Haakon County 17 N Midland	30	1600MST			0	0			Hail (2.50)
<u>TENNESSEE, Central</u>									
Benton County North Portion	06	1335CST 1500CST			0	0			Flash Flood
			Flooding along Flatwoods road and French Store Rd.						
Benton County Camden	07	0230CST			0	0			Thunderstorm Wind (G50)
			Several large trees and power lines were down.						
Hickman County 6 N Centerville	07	0245CST 0247CST			0	0	10K		Thunderstorm Wind
			A lady reported about 100 huge trees blown down on her farm located on Bell Branch Road which is just north of the airport and also located between Highways 100 and 48. Her barn sustained some damage as well.						
Wayne County Clifton	07	0255CST			0	0			Hail (0.75)
			Clifton Police reported dime size hail.						
Wayne County 10 SW Collinwood	07	0300CST			0	0			Thunderstorm Wind (G50)
			Few trees and power lines down along Highway 69.						
Lawrence County 1 S Henryville	07	0340CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported power lines and large tree limbs down along S.R. 242.						
Maury County 5 SW Mt Pleasant	07	0340CST			0	0	5K		Thunderstorm Wind
			Several trees down. A carport and mobile home was damaged.						
Humphreys County 10 SW Hurricane Mills	07	0345CST			0	0			Thunderstorm Wind (G50)
			Electric company reported a tree down and power lines.						
Wayne County Clifton	07	0425CST 0715CST			0	0			Flash Flood
			Water over Highway 114.						
Giles County Pulaski	07	0430CST 0715CST			0	0			Flash Flood
			Local law enforcement reported U.S. Highway 41 was flooded.						
Lawrence County Leoma	07	0430CST 0715CST			0	0			Flash Flood
			Local law enforcement reported water over 2 roads.						
Maury County Columbia	07	0430CST 0530CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
			Water was over U.S. Highway 412 in Columbia.						
Wayne County 12 NNE Waynesboro	07	0430CST 0715CST			0	0			Flash Flood
			Local law enforcement reported water over Highway 48.						
Grundy County Altamont	07	1420CST 1421CST			0	0			Hail (0.88)
			Nickel size hail reported.						
Sequatchie County Cagle	07	1445CST 1446CST			0	0			Hail (1.00)
			Quarter size hail was reported.						
Lincoln County Flintville	07	1500CST 1501CST			0	0			Hail (0.75)
			Dime size hail reported.						
Franklin County Huntland	07	1505CST 1506CST			0	0			Hail (0.75)
			Dime size hail reported.						
Grundy County Altamont	07	1530CST 1531CST			0	0			Hail (0.75)
			Dime size hail reported.						
Sequatchie County Cagle	07	1714CST			0	0			Hail (0.75)
			A lady working in the "Savage Gulf Store" reported dime size hail in Cagle.						
Coffee County Hillsboro	07	1752CST			0	0			Hail (1.00)
			Quarter size hail reported.						
Coffee County Tullahoma	07	1755CST			0	0			Hail (0.88)
			Radio station WDFZ reported nickel size hail in Tullahoma.						
Sequatchie County Cagle	07	1830CST			0	0			Hail (1.75)
			A lady reported golf ball size hail.						
Sumner County Portland	10	0600CST 0745CST			0	0			Flash Flood
			Several roads were closed in the city of Portland due to high water.						
Macon County Lafayette	10	0745CST 0950CST			0	0			Flash Flood
			Several roads were washed out due to the flooding. Many more have debris washed onto roadways county wide creating hazardous driving conditions and making a few roads impassable.						
Stewart County Dover	21	1659CST 1700CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported a tree was blown down.						
Montgomery County Clarksville	21	1700CST 1710CST			0	0	80K		Thunderstorm Wind
			Local EMA officials reported trees were blown down county wide. Clarksville Department of Electricity, according to newspaper accounts, said it would cost \$80,000 to repair downed power lines by trees.						
Montgomery County Clarksville	21	1710CST			0	0			Thunderstorm Wind (G50)
			SKYWARN Spotter reported trees and power lines were down.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Montgomery County									
Sango	21	1715CST			0	0			Hail (1.00)
		Quarter size hail reported.							
Cheatham County									
Ashland City	21	1727CST			0	0			Thunderstorm Wind (G50)
		Sheriff's office reported large tree limb down. Also newspaper account of trees down on power lines in Pegram and Kingston Springs.							
Houston County									
Erin	21	1727CST			0	0			Thunderstorm Wind (G50)
		A few trees were blown down.							
Dickson County									
White Bluff	21	1730CST			0	0			Thunderstorm Wind (G50)
		Tree was blown down on a power line in White Bluff.							
Robertson County									
White House	21	1730CST			0	0			Thunderstorm Wind (G50)
		Trees were blown down.							
Sumner County									
West Central Portion	21	1730CST			0	0			Thunderstorm Wind (G50)
		Trees were blown down at White House. Newspaper accounts indicated trees and power lines were strewn across the road s countywide.							
Sumner County									
Gallatin	21	1750CST			0	0			Hail (0.88)
		Dime to nickel size hail reported.							
Benton County									
Eva	21	1753CST			0	0			Thunderstorm Wind (G50)
		Trees were blown down.							
Davidson County									
Antioch	21	1810CST 1811CST			0	0	10K		Thunderstorm Wind
		A few roofs were blown off homes from strong thunderstorm winds.							
Davidson County									
Nashville	21	1810CST			0	0			Hail (0.75)
		County EMA official reported dime size hail downtown.							
Wilson County									
Lebanon	21	1810CST 1815CST			0	0			Thunderstorm Wind (G50)
		Sheriff's office reported trees were blown down around the county. Lebanon was hardest hit.							
Sumner County									
Gallatin	21	1813CST			0	0			Thunderstorm Wind (G50)
		NWS employee reported trees were blown down.							
Rutherford County									
Smyrna	21	1815CST			0	0			Thunderstorm Wind (G50)
		Wife of NWS employee reported large tree limbs were blown down.							
Williamson County									
Franklin	21	1821CST			0	0			Hail (0.75)
		SKYWARN Spotter reported dime size hail.							
Bedford County									
Shelbyville	21	1825CST			0	0			Thunderstorm Wind (G50)
		Trees were blown down county wide.							
Smith County									
10 E Carthage	21	1826CST 1827CST			0	0			Thunderstorm Wind (G50)
		Sheriff's office reported trees were blown down acounty wide, especially about 10 miles east of Carthage on U.S. Highway 70.							
Cannon County									
Woodbury	21	1830CST 1835CST			0	0			Thunderstorm Wind (G50)
		NWS Coop Observer reported a tree was blown down on a road.							

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, Central									
Cannon County Woodbury	21	1830CST 1835CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported numerous trees were blown down around the county.						
Perry County Linden	21	1830CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down on Highway 412 east of Linden.						
Decatur County Parsons	21	1845CST			0	0			Hail (0.75)
			Dime size hail was reported.						
Rutherford County Murfreesboro	21	1845CST			0	0	50K		Thunderstorm Wind
			Strong winds caught the edge of the gym's metal roof, rolled it up and left it dangling at St. Rose of Lima Catholic Church. The report was relayed to the NWS by a radio station. Newspaper accounts mention trees fell on a house on Spring Street, also on 2 trucks and on a boat on Sherrill Blvd., also on a car on Elrod St., and a tree fell on a house on Beck Ct. Trees and power lines were knocked down countywide.						
Coffee County Beech Grove	21	1900CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines were blown down.						
Dekalb County 5 W Smithville	21	1905CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down.						
Franklin County Winchester	21	1905CST			0	0			Thunderstorm Wind (G50)
			A few trees were blown down around the county.						
Warren County Centertown	21	1915CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down.						
Warren County Irving College	21	1915CST			0	0	50K		Thunderstorm Wind
			Trees were blown down. Newspaper article mentions a roof was blown off a restaurant in the Harrison Ferry Mountain area of Warren county. Some of the rafters came from a barn built in 1860. A large portion of the roof fell onto some cars in the parking lot.						
Wayne County Waynesboro	21	1915CST			0	0			Thunderstorm Wind (G50)
			Scattered reports of trees being blown down around the county.						
Putnam County Cookeville	21	1925CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down in Cookeville and areas 2 to 3 miles west of Cookeville.						
Giles County North Portion	21	1930CST 1933CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported a few trees were blown down in the northern part of the county.						
Lawrence County Lawrenceburg	21	1930CST			0	0			Thunderstorm Wind (G50)
			Scattered reports of trees and power lines down around the county.						
Grundy County Altamont	21	1940CST 1942CST			0	0			Thunderstorm Wind (G50)
			Trees were reported down around the county.						
Overton County Rickman	21	1940CST			0	0			Thunderstorm Wind (G50)
			A tree was down on Highway 293.						
Van Buren County Spencer	21	2015CST 2020CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported a few trees were blown down around the county.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, Central									
Sequatchie County Dunlap	21	2020CST 2025CST			0	0			Thunderstorm Wind (G50)
			Numerous trees were blown down around the county.						
Bledsoe County Pikeville	21	2025CST 2030CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported numerous trees and power lines down around the county.						
Overton County Livingston	21	2025CST 2130CST			0	0			Flash Flood
			Local law enforcement reported water over the roads.						
White County Sparta	21	2030CST			0	0			Thunderstorm Wind (G50)
			News article account of trees blown down in Sparta from strong thunderstorm winds.						
Overton County 12 SE Livingston	21	2034CST			0	0			Thunderstorm Wind (G50)
			2 trees were blown down on Cub Mountain near Crawford.						
Wilson County 5 NW Watertown	25	1151CST			0	0			Hail (1.00)
			Quarter size hail was observed.						
Wilson County Watertown	25	1156CST			0	0			Hail (1.00)
			Quarter size hail was reported.						
Benton County 5 N Camden	25	1805CST 1806CST			0	0			Hail (1.50)
			SKYWARN Spotter reported ping pong ball size hail.						
Benton County Eva	25	1815CST 1816CST			0	0			Hail (1.00)
			Local emergency manager reported quarter size hail.						
Montgomery County Woodlawn	25	1820CST			0	0			Thunderstorm Wind (G50)
			Local law enforcement reported a tree was blown down.						
Humphreys County Gorman	25	1845CST			0	0			Hail (0.75)
			SKYWARN Spotter reported dime size hail.						
Sumner County 5 N Gallatin	25	1855CST			0	0			Hail (0.75)
			SKYWARN Spotter and amateur radio operator reported dime size hail.						
Sumner County Portland	25	1855CST			0	0			Thunderstorm Wind (G50)
			Local law enforcement reported several trees and power lines down.						
Clay County Free Hill	25	1910CST			0	0			Thunderstorm Wind (G50)
			Local law enforcement reported a few trees and power lines down.						
Dickson County Dickson	25	1930CST			0	0			Thunderstorm Wind (G50)
			Local law enforcement reported a few trees were blown down.						
Davidson County Nashville	25	1939CST			0	0			Hail (0.75)
			Metro EOC reported dime size hail in the western part of the city.						
Davidson County Nashville	25	1940CST			0	0	5K		Thunderstorm Wind
			Roof and some bricks blown off business in west Nashville, 50th St. and Charlotte Pike.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Humphreys County Mc Ewen	25	1950CST			0	0			Hail (0.75)
									Local law enforcement reported dime size hail.
Clay County Hermitage Spgs	25	2000CST			0	0			Thunderstorm Wind (G50)
									Local law enforcement reported a few large tree limbs down.
Rutherford County 3 N Smyrna Arpt	25	2020CST			0	1	0.50K		Thunderstorm Wind
									Windows were blown out of a houseboat on Percy Priest Lake, under the Hobson Pike Bridge. There was one minor injury from the flying glass.
Pickett County East Central Portion	25	2045CST			0	0			Thunderstorm Wind (G50)
									Local law enforcement reported a tree down on U.S. Highway 127.
Davidson County Joelton	26	0804CST 0910CST			0	0			Flash Flood
									Car swept off the side of the road on I-24 due to high water.
Cheatham County 2.5 NE Pleasant View	26	0805CST 0910CST			0	0			Flash Flood
									Car swept off the road on I-24 due to high water.
Houston County Countywide	26	0945CST 1030CST			0	0			Flash Flood
									911 center reported flooding in several locations around the county.
Lawrence County Lawrenceburg	26	1315CST			0	0			Thunderstorm Wind (G50)
									911 center reported trees and power lines were down around the county.
Giles County Pulaski	26	1330CST			0	0			Thunderstorm Wind (G50)
									Sheriff's deputy reported trees down just west of Pulaski.
Lincoln County 1.5 SW Fayetteville	26	1420CST			0	0			Thunderstorm Wind (G50)
									Electric company reported large tree limbs down on power lines just southwest of Fayetteville on Molino Rd.
Sumner County Bethpage	29	1125CST			0	0			Hail (0.75)
									Local law enforcement reported dime size hail.
Stewart County Dover	31	2055CST			0	0			Thunderstorm Wind (G50)
									Trees were blown down.
Dickson County 5 N Dickson	31	2130CST			0	0			Thunderstorm Wind (G57)
									Spotter reported wind gust of 66 mph on his anemometer.
Montgomery County 2.5 SW Mc Allisters Xrds	31	2130CST			0	0			Thunderstorm Wind (G57)
									Spotter reported wind gust of 66 mph. He lives on Dickson-Montgomery county border.
Sumner County Northeast Portion	31	2145CST			0	0			Thunderstorm Wind (G50)
									4 trees were blownd won between Westmoreland and Oak Grove.
Sumner County Northeast Portion	31	2145CST			0	0			Thunderstorm Wind (G50)
									4 trees were blown down between Westmoreland and Oak Grove.
TENNESSEE, East									
Scott County Oneida	07	1305EST			0	0	0	0	Hail (0.75)
									Softball size hail reported near the Midway Community by sheriffs dispatch.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Campbell County Jellico	07	1330EST			0	0			Hail (0.75)
Claiborne County Clairfield	07	1330EST			0	0	50K		Funnel Cloud
									Three funnel clouds spotted. Damage to a church reported by the fire department.
Greene County Midway	07	1330EST			0	0			Hail (1.00)
Bradley County Cleveland	07	1330EST			0	0			Hail (1.25)
Bradley County 2.5 S Cleveland to Chestuee	07	1330EST	6	100	0	0	375K		Tornado (F1)
									The tornado initially touched down in an industrial park on the south side of Cleveland. It then moved across several subdivisions causing roof and siding damage to numerous houses and knocking down a number of trees and powerlines. This tornadic storm moved east and produced another tornado in neighboring Polk County.
Bradley County Cleveland	07	1340EST			0	0			Hail (2.75)
Knox County Halls Xrds	07	1400EST			0	0			Urban/Sml Stream Fld
									Flooding on Emory Road and Norris Freeway.
Grainger County 5 S Rutledge	07	1400EST			0	0			Urban/Sml Stream Fld
									Flooding reported on Highway 92 in southern part of county.
Hamblen County Witt	07	1400EST			0	0	50K		Thunderstorm Wind
									Barn and trees down on Chucky River Road. Roof damage and power poles and lines down.
Hamblen County Countywide	07	1400EST			0	0			Urban/Sml Stream Fld
									Thunderstorms with very heavy rain cause extensive urban and small stream flooding throughout the county.
Polk County 2 W Ducktown to 3 E Ducktown	07	1400EST	5	100	0	0	100K	50K	Tornado (F1)
									The same severe thunderstorm that spawned the tornado in Bradley county dropped another here in Polk County. A number of houses were damaged, as well as numerous trees and powerlines downed. The storm then proceeded into Cherokee County, North Carolina.
Polk County Benton	07	1415EST			0	0			Hail (1.75)
Unicoi County Erwin	07	1435EST			0	0		2K	Thunderstorm Wind
									Several trees down.
Jefferson County White Pine	07	1445EST			0	0			Hail (1.75)
Jefferson County Dandridge	07	1500EST			0	0			Hail (1.75)
Greene County Greeneville to Mosheim	07	1515EST			0	0	50K		Thunderstorm Wind
									Winds blew off part of the gymnasium roof at West Greene High School, and a section of roofing off Mosheim Elementary School's 8th grade building.
Washington County Gray	07	1607EST			0	0			Hail (1.00)
Hamilton County Sale Creek	07	1610EST			0	0			Hail (0.75)
Greene County Greeneville to Mosheim	07	1610EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Meminn County									
Etowah	07	1620EST			0	0			Hail (1.75)
Hamilton County									
Birchwood	07	1620EST			0	0			Hail (1.75)
Meigs County									
3 S East View	07	1640EST			0	0			Hail (1.75)
			Golfball-size hail along Highway 58.						
Knox County									
Knoxville	07	1700EST			0	0			Hail (0.75)
Jefferson County									
Dandridge	07	1705EST			0	0			Hail (1.00)
Sevier County									
Pittman Center	07	1745EST			0	0			Hail (0.75)
Loudon County									
Lenoir City	07	1752EST			0	0			Hail (0.75)
Greene County									
Greeneville	07	1820EST			0	0			Hail (1.75)
			Reported at mile marker 27 on I-81.						
Sullivan County									
Colonial Hgts	07	1850EST			0	0			Hail (1.75)
Greene County									
Rheatown	07	1945EST			0	0			Hail (1.75)
Washington County									
Johnson City to Jonesboro	07	2001EST			0	0			Hail (1.00)
Carter County									
Elizabethton	07	2008EST			0	0			Hail (0.75)
Sullivan County									
Bristol	07	2035EST			0	0			Hail (1.75)
Johnson County									
Mountain City	07	2050EST			0	0			Hail (1.25)
Blount County									
Fairview	07	2055EST			0	0			Hail (0.75)
Roane County									
Kingston	21	1615EST			0	0			Hail (0.75)
Knox County									
Powell	21	1705EST			0	0			Hail (1.00)
			Nickel sized hail reported on Callahan Road.						
Knox County									
Knoxville	21	1710EST			0	0			Hail (3.00)
			Hail reported on Dry Gap and Emory Road.						
Knox County									
Knoxville	21	1732EST			0	0			Hail (1.00)
			Hail reported on Amber Road and Clinton Highway.						
Knox County									
Knoxville	21	1740EST			0	0			Hail (2.75)
			Hail reported on Tazewell Pike.						
Knox County									
Knoxville	21	1750EST			0	0			Hail (1.00)
			Hail reported at junction of I-40 and I-75.						
Jefferson County									
Strawberry Plains	21	1757EST			0	0			Hail (1.00)
Knox County									
Knoxville	21	1805EST			0	0			Hail (2.00)
		1810EST							
			1 to 2 inch hail reported along Mascarene Road.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Knox County Knoxville	21	1808EST			0	0			Hail (1.75)
									Hail reported on Middlebrook Pike.
Knox County Knoxville	21	1816EST			0	0			Hail (2.00)
									Hail reported along Amherst and McCamey Road.
Knox County Knoxville	21	1816EST 1818EST			0	0			Urban/Sml Stream Fld
									TV meteorologist reported flooding in Duck Pond area of Fountain City. Storm spotters reported 10 inches of water on Merchant Drive near Red Lobster. Broadway and Dutch Valley Road flooded. Water across I-275 near Baxter.
Knox County Knoxville	21	1818EST			0	0			Urban/Sml Stream Fld
									Storm spotter reported junction of John Sevier and Asheville Highway was flooded up to car bumpers.
Knox County Knoxville	21	1818EST			0	0			Hail (0.75)
									Hail reported on Papermill Road.
Blount County 1 N Louisville	21	1830EST			0	0			Hail (0.75)
									Hail reported between Louisville and McGhee-Tyson airport.
Fentress County Jamestown	25	2030CST			0	0			Hail (0.75)
Sullivan County Kingsport	25	2205EST 2230EST			0	0	1.5M		Thunderstorm Wind
									Downburst winds estimated near 120 mph caused extensive damage in the city of Kingsport. Numerous roofs blown off, windows blown out and trees and powerlines blown down. Approximately 100 downtown businesses and 70 residences sustained some type of storm damage. Immediately following the storm, as many as 19,000 customers were without power.
Anderson County Lake City to Andersonville	25	2250EST			0	0	2K		Thunderstorm Wind
									Several trees down around Beech Grove Road near Lake City. A few trees down around Mill Creek Road in Andersonville.
Claiborne County Tazewell	25	2300EST			0	0	4K		Thunderstorm Wind
									Several trees down near Tazewell.
Hawkins County Rogersville	25	2315EST			0	0			Hail (1.00)
Washington County Bowmantown to Telford	26	0010EST 0015EST			0	0	9K		Thunderstorm Wind
									Several trees reported down in and around the communities of Bowmantown and Telford.
Hawkins County Church Hill to Mt Carmel	26	0030EST			0	0			Urban/Sml Stream Fld
									Several roads reported covered by water in and around both Church Hill and Mt. Carmel.
Campbell County La Follette	26	1525EST			0	0			Urban/Sml Stream Fld
									Heavy rain at a rate of 4 to 5 inches per hour caused flooding.
Knox County Farragut	26	1605EST			0	0			Hail (1.50)
Sevier County Seymour	26	1645EST			0	0			Hail (1.75)
Claiborne County Clairfield	31	2255EST			0	0	3K		Thunderstorm Wind
Campbell County Countywide	31	2315EST			0	0	25K		Thunderstorm Wind
									Trees down countywide. Also, minor flooding on roads.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, East									
Campbell County 1 W Elk Vly	31	2330EST			0	0		10K	Thunderstorm Wind
									Trees down.
Grainger County Rutledge	31	2350EST			0	0			Thunderstorm Wind (G69)
									Trees down.
Union County 1 S Luttrell	31	2358EST			0	0		5K	Thunderstorm Wind
									Trees down near the Union/Knox county line.
TENNESSEE, West									
Shelby County Memphis to Arlington	06	0110CST 0125CST			0	0	200K		Hail (1.75)
									Over 400 homes in the Lakeland area were damaged by the hail. Hail ranged from quarter size in Memphis and Bartlett to baseball size in Arlington.
Shelby County Arlington	06	0115CST 0120CST			0	0	1K		Thunderstorm Wind
									Several trees were knocked down.
Fayette County Braden to Piperton	06	0210CST 0230CST			0	0	0.02K		Hail (0.75)
Haywood County Holly Grove	06	0210CST 0215CST			0	0	5K		Thunderstorm Wind
									A few trees were blown down.
Gibson County Milan	06	1100CST 1500CST			0	0	5K		Flash Flood
									About five inches of rain fell in the Milan area causing flash flooding. Several roads were closed and homes were flooded. A few people had to be evacuated from their homes because of the flooding.
Crockett County Alamo	06	1300CST 1800CST			0	0	5K		Flash Flood
									Heavy rain produced flash flooding in the Alamo area. Several roads were flooded.
Madison County Jackson	06	1300CST 1800CST			0	0	5K		Flash Flood
									Nearly 4 inches of rain fell in the Jackson area causing the Anderson Branch Creek to flood. Several homes and businesses were flooded. Several roads were also flooded.
Crockett County Bells	07	0130CST 0135CST			0	0	15K		Thunderstorm Wind
									A newly renovated mobile home was destroyed. One house had its chimney knocked off by a tree limb.
Shelby County Memphis	07	0150CST 0205CST			0	0	25K		Thunderstorm Wind
									Numerous trees were blown down in the midtown section of Memphis. Several trees fell on houses and cars.
Tipton County Countywide	07	0150CST 0200CST			0	0	10K		Thunderstorm Wind
									Several trees were knocked down across the county. One tree fell on two cars in Covington.
Fayette County Countywide	07	0230CST 0245CST			0	0	5K		Thunderstorm Wind
									Some trees were knocked down across the county.
Madison County Jackson	07	0235CST 0240CST			0	0	5K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, West									
Several trees were knocked down.									
Mcniary County 4 NW Selmer	07	0245CST 0250CST			0	0	1K		Thunderstorm Wind
A few trees were blown down.									
Hardeman County Bolivar	07	0250CST 0255CST			0	0	5K		Thunderstorm Wind
A few large trees were uprooted.									
Hardin County Pickwick Dam	07	0250CST 0255CST			0	0	1K		Thunderstorm Wind
Several trees were knocked down.									
Tipton County 1 S Crosstown	09	2020CST 2025CST			0	2	10K		Thunderstorm Wind
A tree fell on a Tipton County Sheriff car injuring the deputy and a prisoner. A cemetery marker was blown over. Several other trees were knocked down.									
Gibson County Milan to 1 E Milan	09	2035CST 2040CST			0	0	0.21K		Hail (1.00)
Hail ranging from dime to quarter size fell in the Milan area.									
Carroll County Atwood	09	2055CST 2100CST			0	0	0.10K		Hail (1.00)
Madison County 5 E Fairview to 5 N Jackson	09	2105CST 2120CST			0	0	1.5K		Hail (1.75)
Dime size hail fell in Fairview while golfball size hail fell in Ashport and Jackson.									
Gibson County Milan	09	2107CST 2115CST			0	0	0.75K		Hail (1.75)
Gibson County Humboldt	09	2115CST 2120CST			0	0	1K		Thunderstorm Wind
A few trees were blown down.									
Madison County 5 N Jackson	09	2115CST 2120CST			0	0	10K		Thunderstorm Wind
Several homes were damaged. Some trees and power lines were knocked down.									
Carroll County Mc Kenzie	09	2117CST			0	0	10K		Lightning
One home sustained substantial damage to the living room due to a lightning strike.									
Henderson County Lexington	09	2130CST 2135CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Madison County Adair to Oakfield	10	2105CST 2125CST			0	0	1.5K		Hail (1.75)
Dime size hail fell near Adair while golfball size hail fell near Oakfield.									
Madison County Oakfield	10	2115CST 2120CST			0	0	10K		Thunderstorm Wind
Several houses were damaged and some power lines were knocked down.									
Henderson County Juno	10	2135CST 2140CST			0	0	0.75K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, West									
Hardeman County Whiteville to Toone	10	2155CST 2215CST			0	0	0.10K		Hail (0.88)
Henderson County 4 N Lexington	10	2158CST 2205CST			0	0	5K		Thunderstorm Wind
									Several trees and power lines were knocked down.
Chester County 3 N Masseyville	10	2232CST 2240CST			0	0	0.75K		Hail (1.75)
Obion County Union City	21	1645CST 1650CST			0	0	0.01K		Hail (0.75)
Obion County Union City	21	1645CST 1650CST			0	0	5K		Thunderstorm Wind
									Numerous trees were knocked down.
Lake County 5 N Tiptonville	21	1700CST 1705CST			0	0	0.75K		Hail (1.75)
Obion County Countywide	21	1715CST 1725CST			0	0	10K		Thunderstorm Wind
									Some trees were knocked down across the county.
Weakley County Dresden to Gleason	21	1720CST 1730CST			0	0	10K		Thunderstorm Wind
									Several trees and power lines were blown down.
Henry County Paris	21	1730CST 1735CST			0	0	5K		Thunderstorm Wind
									Some roofing material was blown off a roof and landed on a car.
Carroll County Bruceeton to Clarksburg	21	1750CST 1805CST			0	0	10K		Thunderstorm Wind
									Numerous trees were blown down.
Henderson County Lexington	21	1810CST 1815CST			0	0	5K		Thunderstorm Wind
									A few trees were blown down.
Henderson County Lexington	21	1830CST 1835CST			0	0	0.01K		Hail (0.75)
Mcnairy County Adamsville	25	1315CST 1320CST			0	0	0.01K		Hail (0.75)
Henry County Paris	26	0500CST 0505CST			0	0	5K		Thunderstorm Wind
									Eight apartments were damaged. Several trees and power lines were blown down.
Weakley County Greenfield	28	1725CST 1730CST			0	0	5K		Thunderstorm Wind
									Several trees were knocked down.
Hardeman County Saulsbury	28	1930CST 1935CST			0	0	5K		Thunderstorm Wind
									Some trees and power lines were blown down.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, West									
Shelby County Collierville	28	2020CST 2025CST			0	0	5K		Thunderstorm Wind
			A few trees were knocked down.						
Tipton County Covington	28	2130CST 2135CST			0	0	5K		Thunderstorm Wind
			Several trees and power lines were blown down.						
Weakley County Ralston	31	2120CST 2125CST			0	0	10K		Thunderstorm Wind
			Several trees were knocked down with some of the trees falling on houses.						
Weakley County Dresden to Greenfield	31	2130CST 2135CST			0	0	0.76K		Hail (1.75)
			Hail ranged from dime size in Dresden to golf ball size in Greenfield.						
TEXAS, Central									
Haskell County 4 W Rule	08	1648CST			0	0	5K		Thunderstorm Wind
			An electric substation was damaged and several utility poles were blown down.						
Haskell County Rule	08	1650CST			0	0	15K		Thunderstorm Wind
			Drive-in theater destroyed						
Haskell County Sagerton	08	1650CST			0	0			Hail (0.88)
Haskell County 3 NE Sagerton	08	1651CST	0.1	10	0	0			Tornado (F0)
			Brief tornado touchdown						
Haskell County 5 SE Rule	08	1655CST			0	0			Hail (1.75)
Haskell County Haskell	08	1704CST			0	0			Hail (2.75)
Haskell County Haskell	08	1704CST			0	0			Thunderstorm Wind (G70)
			Wind gust to 80 mph						
Throckmorton County Throckmorton	08	1740CST			0	0			Hail (2.75)
Throckmorton County 1 S Throckmorton	08	1745CST			0	0			Hail (2.75)
Haskell County Haskell	08	1805CST			0	0			Hail (0.75)
Haskell County Lake Stamford	08	1820CST			0	0			Hail (1.75)
Throckmorton County 1 E Woodson	08	1858CST			0	0			Hail (1.75)
Tom Green County Wall	08	1905CST			0	0			Hail (0.75)
Throckmorton County 5 SE Woodson	08	1957CST			0	0			Hail (1.75)
Concho County Millersview	08	2000CST			0	0	0.50K		Thunderstorm Wind
			Large water tank blown across a field						
Mcculloch County Doole	08	2015CST			0	0			Hail (1.75)
			A series of 3 supercells tracked across Haskell and Throckmorton counties, producing a short lived tornado and several reports of up to baseball size hail. The drive-in theatre destroyed in Rule was believed to be the oldest working drive-in in Texas. Other severe storms moved across the Concho Valley and Heartland later in the evening.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Mitchell County									
Colorado City	15	0050CST			0	0			Hail (0.75)
Sterling County									
Sterling City	15	0050CST			0	0			Hail (0.75)
Mitchell County									
Colorado City	15	0053CST			0	0			Hail (0.75)
Fisher County									
5 W Rotan	15	0105CST			0	0	0.50K		Thunderstorm Wind
			Small trees and outbuildings blown over						
Mitchell County									
10 E Colorado City	15	0120CST			0	0			Hail (0.75)
			Dime size hail fell on the Mitchell-Nolan county line						
Nolan County									
7 W Roscoe	15	0120CST			0	0			Hail (0.75)
Coke County									
Robert Lee	15	0123CST			0	0			Thunderstorm Wind (G52)
Nolan County									
3 W Sweetwater	15	0124CST			0	0			Hail (0.75)
Jones County									
Hamlin	15	0135CST			0	0			Thunderstorm Wind (G52)
Taylor County									
Tuscola	15	0215CST			0	0	1K		Thunderstorm Wind
			Canopy of a gas station blown over						
Fisher County									
8 S Roby	22	1837CST			0	0	1K		Thunderstorm Wind
			A roof was blown off a barn						
Haskell County									
Sagerton	24	1820CST			0	0			Hail (1.00)
Irion County									
18 W Mertzon	25	1705CST			0	0			Hail (1.00)
Irion County									
18 W Mertzon	25	1710CST			0	0			Hail (2.75)
			Baseball size hail						
Sterling County									
Sterling City	25	1740CST			0	0			Hail (0.75)
Irion County									
12 NW Mertzon	25	1756CST	0.1	10	0	0			Tornado (F0)
			Brief tornado touchdown						
Irion County									
10 NW Mertzon	25	1802CST	0.1	10	0	0			Tornado (F0)
			Brief tornado touchdown						
Mitchell County									
Colorado City	25	1821CST			0	0			Hail (2.50)
Mitchell County									
2 E Colorado City	25	1840CST			0	0			Hail (1.50)
Nolan County									
3 W Roscoe	25	1844CST			0	0			Hail (3.00)
Fisher County									
7 SW Roby	25	1855CST			0	0			Hail (1.75)
Tom Green County									
San Angelo	25	1901CST			0	0			Hail (0.75)
Tom Green County									
San Angelo	25	1902CST			0	0			Hail (1.00)
Tom Green County									
San Angelo	25	1912CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Tom Green County San Angelo	25	1914CST			0	0			Hail (1.75)
									Hail up to golf ball size broke windows across the northeast sections of San Angelo
Fisher County Rotan	25	1920CST			0	0			Hail (1.75)
Tom Green County San Angelo	25	1921CST			0	0			Hail (1.75)
Coke County Bronte	25	2020CST			0	0			Flash Flood
									Highway 277 in Bronte was flooded
Coleman County Coleman	25	2150CST			0	0	2K		Thunderstorm Wind
									Several power poles blown over and a barn destroyed
Coke County 10 SW Robert Lee	25	2350CST	10	.1	0	0			Tornado (F0)
									Brief tornado touchdown
Sterling County 8 NE Sterling City	25	2355CST			0	0			Hail (1.75)
Coke County Robert Lee	26	0020CST			0	0			Thunderstorm Wind (G52)
Coke County Robert Lee	26	0028CST			0	0			Hail (0.75)
Sterling County Sterling City	26	0030CST			0	0			Flash Flood
									Street flooding reported in Sterling City
Coke County Robert Lee	26	0035CST			0	0			Hail (1.75)
Coke County Robert Lee	26	0040CST			0	0			Flash Flood
									Street flooding reported in Robert Lee
Tom Green County Water Vly	26	0040CST			0	0			Hail (1.75)
Concho County 6 W Paint Rock	26	0145CST			0	0			Hail (1.75)
Callahan County Cross Plains	26	0200CST			0	0			Hail (0.75)
Concho County Eden	26	0312CST			0	0			Hail (0.75)
									Severe storms developed and moved very slowly across the Concho Valley. Several brief tornado touchdowns were reported, as well as hail up to 3 inches in diameter. Golf ball size hail hit the northeast side of San Angelo, breaking windows out of both homes and vehicles.
Tom Green County Water Vly	26	1636CST			0	0			Hail (1.00)
Tom Green County 9 NW San Angelo	26	1648CST			0	0			Hail (0.88)
Tom Green County 9 NW San Angelo	26	1649CST			0	0			Hail (1.75)
Coke County 9 S Robert Lee	26	1700CST			0	0			Hail (2.75)
									Baseball size hail
Tom Green County Carlsbad	26	1710CST			0	0			Hail (1.75)
Tom Green County 3 NW San Angelo	26	1714CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central									
Tom Green County 11 NW San Angelo	26	1735CST			0	0			Hail (2.75)
									Baseball size hail broke 2 windows
Tom Green County 7 N San Angelo	26	1800CST 2300CST			0	0	150K		Flash Flood
									Extensive flooding in the Quail Valley subdivision, with water flowing into houses and up to 8 feet of water covering some roadways
Tom Green County 9 NW San Angelo	26	1800CST 2330CST			0	0	100K		Flash Flood
									Up to 1 foot of water flowing through several homes
Tom Green County 5 N San Angelo	26	1800CST 1802CST	0.1	25	0	0			Tornado (F0)
									Brief tornado touchdown
Tom Green County 9 NW San Angelo	26	1804CST			0	0			Hail (0.75)
Tom Green County 3 N San Angelo	26	1819CST			0	0			Hail (2.00)
Tom Green County 3 N San Angelo	26	1819CST			0	0			Thunderstorm Wind (G56)
Tom Green County San Angelo	26	1825CST			0	0	1.5K		Thunderstorm Wind
									Several metal storage buildings had their roofs blown off
Tom Green County San Angelo	26	1828CST			0	0	3K		Thunderstorm Wind
									A church roof was damaged, allowing water damage below
Tom Green County 3 N San Angelo	26	1857CST			0	0			Hail (0.75)
Coke County 10 SW Robert Lee	26	1900CST			0	0			Thunderstorm Wind (G52)
Sterling County 10 S Sterling City	26	1900CST			0	0			Hail (0.75)
Tom Green County San Angelo	26	1900CST			0	0	2K		Thunderstorm Wind
									A gas station sign was blown over onto a police car
Tom Green County San Angelo	26	1918CST			0	0			Hail (1.00)
Tom Green County 3 N San Angelo	26	1920CST			0	0			Hail (1.75)
Tom Green County Veribest	26	1930CST 1950CST	3.6	1936	0	2	1.3M	500K	Tornado (F1)
									A tornado destroyed 2 mobile homes, injuring two of the occupants inside one of them
Tom Green County Veribest	26	1941CST			0	0			Hail (2.75)
									Baseball size hail
Runnels County Miles	26	1945CST			0	0			Hail (1.75)
Coleman County Glen Cove	26	2000CST			0	0			Thunderstorm Wind (G52)
Tom Green County 3 N Veribest	26	2000CST			0	0			Hail (2.75)
									Baseball size hail
Mitchell County Colorado City	26	2015CST			0	0	5K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
A roof was blown off a house and several trees uprooted									
Sterling County Sterling City	26	2015CST			0	0			Flash Flood
									Street flooding reported
Coleman County Coleman	26	2030CST			0	0	0.50K		Thunderstorm Wind
									Several power lines were blown down
Concho County Lowake	26	2030CST	0.1	10	0	0	1K		Tornado (F0)
									Tornado destroyed an irrigation system
Concho County 2 W Paint Rock	26	2030CST			0	0			Flash Flood
									Highway 380 at Kickapoo Creek flooded and impassable
Concho County 2 SE Lowake	26	2031CST			0	0	3K		Thunderstorm Wind
									A workshed was destroyed by high winds
Mitchell County 5 S Colorado City	26	2035CST			0	0			Thunderstorm Wind (G68)
									Measured wind gust to 78 mph
Crockett County 20 NW Ozona	26	2100CST			0	0	3K		Thunderstorm Wind
									Power poles were blown down
Brown County 8 NE Brownwood	26	2105CST			0	0			Thunderstorm Wind (G57)
Coke County 10 S Robert Lee	26	2125CST			0	0			Thunderstorm Wind (G52)
Irion County 14 W Mertzon	26	2125CST			0	0			Hail (1.75)
Coleman County Glen Cove	26	2130CST			0	0			Thunderstorm Wind (G52)
Concho County Paint Rock	26	2145CST			0	0			Thunderstorm Wind (G52)
Tom Green County San Angelo	26	2205CST			0	0			Thunderstorm Wind (G52)
Tom Green County Christoval	26	2215CST			0	0			Thunderstorm Wind (G52)
									60 mph wind gust
Tom Green County San Angelo	26	2225CST 2355CST			0	0			Flash Flood
									Roads in San Angelo covered by up to 3 feet of water
Brown County Brownwood	26	2227CST			0	0			Hail (0.75)
Brown County Brownwood	26	2245CST			0	0			Flash Flood
									Several streets were closed due to high water
Brown County Lake Brownwood	26	2245CST			0	0	0.50K		Thunderstorm Wind
									A roof was blown off a barn
Mcculloch County 2 NE Brady	26	2330CST			0	0	2K		Thunderstorm Wind
									A roof on a house was damaged and a metal shed destroyed
Crockett County Ozona	26	2345CST			0	0	2K		Thunderstorm Wind
									A hangar roof was blown off at the airport
Sutton County Sonora	26	2345CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Central

Coleman County Glen Cove

27	0000CST				0	0	Thunderstorm Wind (G52)		
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A supercell developed just north of San Angelo near Grape Creek and drifted very slowly eastward towards Veribest in northeast Tom Green County. This supercell spawned at least 2 tornadoes, including one that destroyed two mobile homes and damaged 15 homes near Veribest. Two people were injured in one of the mobile homes. Numerous farm buildings and other farm machinery were also heavily damaged. Hail of the size of baseballs and torrential rainfall accompanied this storm, causing extensive flooding across the Grape Creek and Quail Valley areas. Later in the evening, a line of severe storms swept through much of the Concho Valley and Heartland, bringing damaging winds and up to golf ball size hail.

TEXAS, Central Southeast

TXZ163>164-176>179- 195>200-210>214- 226>227-235>238

01	0000CST				0	0	Drought		
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By the end of May, many locations across SE TX fell nearly 9 inches below normal rainfall for the March through May timeframe. This had adverse effects on both agriculture as well as residents health. With no relief in sight, drought-like conditions will continue into June.

TXZ213

	Harris				1	0	Excessive Heat		
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Man died of heat exposure while doing construction work inside a warehouse.
M47BU

TEXAS, Extreme West

NONE REPORTED.

TEXAS, Mid - South

NONE REPORTED.

TEXAS, North

Hamilton County

5 S Hamilton	02	1708CST			0	0	Hail (1.75)		
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Hamilton County

5 N Hamilton	02	1715CST			0	0	Hail (1.75)		
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Coryell County

Jonesboro	02	1735CST			0	0	Hail (1.75)		
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Bosque County

1 N Clifton	02	1800CST			0	0	Hail (1.75)		
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Hill County

Lake Whitney	02	1804CST			0	0	Hail (1.75)		
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Large hail was reported at the dam.

Hill County

Aquilla	02	1815CST			0	0	Hail (1.00)		
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Mclennan County

Mc Gregor	02	1845CST			0	0	Hail (0.75)		
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Mclennan County

2 N Moody	02	1853CST			0	0	Hail (0.75)		
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Mclennan County

1 N Bruceville	02	1900CST			0	0	Hail (1.00)		
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Ellis County

Waxahachie	02	2040CST			0	0	Hail (1.00)		
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Kaufman County

Kemp	02	2105CST			0	0	Hail (1.75)		
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Dallas County

Dallas	02	2110CST			0	0	Hail (2.00)		
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Large hail was reported in downtown Dallas.

Henderson County

Payne Springs	02	2110CST			0	0	Hail (1.75)		
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Henderson County									
Eustace	02	2115CST			0	0			Hail (0.75)
Dallas County									
10 NE Dallas	02	2117CST			0	0			Hail (1.00)
Dallas County									
10 NE Dallas	02	2120CST			0	0			Hail (1.75)
Collin County									
2 N Desert	02	2128CST			0	0			Hail (1.00)
Kaufman County									
Mabank	02	2130CST			0	0			Hail (1.00)
Navarro County									
2 N Richland	02	2130CST			0	0			Hail (0.75)
Rains County									
Emory	02	2131CST			0	0			Hail (1.75)
Collin County									
Anna	02	2135CST			0	0			Hail (0.75)
Grayson County									
2 SE Pilot Grove	02	2135CST			0	0			Hail (1.75)
Dallas County									
Garland	02	2140CST			0	0			Hail (2.00)
Fannin County									
1 SW Trenton	02	2140CST			0	0			Hail (1.75)
Van Zandt County									
5 SW Phalba	02	2145CST			0	0			Hail (1.75)
Delta County									
Cooper	02	2155CST			0	0			Hail (1.00)
Delta County									
Klondike	02	2200CST			0	0			Hail (1.00)
Rockwall County									
Heath	02	2200CST			0	0			Hail (1.75)
Hopkins County									
Sulphur Spgs	02	2203CST			0	0			Hail (1.00)
Hunt County									
Union Vly	02	2204CST			0	0			Hail (2.50)
Kaufman County									
Combine	02	2205CST			0	0			Hail (1.00)
Hunt County									
2 NW Union Vly	02	2207CST			0	0			Hail (1.75)
Hunt County									
Greenville	02	2219CST			0	0			Hail (1.00)
Kaufman County									
Scurry	02	2220CST			0	0			Hail (0.75)
Hunt County									
Greenville	02	2221CST			0	0			Hail (2.50)
Hopkins County									
Peerless	02	2230CST			0	0			Hail (0.88)
Rains County									
3 NW Flats	02	2230CST			0	0			Hail (1.75)
		Large hail was reported at Lake Tawakoni.							
Hopkins County									
Peerless	02	2245CST			0	0			Hail (1.00)
Henderson County									
Athens	02	2304CST			0	0			Hail (1.25)
Leon County									
Leona	03	0130CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, North

Scattered strong to severe thunderstorms developed ahead of a slow-moving cold front over southwestern portions of north Texas early on the evening of the 2nd and moved east across the southern quarter of the region. Later that evening, additional severe thunderstorms developed rapidly from Dallas northeast to east of Sherman in Grayson County. Large hail was reported with both severe weather systems, with sized ranging from 0.75 of an inch up to 2.5 inches in diameter.

Eastland County

Eastland	05	2220CST							
				0	0	5K			Lightning

Lightning struck an oil storage tank.

Young County

12 N Newcastle	08	1813CST							
				0	0				Hail (0.75)

Young County

Newcastle	08	1813CST							
				0	0				Hail (0.75)

Young County

Jean	08	1815CST							
				0	0				Hail (1.75)

Young County

6 E Graham	08	1818CST							
				0	0				Hail (1.75)

Young County

6 N Graham	08	1824CST							
				0	0				Hail (4.00)

Young County

Graham	08	1824CST							
				0	0				Hail (1.75)

Jack County

Jacksboro	08	1850CST							
				0	0				Hail (1.75)

Jack County

Bryson	08	1855CST							
				0	0				Hail (4.00)

Jack County

2 W Jacksboro	08	1855CST							
				0	0				Hail (1.75)

Jack County

10 SE Jacksboro	08	1855CST							
				0	0	1K			Thunderstorm Wind

Powerlines were blown down by high winds.

Young County

Proffitt	08	1904CST							
				0	0				Hail (1.75)

Young County

Murray	08	1915CST							
				0	0				Hail (2.75)

Wise County

7 WSW Bridgeport	08	1925CST							
				0	0	10K			Thunderstorm Wind

Thunderstorm winds severely damaged a marina at Runaway Bay.

Wise County

Lake Bridgeport	08	1925CST							
				0	0	175K			Thunderstorm Wind

Thunderstorm winds blew over six trailers at Paradise Bay on the south side of the lake.

Young County

Eliasville	08	1925CST							
				0	0				Hail (1.75)

Wise County

Decatur	08	1930CST							
				0	0	2M			Hail (2.00)

Large hail struck three car dealerships in Decatur, causing an estimated \$2 million in damage.

Young County

Graham	08	1930CST							
				0	0				Hail (2.75)

Wise County

8 W Paradise	08	1931CST	0.8	50					
				0	0	400K			Tornado (F0)

A tornado touched down at Bay Landing, a private RV park on the southeast side of Lake Bridgeport along US 380. Fifteen campers and recreation vehicles were damaged or destroyed.

Stephens County

12 N Caddo	08	1940CST							
				0	0				Thunderstorm Wind (G61)

Thunderstorm winds blew down trees.

Wise County

Decatur	08	1940CST							
				0	0				Hail (0.75)

Wise County

Bridgeport	08	1945CST							
				0	0	10K			Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Thunderstorm winds destroyed a barn and blew down trees.									
Denton County 10 W Denton	08	1949CST			0	0			Hail (1.75)
Palo Pinto County Graford	08	1950CST			0	0	5K		Lightning
A tank battery was set on fire by lightning.									
Palo Pinto County Possum Kingdom Lake	08	1950CST			0	0			Hail (1.00)
Denton County Krum	08	1954CST			0	0			Hail (1.75)
Denton County Krum	08	1958CST			0	0			Hail (2.50)
Jack County Perrin	08	2000CST			0	0			Hail (1.75)
Wise County Cottondale	08	2000CST			0	0	25K		Thunderstorm Wind
Thunderstorm winds destroyed a trailer and blew down trees.									
Denton County Argyle	08	2005CST			0	0	0		Thunderstorm Wind
Thunderstorm winds damaged a mobile home park. No dollar estimate of damage was provided.									
Palo Pinto County Mineral Wells	08	2005CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees. No dollar estimate of damage was provided.									
Denton County Denton	08	2010CST 2013CST			0	0			Hail (2.00)
Palo Pinto County Mineral Wells	08	2010CST			0	0			Flash Flood
Water was up to car hoods behind the Brazos Shopping Center. No dollar estimate of damage was provided.									
Palo Pinto County Mineral Wells	08	2010CST			0	5			Hail (4.00)
Dozens of people were reported injured by large hail at the Palo Pinto County Livestock Association Rodeo. Palo Pinto County EMTs treated five individuals at the scene, but none of the injured required hospitalization.									
Palo Pinto County Mineral Wells	08	2010CST			0	0	15K		Thunderstorm Wind
Thunderstorm winds blew the roof off of one business and blew a telephone pole onto the post office.									
Palo Pinto County Mineral Wells	08	2015CST 2020CST			0	0			Hail (1.75)
Palo Pinto County 3 SE Mineral Wells	08	2015CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees. No dollar estimate of damage was provided.									
Wise County 3 W Paradise	08	2015CST			0	0			Hail (1.75)
Denton County Argyle	08	2020CST 2030CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down highway signs along IH 35-W. Thunderstorm winds also uprooted trees, damaged roofs, and blew down fences and powerlines. No dollar estimate of damage was provided.									
Denton County 3 NW Corinth	08	2020CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew a large tree onto a house in Shady Shores. No dollar estimate of damage was provided.									
Denton County 1 S Justin	08	2024CST			0	0			Hail (2.75)
Denton County 1 S Justin	08	2024CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several trees onto FM 156. No dollar estimate of damage was provided.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Palo Pinto County Brad	08	2024CST			0	0			Hail (1.75)
Palo Pinto County Brad	08	2024CST			0	0			Thunderstorm Wind (G52)
Collin County 2 SW Mc Kinney	08	2025CST			0	0			Hail (1.00)
Collin County 2 SW Mc Kinney	08	2025CST			0	0			Thunderstorm Wind (G53)
Denton County Denton	08	2030CST 2045CST			0	0			Hail (4.00)
Denton County 3 S Denton	08	2030CST 2045CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds uprooted large trees, glew down fences, and damaged roofs in south Denton. A barn was also destroyed by thunderstorm winds. No dollar estimate of damage was provided.
Denton County Lake Dallas	08	2030CST			0	0	0		Thunderstorm Wind
									Powerlines were blown onto IH 35-E and service roads near Lake Dallas, closing both northbound and southbound lanes of traffic for several hours. Nearby, a gas station canopy collapsed onto two cars. No dollar estimate of damage was provided.
Denton County 8 ENE Lewisville	08	2030CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gust reported at The Colony.
Collin County Frisco	08	2035CST			0	0			Hail (1.75)
Collin County Frisco	08	2035CST			0	0	100K		Thunderstorm Wind (G61)
									Thunderstorm winds destroyed one mobile home and blew the roof from one building. Thunderstorm winds also blew down chimneys, trees, powerlines, and powerline poles.
Denton County Little Elm	08	2041CST			0	0			Hail (4.00)
Denton County Little Elm	08	2041CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds blew the roof off of a business. No dollar estimate of damage was provided.
Parker County Weatherford	08	2044CST			0	0			Hail (1.00)
Denton County 12 W Denton	08	2049CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds damaged several mobile homes. No dollar estimate of damage was provided.
Collin County Mc Kinney	08	2050CST			0	0	100K		Thunderstorm Wind (G61)
									Thunderstorm winds blew a large tree onto a house. In addition, there were 39 reports of trees blown down and 51 reports of powerlines blown down by thunderstorm winds.
Parker County 5 NE Weatherford	08	2051CST			0	0			Hail (1.75)
Parker County 9 E Weatherford	08	2052CST			0	0			Hail (1.75)
									Large hail was reported in Willow Park.
Collin County Mc Kinney	08	2053CST			0	0			Hail (0.75)
Collin County Melissa	08	2054CST			0	0			Hail (1.75)
Collin County Mc Kinney	08	2057CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm wind gust reported at McKinney Municipal Airport.
Denton County Corinth	08	2100CST			0	0	0		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Thunderstorm winds caused a gas station canopy to collapse. Thunderstorm winds also damaged roofs and blew down signs, trees, fences, and powerlines. No dollar estimate of damage was provided.									
Denton County Lake Dallas	08	2100CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down trees. No dollar estimate of damage was provided.									
Denton County Lewisville	08	2100CST			0	0			Hail (1.75)
Palo Pinto County Mineral Wells	08	2105CST			0	0			Hail (0.75)
Tarrant County Ft Worth	08	2105CST 2115CST			0	0	0		Thunderstorm Wind
Thunderstorm winds caused several transformers to explode in west and north Ft Worth. No dollar estimate of damage was provided.									
Denton County 6 WNW Lewisville	08	2107CST			0	0			Hail (1.00)
Large hail was reported in Highland Village.									
Tarrant County Ft Worth	08	2113CST			0	0			Hail (1.00)
Large hail was reported in west Ft Worth.									
Denton County 8 E Lewisville	08	2114CST			0	0			Thunderstorm Wind (G52)
Thunderstorm wind gust reported one mile south of The Colony.									
Denton County 3 W Little Elm	08	2114CST			0	0	0		Thunderstorm Wind
Thunderstorm winds destroyed a patio roof. No dollar estimate of damage was provided.									
Parker County 9 N Garner	08	2115CST			0	0			Hail (2.75)
Large hail was reported in Whitt.									
Tarrant County White Settlement	08	2120CST			0	0	25K		Thunderstorm Wind
Thunderstorm winds downed powerlines and 21 powerline poles near the intersection of IH 30 and west Loop IH 820.									
Parker County Weatherford	08	2121CST			0	0			Hail (1.00)
Parker County Weatherford	08	2121CST			0	0			Thunderstorm Wind (G52)
Collin County Frisco	08	2126CST			0	0			Hail (0.75)
Tarrant County 8 N Ft Worth	08	2130CST			0	0			Hail (0.75)
Large hail was reported at Meacham Field in north Ft Worth.									
Collin County 1 SE Mc Kinney	08	2154CST			0	0			Hail (1.75)
Tarrant County Saginaw	08	2154CST			0	0			Flash Flood
Collin County 2 S Mc Kinney	08	2155CST			0	0			Hail (1.75)
Tarrant County 7 S Ft Worth	08	2210CST			0	0			Thunderstorm Wind (G61)
Thunderstorm wind gust reported in Edgecliff Village.									
Dallas County Carrollton	08	2211CST			0	0			Hail (0.88)
Dallas County Dallas	08	2215CST			0	0	200K		Thunderstorm Wind
Thunderstorm winds caused major roof damage to 200 apartment units in northeast Dallas. Thunderstorm winds also blew out windows and downed trees.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Dallas County Garland	08	2230CST			0	0	0		Thunderstorm Wind Thunderstorm winds caused several transformers to explode. No dollar estimate of damage was provided.
Hunt County Merit	08	2230CST			0	0	15K		Thunderstorm Wind (G70) Thunderstorm winds damaged roofs and downed trees.
Hunt County 8 NW Greenville	08	2239CST			0	0			Hail (0.88)
Hunt County 8 NW Greenville	08	2239CST			0	0	5K		Thunderstorm Wind Thunderstorm winds damaged roofs on two houses.
Dallas County Mesquite	08	2240CST			0	0	0		Thunderstorm Wind Thunderstorm winds caused several transformers to explode. No dollar estimate of damage was provided.
Hunt County Kingston	08	2241CST			0	0			Hail (0.88)
Dallas County Garland	08	2242CST			0	0	0		Thunderstorm Wind Thunderstorm winds downed trees and powerlines. No dollar estimate of damage was provided.
Hunt County Greenville	08	2245CST			0	0	25K		Thunderstorm Wind (G61) Thunderstorm winds downed large limbs, fences, and powerlines.
Rockwall County Rockwall	08	2245CST			0	0	50K		Thunderstorm Wind Thunderstorm winds downed carports, signs, and powerlines.
Rockwall County 2 S Royse City	08	2255CST			0	0	100K		Thunderstorm Wind Thunderstorm winds destroyed a barn, blew a roof off of a house, damaged two other houses, and rolled a travel trailer.
Kaufman County Forney	08	2310CST			0	0	5K		Thunderstorm Wind (G61) Thunderstorm winds peeled off half of the roof from a mobile home.
Hopkins County Emblem	08	2315CST			0	0			Hail (0.75)
Kaufman County Kaufman	08	2320CST			0	0			Thunderstorm Wind (G61)
Kaufman County Terrell	08	2325CST			0	0			Thunderstorm Wind (G61)
Kaufman County 5 E Terrell	08	2333CST			0	0			Thunderstorm Wind (G52)
Hopkins County Sulphur Spgs	08	2335CST			0	0			Hail (0.88)
Hopkins County Sulphur Spgs	08	2335CST			0	0	5K		Thunderstorm Wind (G61) Thunderstorm winds blew off a sidewalk cover, blew the windows out of five cars, and downed trees and signs.
Van Zandt County Grand Saline	09	0005CST			0	0			Hail (0.75)

A significant severe weather episode occurred across north Texas during the evening hours of May 8th. Severe thunderstorms developed between Abilene and Childress along a dryline late in the afternoon and moved east into north Texas. The most severe weather occurred along a corridor roughly along and 40 miles to the south of US 380 from west of Throckmorton in Throckmorton County eastward to Greenville in Hunt County. Occasionally propagating in a train echo fashion, these storms were efficient hail and wind producers. Wise County was hardest hit by severe weather on the 8th, with wind, hail, and one confirmed tornado destroying 15 houses and damaging 178 others. Widespread damage to automobiles and trees also were reported. In Denton County, thunderstorm winds blew down powerlines across Interstate 35-E near Lake Dallas, closing both northbound and southbound lanes of traffic. In the ensuing traffic jam, motorists were stranded in their vehicles as another severe thunderstorm moved across the area. In all, damage from this severe weather episode was estimated at between \$30 and \$40 million, with damage in Wise County estimated at \$5 million and \$3 to \$5 million in Denton County.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Parker County Countywide	08	2035CST			0	0	25K		Thunderstorm Wind
									Thunderstorm winds downed powerlines and powerline poles at many locations in Parker County.
Eastland County Eastland	25	2220CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees. No dollar estimate of damage was provided.
Eastland County Rising Star	26	0234CST			0	0			Hail (0.75)
Eastland County Ranger	26	2200CST			0	0	15K		Thunderstorm Wind
									Thunderstorm winds destroyed an historic oil well.
Eastland County Gorman	26	2210CST			0	0			Hail (0.88)
Eastland County Gorman	26	2210CST			0	0			Thunderstorm Wind (G70)
Comanche County De Leon	26	2225CST			0	0			Thunderstorm Wind (G52)
Eastland County Desdemona	26	2312CST			0	0			Hail (0.88)
Eastland County Desdemona	26	2312CST			0	0			Thunderstorm Wind (G52)
Erath County 1 S Stephenville	26	2325CST			0	0			Thunderstorm Wind (G70)
Erath County 10 N Stephenville	26	2330CST			0	0	25K		Thunderstorm Wind
									Thunderstorm winds blew the roof off a dairy and blew out windows.
Parker County Weatherford	27	0040CST			0	0			Flash Flood
Tarrant County Arlington	27	0046CST			0	0	35K		Lightning
									Lightning started a fire at a residence.
Tarrant County Arlington	27	0046CST			0	0	15K		Thunderstorm Wind
									Thunderstorm winds damaged 18 apartment units.
Parker County 3 NE Aledo	27	0050CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds reported at the intersection of IH 20 and IH 30.
Comanche County De Leon	27	0100CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew the roofs off a storage shed and a barn.
Tarrant County Blue Mound	27	0103CST			0	0			Thunderstorm Wind (G52)
Tarrant County Keller	27	0108CST			0	0			Thunderstorm Wind (G57)
Tarrant County Ft Worth	27	0110CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm wind gust reported at the NWS Forecast Office on the north side of Ft Worth.
Tarrant County Watauga	27	0112CST			0	0	50K		Thunderstorm Wind (G52)
									Thunderstorm winds blew the roof from a strip shopping center and an industrial building. Thunderstorm winds also downed trees and powerlines.
Tarrant County Grapevine	27	0120CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew the roof from a convenience store.
Dallas County Richardson	27	0125CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed powerlines. No dollar estimate of damage was provided.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, North

Collin County Plano	27	0130CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed large tree limbs. No dollar estimate of damage was provided.									
Dallas County Garland	27	0130CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed large tree limbs. No dollar estimate of damage was provided.									
Tarrant County North Richland Hills	27	0145CST			0	0			Flash Flood
Flash flooding was reported at the intersection of north Loop IH 20 and SH 183.									
Dallas County Irving	27	0200CST			0	0	100K		Thunderstorm Wind
Thunderstorm winds damaged a 62 unit apartment complex.									
Dallas County Dallas	27	0225CST			0	0			Flash Flood
Numerous intersections were flooded.									
Dallas County Richardson	27	0230CST			0	0	150K		Lightning
Lightning struck a house and started a fire.									
Tarrant County Ft Worth	27	0448CST			0	0			Flash Flood
Flash flooding was reported along the Jacksboro Highway in northwest Ft Worth.									

Severe thunderstorms developed along a dryline across west Texas during the afternoon of the 26th. These storms evolved into a line as they moved east into north Texas during the late evening hours. These storms produced damaging straight line winds and large hail as they moved across the region during the early morning hours of the 27th. Hardest hit was the Dallas/Fort Worth Metroplex area, where winds in excess of 58 mph damaged structures and downed trees and powerlines. In addition, several instances of urban flash flooding were reported.

TEXAS, North Panhandle

Hutchinson County Fritch	03	2010CST			0	0			Hail (0.75)
Hutchinson County 3 E Fritch	03	2027CST			0	0	15K		Thunderstorm Wind (G55)
Strong winds blew roof off a building and several campers were blown over.									
Carson County 11 W Panhandle	03	2045CST			0	0	20K		Thunderstorm Wind (G63)
Carson County Pantex	03	2046CST			0	0			Hail (0.75)
Armstrong County Washburn	03	2104CST			0	0	15K		Thunderstorm Wind (G65)
Two vehicles were blown off U.S. Highway 287 with one overturned.									
Severe thunderstorms raked across the central Texas panhandle during the evening hours producing downburst wind damage and small hail.									
Deaf Smith County 20 N Hereford	08	1330CST			0	0			Hail (0.75)
Oldham County Boys Ranch	08	1411CST			0	0			Hail (1.00)
Hartley County 1 SE Dalhart	08	1500CST			0	0			Hail (0.75)
Dallam County 1 N Dalhart	08	1538CST			0	0			Hail (0.75)
Wheeler County Shamrock	08	2052CST			0	0			Hail (0.88)
Severe thunderstorms moved north across the western sections of the Texas panhandle during the afternoon and an isolated severe thunderstorm developed over the southeast Texas panhandle during the evening hours producing reports of hail.									
Potter County 4 NW Amarillo	09	0026CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Randall County 4 SW Amarillo	09	0027CST			0	0			Hail (0.75)
									Severe thunderstorms moved across the south central sections of the Texas panhandle during the early morning hours producing some hail.
Collingsworth County Wellington	14	1922CST			0	0			Hail (0.75)
Collingsworth County 13 SE Wellington	14	2043CST			0	0			Thunderstorm Wind (G52)
									Severe thunderstorms developed during the evening hours across the southeast Texas panhandle producing hail and strong winds.
Donley County Howardwick	15	0042CST			0	0			Hail (0.75)
Gray County Mc Lean	15	0100CST			0	0			Hail (1.00)
Gray County Mc Lean	15	0100CST			0	1	575K		Thunderstorm Wind (G75)
Wheeler County Mobeetie	15	0115CST			0	0			Thunderstorm Wind (G60)
Wheeler County Shamrock	15	0120CST			0	0			Thunderstorm Wind (G60)
Hemphill County Canadian	15	0130CST			0	3	25K		Thunderstorm Wind (G70)
									An unofficial report from the public of 91 knot winds in the Gem community of Hemphill county about 15 miles southeast of Canadian as reported in the Canadian newspaper. There was tree damage reported in the county.
Wheeler County Wheeler	15	0133CST			0	0			Hail (0.75)
									Severe thunderstorms raked across the eastern Texas panhandle during the early morning hours producing very damaging winds along with some hail. The hardest hit locations were the town of McLean in southeastern Gray county and around Canadian in Hemphill county.
Sherman County Lautz	26	2111CST			0	0			Hail (0.75)
Moore County 5 SW Dumas	26	2135CST			0	0			Hail (0.75)
TXZ007 Moore	26	2253CST			0	1			Flood
									One car accident from water over State Highway 152 on the east side of Dumas, caused one injury. Severe thunderstorms across the north central sections of the Texas panhandle produced some hail and very heavy rains caused flooding during the late evening hours.
TEXAS, Northeast									
Bowie County New Boston	02	2100CST			0	0			Hail (0.88)
Cass County Douglassville	02	2149CST			0	0			Hail (1.00)
Cass County Atlanta	02	2205CST			0	0			Hail (1.75)
Smith County 4 N Tyler	02	2208CST			0	0			Hail (1.75)
Wood County 5 S Winnsboro	02	2208CST			0	0			Hail (1.75)
Cass County 3 SE Atlanta	02	2210CST			0	0			Hail (1.00)
									Hail covered the ground along Hwy 259.
Wood County 4 S Winnsboro	02	2220CST			0	0			Hail (1.75)
									Golfball size hail stripped leaves off of trees.
Smith County 10 NE Tyler	02	2225CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Northeast									
Cass County Atlanta	02	2230CST			0	0			Hail (1.00)
Gregg County 2 E Liberty City	02	2241CST			0	0			Hail (1.00)
Gregg County Liberty City	02	2241CST			0	0			Hail (1.00)
Franklin County Mt Vernon	02	2255CST			0	0			Hail (0.75)
Titus County 1 N Mt Pleasant	02	2300CST			0	0			Hail (0.75)
Morris County 1 S Naples	02	2333CST			0	0			Hail (0.75)
Bowie County 4 S Maud	02	2355CST			0	0			Hail (1.25)
Wood County Mineola	09	0020CST			0	0			Thunderstorm Wind (G60)
Cass County Domino	26	1250CST			0	0			Hail (0.75)
Cass County 9 W Queen City	26	1255CST			0	0			Thunderstorm Wind (G60)
			Trees were toppled and 2 inches of rain was reported in a 35 minute period.						
Harrison County Uncertain	26	1330CST			0	0			Hail (2.00)
			Reported at Caddo Lake State Park.						
Franklin County Mt Vernon	27	0402CST			0	0			Thunderstorm Wind (G60)
Franklin County Cypress	27	0405CST			0	0			Thunderstorm Wind (G60)
Franklin County Mt Vernon	27	0420CST			0	0			Thunderstorm Wind (G65)
Gregg County Gladewater	27	1400CST			0	0			Hail (1.00)
Gregg County Gladewater	27	1417CST			0	0			Hail (1.00)
Harrison County 2 W Hallsville	27	1405CST			0	0			Hail (0.75)
Smith County Lindale	27	1405CST			0	0			Hail (0.75)
Gregg County 3 S Longview	27	1420CST			0	0			Hail (0.75)
Gregg County Longview	27	1430CST			0	0			Hail (0.75)
Gregg County Gladewater	27	1453CST			0	0			Funnel Cloud
			Reported by Police Department.						
Marion County 2 E Jefferson	27	1530CST			0	0			Thunderstorm Wind (G65)
			Several trees toppled at the Hwy 43 Hwy 49 junction.						
Harrison County Marshall Northeast	27	1532CST 1537CST			0	0			Hail (1.00)
			Vegetation and trees stripped of leaves.						
Harrison County Marshall	27	1535CST			0	0	200K		Thunderstorm Wind (G65)
			Assisted living center under construction in east Marshall was torn down by high thunderstorm winds.						

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, Northeast</u>									
Harrison County 3 W Karnack	27	1540CST			0	0			Thunderstorm Wind (G60)
Harrison County Marshall	27	1545CST			0	0	10K		Thunderstorm Wind (G60)
Several trees down in town including one that fell across a house.									
Rusk County 1 SW Tatum	27	1550CST			0	0			Hail (1.75)
Harrison County Marshall	27	1553CST			0	0			Lightning
Lightning blew up an oak tree along Hwy 80 east side of Marshall.									
Rusk County Tatum	27	1555CST			0	0			Hail (0.75)
Panola County De Berry	27	1650CST			0	0			Hail (1.75)
Panola County 4 NW Carthage	27	1854CST			0	0			Hail (0.75)
Reported by SKYWARN spotters.									
Panola County Carthage	27	1903CST			0	0			Hail (1.75)
Bowie County Maud	28	0530CST			0	0			Hail (1.00)
Bowie County Texarkana	28	0530CST			0	2	1.1M		Flash Flood
Excessive rain over a short period of time caused numerous flooding problems across the city. Cars were stranded and stalled with several underpasses flooded. A 21 year old woman was critically injured when her car was swept off a road into a drainage ditch. A 20 year old man riding with her managed to pull himself free of the vehicle by grabbing onto a branch hanging over the ditch. An estimated 500 residents were evacuated from their homes including 50 residents of a Texarkana, TX nursing home.									
Cass County Atlanta	28	0720CST			0	0			Funnel Cloud
Funnel cloud reported by ham radio Skywarn Spotter over the Atlanta High School.									
Cass County Queen City	28	0828CST			0	0			Flash Flood
Hwy 59 closed due to high water.									
Cass County 5 SE Atlanta	28	0837CST			0	0			Urban/Sml Stream Fld
Street flooding occurred in town.									
<u>TEXAS, South</u>									
NONE REPORTED.									
<u>TEXAS, South Central</u>									
Burnet County 2 N Buchanan Lake	01	1500CST 1505CST			0	0	0	0	Hail (0.75)
Williamson County Cedar Park	01	1525CST 1535CST			0	0	0	0	Hail (1.00)
Travis County Austin	01	1540CST 1550CST			0	0	0	0	Hail (0.75)
Travis County 4 S Austin	01	1600CST 1610CST			0	0	0	0	Hail (1.00)
Williamson County 5 SE Cedar Park	01	1610CST 1615CST			0	0	0	0	Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, South Central</u>									
Williamson County									
Jarrell	02	1715CST 1720CST			0	0	0	0	Hail (1.00)
Bandera County									
8 N Bandera	25	1910CST 1915CST			0	0	0	0	Hail (1.00)
Bandera County									
10 NW Bandera	25	1910CST 1915CST			0	0	0	0	Thunderstorm Wind (G53)
Kerr County									
13 SW Kerrville	25	1915CST 1920CST			0	0	0	0	Hail (0.75)
<u>TEXAS, South Panhandle</u>									
Lamb County									
Olton	08	1435CST			0	0	150K	0	Hail (1.75)
Lamb County									
3.5 S Olton	08	1438CST	0.2	10	0	0	0	0	Tornado (F0)
Hale County									
1 S Plainview	08	1449CST			0	0	500K	0	Thunderstorm Wind (G82)
Hale County									
1 SW Plainview	08	1500CST			0	0	5M	0	Hail (1.75)
Lamb County									
4 E Olton	08	1501CST			0	0	0	25K	Hail (1.75)
Floyd County									
4 SSW Lone Star	08	1520CST			0	0	0	0	Hail (1.00)
Briscoe County									
5 E Quitaque	08	1542CST	0.2	10	0	0	0	0	Tornado (F0)
Hall County									
5 N Turkey	08	1558CST	0.2	10	0	0	0	0	Tornado (F0)
Stonewall County									
Aspermont	08	1630CST			0	0	50K	0	Thunderstorm Wind (G70)
Stonewall County									
10 SW Aspermont	08	1630CST			0	0	25K	0	Thunderstorm Wind (G60)
Stonewall County									
Old Glory	08	1643CST			0	0	2K	25K	Hail (1.75)
Thunderstorms developed over the Texas South Plains, the extreme southern Texas Panhandle, and the southern portions of the Rolling Plains during the late afternoon of the 8th. Plainview was hardest hit with over \$5 million in property damage due to golfball-sized hail and winds in excess of 90 mph. Hundreds of homes and vehicles were damaged. Short-lived, weak tornadoes occurred in Lamb County (near Olton) and over the extreme southern Texas Panhandle near the towns of Quitaque and Turkey. Each tornado touched down in open country and caused no apparent damage.									
Cottle County									
1 NW Cee Vee	14	1910CST			0	0	0	0	Hail (1.50)
Cottle County									
1 NW Cee Vee	14	1950CST			0	0	0	0	Hail (0.75)
Childress County									
(Cds)Childress Arpt	14	2112CST			0	0	10K	10K	Thunderstorm Wind (G58)
Childress County									
Childress	14	2115CST			0	0	10K	10K	Thunderstorm Wind
Lubbock County									
Lubbock Intl Arpt	14	2317CST			0	0	0	0	Thunderstorm Wind (G50)
Lynn County									
6 ENE Wilson	14	2340CST			0	0	0	0	Thunderstorm Wind (G60)
Floyd County									
12 NE Floydada	14	2345CST			0	0	15K	0	Thunderstorm Wind
Crosby County									
Cone	15	0010CST			0	0	0	5K	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Briscoe County									
Quitaque	15	0015CST			0	0	5K	0	Thunderstorm Wind
Motley County									
Matador	15	0030CST			0	0	10K	0	Thunderstorm Wind
Childress County									
(Cds)Childress Arpt	15	0057CST			0	0	0	0	Thunderstorm Wind (G50)
			Scattered severe storms affected the eastern South Plains (mainly east of the caprock) late on the 14th and early on the 15th. There were a few hail reports, but much of the impact was due to high winds. Gusts between 50 and 60 knots (up to 69 mph) were recorded at Lubbock International Airport, Childress airport (twice; 3+ hours apart), and by a NWS cooperative observer in Lynn County. Childress was hardest hit, with signs, billboards, and a brick wall blown down (in addition to extensive tree damage). Elsewhere, reports of damages were confined mainly to trees (both uprooted and broken large limbs). In addition, a couple storage sheds were destroyed in Quitaque. In Cedar Hill (Floyd County), an 18 wheeler was blown over, and high winds heavily damaged a tree, shed, and barn.						
Motley County									
Flomot	17	2110CST			0	0	10K	0	Thunderstorm Wind
Motley County									
4 W Matador	17	2225CST			0	0	0	0	Hail (1.75)
			A severe storm in Motley County blew down an antenna, tree, and a 200-gallon fuel tank, as reported by a NWS cooperative observer. Later, the Motley County Sheriff's Office reported golfball-sized hail west of Matador.						
Cottle County									
5 W Paducah	20	1625CST			0	0	0	0	Hail (1.50)
Cottle County									
5 W Paducah	20	1625CST			0	0	5K	0	Thunderstorm Wind
Cottle County									
Paducah	20	1633CST			0	0	0	0	Hail (0.75)
Cottle County									
Paducah	20	1643CST			0	0	0	0	Hail (1.00)
			During the early evening on the 20th, a severe thunderstorm developed over western portions of Cottle County. Strong winds 5 miles west of the town of Paducah blew down a grain bin and damaged a trailer home. Several trees were also blown down. Half dollar-sized hail was observed in this location. The Paducah Fire Department later reported this storm produced dime- to quarter-sized hail which covered the ground in town.						
King County									
8 E Guthrie	24	1615CST			0	0	0	0	Hail (0.75)
Kent County									
Jayton	24	1630CST			0	0	0	0	Hail (1.00)
King County									
Guthrie	24	1633CST			0	0	0	0	Hail (1.00)
Stonewall County									
1 S Peacock	24	1721CST			0	0	0	0	Hail (1.00)
Stonewall County									
6 W Aspermont	24	1735CST			0	0	0	15K	Hail (1.75)
Stonewall County									
11 SW Aspermont	24	1738CST			0	0	0	15K	Hail (1.75)
Stonewall County									
3 SW Aspermont	24	1741CST			0	0	0	15K	Hail (1.75)
Stonewall County									
2 S Aspermont	24	1750CST			0	0	0	25K	Hail (2.75)
Stonewall County									
1 S Old Glory	24	1830CST			0	0	0	10K	Hail (2.75)
Stonewall County									
5 NE Aspermont	24	1852CST			0	0	0	10K	Hail (1.75)
			Severe thunderstorms developed during the evening over southern portions of the Rolling Plains. The Stonewall County Sheriff's Office reported several occurrences of golfball- to baseball-sized hail in and near Aspermont and Old Glory. Dime- to quarter-sized hail was also reported in King and Kent counties.						
Cochran County									
Whiteface	25	1730CST			0	0	15K	0	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Yoakum County 12 N Plains	25	1745CST			0	0	5K	50K	Hail (2.75)
Cochran County 15 S Lehman	25	1750CST			0	0	0	50K	Hail (2.75)
Hockley County 4 W Sundown	25	1820CST			0	0	0	0	Hail (0.75)
Terry County 5 WSW Needmore	25	1830CST			0	0	0	50K	Hail (1.75)
Terry County Meadow	25	1845CST			0	0	0	0	Hail (1.00)
Terry County Meadow	25	1845CST			0	0	0	0	Thunderstorm Wind (G65)
Terry County Brownfield	25	1853CST			0	0	15K	25K	Hail (1.75)
Terry County Meadow	25	1859CST			0	0	0	25K	Hail (1.75)
Terry County Union	25	1911CST			0	0	2K	0	Thunderstorm Wind
Lynn County 16 SW Tahoka	25	1921CST			0	0	0	25K	Hail (1.50)
Lynn County 16 SW Tahoka	25	1921CST			0	0	1K	0	Thunderstorm Wind
Lynn County 5 W Tahoka	25	1933CST			0	0	0	50K	Hail (2.75)
Lynn County Odonnell	25	1944CST			0	0	0	0	Hail (1.00)
Lynn County Tahoka	25	1951CST			0	0	500K	0	Hail (2.75)
Stonewall County 7 W Aspermont	25	1956CST			0	0	0	10K	Hail (1.75)
Lynn County 3 S Draw	25	2000CST	0.1	10	0	0	0	0	Tornado (F0)
Stonewall County 3 S Aspermont	25	2014CST			0	0	0	10K	Hail (1.75)
Stonewall County Aspermont	25	2018CST			0	0	0	0	Hail (0.88)
Garza County 13 S Post	25	2045CST			0	0	0	25K	Hail (1.00)

Supercell thunderstorms developed over western portions of the South Plains during the evening of the 25th and produced large hail and wind damage across Cochran, Yoakum, Terry, Lynn and Garza Counties. One of these supercell thunderstorms produced a weak tornado 3 miles south of the community of Draw in southeast Lynn County. The brief touchdown was reported by a Lubbock television station's chase crew. This storm originally developed near the state line, then moved east-southeast and hammered Tahoka with up to baseball-sized hail. Many homes and vehicles were damaged. Whiteface (Cochran County) was hit with high winds which knocked over a large tree onto a house and truck, and damaged two other roofs. Other damages included snapped power poles near Union and signs blown down in southwest Lynn County. Cotton crops were also damaged by the hail.

Other isolated severe thunderstorms moved from the northern Big Country into the southern portions of the Rolling Plains and produced nickel- to golfball-sized hail in Stonewall County.

TEXAS, Southeast

TXZ180>182-201-215>216

Tyler - Jasper - Newton - Hardin - Jefferson - Orange

20	0000CST	0	0	Drought
31	0000CST			

Drought conditions began by mid-May, as southeast Texans had gone over six weeks without any significant rainfall. By the end of May, many locations had seen less than 0.10 inches of rain for the month. This was the start of a significant impact on agriculture and forestry resources, but the biggest losses did not occur until June. See June 1998's Storm Data for more complete details on the drought.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Southeast

The other major story during the drought was the smoke and haze from forest fires burning in Mexico and Central America. For over a week (May 12-20th), visibilities were 3 miles or less. People with allergies or respiratory problems, as well as the elderly and very young, were advised to stay indoors during this event.

TEXAS, West

TXZ045>048-050>052-057>063-067>070-074>075-079>082 - **Gaines - Dawson - Borden - Scurry - Andrews - Martin - Howard - Van Horn/Guadalupe Mountains Area - Reeves County And Upper Trans Pecos - Loving - Winkler - Ector - Midland - Glasscock - Ward - Crane - Upton - Reagan - Davis Mountains - Pecos - Presidio Valley - Marfa Plateau - Big Bend Area - Terrell**

01 0000CST 0 0 Drought
31 2359CST

Drought conditions continued in Southwest Texas and Southeast New Mexico. The Midland/Odessa NWS office recorded only 0.02" of precipitation for the entire month, breaking the record minimum amount of 0.06". Marathon, TX and Carlsbad, NM received no precipitation for the month. Agricultural losses will be great but will not be included until the end of the drought or the end of the harvest when totals are calculated.

Andrews County

Andrews

14 2235CST 0 0 Hail (1.75)

The first cell in the region began in western Andrews County and intensified rapidly as it approached the city of Andrews.

Scurry County

Snyder

15 0040CST 0 0 Hail (1.00)

A Pacific Cold Front pushed eastward into the Permian Basin late on the evening of the 14th. 00Z soundings in the area showed a fairly strong capping inversion that was suppressing deep convection in the area. Increasing low level winds and moisture combined to break the cap in western Andrews County. Surface temperatures were in the 75-80 degree range with dew points in the mid 60s. Winds were very strong on both sides of the front enabling upward motion, due to the resulting convergence, to break through the -73 J/kg cap as seen from the modified 00z sounding. CAPE values were near 3800 J/kg.

Soon after the Andrews County storm developed a line of small cells began to form along the front that stretched from Lubbock to Odessa. As the line of storms moved into richer moisture it filled in completely and there was an almost continuous line of 50+ dBz echoes once the convection reached a line from north of Snyder to Big Lake.

Jeff Davis County

2 NW Ft Davis

17 2108CST 0 0 30K Thunderstorm Wind

Winds from a collapsing thunderstorm damaged the hospital exhibit building at the Fort Davis National Historic Site. A sixty foot section of the porch along with columns and a 12-foot overhang for the porch were all thrown on top of the roof of the structure.

Brewster County

1 N Alpine

17 2154CST 0 0 Thunderstorm Wind (G50)

Downbursting thunderstorm winds gusted to 58 mph at a radio station in Alpine.

Presidio County

21 WNW Marfa

18 2110CST 0 0 Thunderstorm Wind (G62)
2115CST

A thunderstorm moving to the northeast through northwestern Presidio County formed a bow as it crossed U.S. Highway 90. A 62 knot gust was recorded at the Marfa Aerostat site. Power was lost at the site for about 5 hours.

Jeff Davis County

10 NW Ft Davis

18 2155CST 0 0 Thunderstorm Wind (G54)

The cluster of storms that affected Presidio County then moved to the northeast into the Davis Mountains where a 62 mph gust was recorded at the McDonald Observatory.

Reeves County

7 SE Saragosa

18 2255CST 0 0 2K Thunderstorm Wind

The storms then exited the mountains, weakened but still had a downburst during its collapse that blew a satellite dish into a car's windshield. The windshield was smashed and also there was minor roof damage to a house in the area due to the wind. No rain fell during the event, but dust was raised that brought the visibility to near "zero".

Reagan County

Big Lake

25 1730CST 0 0 Hail (0.75)

Scurry County

4 SE Dunn

25 1850CST 0 0 150K Hail (2.75)

This storm was a supercell with a moderate to strong anti-cyclonically rotating updraft. The storm entered Scurry County from the south out of Mitchell County and dropped large hail over much of eastern Scurry County. In the China Grove community baseball size hail was reported.

Scurry County

Hermleigh

25 1915CST 0 0 Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Scurry County 5 ENE Snyder	25	1923CST			0	0			Hail (2.00)
<p>The same storm that passed through China Grove and Hermleigh pounded a prison east of Snyder with 2-inch diameter hail. The storm was still showing signs of rotation at this point. As the storm moved into northeastern Scurry County the rotation broadened and the storm lost its overhang radar signature. This was in a very sparsely populated section of the county and no other reports were received.</p> <p>Late in the afternoon of the 25th a cluster of thunderstorms formed near the Reagan/Irion County line near the intersection of a cold front and the dry line. The cells on the southern and eastern parts of the cluster moved into the southeasterly surface winds, whereas the western and northern cells developed northeastward into the northerly flow behind the cold front. The former storms remained in the San Angelo area of responsibility, but the latter storms moved northward into Scurry County. Surface dew point temperatures were in the mid 60s on both sides of the front.</p> <p>The first report in Big Lake was a cell that developed near this cluster along the dry line. The Scurry County storm was moving much like a left-split storm with a reflectivity gradient on its north side. Also a moderate to strong anti-cyclonically rotating updraft was present for about a 20 mile stretch in Scurry County. Large hail pounded the countryside and covered U.S. Highway 84 near Hermleigh where a traffic accident, partly blamed on the hail-slickened roads and poor visibilities, caused three injuries.</p> <p>This storm was moving to the NNE at 32 knots into a 15 kt northeasterly surface wind, making for a 40-50 knot relative inflow. Property damage was approximately \$120,000 on houses and \$30,000 on cars.</p>									
Dawson County 12 NE Lamesa	25	1955CST			0	0			Hail (1.75)
Borden County 17 NW Gail	25	2000CST			0	0			Hail (1.50)
Borden County 14 NE Gail to 11 NE Gail	25	2040CST			0	0	20K		Hail (2.75)
<p>Although sparsely populated, most of the people of north-central Borden County were pounded by this HP Supercell south of the mesocyclone. Numerous reports of broken windows in houses and vehicles were received. Animals including one coyote and one deer were killed by the hail as well as numerous rabbits, plus cattle had deep injuries and two horses had an eye put out by the wind-driven large hail.</p>									
Scurry County Fluvanna	25	2110CST			0	0			Hail (1.75)
Scurry County Fluvanna	25	2112CST			0	0			Thunderstorm Wind (G52)
<p>This storm entered the area from the Texas South Plains as it moved to the southeast. It entered the area as a supercell became a well organized HP Supercell while over northern Borden and northwestern Scurry Counties. Much of the large hail was in the wrap-around area south of the mesocyclone where strong winds and large hail combined to wreak havoc. The storm turned slightly left as it moved almost due east through these counties.</p>									
Glasscock County 7.5 E Garden City	25	2103CST			0	0			Hail (1.75)
<p>Golfball size hail covered Highway 158 in eastern Glasscock County</p>									
Howard County 2 S Forsan	25	2312CST			0	0			Hail (1.50)
Andrews County 17.5 W Andrews	26	1500CST			0	0			Hail (1.75)
<p>This storm developed in western Andrews County along an outflow boundary from the previous night's convection.</p>									
Andrews County 5 NW Andrews	26	1528CST			0	0			Hail (2.75)
Gaines County 23 W Seminole	26	1528CST			0	0			Hail (1.75)
<p>The storm in western Andrews County expanded northward into western Gaines County where golfball size hail fell on U.S. 180.</p>									
Andrews County Andrews	26	1630CST			0	0			Hail (1.75)
Andrews County West Portion	26	1630CST 2100CST			0	0			Flash Flood
<p>This nearly stationary storm dropped large amounts of rain over the western sections of Andrews County where State Highway 115, FM 181, and FM 2371 flooded. Several cars became stranded, and waters were still standing on FM 181 the following morning.</p>									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Andrews County 16 SW Andrews	26	1700CST			0	0	10K		Thunderstorm Wind
The storm that first dropped golfball size hail two hours earlier had slowly sagged southward as it became better organized into an impressive HP Supercell. A mid-level circulation developed and a rain-filled rear-flank downdraft (RFD) surged southward across County Road 7000. Twelve utility poles were downed in this area in two groups: a group of 3 and a group of 9 separated by one mile.									
A survey of the area determined that the damage occurred about 2-3 miles west of where the circulation passed over the road (as determined through radar and GPS comparisons). No damage was seen in the area of the circulation, therefore it was determined that this circulation never reached the ground. The damage path was slightly divergent with winds from a 340 to 325 degree direction.									
Ector County North Cowden	26	1805CST			0	0			Hail (1.00)
The Andrews County storm continued to sag southward into northern Ector County.									
Ector County 3 W Gardendale	26	1835CST			0	0			Hail (1.50)
Reeves County 7 S Saragosa	26	1520CST			0	0			Hail (1.00)
Pecos County 10 SW Ft Stockton	26	1630CST			0	0	50K 350K		Thunderstorm Wind
This cluster of storms formed on the northeastern foothills of the Davis Mountains then moved to the east into southern Reeves then western Pecos Counties. As a storm approached a rural development southwest of Fort Stockton, a bow echo formed that caused scattered damage across the grounds of a prison. Part of a roof was taken off a prison dorm and an interior wall partially collapsed. A section of the site's security fence was taken down as well. The dorm evacuated in favor of a gym for 270 inmates, then these inmates were relocated to other facilities in subsequent days. In a farming area, 1320 acres of cotton was destroyed.									
Martin County 22 N Stanton	26	1737CST			0	0			Hail (1.75)
This storm developed on the same boundary as Andrews County storm. About the time of this report the storm briefly exhibited characteristics of a Classic Supercell, but the storm sent out an outflow boundary to the south that blocked its inflow.									
Martin County Lenorah	26	1815CST			0	0			Hail (1.00)
The storm over northern Martin County sagged southward to Lenorah.									
Martin County Stanton	26	1830CST			0	0			Hail (1.00)
This storm formed along the outflow boundary of the Lenorah storm.									
Howard County 2 N Big Spring	26	1833CST			0	0			Hail (0.75)
This storm developed on the original outflow boundary on which the Andrews and Martin County storms formed.									
Martin County 2 NE Stanton	26	1850CST			0	0			Hail (1.75)
Martin County 2 NE Stanton	26	1850CST			0	0			Thunderstorm Wind (G52)
Howard County 8 W Big Spring	26	1855CST			0	0			Hail (1.50)
Howard County 1 N Big Spring	26	1911CST			0	0			Thunderstorm Wind (G57)
Howard County 12 SW Big Spring	26	1922CST			0	0			Hail (1.75)
The Lenorah, Stanton, and Big Spring storms eventually merged into a large cluster that covered over 1000 square miles of eastern Martin and western and central Howard counties. This cluster began to move to the east out of the area.									
Brewster County Marathon	26	1931CST			0	0			Hail (1.75)
Brewster County Marathon	26	1935CST			0	0	100K		Hail (2.50)
This small, but intense storm formed on an outflow boundary from storms to the north in Pecos County. The storm built right over the town of Marathon then slow moved to the southeast and weakened.									
Terrell County 28 NNE Dryden	26	2219CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Western North

Hardeman County
5 SE Quanah 24 1740CST 0 0 1K **Thunderstorm Wind**

Severe thunderstorms developed over western portions of north Texas during the afternoon of May 24th, resulting in numerous reports of large hail and damaging winds. Several camping trailers were damaged 5 miles southeast of Quanah in Hardeman County at Lake Pauline. Quarter size hail was reported in Quanah in Hardeman County and also in Knox County 10 miles west of Benjamin.

Foard County
Crowell 25 2220CST 0 0 0.50K **Thunderstorm Wind**

An isolated severe thunderstorm developed over Foard County during the evening of May 25th, resulting in 4 to 6 inch diameter tree limbs being blown down in Crowell.

UTAH, North, Central and South

UTZ017 **Central And Southwest Mountains**
08 0200MST
1200MST 0 0 0 0.20K **Heavy Snow**

Weber County
Roy 08 0200MST
2200MST 0 0 80K 2K **Heavy Rain**

Weber County
Ogden 08 2100MST 0 0 0 0.30K **Hail (0.80)**
Heavy rains combined with the spring runoff and caused flooding in several homes in Weber county. From .75-1.5" of rain fell in the area in 2 hours time. 5" of snow was reported in the southwest mountains.

Salt Lake County
5 SE Magna 08 1515MST 0.1 33 0 0 5K 0.20K **Tornado (F0)**
1516MST

A weak, 30 second tornado touched down in a trailer park in West Valley and caused minor damage.

UTZ017 **Central And Southwest Mountains**
15 0100MST
0800MST 0 0 0 0.30K **Heavy Snow**
6-7" of snow fell in the southwest mountains overnight.

Tooele County
15 W Delle 16 1400MST 0 0 0 0 **Thunderstorm Wind (G50)**
A microburst wind gust to 58 mph (50kts) was recorded at the Aragonite RAWS on the west desert.

Davis County
Kaysville 21 0300MST
0800MST 0 0 40K 4K **Heavy Rain**

Summit County
Coalville 21 1300MST
1305MST 0 0 0 0.20K **Hail (0.75)**

Davis County
West Pt 21 1430MST 0.1 20 0 0 22K 1.5K **Tornado (F0)**

Weber County
Roy 21 1430MST 0.1 10 0 0 18K 2K **Tornado (F0)**

Cache County
Logan 21 1450MST 0 0 3K 2K **Thunderstorm Wind (G53)**

Utah County
Provo 21 1500MST 0 0 1K 1K **Thunderstorm Wind (G55)**
Severe thunderstorms ripped through the Wasatch Front on this date. Heavy rains combined with the spring runoff and caused flooding in Davis county during the morning hours. Several homes experienced basement and yard flooding from the 1-1.5" of rain that fell in the area. In the afternoon severe thunderstorms developed. Hail, microburst winds and 2 weak tornadoes caused damage.

UTZ008 **Wasatch Mountains South Of I80**
22 0000MST
0800MST 0 0 0 0.20K **Heavy Snow**

1' of snow fell on Hidden Peak at the Snowbird Ski Resort.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

UTAH, North, Central and South

UTZ005-016>017-020-025 **Great Salt Lake Desert And Mountains/Wendover/Snowville - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains - South Central Utah/Kanab/Escalante - Tavaputs Plateau**

26	1000MST 1900MST					0	0	4.2K	7K	High Wind (G73)
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High south winds occurred across western Utah out ahead of an approaching cold front. A gust to 84 mph (73kts) occurred at the Signal Peak RAWS (Sevier county mountains) and a gust to 68 mph (59 kts) was measured by a spotter in Pinto Junction. These were the highest reported winds.

UTZ005

Great Salt Lake Desert And Mountains/Wendover/Snowville

29	2200MST					0	0	0.60K	0.80K	High Wind (G54)
30	0200MST									

A strong cold front swept into northwest Utah and caused high winds to occur on the west deserts. Wendover had a measured wind gust to 62 mph (54kts) and the Stockton Bar mesonet site had a gust to 60 mph (52kts).

UTAH, Northeast

NONE REPORTED.

VERMONT, North and Central

Chittenden County

Shelburne

20	1430EST					0	0			Tstm Wind/Hail
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A weather disturbance moved across southern Canada during Wednesday May 20th. The associated frontal systems triggered afternoon thunderstorms accompanied by gusty winds and small hail in Chittenden county. In particular, 1/4 inch hail was reported in Shelburne, Vermont.

Rutland County

Ira

20	1631EST					0	0			Hail (0.75)
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Rutland County

Rutland

20	1643EST					0	0			Hail (0.75)
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A weather disturbance moved across southern Canada during Wednesday May 20th. The associated frontal systems triggered afternoon thunderstorms, a few of which were accompanied by strong winds and hail. In particular, dime size hail was reported in the Vermont towns of Ira and Rutland.

Franklin County

Richford

29	1200EST 1203EST					0	0	5K		Thunderstorm Wind
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A cold front moved southeast across Vermont during Friday, May 29th. Thunderstorms developed ahead of it and a few were accompanied by strong winds and very heavy rain. In the Vermont town of Richford, trees and power lines were blown down.

Orleans County

Brownington Center

29	1300EST					0	0	20K		Thunderstorm Wind (G52)
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Orleans County

Derby Center

29	1310EST					0	0			Thunderstorm Wind (G50)
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Orleans County

Newport

29	1310EST					0	0			Thunderstorm Wind (G50)
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A cold front moved southeast across Vermont during Friday, May 29th. Thunderstorms developed ahead of it and a few were accompanied by strong winds and very heavy rain. In the Vermont towns of Derby Center and Newport, trees and power lines were blown down. In Brownington Center, a barn was destroyed.

Essex County

Island Pond

29	1320EST					0	0	30K		Thunderstorm Wind
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A cold front moved southeast across Vermont during Friday, May 29th. Thunderstorms developed ahead of it and a few were accompanied by strong winds and very heavy rain. In the Vermont town of Island Pond, trees and power lines were blown down. A few trees were blown onto houses causing some structural damage.

Rutland County

Middletown Spgs

29	1500EST					0	0			Thunderstorm Wind (G50)
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Rutland County

Rutland

29	1505EST					0	0	15K		Thunderstorm Wind
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A cold front moved southeast across Vermont during Friday, May 29th. Thunderstorms developed ahead of it and a few were accompanied by strong winds and very heavy rain. In the Vermont town of Middletown Springs, trees and power lines were blown down while in Rutland, Vermont roof damage was sustained on a lumber company due to the strong thunderstorm winds.

Washington County

Duxbury

29	1505EST					0	0			Thunderstorm Wind (G50)
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Washington County

Middlesex

29	1505EST					0	0			Thunderstorm Wind (G50)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VERMONT, South</u>									
Bennington County Bennington	31	1605EST			0	0	10K		Thunderstorm Wind
Windham County Battleboro	31	1642EST			0	0	8K		Thunderstorm Wind
Bennington County Shaftsbury	31	1815EST			0	0	20K		Hail (1.75)
Windham County Battleboro	31	1855EST			0	0	6K		Thunderstorm Wind
Bennington County Bennington	31	1930EST			0	0	7K		Thunderstorm Wind
Bennington County Pownal	31	1930EST			0	0	6K		Thunderstorm Wind
Bennington County Shaftsbury	31	1930EST			0	0	4K		Thunderstorm Wind
<p>During the morning hours of May 31, a strong low pressure system over the upper Great Lakes pushed a warm front across eastern New York and western New England. This set the stage for a major severe weather outbreak in southern Vermont. In this highly sheared environment several lines of severe thunderstorms formed ahead of an approaching cold front, which resulted in one tornado and several severe thunderstorms. The F2 tornado in Bennington County is the continuation of the tornado that crossed Saratoga and Rensselaer Counties in eastern New York. The tornado entered the county as an F2 but quickly weakened to an F1. The tornado followed route 67 from the state line through North Bennington to the South Shaftsbury area. The tornado dissipated approximately two miles east of South Shaftsbury along Lower East Road. This tornado produced extensive damage to many homes in North Bennington and South Shaftsbury. The Bennington College grounds were hard hit with many trees blown over or sheared apart. Approximately 8,000 customers lost power with some locations remaining without power for two to three days. Severe thunderstorms also downed trees, power lines and utility poles at several locations in southern Vermont. A severe thunderstorm at Shaftsbury in Bennington County produced large hail.</p>									
<u>VIRGIN ISLANDS</u>									
St. Croix County									
St. Croix	08	1700AST 1900AST			0	0			Urban/Sml Stream Fld
<p>An upper level trough located east of the U.S. Virgin Islands produced showers and thunderstorms mainly over St. Croix. The Virgin Islands Territorial Emergency Management Agency indicated urban and small stream flooding across the east section of the island.</p>									
St. Thomas County									
St. Thomas	12	1550AST 1615AST			0	0			Waterspout
<p>A local observer reported a waterspout one mile south of St. Thomas.</p>									
St. Thomas County									
St. Thomas	12	1830AST 1845AST			0	0			Waterspout
<p>The St. Thomas control tower at the airport reported a waterspout over the west end of St. Thomas. No damage was observed.</p>									
St. Croix County									
St. Croix	25	1630AST 1645AST			0	0			Waterspout
<p>A pilot reported a waterspout 10 miles north of St. Croix moving to the northwest.</p>									
St. Croix County									
St. Croix	28	0620AST 0635AST			0	0			Waterspout
<p>A boater reported a waterspout that almost touched down one mile north of St. Croix.</p>									
<u>VIRGINIA, East</u>									
Mecklenburg County									
La Crosse	01	2140EST			0	0			Hail (1.00)
Southampton County									
Sedley	04	1520EST			0	0			Hail (0.75)
Cumberland County									
1 E Cumberland	04	1530EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, East</u>									
Goochland County									
3 E Maidens	04	1620EST			0	0			Hail (0.75)
New Kent County									
New Kent	04	1645EST			0	0			Hail (0.75)
Colonial Heights (C)									
Colonial Hgts	04	1650EST			0	0			Hail (0.75)
Hanover County									
Montpelier	04	1700EST			0	0			Hail (1.00)
King William County									
King William	04	1714EST			0	0			Hail (1.50)
King And Queen County									
St Stephens Church	04	1727EST			0	0			Hail (1.75)
Chesterfield County									
Midlothian	04	1734EST			0	0			Hail (1.00)
Henrico County									
Varina	04	1735EST			0	0			Hail (1.00)
Richmond (C)									
Richmond Intl Arpt	04	1741EST			0	0			Hail (0.75)
Caroline County									
Ladysmith	04	1803EST			0	0			Hail (0.88)
Essex County									
Hustle	04	1803EST			0	0			Hail (0.88)
Caroline County									
Bowling Green	04	1820EST			0	0			Hail (0.88)
Prince Edward County									
Rice	08	0545EST			0	0			Hail (0.75)
Prince George County									
3 SW Templeton	08	0730EST			0	0			Hail (0.75)
Petersburg (C)									
Petersburg	08	0934EST			0	0			Hail (0.75)
Hopewell (C)									
Hopewell	08	0940EST			0	1			Lightning
					Twelve year old boy was struck by lightning at the Carter G. Woodson School.				
Charles City (C)									
3 SW Charles City	08	1015EST			0	0			Hail (1.75)
Amelia County									
Amelia	08	1220EST			0	0			Hail (0.75)
Southampton County									
Sedley	08	1320EST			0	0			Hail (2.00)
Isle Of Wight County									
3 SW Whitley	08	1330EST			0	0			Hail (1.00)
Franklin (C)									
Franklin	08	1335EST			0	0			Hail (1.00)
Suffolk (C)									
Suffolk	08	1410EST			0	0			Hail (1.00)
Chesapeake (C)									
Chesapeake	08	1430EST			0	0			Hail (0.75)
Norfolk (C)									
Norfolk	08	1445EST			0	0			Hail (0.88)
Virginia Beach (C)									
Virginia Beach	08	1445EST			0	0			Hail (0.88)
Virginia Beach (C)									
Cape Henry	21	2125EST			0	0			Thunderstorm Wind (G82)
					A wind gust of 82 knots (94 mph) was reported at Cape Henry Tower where the anemometer elevation is 90 feet above mean sea level.				

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, Extreme Southwest

Washington County
3 E Abingdon

20 1805EST
On Watauga Road off Route 58. 0 0 Hail (1.00)

Wise County
Exeter

20 1940EST
Trees and powerlines down in and around Exeter. 0 0 15K 5K Thunderstorm Wind

Wise County
Appalachia

20 1945EST
0 0 10K 5K Thunderstorm Wind

Washington County
Abingdon

20 1945EST
2000EST 0 0 Hail (0.75)

Washington County
5 NW Damascus to
Damascus

20 2035EST
2115EST 0 0 Urban/Sml Stream Fld

Much of Route 58 between Damascus and the community of Osceola covered by water. In many places the water is up to 2 feet deep. Most roads and highways in and around Damascus covered by water. Laurel Creek reported well out of its banks. Delmar Road in Damascus closed due to a mudslide. A couple of small mudslides along Route 91 near Damascus. One lane of county road 722 off state route 58 near Osceola closed due to a mudslide.

Lee County
Pennington Gap

25 2130EST 0 0 Hail (0.75)

VIRGINIA, North

VAZ030

Warren
06 1530EST
M53VE 1 0 6K River Flood

Madison County
Countywide

07 2230EST
08 0000EST Flood

Albemarle County
East Portion

07 2330EST 0 0 2K Lightning

Rappahannock County
West Portion

08 0200EST
0800EST 0 0 Flood

Albemarle County
5 N
(Cho)Charlottesville

08 1200EST
1700EST 0 0 Flood

Augusta County
East Portion

08 1200EST
1700EST 0 0 Flood

A prolonged period of light to occasionally moderate rain gradually saturated the ground during the first few days of May. Isolated heavier showers and thunderstorms developed across the central Shenandoah Valley, first during the overnight hours of the 7th and again during the early and mid afternoon of the 8th, causing several small streams and creeks to overspill their banks. The rainy period, which lasted the first 12 days of the month, dropped an estimated 3 to 5 inches across all of northern Virginia.

A 53 year-old Winchester man was swept to his death as he tried to navigate across a flooded low-water bridge along local route 624, six miles northeast of Front Royal in Warren Co. The bridge, which spans the main branch of the Shenandoah River below the convergence of the north and south forks, had been closed much of the spring. Rains of recent days had produced a flow of water 2 feet above the bridge surface; warning signs and cones had been deployed, blocking the entrance to the bridge.

Rain gage estimates of 2 to 3 inches produced scattered flooding of small streams and creeks in Madison and Rappahannock Cos. At least 12 secondary roads were closed in Madison Co by the high waters; at least 3 more were closed in western Rappahannock Co. The same area of showers and thunderstorms produced lightning, enough to strike a transformer near Charlottesville early on the 8th, causing an estimated 2500 customers to briefly lose power. Later that day, thunderstorms, dropping between 1 and 2 inches of rain, produced flooding along the Rivanna River, where a festival was being set up. Damage was minimal. Other flooding occurred in eastern Augusta Co near Brands Flats (between Staunton and Waynesboro) and motorists along interstate 64 reported water a foot in depth. Numerous roads were closed in each county.

Augusta County
Verona

16 1915EST 0 0 Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, North

An isolated but intense thunderstorm moved out of eastern West Virginia and into Highland and Augusta Cos during the evening of the 16th, producing a small area of large hail. Golf ball-sized hail was reported in Verona.

Rappahannock County Sperryville to Washington

24	2135EST				0	0			Hail (0.88)
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Nickel-sized hail was reported by a Skywarn spotter in Sperryville. The same cell dropped 3/4 inch diameter hail in nearby Amissville and Washington..

VIRGINIA, Northwest

Dickenson County Clintwood

07	1645EST				0	0			Hail (0.75)
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Buchanan County Grundy

20	2000EST				0	0	10K		Thunderstorm Wind
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The county sheriff reported several trees were blown down.

Buchanan County Whitewood

23	0445EST				0	0	5K		Thunderstorm Wind
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Buchanan County Harmon

23	0630EST				0	0	2K		Thunderstorm Wind
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Several large tree limbs were snapped off.

Buchanan County Big Rock

24	0500EST				0	0	8K		Thunderstorm Wind
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Trees were blown down. One mobile home was damaged.

VIRGINIA, Southwest

Montgomery County 2 SSW Blacksburg

01	1645EST				0	0			Hail (1.00)
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Montgomery County 1 S Blacksburg

01	1655EST				0	0			Hail (1.25)
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Salem County Salem

01	1740EST				0	0			Hail (0.75)
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Martinsville (C) Martinsville

01	1845EST				0	0	20K		Lightning
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Martinsville (C) Martinsville

01	1857EST				0	0	0		Thunderstorm Wind
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Thunderstorms during the late afternoon and early evening hours on the 1st produced hail up to half dollar size, damaging winds, and damaging lightning.

Thunderstorm winds knocked down numerous trees in and around Martinsville.

A lightning strike started a fire in the Martinsville Middle School.

Montgomery County Christiansburg

03	1222EST				0	0			Hail (0.75)
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An isolated severe thunderstorm produced hail up to dime size.

Smyth County Marion

03	1736EST				0	0			Hail (1.00)
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Wythe County Rural Retreat

03	1855EST				0	0			Hail (0.88)
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Wythe County Max Meadows

03	1915EST				0	0			Hail (1.00)
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Wythe County Max Meadows

03	1920EST				0	0			Hail (0.75)
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Thunderstorms during the evening hours on the 3rd produced hail up to quarter size.

Henry County 2.5 NE Collinsville

04	1300EST				0	0			Hail (0.88)
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Wythe County 5 ESE Rural Retreat

04	1300EST				0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Southwest</u>									
Charlotte County									
Red House	04	1340EST			0	0			Hail (0.75)
Pulaski County									
Pulaski	04	1410EST			0	0			Hail (0.75)
Buckingham County									
Sheppards	04	1435EST			0	0			Hail (0.75)
Radford (C)									
Radford	04	1446EST			0	0			Hail (0.75)
Montgomery County									
9.5 NE Blacksburg	04	1545EST			0	0			Hail (0.88)
Roanoke County									
Catawba	04	1615EST 1620EST			0	0			Hail (0.75)
Roanoke County									
1 E Catawba to 1 S Catawba	04	1625EST			0	0			Hail (0.75)
Roanoke County									
3 E Starkey	04	1712EST			0	0			Hail (0.75)
Roanoke County									
3.5 ENE Starkey	04	1715EST			0	0			Hail (0.88)
Roanoke (C)									
Roanoke	04	1725EST 1732EST			0	0			Hail (0.88)
Franklin County									
4 SE Rocky Mt	04	1741EST			0	0			Hail (0.88)
Bedford County									
1 ESE Montvale	04	1809EST			0	0			Hail (0.75)
Botetourt County									
2 S Buchanan	04	1830EST			0	0			Hail (0.75)
Thunderstorms during the afternoon and the early evening hours on the 4th produced hail up to nickel size.									
Nickel size hail covered the ground three and a half miles east northeast of Starkey and nine and a half miles northeast of Blacksburg. Dime size hail covered the ground five miles east southeast of Rural Retreat and in Catawba.									
Danville (C)									
2 N Danville	07	1840EST 2015EST			0	0			Flash Flood
Pittsylvania County									
2.5 W Blairs	07	1840EST	0.3	50	0	2	150K		Tornado (F1)
Pittsylvania County									
South Portion	07	1845EST 2130EST			0	0			Flash Flood
Henry County									
4 SW Axton	07	1920EST 2030EST			0	0			Flash Flood
Smyth County									
14 SSW Marion	07	1928EST			0	0			Hail (1.00)
Henry County									
Bassett	07	1930EST			0	0	2K		Lightning

Thunderstorms during the evening hours on the 7th produced a tornado, flash flooding, damaging lightning, and hail up to quarter size.

A tornado touched down two and a half miles west of Blairs. The tornado ripped the roof off a house, damaged 25 other homes and a garage, broke off tree limbs, and toppled trees. Two people were slightly injured by the tornado.

Flash flooding two miles north of Danville resulted in the closing of several roads and the evacuation of 50 people from a mobile home park. Falls Creek left its banks about four miles southwest of Axton.

In the southern portion of Pittsylvania County, flash flooding resulted in several roads being closed and a bridge being washed out.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VIRGINIA, Southwest									
			A few of the flooded roads were damaged.						
			A lightning strike slightly damaged a house in Bassett.						
Smyth County									
Marion	07	2247EST 2249EST			0	0			Hail (0.75)
			An isolated severe thunderstorm during the late evening hours on the 7th produced hail up to dime size.						
VAZ044			Pittsylvania						
	08	0030EST			0	0			Flood
	10	1900EST							
			Heavy rainfall on the 7th and 8th resulted in minor flooding on the Dan River.						
			The Dan River crested about three and a half feet above flood stage at 0800 EST on the 8th and then again almost four feet above flood stage at 1530 EST on the 8th at Danville, almost three feet above flood stage at 0700 EST on the 9th at Paces, and almost six feet above flood stage between 1630 EST and 1900 EST on the 9th at South Boston.						
Halifax County									
South Boston	08	0224EST			0	0			Hail (0.85)
			An isolated severe thunderstorm during the early morning hours on the 8th produced hail almost to the size of nickels.						
Danville (C)									
Danville	08	1010EST			0	0			Hail (1.75)
Danville (C)									
Danville	08	1010EST			0	0	0		Thunderstorm Wind
Pittsylvania County									
1 S Blairs	08	1020EST			0	0			Hail (1.75)
Pittsylvania County									
1 S Blairs	08	1020EST			0	0	0		Thunderstorm Wind
Charlotte County									
Saxe	08	1055EST			0	0			Hail (0.75)
Charlotte County									
Randolph	08	1100EST			0	0			Hail (0.75)
Campbell County									
8.5 WNW Brookneal	08	1130EST 1145EST			0	0			Hail (0.75)
Buckingham County									
3 WSW Buckingham	08	1322EST			0	0			Hail (0.75)
Pittsylvania County									
2 ESE Blairs	08	1350EST			0	0			Hail (0.75)
Halifax County									
10.5 W Turbeville	08	1415EST			0	0			Hail (0.75)
			Thunderstorms during the late morning and afternoon hours on the 7th produced hail up to golf ball size and damaging winds.						
			Thunderstorm winds knocked down trees which resulted in the closing of roads in Danville and knocked down trees one mile south of Blairs.						
Amherst County									
Countywide	15	0700EST 0730EST			0	0	0		Thunderstorm Wind
			Thunderstorm winds during the morning hours on the 15th knocked down trees in Amherst County. Some of the trees landed on power lines.						
Montgomery County									
1 N Christiansburg	16	1615EST 1620EST			0	0			Hail (1.75)
Montgomery County									
2 NW Christiansburg	16	1620EST			0	0	30K		Lightning
Salem County									
Salem	16	1701EST 1710EST			0	0	50K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Southwest</u>									
Montgomery County									
1 W Pilot	16	1705EST 1707EST			0	0			Hail (1.00)
Roanoke (C)									
Roanoke	16	1705EST			0	0			Hail (0.75)
Floyd County									
6 NW Floyd	16	1710EST			0	0			Hail (0.75)
Roanoke (C)									
5 SW Roanoke	16	1711EST			0	0	70K		Hail (1.00)
Roanoke County									
Hollins	16	1720EST			0	0			Hail (0.75)
Salem County									
Salem	16	1720EST			0	0			Hail (0.75)
Roanoke County									
Cave Spg	16	1726EST			0	0			Hail (1.00)
Bedford County									
Goodview	16	1730EST			0	0			Hail (0.75)
Franklin County									
Boones Mill	16	1745EST			0	0			Hail (0.75)
Patrick County									
Stuart	16	1750EST 1755EST			0	0			Hail (0.75)
Franklin County									
2 S Boones Mill	16	1827EST			0	0			Hail (0.75)
Roanoke (C)									
Roanoke	16	1828EST			0	0			Hail (0.75)
Patrick County									
1.5 SE Claudville	16	1840EST			0	0			Hail (0.75)
Roanoke County									
1 SSW Bonsack to Bonsack	16	1845EST			0	0			Hail (0.75)
Franklin County									
Ferrum	16	1900EST			0	0			Hail (0.75)
Henry County									
Sanville	16	1910EST			0	0			Hail (0.75)
Buena Vista (C)									
Buena Vista	16	1930EST			0	0			Hail (0.75)
Rockbridge County									
Fairfield	16	1930EST			0	0			Hail (0.75)
Patrick County									
3.5 SE Dodson	16	1940EST			0	0			Hail (1.75)
Pittsylvania County									
8 W Chatham	16	1945EST			0	0			Hail (0.75)
Bedford County									
4 W Big Is	16	2000EST 2010EST			0	0			Hail (2.75)
Patrick County									
Critz	16	2000EST			0	0			Hail (0.88)
Franklin County									
Penhook	16	2015EST			0	0			Hail (0.75)
Henry County									
4 N Sanville	16	2040EST			0	0			Hail (0.75)
Pittsylvania County									
Gretna	16	2100EST			0	0			Hail (0.75)
Amherst County									
Monroe	16	2105EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VIRGINIA, Southwest									
Amherst County 1 E Amherst	16	2115EST			0	0	0		Thunderstorm Wind
Campbell County Evington	16	2125EST			0	0			Hail (0.75)
									Severe thunderstorms during the evening hours on the 16th produced hail up to baseball size, damaging winds, and damaging lightning.
									Thunderstorm winds knocked trees down on route 60 about 1 miles east of Amherst.
									Hail up to baseball size stripped leaves off of trees four miles west of Big Island.
									A light strike started a fire which damaged a home two miles northwest of Christiansburg.
Smyth County 6 SSE Thomas Bridge	20	1945EST			0	0			Hail (0.88)
									An isolated severe thunderstorm produced nickel size hail which covered the ground about 6 miles south southeast of Thomas Bridge.
Wythe County Rural Retreat	24	0415EST			0	0			Hail (0.88)
Carroll County Cana	24	0500EST			0	0			Hail (0.75)
									Thunderstorms during the early morning hours produced hail up to nickel size.
Alleghany County 3.5 NW Callaghan	24	1850EST			0	0			Hail (0.88)
Alleghany County 3 SW Lowmoor	24	1925EST			0	0			Hail (1.00)
Tazewell County Richlands	24	2035EST			0	0			Hail (0.75)
Tazewell County 1 S Richlands	24	2035EST			0	0			Hail (0.75)
Giles County Mountain Lake	24	2110EST			0	0			Hail (0.75)
Giles County Newport	24	2120EST			0	0			Hail (1.00)
Montgomery County Blacksburg	24	2140EST			0	0			Hail (0.75)
Roanoke (C) 2 SW Roanoke	24	2230EST			0	0	0		Thunderstorm Wind
									Severe thunderstorms during the evening hours on the 24th produced hail up to quarter size and damaging winds.
									Thunderstorm winds broke off a large tree limb two miles southwest of Roanoke.
Halifax County Virgilina	25	1540EST			0	0			Hail (0.75)
Halifax County Virgilina	25	1540EST			0	0	0		Thunderstorm Wind
									Thunderstorms during the late afternoon hours on the 25th produced hail up to dime size and damaging winds.
									Thunderstorm winds knocked down trees in Virgilina.
Charlotte County 4 WSW Wyliesburg to Wyliesburg	25	2220EST 2228EST			0	0			Hail (0.75)
									An isolated severe thunderstorm during the late evening hours on the 25th produced hail up to dime size.
Henry County 4.5 W Bassett	30	1752EST			0	0			Hail (1.50)
Danville (C) 1 NE Danville	30	1815EST 1940EST			0	0			Flash Flood
									Thunderstorm during the evening hours on the 30th produced hail up to ping pong size and flash flooding.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, Southwest

Heavy rainfall flooded the eastbound lane of route 58 about one mile northeast of Danville. A van was stranded in the water for a period of time.

WASHINGTON, Northeast

Ferry County

Republic	26	1800PST			0	0	3.5M	0	Flood
	27	0700PST							

5-6 inches of rain overnight. Highways washed out in and around Republic

Okanogan County

Conconully	26	1800PST			0	0	100K	0	Flood
	27	0700PST							

2.25" of rain overnight. Salmon Creek being sandbagged. Some evacuations in Conconully.

Okanogan County

Loomis	26	1800PST			0	0	50K	0	Flood
	27	0700PST							

Toats Creek out of its banks.

Pend Oreille County

Cusick	26	1800PST			0	0	250K	0	Flood
	27	0700PST							

Roads flooded in and around Cusick

Stevens County

Chewelah	26	1800PST			0	0	50K	0	Flood
	27	0700PST							

Roads flooded in and around Chewelah

WASHINGTON, Northwest

NONE REPORTED.

WASHINGTON, Southeast

NONE REPORTED.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

Mineral County

Northwest Portion	04	2100EST			0	0			Flood
		2300EST							

Slow-moving thunderstorms with very heavy rain aligned across the northwestern portion of Mineral Co, dumping between 1 1/2 and 2 inches of rain in less than 3 hours onto saturated ground. Several streams and creeks overflowed their banks, and some basements likely flooded in and around Keyser.

WEST VIRGINIA, North

Wetzel County

Reader to Pine Grove	02	0510EST			0	0			Flood
		0800EST							

Fishing Creek flooded onto Route 20 near Reader and the Pine Grove area.

Marion County

Rymer	04	1830EST			0	0			Flood
		2000EST							

Warriors Fork Creek was flooded near Rymer.

Preston County

Kingwood	16	1650EST			0	0	12K		Lightning
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Two houses were hit with lightning in Kingwood, busting out windows and water lines.

Marshall County

Moundsville	24	1715EST			0	0	12K		Hail (1.50)
		1725EST							

Hail, between 0.88 and 1.50 inches in diameter fell in Moundsville. Some damage to cars was reported.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, North									
Marshall County 1 E Moundsville	24	1715EST			0	0			Hail (0.75)
Marshall County Moundsville	24	1718EST			0	0	8K		Thunderstorm Wind
Numerous trees and large limbs were downed by thunderstorm winds.									
Marshall County 4 E Moundsville	24	1718EST			0	0			Hail (1.75)
Marshall County 4 E Moundsville	24	1718EST			0	0	20K		Thunderstorm Wind
A severe thunderstorm dropped golfball size hail that accumulated to a depth of 4 inches. Thunderstorm winds also ripped a roof off of a house.									
Marshall County 4 SW Moundsville	24	1725EST			0	0	20K		Hail (2.50)
Hail, up to baseball size, damaged farm machinery.									
Marshall County Glendale	24	1726EST			0	0	3K		Thunderstorm Wind
Trees were downed by thunderstorm winds.									
Marshall County Cameron	24	1730EST 1740EST			0	0			Hail (1.50)
Marshall County Cameron	24	1730EST 1740EST			0	0	5K		Thunderstorm Wind
Thunderstorm winds downed numerous trees in Cameron and hail, to 1.50 inches in diameter, covered the ground.									
Monongalia County Core	24	1816EST			0	0			Hail (0.75)
Monongalia County Daybrook	24	1830EST			0	0	3K		Thunderstorm Wind
Monongalia County Brookhaven	24	1840EST			0	0	3K		Thunderstorm Wind
Monongalia County Cassville	24	1840EST			0	0	3K		Thunderstorm Wind
Thunderstorm winds downed numerous trees in Daybrook, Cassville and Brookhaven.									
Preston County Kingwood	24	1855EST 1905EST			0	0			Hail (1.00)
Hail, 0.75 to 1.00 inches in diameter, was reported in Kingwood.									
Preston County Kingwood	24	1905EST			0	0			Funnel Cloud
A spotter reported a funnel cloud near Kingwood.									
Monongalia County 7 WSW Westover	24	1910EST			0	0	50K		Thunderstorm Wind
Thunderstorm winds flipped a mobile home and destroyed a garage. Several trees were also uprooted.									
Monongalia County Westover	24	1915EST			0	0	3K		Thunderstorm Wind
Thunderstorm winds downed trees in Westover.									
Tucker County Davis	24	1955EST			0	0			Hail (0.75)
Monongalia County Brookhaven	24 25	2130EST 0030EST			0	0	5K		Flash Flood
Monongalia County Westover	24 25	2130EST 0030EST			0	0	50K		Flash Flood

Runoff from heavy thunderstorm rains, dumping between 3 and 4 inches, caused rapid rises along Dent's Run. Evacuations were ordered along part of Dent's Run in Westover and some basement flooding was reported. Roads and some basements were also flooded in Brookhaven. A few roads were partially washed away in Westover. Flooding was reported in the gymnasium and cafeteria of the Morgantown High School. A house, four apartments and a restaurant was also flooded. Roads were also flooded

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, North									
along Deckers Creek in Sabraton.									
Hancock County New Cumberland	29	1645EST			0	0	2K		Thunderstorm Wind
Power lines were downed by thunderstorm winds.									
Hancock County Countywide	31	1715EST 1730EST			0	0	5K		Thunderstorm Wind
Trees and power lines were downed throughout the county.									
Ohio County Warwood	31	1800EST			0	0			Hail (2.00)
Brooke County Wellsburg	31	1805EST			0	0	1K		Thunderstorm Wind
Thunderstorm winds downed a tree.									
Hancock County Chester	31	2005EST			0	0	3K		Thunderstorm Wind
Trees and power lines were downed by thunderstorm winds.									
Marshall County 4 S Moundsville	31	2035EST			0	0	2K		Thunderstorm Wind
Power lines were downed by thunderstorm winds.									
WEST VIRGINIA, Southeast									
Monroe County Pickaway	03	1255EST			0	0			Hail (0.75)
An isolated severe thunderstorm on the 3rd produced dime size hail which covered the ground in Pickaway.									
Mercer County Montcalm	24	0300EST			0	0	500K		Lightning
A lightning strike during the early morning hours on the 24th started a fire which severely damaged a church in Montcalm.									
Mercer County Flat Top	24	2000EST			0	0			Hail (0.75)
Summers County 7 S Hinton	24	2020EST			0	0			Hail (0.88)
An isolated severe thunderstorm produced hail up to nickel size.									
WEST VIRGINIA, West									
Tyler County Countywide	02	0600EST 1000EST			0	0	5K		Flash Flood
Streams overflowed and blocked roads after 1.5 to 2.25 inches of rain fell in 12 hours. Some flooded roads included Route 11 by the Elk Fork and Route 24 by Middle Island Creek. No dwellings were affected.									
Mingo County Kermit	03	1549EST			0	0			Hail (0.75)
Logan County Sharples	03	1620EST			0	0			Hail (0.75)
Wood County Mineral Wells	03	1820EST			0	0			Hail (0.75)
Wyoming County Baileysville to Brenton	07	1710EST			0	0	10K		Thunderstorm Wind
Numerous trees were knocked down along Route 97.									
Mcdowell County 6 SW Welch	07	2230EST			0	0			Hail (0.75)
Upshur County Adrian	16	1700EST			0	0			Hail (0.75)
Upshur County Alton	16	1725EST			0	0			Hail (0.75)
Randolph County Blue Rock	16	1746EST			0	0			Hail (0.75)
Nicholas County Craigsville	20	0137EST			0	0	50K		Lightning

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
WEST VIRGINIA, West									
An antenna at a truck garage was hit, which in return ignited a fire. A truck and tools were damaged.									
Mingo County									
Varney	20	2005EST			0	0	2K		Thunderstorm Wind
Trees fell across Route 52.									
Mcdowell County									
Raysal to Bartley	20	2035EST			0	0	3K		Thunderstorm Wind
Several trees were blown down.									
Mcdowell County									
Bradshaw	23	0633EST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Mcdowell County									
Paynesville	24	0700EST			0	0			Hail (0.75)
Cabell County									
Barboursville	24	1549EST			0	0			Hail (0.75)
Putnam County									
Hurricane	24	1620EST			0	0			Hail (0.75)
Cabell County									
Huntington	24	1720EST			0	0	250K		Hail (1.25)
Cabell County									
Huntington	24	1730EST			0	0	50K		Thunderstorm Wind
Several trees fell down within the city. One large tree crushed a small unoccupied car.									
Cabell County									
Huntington	24	1806EST			0	0	250K		Hail (1.25)
Lincoln County									
2 W Hamlin	24	1825EST			0	0			Hail (0.75)
Wayne County									
2 E Winslow	24	1825EST			0	0	10K		Hail (0.88)
Nickel size hail fell around the Beech Fork Lake region.									
Harrison County									
Sardis to Hepzibah	24	1830EST 1835EST	4	150	0	1	600K		Tornado (F1)
The path was through rural countryside, including Lamberts Run. The path missed Clarksburg by just 2 miles. One house was destroyed, 2 homes and 1 mobile home had major damage. Two garages were destroyed. Other damage was to vehicles and campers. Numerous trees were blown over or snapped. Peak wind gusts were estimated at 100 to 110 mph by a National Weather Service survey team. One person was injured by flying glass.									
Boone County									
Madison	24	1900EST			0	0			Hail (0.75)
Cabell County									
Blue Sulphur to Ona	24	1900EST 2100EST			0	0	275K		Flash Flood
Cyrus and Fudges Creeks flooded roads and caused a few residents to evacuate. The American Red Cross reported major damage to 2 homes and 2 mobile homes.									
Lincoln County									
Portersville	24	1900EST 2100EST			0	0	10K		Flash Flood
Wood County									
Williamstown	24	1903EST			0	0			Hail (0.75)
Randolph County									
Elkins	24	1910EST			0	0			Hail (0.75)
Boone County									
Prenter	24	1915EST			0	0			Hail (1.25)
Raleigh County									
Grandview	24	1930EST			0	0			Hail (0.88)
Raleigh County									
Beckley	24	2020EST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WEST VIRGINIA, West

Raleigh County Beckley

24	2030EST								
				0	0	75K			Hail (1.00)

A few vehicles were damaged.

Boone County Countywide

24	2115EST								
				0	0	50K			Flash Flood

2300EST

Two mobile homes were damaged.

Mingo County Williamson Arpt

24	2335EST								
				0	0				Hail (1.00)

Widespread thunderstorms contained hail and some strong wind gusts. Cabell County residents were hit by 2 or 3 separate thunderstorms. An estimated 400 insurance claims were filed from the Huntington vicinity from these storms. The damage was mostly dented vehicles from the large hail. A few homes had minor damage.

Raleigh County Lester

25	2115EST								
				0	0				Hail (0.75)

Randolph County 4 S Huttonsville

30	1615EST								
				0	0	2K			Flash Flood

1715EST

An estimated 3 inches of rain fell along Becky Creek in 2 hours from a stationary thunderstorm. County Route 43 was impassible and damaged.

WISCONSIN, Extreme Southwest

NONE REPORTED.

WISCONSIN, Northeast

Brown County Green Bay

06	1340CST								
				0	0	2.3K			Dust Devil

07 1340CST

A strong dust devil hit a garden center in Green Bay, damaging two greenhouses. The dust devil also threw plant pots and flowers around as it moved across the garden center. When the whirlwind moved over the employee's lunch room, it sucked the time cards out of the card holder.

Marathon County 2 N Stratford

12	1740CST								
				0	0				Hail (0.75)

Marathon County Stratford

12	1745CST								
				0	0				Hail (1.00)

Marathon County Wausau

12	1840CST								
				0	0				Hail (0.75)

Marathon County Wausau

12	1850CST								
				0	0				Hail (1.00)

1855CST

Oneida County 8 SW Hazelhurst

12	1854CST								
				0	0				Hail (0.75)

Marathon County 11 ENE Wausau

12	1913CST								
				0	0				Hail (1.00)

Oneida County Minocqua

12	1916CST								
				0	0				Hail (1.50)

Marathon County 6 W Hogarty

12	1919CST								
				0	0				Hail (1.75)

Oneida County Minocqua

12	1950CST								
				0	0				Hail (1.25)

Lincoln County Tomahawk

12	1959CST								
				0	0				Hail (0.75)

Oneida County Lake Tomahawk

12	2000CST								
				0	0	1K			Thunderstorm Wind (G50)

Winnebago County 2 N Oshkosh

12	2025CST								
				0	0				Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Lincoln County									
Merrill	12	2027CST			0	0			Hail (0.75)
Marathon County									
Mosinee	12	2031CST			0	0			Hail (1.75)
Winnebago County									
Menasha	12	2031CST			0	0			Hail (1.00)
Shawano County									
Pella	12	2050CST			0	0			Hail (1.75)
Menominee (C)									
15 NNE Keshena	12	2105CST			0	0			Hail (1.75)
Forest County									
Laona	12	2119CST			0	0			Hail (1.75)
Oconto County									
Lakewood	12	2130CST			0	0			Hail (1.75)
Scattered thunderstorms developed during the evening of May 12, dropping hail up to the size of golf balls across parts of central and northern Wisconsin. Thunderstorm winds downed trees in Lake Tomahawk (Oneida co.).									
Wood County									
Marshfield	15	1854CST			0	0			Thunderstorm Wind (G52)
Marathon County									
Marathon	15	1927CST			0	0	2K		Thunderstorm Wind
Marathon County									
Stratford	15	1927CST			0	0	2K		Thunderstorm Wind
Marathon County									
Mosinee	15	1955CST			0	0			Hail (1.75)
Portage County									
Stevens Pt	15	2024CST			0	0	1K		Thunderstorm Wind
Marathon County									
Ringle	15	2041CST			0	0	1K		Thunderstorm Wind
Winnebago County									
Omro	15	2107CST			0	0			Thunderstorm Wind (G52)
Winnebago County									
10 N Oshkosh	15	2145CST			0	0	1K		Thunderstorm Wind
Calumet County									
2 N Stockbridge	15	2150CST			0	0	1K		Thunderstorm Wind
Outagamie County									
Appleton	15	2153CST			0	0	3K		Thunderstorm Wind
Outagamie County									
Kaukauna	15	2200CST			0	0	2K		Thunderstorm Wind
Calumet County									
New Holstein	15	2215CST			0	0	1K		Thunderstorm Wind
Calumet County									
3 NE New Holstein	15	2220CST			0	0	1K		Thunderstorm Wind
Forest County									
Crandon	15	2222CST			0	0			Thunderstorm Wind (G52)
Marinette County									
Goodman	15	2235CST			0	0			Hail (0.75)
Late evening thunderstorms produced scattered wind damage across part of northern and central Wisconsin on May 15. The high winds caused a partially build storage shed in Kaukauna (Outagamie co.) to collapse. Trees were blown over or snapped in many other locations that were affected by the storms.									
WIZ030-039									
Marathon - Brown									
18		1500CST			0	0			Record Warmth
19		1500CST							
Temperatures typical of mid-summer affected much of central and northeast Wisconsin in mid-May. A record high of 89 degrees was set in Wausau (Marathon co.) on the 18th. Green Bay (Brown co.) recorded a record-tying 88 degree maximum on the 19th. The balmy weather caused pavement to pop on freeways around Green Bay.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Northeast

WIZ010-018-030-035>036-045 Oneida - Lincoln - Marathon - Wood - Portage - Waushara

18	2305CST								
19	0015CST				0	0			Strong Wind

A gust front ahead of a weakening area of thunderstorms pushed through central Wisconsin late May 18 and early on the 19th. Wind gusts reached 47 mph in Marshfield (Wood co.), 45 mph in Mosinee (Marathon co.) and Stevens Point (Portage co.) and 43 mph in Rhinelander (Oneida co.). Trees were knocked down by the winds in many of the affected counties.

Waushara County

2 SE Wautoma	28	2040CST			0	0			Hail (0.75)
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Wood County

Nekoosa	28	2045CST			0	0			Hail (1.75)
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Waushara County

Redgranite	28	2048CST			0	0			Hail (1.00)
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Winnebago County

Omro	28	2105CST			0	0			Thunderstorm Wind (G52)
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Calumet County

New Holstein	28	2109CST			0	0			Hail (0.75)
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Calumet County

Brillion	28	2135CST			0	0			Hail (0.75)
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Manitowoc County

8 SW Manitowoc	28	2137CST			0	0			Thunderstorm Wind (G52)
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Manitowoc County

Manitowoc	28	2145CST			0	0			Thunderstorm Wind (G56)
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Manitowoc County

Cleveland	28	2155CST			0	0			Thunderstorm Wind (G50)
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Several severe thunderstorms produced wind damage and hail across central and east-central Wisconsin during the late evening of May 28. The strong thunderstorm winds knocked down trees and power lines in Manitowoc county around Manitowoc and Cleveland.

Lincoln County

13 WNW Tomahawk	30	1544CST			0	0			Hail (0.75)
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A thunderstorm during the afternoon produced 3/4 inch hail in northwest Lincoln county.

Wood County

Marshfield	30	2128CST			0	0			Hail (1.00)
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Marathon County

1 S Spencer	30	2130CST			0	0			Hail (1.75)
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Marathon County

Rozellville	30	2142CST			0	0			Hail (0.75)
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Portage County

2 E Rosholt	30	2230CST			0	0			Hail (1.75)
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Shawano County

Split Rock	30	2250CST			0	0			Hail (1.00)
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Waupaca County

Marion	30	2300CST			0	0			Hail (0.75)
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Shawano County

5 W Shawano	30	2317CST			0	0			Hail (1.75)
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Marathon County

Athens	30	2325CST			0	0			Hail (1.00)
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Shawano County

Advance	30	2343CST			0	0			Hail (1.00)
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Marathon County

Spencer	30	2348CST			0	0			Hail (1.00)
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Wood County

Marshfield Muni Arpt	30	2359CST			0	0			Thunderstorm Wind (G56)
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Oconto County

Oconto Falls	31	0000CST			0	0			Thunderstorm Wind (G50)
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Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Marathon County Wausau	31	0002CST			0	0			Hail (0.88)
Marathon County Stratford	31	0005CST			0	0			Hail (1.00)
Oconto County Oconto	31	0007CST			0	0			Hail (0.88)
Marinette County 1 E Marinette	31	0010CST			0	0			Thunderstorm Wind (G52)
Menominee (C) 5 NW Keshena	31	0013CST			0	0			Hail (0.75)
Marathon County 8 WSW Mosinee	31	0015CST			0	1	350K		Thunderstorm Wind (G74)
Marathon County 4 WSW Mosinee to 3.8 WSW Mosinee	31	0020CST 0021CST	0.2	50	0	0	15K		Tornado (F0)
Wood County Nekoosa	31	0020CST			0	0	5K		Thunderstorm Wind
Oconto County 3 N Oconto	31	0023CST			0	0	1K		Lightning
Wood County Blenker	31	0025CST			0	0	5K		Thunderstorm Wind
Wood County Milladore	31	0025CST			0	0	5K		Thunderstorm Wind
Portage County Bancroft	31	0030CST			0	0			Thunderstorm Wind (G50)
Waushara County 1 NW Coloma	31	0035CST			0	0			Thunderstorm Wind (G55)
Waushara County Hancock	31	0040CST			0	0			Thunderstorm Wind (G50)
Brown County 1 SW Wrightstown	31	0052CST			0	0			Hail (0.88)
Waushara County Mt Morris	31	0055CST			0	0			Thunderstorm Wind (G55)
Winnebago County 2 W Menasha	31	0108CST			0	1	300K		Thunderstorm Wind (G75)
Oconto County Abrams	31	0111CST			0	0			Thunderstorm Wind (G52)
Winnebago County Pickett	31	0111CST			0	0			Thunderstorm Wind (G61)
Outagamie County 4 W Appleton	31	0113CST			0	0	4K		Thunderstorm Wind (G55)
Outagamie County Kaukauna	31	0118CST			0	0			Thunderstorm Wind (G50)
Calumet County .5 N Stockbridge to 2 NE Stockbridge	31	0120CST 0124CST	1.4	75	0	0	300K		Tornado (F1)
Outagamie County Darboy	31	0120CST			0	0			Thunderstorm Wind (G50)
Calumet County 1 NE Sherwood	31	0125CST			0	0	500K	20K	Thunderstorm Wind (G75)
Calumet County 2 N Chilton	31	0130CST			0	0	5K		Thunderstorm Wind (G60)
Kewaunee County Stangelville	31	0130CST			0	0			Thunderstorm Wind (G50)
Manitowoc County Rockville	31	0135CST			0	0	10K		Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Northeast

Calumet County 3 SE New Holstein	31	0140CST			0	0	10K		Thunderstorm Wind (G55)
Manitowoc County 1 NE Whitelaw	31	0143CST			0	0	150K		Thunderstorm Wind (G60)
Manitowoc County 3 NW Manitowoc to 8 NW Manitowoc	31	0155CST 0200CST			0	0	150K		Thunderstorm Wind (G60)

A series of thunderstorms roared across the area late on May 30 and early on the 31st, causing about \$1.8 million dollars in damage and injuring two people. Two tornadoes were also reported.

One of the hardest hit areas was in Big Eau Pleine Park, about 8 miles west-southwest of Mosinee (Marathon co.). Thunderstorm winds from a downburst gusted to as high as 85 mph, flattening or damaging trees in a 200 yard wide and 1/2 mile long swath. One person was injured, suffering a broken leg. Several campers and vehicles were also damaged or destroyed. The same thunderstorm produced a brief tornado 4 miles west of Mosinee.

In Winnebago county, high winds over 80 mph damaged 25 mobile homes around Menasha, overturning one of them. One of the occupants was slightly injured. Trees fell on several homes as well. In Pickett, winds of 70 mph were accompanied by 1 inch diameter hail.

Calumet county was particularly hard hit, as well. Winds over 85 mph hit near Sherwood, where two barns were destroyed and two houses sustained damage. A garage at one of the residences was completely removed from its foundation and tipped on its side. A few minutes earlier from a different thunderstorm, a tornado touched down near Stockbridge, destroying a garage and silo, damaging two barns and overturning farm vehicles. A 2-by-4 was driven through the exterior wall of a house, narrowly missing one of the sleeping children. Damage in Calumet county alone topped \$800,000.

WISCONSIN, Northwest

Washburn County Sarona	12	1555CST			0	0			Hail (0.75)
Price County 6 E Prentice	12	1830CST			0	0			Hail (0.75)
Sawyer County Moose Lake	12	1730CST 1740CST	3	300	0	0			Tornado (F0)

A weak tornado touched down briefly on the west side of Moose Lake. Many trees were blown down, including one that was 80 feet high. The path length and width are estimated, based on a damage survey conducted by National Weather Service personnel from Duluth, MN.

Sawyer County 4.5 NW Moose Lake	12	1800CST 1810CST	3	50	0	0			Tornado (F0)
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Many trees were blown down in a mostly rural and forested area southeast of Teal Lake.

Price County Prentice	12	1816CST			0	0			Hail (0.75)
Price County Brantwood	12	1837CST			0	0			Hail (0.75)
Ashland County Clam Lake	12	1830CST	2	100	0	0			Tornado (F0)

A weak tornado touched down briefly in a forested area on the the southeast side of Clam Lake. Many trees were blown down. The path length and width are estimated, based on a damage survey conducted by personnel from the National Weather Service office in Duluth, MN.

Washburn County Shell Lake	15	1745CST			0	0			Thunderstorm Wind (G50)
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Power lines were blown down in Shell Lake and nearby Spooner. The Wind speed is estimated.

Douglas County Solon Spgs	15	1810CST			0	0			Thunderstorm Wind (G55)
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Strong thunderstorm winds knocked down hundreds of large trees. Falling trees damaged many homes and other structures. Wind speed is estimated.

Douglas County Hawthorne	15	1815CST			0	0			Thunderstorm Wind (G55)
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Strong thunderstorm winds tore the roof off the county garage. Wind speed is estimated.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Northwest</u>									
Douglas County Bennett	15	1815CST			0	0			Thunderstorm Wind (G65) The roof was torn off the fire hall, and the adjoining town garage was severely damaged. The wind speed is estimated.
Washburn County Trego	15	1815CST			0	0			Thunderstorm Wind (G50) Power lines were blown down. The wind speed is estimated.
Douglas County Maple	15	1825CST 1839CST			0	0			Thunderstorm Wind (G65) Strong thunderstorm winds caused much property damage in Maple and brought down many 4-6 inch diameter trees in both Maple and Lake Nebagamon, 6 miles to the south. The wind speed is estimated.
Bayfield County 3 W Iron River	15	1835CST			0	0			Thunderstorm Wind (G50) Large trees were blown down. The wind speed is estimated.
Bayfield County Bayfield	15	1900CST			0	0			Thunderstorm Wind (G60) Many large trees were blown down, some damaging houses and taking down power lines. Four sailboats were tipped over in their cradles and damaged. The wind speed is estimated.
Ashland County Butternut	15	1910CST			0	0			Thunderstorm Wind (G52) Winds to 60 mph blew down many large trees.
Price County Prentice	15	1922CST			0	0			Hail (0.75)
Iron County Hurley	15	1945CST			0	0			Thunderstorm Wind (G50) Many trees were blown down. The wind speed is estimated.
Price County 3 SE Kennan	30	1450CST	3	30	0	0			Tornado (F0) A weak tornado touched down briefly in a rural area causing some minor tree and structural damage. The path length and width are estimated from descriptions of the damage.
Price County 1 S Catawba	30	1453CST 1500CST	2	30	0	0			Tornado (F0) A weak tornado briefly touched down in a rural area, taking the roofs off several buildings and blowing down a chicken coop and many trees.
Price County Catawba	30	1500CST			0	0			Hail (0.75)
Price County Ogema	30	1505CST			0	0			Thunderstorm Wind (G50) Trees were blown down. The wind speed is estimated.
Price County 6 NW Prentice	30	1515CST			0	0			Hail (0.75) Widespread hail to 3/4 inch in diameter and accumulating to 4 inches deep on the ground was reported between Prentice and Phillips.
Price County 7 E Prentice	30	1523CST			0	0			Hail (0.75) This storm also produced winds that blew down some trees and overturned a hay wagon.
<u>WISCONSIN, Southeast</u>									
Rock County Newark	12	1740CST			0	0	2K		Thunderstorm Wind
Rock County Footville	12	1755CST			0	0	2K		Thunderstorm Wind
Sauk County 2 S Hillpt to 3 NE Loganville	12	1930CST			0	0	17K	30K	Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Green Lake County 1 S Manchester	12	1950CST 1951CST			0	0			Hail (0.88)
Rock County Beloit	12	2010CST			0	0	10K		Lightning
Kenosha County Kenosha	12	2130CST 2259CST			0	0			Urban/Sml Stream Fld
Waukesha County Sussex	12	2330CST			0	0	2K		Lightning
Ozaukee County Port Washington	13	0005CST			0	0	15K		Lightning
<p>Classic summer thunderstorms became severe as they rumbled across southern Wisconsin during the evening hours to just past midnight. Thunderstorm winds downed trees in Rock county near Newark and Footville with lightning igniting a home fire in Beloit. In Sauk county severe hail mulched hay fields and damaged a home near Loganville. Large hail was also reported near Manchester in Green Lake county. Lightning struck an apartment building in Sussex (Washington Co.) and started a damaging fire. Lightning hit a steeple in Port Washington (Ozaukee Co.) and caused damage to the roof and electrical hardware inside the building. Heavy rain produced urban flooding in Kenosha (Kenosha Co.) where 1.5 inches of rainfall resulted in 1 foot standing water. Also, 1.19 inches of rain was measured in Janesville (Rock Co.). Finally, electrical services were disrupted to 16,000 customers in Rock, Kenosha, Jefferson and Racine counties due to downed power lines and lightning damage.</p>									
Lafayette County 1 SW Benton to 5 NNW Calamine	15	1845CST 1915CST	20	150	0	11	1.7M	140K	Tornado (F2)
<p>A supercell thunderstorm, after dropping a couple tornadoes in northeast Iowa, eventually moved northeast into Lafayette county , creating another tornado. This tornado touched down just southwest of Benton and hopped/skipped northeast for 20 miles. It caused moderate to severe damage to 40 different farms and their outbuildings, and homes. Numerous power lines were downed. Eleven people were injured: 2 children near Cuba city, 3 children southwest of Truman, and 6 adults in a vehicle on Highway 81 south of Benton. Several farm fields sustained damage.</p>									
Iowa County Mineral Pt to 3.5 ENE Mineral Pt	15	1915CST			0	0	6K		Thunderstorm Wind
Sauk County 3 SW Reedsburg	15	1927CST			0	0	0.50K		Thunderstorm Wind (G56)
Lafayette County 2 E Darlington	15	2005CST			0	0			Hail (0.75)
Rock County 1 N Janesville	15	2005CST			0	0	0.50K		Thunderstorm Wind
Columbia County 2 W Portage to 5 SE Wisconsin Dells	15	2009CST			0	0	7K		Thunderstorm Wind
Columbia County 3 W Columbus	15	2025CST			0	0	3K		Thunderstorm Wind
Dane County Mt Horeb	15	2030CST			0	0			Hail (0.75)
Green County New Glarus	15	2030CST			0	0	3K		Thunderstorm Wind
Rock County Beloit	15	2030CST			0	0	5K		Thunderstorm Wind
Green County Brodhead	15	2045CST			0	0	1K		Thunderstorm Wind
Green Lake County Green Lake	15	2058CST			0	0	2K		Thunderstorm Wind
Jefferson County Lake Mills	15	2100CST			0	0	0.50K		Thunderstorm Wind (G52)
Fond Du Lac County Ripon	15	2106CST			0	0	20K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Dodge County									
Mayville	15	2115CST			0	0	30K		Thunderstorm Wind
Walworth County									
Walworth to Williams Bay	15	2117CST 2127CST			0	0	12K		Thunderstorm Wind
Waukesha County									
1 W Eagle	15	2130CST			0	0	1K		Thunderstorm Wind
Dodge County									
Juneau	15	2133CST			0	0	1K		Thunderstorm Wind
Walworth County									
Elkhorn	15	2140CST			0	0	4K		Thunderstorm Wind
Walworth County									
1.5 W Sharon	15	2140CST			0	0	1K		Thunderstorm Wind
Walworth County									
La Grange	15	2145CST			0	0	1K		Thunderstorm Wind
Walworth County									
4 SE Lake Geneva	15	2145CST			0	0	1K		Thunderstorm Wind
Waukesha County									
Muskego	15	2145CST			0	0	1K		Thunderstorm Wind
<p>After the F2 tornado tore through Lafayette county a series of severe thunderstorms pummeled southcentral and southeast Wisconsin with numerous reports of tree limb damage and trees downed, which in turn downed a few power lines. The highest reported wind gust was 65 mph near Reedsburg (Sauk Co.). Other notable damage included roofs and doors ripped off of buildings in Mayville (Dodge Co.) and a deck ripped off a house in Ripon (Fond du Lac Co.) where several cars were also damaged by felled trees.</p>									
Dane County									
4 NE Sun Prairie	19	0200CST			0	0			Hail (0.88)
Lafayette County									
Woodford	19	0230CST			0	0			Hail (1.75)
Jefferson County									
Watertown Arpt	28	0630CST 0730CST			0	0			Urban/Sml Stream Fld
Lafayette County									
Benton to Leadmine	28	1754CST 1800CST			0	0	12K		Hail (0.75)
Sauk County									
3 S Reedsburg	28	1855CST			0	0			Thunderstorm Wind (G52)
Sauk County									
La Valle	28	1859CST			0	0			Thunderstorm Wind (G60)
Lafayette County									
2 S Seymour Corners to 2 N Darlington	28	1900CST 1915CST			0	0	3K		Thunderstorm Wind
Lafayette County									
4 SW Benton	28	1901CST			0	0			Funnel Cloud
Marquette County									
Briggsville	28	1930CST			0	0	1K		Thunderstorm Wind
Columbia County									
Portage	28	1940CST			0	0	2K		Thunderstorm Wind
Lafayette County									
South Wayne	28	1942CST			0	0	8K		Thunderstorm Wind
Dane County									
Madison	28	2000CST			0	0	1.5K		Thunderstorm Wind
Green County									
2 S Monroe	28	2000CST			0	0	1.6K		Thunderstorm Wind
Green County									
2 NW New Glarus	28	2000CST			0	0	1K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Columbia County Cambria	28	2005CST			0	0			Hail (1.75)
Marquette County Westfield	28	2005CST			0	0	1K		Thunderstorm Wind
Dodge County Randolph	28	2012CST			0	0	2K		Thunderstorm Wind (G52)
Rock County Janesville	28	2030CST			0	0	7K		Thunderstorm Wind
Rock County 3 SW Orfordville	28	2030CST			0	0	40K		Lightning
Dodge County Waupun	28	2032CST			0	0			Thunderstorm Wind (G56)
Jefferson County Jefferson to 1 S Hebron	28	2035CST			0	0	70K		Thunderstorm Wind
Fond Du Lac County Fond Du Lac	28	2044CST			0	0	3K		Thunderstorm Wind
Jefferson County 3.8 SE Sullivan	28	2045CST			0	0			Thunderstorm Wind (G55)
Waukesha County 3 SW Dousman	28	2052CST			0	0	8K		Thunderstorm Wind
Walworth County Elkhorn	28	2100CST			0	0	2K		Thunderstorm Wind (G68)
Walworth County Lake Geneva to Genoa City	28	2100CST 2115CST			0	0	3K		Thunderstorm Wind
Waukesha County Waukesha	28	2104CST			0	0	15K		Thunderstorm Wind (G61)
Waukesha County 3 NE Delafield to Pewaukee	28	2115CST 2200CST			0	0	20K		Lightning
Milwaukee County West Allis to Hales Corners	28	2124CST 2130CST			0	0	4K		Thunderstorm Wind (G61)
Kenosha County Twin Lakes to Silver Lake	28	2125CST 2135CST			0	0	10K		Thunderstorm Wind
Sheboygan County Elkhart Lake	28	2125CST			0	0	7K		Thunderstorm Wind
Racine County Caledonia to Racine	28	2130CST 2140CST			0	0	100K		Thunderstorm Wind
Racine County Waterford to 5 SE Waterford	28	2130CST 2230CST			0	0			Urban/Sml Stream Fld
Milwaukee County Brown Deer	28	2145CST			0	0	0.80K		Thunderstorm Wind
Walworth County 2 SW Whitewater	28	2155CST			0	0	4K		Thunderstorm Wind

Powerful thunderstorms packing damaging winds and heavy downpours resulted in numerous trees and power lines down across southcentral and southeast Wisconsin. The felled trees and power lines in Columbia county resulted in 1300 customers losing electrical power in that county. Some significant damage included roofs on two homes in Jefferson (Jefferson Co.) and damage to farm buildings near Hebron (Jefferson Co.). In one of these farm buildings, a stereo was "sucked" out and thrown 300 feet down the road. Lightning took a toll in Delafield to Pewaukee (Waukesha Co.) area where 4 homes were hit and 3000 electric customers were out of power. Near Dousman (Waukesha Co.), a toppled tree fell on and damaged a car. A gust of 70 mph was noted at the City of Waukesha Airport. In the city of Waukesha, a downed tree totaled a parked car. A tree fell on a home in rural Benton and in South Wayne, both in Lafayette county. Lightning struck a barn near Orfordville (Rock Co.) and the resultant fire damaged

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
machinery and some hay. A boat on Lake Geneva (Big Foot Beach, Walworth Co.) was damaged when the winds lifted it out of its cradle. In Racine county a pole barn and 2 boats were damaged near Caledonia. Also in Racine county, 2 1/2 feet of standing water was reported on Highway 20.									
Sauk County Countywide	31	0030CST 0100CST			0	4	914K	186K	Thunderstorm Wind
Marquette County Countywide	31	0040CST 0100CST			0	0	100K	50K	Thunderstorm Wind (G59)
Columbia County Countywide	31	0045CST 0125CST			0	1	3.6M	200K	Thunderstorm Wind
Green Lake County Countywide	31	0045CST 0120CST			0	0	5K		Thunderstorm Wind
Iowa County Countywide	31	0045CST 0115CST			0	0	200K	50K	Thunderstorm Wind
Dane County Countywide	31	0100CST 0145CST			0	2	3.1M	150K	Thunderstorm Wind (G87)
Lafayette County Countywide	31	0100CST 0140CST			0	0	875K	100K	Thunderstorm Wind
Dodge County Countywide	31	0115CST 0145CST			0	8	3.7M	24K	Thunderstorm Wind (G111)
Fond Du Lac County Countywide	31	0115CST 0200CST			0	1	2M	75K	Thunderstorm Wind (G72)
Green County Countywide	31	0115CST 0200CST			0	0	20K		Thunderstorm Wind
Jefferson County Countywide	31	0123CST 0200CST			0	8	2.7M	200K	Thunderstorm Wind
Rock County Countywide	31	0130CST 0210CST			0	0	20K		Thunderstorm Wind
Sheboygan County Countywide	31	0130CST 0215CST			0	0	642K	150K	Thunderstorm Wind
Washington County Countywide	31	0145CST 0220CST			1	2	8.6M	100K	Thunderstorm Wind (G91)
	F48PH								
Waukesha County Countywide	31	0145CST 0230CST			0	0	6.7M	50K	Thunderstorm Wind (G70)
Ozaukee County Countywide	31	0150CST 0215CST			0	4	3.5M	300K	Thunderstorm Wind
Milwaukee County Countywide	31	0200CST 0240CST			0	0	19.2M		Thunderstorm Wind (G87)
Waukesha County Delafield	31	0200CST			0	0	4K		Lightning
Waukesha County 3 SE Delafield	31	0210CST			0	0	10K		Lightning

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

Waukesha County 2 SE Pewaukee	31	0215CST			0	0	3K		Lightning
Walworth County East Troy	31	0220CST			0	0	5K		Thunderstorm Wind
Walworth County Walworth	31	0225CST			0	0	5K		Thunderstorm Wind
Racine County 3 NE Caledonia	31	0230CST			0	0	1K		Thunderstorm Wind
Kenosha County Kenosha	31	0300CST			0	0	2K		Thunderstorm Wind

During the early morning hours of Sunday, May 31st, southcentral and southeast Wisconsin experienced an unprecedented, widespread downburst wind event known as a "derecho." Incredibly powerful, hurricane-force straight-line winds, with peak gusts of 100 to 128 mph tore through 12 counties in this part of the state, while another 8 counties had peak gusts of 60 to 80 mph. Residents noted that the strongest winds only lasted a minute or two, but gusty winds hung on for 15 to 30 minutes.

Meteorologically, a solid squall line developed in southern Minnesota and gathered strength as it raced east with a translational speed of 50 to 60 mph across southcentral and southeast Wisconsin. The squall line was orientated southwest to northeast and had many microbursts and macrobursts embedded in it. Whereas all 20 counties in southcentral and southeast Wisconsin reported scattered to widespread wind damage, there were 5 main corridor, or swaths of concentrated micro/macroburst damage: 1) central Sauk county through northern Dane county through northern Jefferson county and southern Dodge county through Waukesha county and into Milwaukee county, 2) eastcentral Columbia county across northern Dodge county through southeast Fond du Lac county and through southern Sheboygan county, 3) West Bend area of central Washington county east to the Port Washington area of Ozaukee county, 4) southeast Iowa county into northwest Green county, and 5) northwest to central part of Lafayette county.

Newspaper headlines used a variety of words to describe this event: war zone, devastating, unbelievable, wicked wind, blown to bits, amazing, "Nature's Spring Cleaning," and "traveling back to the dark ages."

Utility companies and Emergency Managers stated that this was the most damaging, widespread, straight-line thunderstorm wind event to affect southern Wisconsin in the past 100 years! Estimated, monetary damage amounts for all 20 counties were \$55.852 million for residential or mobile homes, businesses, utilities buildings, agriculture buildings, signs, street lights, billboards, campers, and boats; and \$1.485 million in crop and livestock losses. As a sign of the wind power, many concrete silos had their tops blown off, and many barns flattened. Many homes and other structures had their roofs peeled off. Thousands of large trees were either uprooted or broken/twisted by the winds. Hundreds of power poles were snapped or pushed over by the winds, or falling trees/branches. At one time, about 60,000 customers were without electricity in southcentral Wisconsin, and about 170,000 in southeast Wisconsin. Some residences or businesses were without power for as much as 5 or 6 days due to deluge of utility repairs and shortage of replacement power poles. Hundreds or motor vehicles were either damaged or totaled by falling trees/branches, or collapsed garages. The monetary damages to motor vehicles is not included in the totals given above. In addition, numerous vehicle accidents resulted from inoperative stop/go street lights as roads quickly became log jams.

1. Sauk County: peak winds estimated at 100 to 120 mph. Mirror Lake Park was hard hit with lots of trees downed. North of Spring Green, a 3-year old child was killed at about 1040 am CDT on May 31st when a large tree rolled on him during a clean-up by workers. This was an indirectly-related death and is not counted officially. A total of 21 residences had minor damage, 3 major, and one was destroyed. Five businesses had minor damage, and 2 had major damage. Twenty-six farm buildings sustained minor damage, 15 major, and 11 were destroyed.
2. Marquette County: mostly tree and power line damage scattered across all parts of county. This county got off relatively easy. Measured peak wind gust of 68 mph in Briggsville. Gusts over remainder of county estimated in 60 to 70 range.
3. Columbia County: peak wind gusts estimated at 90 to 115 mph. Hardest hit areas were Lodi, Wisconsin Dells, Cambria, and Fall River to Columbus. A total of 172 residences had minor damage, and one had major damage. One business suffered minor damage, and 4 had major damage. Thirty farm buildings had minor damage, 20 major damage, and 14 were destroyed. Near Columbus, a teenager was seriously injured and hospitalized when she left a camping trailer to warn others of the strong winds.
4. Green Lake County: estimated peak winds of 60 to 65 mph along eastern border where there was some trees toppled. Otherwise scattered reports of large tree limbs knocked down across county.
5. Iowa County: estimated peak wind gusts of 100 to 115 mph in southeast corner where most serious damage occurred in a swath leading into northwestern Green county. About 20 residences or farm buildings sustained varying amounts of damage. One resident in the southeast corner stated that she had difficulty breathing and the wind sounded the like the 1984 F5 Barneveld tornado she survived.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

WISCONSIN, Southeast

6. Dane County: measured gust of 100 mph in Marshall, but peak gusts estimated at 110-120 mph based on damage. Hardest hit areas were Waunakee-DeForest, Sun Prairie, and Marshall. Cars were blown sideways off I-94 north of Madison. Two people injured in Marshall by flying debris as roof was torn off their home. A total of 300 residences had minor damage, 18 major, and 1 was destroyed. One business had minor damage, and 7 had major damage. Twenty farm buildings sustained minor damage, 12 major, and 15 were destroyed.

7. Lafayette County: estimated peak wind gusts of 100 mph in a swath from near Belmont to southeast of Darlington where worst damage occurred. Ten city blocks in Darlington were closed due to debris. A total of 10 residences had minor damage, 5 major, and 1 was destroyed. Two businesses sustained major damage. Fifteen farm buildings had minor damage, 5 major, and 15 were destroyed. The death of a 25 year-old man was indirectly related to the storm. He was riding an ATV vehicle on a trail around 8am CDT on June 1st in the Graitiot area when he rode into a tree that was felled earlier by the storm.

8. Dodge County: was one of the hardest hit counties. Peak gust of 128 mph measured 1.5 miles northwest of Lebanon. Other gusts of 103 to 107 mph across northern part of county. Central part of county was in between the two major damage swaths in the county. Eight people were injured: 2 in home north of Beaver Dam, 2 in camper near Hartford, and 4 in a vehicle accident on Highway 41 when the winds blew over a semi-tractor truck. Near Clyman, hay wagons were blown onto the 2nd floor of damaged barns. A total of 168 residences had minor damage, and 25 had major damage. Two hundred and twenty-four farm buildings had minor damage, 111 major, and 26 were destroyed. Dozens of businesses also had varying amounts of damage.

9. Fond du Lac County: a peak gust of 83 mph was noted in Ripon, but based on damage, estimated peak gusts were in the 115-125 mph range in the southeast part of the county. Worst hit areas were Ashford to Campbellsport to Dundee and Fairwater to Brandon. A total of 188 residences had minor damage, and 20 major damage. Two businesses had major damage. Twenty farm buildings had minor damage, 10 major, and 35 were destroyed. Whiteout conditions at the height of the storm forced spotters off the road.

10. Green County: a microburst damage swath 1/2 to 1 mile wide, that started in southeast Iowa county, continued into northwestern Green county over to the New Glarus area. In the New Glarus Woods State Park, rental tents were shredded and dozens of trees toppled. Peak wind gusts were estimated in the 70 to 80 mph range. Elsewhere, on a farm near Albany, tents and tables were damaged by the winds, and 3 chopper wagons were damaged and rotated.

11. Jefferson County: area along and north of I-94 was hard hit. Estimated peak wind gusts in 110-120 mph range. Area from Lake Mills and Milford over to Johnson Creek had worst damage where several silos and other farm buildings were seriously damaged. Near Waterloo, airport hangers and a HAM radio tower were damaged. Eight people were injured by flying debris. Measured wind gust of 64 mph at Watertown airport and 61 mph at the NWS Forecast office southeast of Sullivan. A total of 2 residences had minor damage, 6 major, and 1 was destroyed. Two businesses had minor damage, and 2 had major damage. Two farm buildings had minor damage, 8 major, and 10 were destroyed.

12. Rock County: this county reported scattered areas countywide with downed trees and/or power lines. Peak gusts were estimated in the 60 to 70 mph range, especially across the northern part of the county around Edgerton.

13. Sheboygan County: estimated peak wind gusts of 110-120 mph across southern part of county, especially in the Beachwood to Adell/Waldo to Oostburg area. Northeast part of county also had many downed trees. In this county eleven residences had minor damage, and one had major damage. One Business had minor damage. Fifteen farm buildings had minor damage, and 7 had either major damage or were destroyed.

14. Washington County: all parts of county had damage, but concentrated swaths extended from the West Bend area east to Newburg, and another one across the southern tier of townships and cities. Based on damage, estimated peak wind gusts in 115-125 mph range. Had measured gusts of 105 mph in southwest corner in Town of Erin. A 48 year-old women was crushed to death by a fallen tree while sleeping in her home in the Town of Erin at 250 am CDT. At the West Bend Airport, 6 hangers and 6 planes were destroyed and several others damaged, for a total of \$ 2 million. In the county, a total of 1636 residences had minor damage, 39 major, and 2 were destroyed. Fifty businesses had minor damage, 14 major, and 12 (all in Richfield) destroyed. Thirteen farm buildings had minor damage, 17 major, and 3 were destroyed.

15. Waukesha County: most parts of county had at least some tree or power line damage, but three areas were hit hard... the City of Waukesha through New Berlin, Stone Bank to Pewaukee, and Township of Lisbon through Minomonee Falls. A peak wind gust of 80 mph was measured at the Waukesha Airport, but peak gusts in the worst swaths of damage were estimated to reach 100 to 110 mph. Several boats and piers were damaged on some of the county's lakes. A total of 225 residences sustained minor damage and 10 had major damage. Seventeen businesses had minor damage, 18 major, and 3 were destroyed. Two agricultural buildings had minor damage, 18 major, and 3 were destroyed. In downtown Waukesha, a well-known church had it's steeple damaged by the powerful winds.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southwest									
Grant County Hazel Green	15	1840CST			0	0	13K	15K	Thunderstorm Wind (G53)
La Crosse County 3 W West Salem to 2 NW West Salem	15	1840CST 1844CST	2	50	0	1	40K		Tornado (F0)
Jackson County 5 W City Pt	15	1845CST			0	0	8K		Thunderstorm Wind (G52)
Monroe County 6 NW Tomah	15	1907CST			0	0	12K		Thunderstorm Wind (G54)
Jackson County Black River Falls	15	1910CST			0	0	10K		Thunderstorm Wind (G52)
Monroe County 4 N Warrens	15	1915CST			0	0	5K		Thunderstorm Wind (G52)
60 to 70 mph winds downed trees and power lines. Small tornadoes touched down briefly near Mondovi and West Salem. The one near West Salem sheared off the tops of trees and destroyed a barn. A woman in the barn at the time was injured slightly.									
Jackson County Alma Center	18	2315CST			0	0	10K		Thunderstorm Wind (G52)
Vernon County Viroqua	19	0020CST			0	0	5K		Thunderstorm Wind (G52)
Grant County Blue River	19	1225CST			0	0		15K	Hail (0.75)
60 mph wind gusts and dime size hail was reported by law enforcement officials and spotters.									
Buffalo County 2 SE Nelson	28	0200CST			0	0		16K	Hail (0.75)
Jackson County Hatfield	28	0257CST			0	0	8K		Thunderstorm Wind (G52)
A small cluster of severe thunderstorms produced dime size hail and wind gusts to 60 mph.									
Vernon County West Prairie	28	1801CST			0	0		18K	Hail (1.75)
Grant County Kieler	28	1830CST			0	0		35K	Hail (1.75)
Vernon County 5 NE La Farge	28	1840CST			0	0	25K		Hail (1.75)
Vernon County Ontario	28	1845CST			0	0			Hail (0.75)
Vernon County 2 SW Hillsboro	28	1850CST			0	0	13.5K		Hail (1.00)
Juneau County Lyndon Station	28	1930CST			0	0	8K		Thunderstorm Wind (G53)
Adams County 5 N Plainville	28	1931CST			0	0			Hail (0.75)
Monroe County 6 N Tomah	28	1939CST			0	0			Hail (0.75)
Monroe County 6 N Tomah	28	1940CST			0	0	12K		Thunderstorm Wind (G52)
Monroe County Oakdale	28	1950CST			0	0			Thunderstorm Wind (G52)
Adams County New Rome	28	2035CST			0	0			Hail (0.75)
Wind gusts between 60 and 65 mph along with hail up to the size of golf balls was reported by spotters and local law enforcement officials.									
Clark County Greenwood	30	2236CST			0	0		20K	Hail (1.75)
Clark County Greenwood	30	2245CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southwest									
Trempealeau County									
Arcadia	30	2245CST			0	0			Hail (0.75)
Clark County									
Neillsville	30	2253CST 2255CST			0	0	18K		Hail (0.88)
Buffalo County									
Alma	30	2300CST			0	0	17K		Thunderstorm Wind (G52)
Trempealeau County									
Whitehall	30	2305CST			0	0	14K		Thunderstorm Wind (G52)
Buffalo County									
Cochrane	30	2310CST			0	0	40K		Thunderstorm Wind (G54)
La Crosse County									
La Crosse Muni Arpt	30	2334CST			0	0	20K		Thunderstorm Wind (G65)
La Crosse County									
Onalaska	30	2334CST			0	0	6K		Thunderstorm Wind (G52)
La Crosse County									
3 E La Crosse	30	2336CST			0	0			Thunderstorm Wind (G50)
Clark County									
Loyal	30	2350CST			0	0			Funnel Cloud
Monroe County									
Sparta	30	2352CST			0	0	12K		Thunderstorm Wind (G61)
Vernon County									
Genoa	30	2355CST			0	0	8K		Thunderstorm Wind (G55)
Jackson County									
Black River Falls	31	0001CST			0	0	8K		Thunderstorm Wind (G52)
Monroe County									
Norwalk	31	0005CST			0	0	13K	15K	Thunderstorm Wind (G53)
Juneau County									
Elroy	31	0010CST			0	0	10K		Thunderstorm Wind (G56)
Crawford County									
Mt Sterling	31	0012CST			0	0	25K	30K	Thunderstorm Wind (G69)
Crawford County									
Prairie Du Chien	31	0015CST			0	1	30K		Thunderstorm Wind (G60)
Monroe County									
3 W Sparta	31	0016CST			0	0	12K		Thunderstorm Wind (G65)
Richland County									
Viola	31	0016CST			0	0			Thunderstorm Wind (G52)
Monroe County									
Ridgeville	31	0018CST			0	0	15K		Thunderstorm Wind (G55)
Juneau County									
Mauston	31	0020CST			0	0	38K		Thunderstorm Wind (G57)
Adams County									
Friendship	31	0025CST			0	0	20K	15K	Thunderstorm Wind (G53)
Juneau County									
New Lisbon	31	0025CST			0	0	10K		Thunderstorm Wind (G52)
Vernon County									
Viroqua	31	0025CST			0	0	30K	15K	Thunderstorm Wind (G69)
Vernon County									
3 N De Soto	31	0030CST			0	0	25K		Thunderstorm Wind (G57)
Juneau County									
Mauston	31	0035CST			0	0	12K		Thunderstorm Wind (G52)
Grant County									
Fennimore	31	0048CST			0	0		25K	Hail (0.88)
Grant County									
Fennimore	31	0048CST			0	0	25K	20K	Thunderstorm Wind (G57)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southwest									
Grant County Potosi	31	0110CST			0	0	15K	15K	Thunderstorm Wind (G65)
Grant County Mt Hope	31	0112CST			0	0	40K	30K	Thunderstorm Wind (G67)
Winds gusted to nearly 80 mph, knocking down trees and power lines as well as damaging several farms. Especially hard hit was the Mt Hope area where roofs were blown off and a tree was driven through the side of a house. On a farm near Potosi, a barn collapsed, killing a horse. Three mobile homes were destroyed and several others damaged in Prairie du Chien, but only one person was injured.									
WISCONSIN, West									
Chippewa County Albertville	12	1535CST			0	0			Hail (0.75)
Barron County 2 E Dallas to 5 W Chetek	12	1538CST 1544CST	6	50	0	0	100K		Tornado (F0)
Vehicle lifted off roadway and tossed into field. Large pine trees uprooted and broken. West face of wooden barn torn away. Shed destroyed.									
Chippewa County 2 NE Eau Claire Arpt	12	1600CST			0	0			Hail (1.00)
Chippewa County 6 E Chippewa Falls	12	1617CST			0	0			Hail (1.00)
Pepin County 7.5 ESE Durand to 7.5 ENE Durand	15	1654CST 1700CST	5	66	0	6	100K		Tornado (F3)
Tornado touched down in northern Buffalo County, and continued on ground for 9 miles into eastern Pepin County. Two homes were destroyed in Pepin County. House collapse injured 6 family members. Trailer home also damaged. Tornado rated F3 for a brief time east of Durand, however most of its damage track rated F1.									
Dunn County 3 S Meridean to 5 N Elk Mound	15	1705CST 1720CST	18	150	0	1	1.9M		Tornado (F1)
Chemical fertilizer plant northwest of Elk Mound sustained most of the severe damage. One house and a mobile home near Elk Mound were also destroyed. 7 other homes damaged. One man injured by flying glass.									
Eau Claire County 5 S Eau Claire	15	1738CST			0	0			Hail (1.00)
Eau Claire County Eau Claire	15	1745CST			0	0	73K		Thunderstorm Wind (G55)
Trees and power lines down. Estimated windspeed. Damage estimate for entire county.									
Chippewa County 5 E Chippewa Falls	15	1755CST			0	0			Hail (1.00)
Trees also blown down.									
Rusk County Ladysmith	15	1805CST			0	0	230K		Thunderstorm Wind (G70)
Roof ripped off apartment building and restaurant. Flying debris from apartment building damaged nearby motel. 3,000 pound pontoon boat on Lake Flambeau blown a distance of 125 feet and destroyed. Many trees blown over. Numerous garages and sheds destroyed.									
Chippewa County 1 NE Bloomer	15	1825CST			0	0			Thunderstorm Wind (G55)
Shed destroyed. Estimated windspeed.									
Rusk County 9 N Bruce	30	1358CST	0.1	50	0	0			Tornado (F0)
Trees and power lines down.									
Rusk County 7 N Ladysmith	30	1400CST	0.1	50	0	0			Tornado (F0)
Trees knocked down, temporarily blocking two people in their home. Additional funnel cloud sightings farther east; north of Glen Flora, Hawkins and Ingram.									
Polk County Frederic	30	2005CST			0	0			Hail (0.75)
Polk County Milltown	30	2045CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, West									
Barron County Cumberland	30	2100CST			0	0			Hail (0.75)
Pierce County 8 SW Ellsworth	30	2205CST			0	0	300K		Thunderstorm Wind (G60)
Trees blown down. Boat flipped over.									
Pierce County Ellsworth	30	2210CST			0	0			Thunderstorm Wind (G65)
4000 without power. Several barns and sheds destroyed. Estimated windspeed.									
Pierce County Prescott	30	2210CST			0	0			Thunderstorm Wind (G65)
Large trees and power lines down.									
Pierce County River Falls	30	2215CST			0	0			Thunderstorm Wind (G75)
Large trees blown down. Estimated windspeed.									
St. Croix County River Falls	30	2215CST			0	0	125K		Thunderstorm Wind (G75)
100 year old barn destroyed. Green house destroyed at retail center. Many mature trees blown down. Recreational vehicle tipped over. Water and tree damage to church.									
Dunn County 10 SE Menomonie	30	2220CST			0	2	300K		Thunderstorm Wind (G60)
Trailer home destroyed. Damage estimate for entire county.									
Dunn County 10 SE Menomonie	30	2222CST			0	0			Thunderstorm Wind (G60)
Home destroyed. Estimated windspeeds.									
Dunn County Elk Mound	30	2225CST			0	2			Thunderstorm Wind (G70)
Mobile home blown 50 feet, injuring 2. Estimated windspeed.									
Dunn County Irvington	30	2225CST			0	0			Thunderstorm Wind (G75)
Large trees blown over. Several large trees blown onto railroad trestle bridge. Estimated windspeed.									
Dunn County 7 E Menomonie to 8 ESE Menomonie	30	2228CST 2230CST	1	100	0	8	400K		Tornado (F2)
Two people severely injured during house collapse. Two homes destroyed. Several barns and sheds were also demolished. 6 people suffered minor injuries. One mobile home destroyed.									
Dunn County 1 S Irvington	30	2230CST			0	0			Thunderstorm Wind (G55)
Barn doors blown off. Estimated windspeed.									
Dunn County 3 S Irvington	30	2232CST			0	0			Thunderstorm Wind (G55)
Barn destroyed. Estimated windspeed.									
Eau Claire County Eau Claire	30	2305CST			0	0	467K		Thunderstorm Wind (G61)
Damage estimate for entire county.									
Chippewa County Chippewa Falls	30	2330CST			0	0			Funnel Cloud
WYOMING, Central and West									
Fremont County 4 SE Lander	13	1540MST			0	0			Hail (1.25)
Reported by off-duty NWS employee.									
Fremont County (Lnd)Hunt Fld Lander	13	1548MST 1551MST			0	0			Hail (0.75)
Fremont County 10 NE Lander Arpt	13	1625MST			0	0			Hail (0.75)
Reported by off-duty NWS employee.									

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Central and West

Natrona County

.7 SE Evansville to 2 NNE Evansville	26	1130MST 1137MST	2.5	150	0	0			Tornado (F0)
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Moved north across the abandoned old Texaco refinery. The weak tornado developed as the parent thunderstorm was developing/intensifying. Path length and width are estimates.

Johnson County

Buffalo	26	1445MST			0	0			Hail (0.75)
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WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

Weston County

1 S Morrisey	20	1420MST	5	.1	0	0			Tornado (F0)
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Campbell County

Wright	26	1655MST			0	0			Hail (0.75)
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WYOMING, Southeast

Converse County

9 NW Douglas to 11 NW Douglas	05	1512MST 1522MST	2	10	0	0	0	0	Tornado (F0)
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A weak tornado moved over open country northwest of Douglas before dissipating.

Laramie County

Horse Creek	07	1040MST 1105MST			0	0	0	0	Hail (0.75)
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Laramie County

27 NW Cheyenne	10	1031MST 1040MST			0	0	0	0	Hail (0.75)
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Laramie County

22 N Cheyenne	10	1300MST 1310MST			0	0	2K	0	Hail (1.75)
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A thunderstorm produced golf ball size hail along interstate 25, 22 miles north of Cheyenne.

Goshen County

La Grange	10	1430MST 1445MST			0	0	0	0	Hail (0.75)
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Laramie County

20 W Albin	10	1745MST 1752MST			0	0	0	0	Hail (0.75)
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Laramie County

Albin	10	1825MST 1835MST			0	0	0	149.7K	Hail (0.75)
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3/4 inch hail accumulated to a depth of 4 to 5 inches in and just to the west of Albin. This resulted in complete damage of 375 acres of alfalfa, 250 acres of wheat, and 300 acres of hay.

Laramie County

5 NE Albin	10	1900MST			0	0	0	0	Hail (0.75)
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Hail up to 6 inches deep was reported 5 miles northeast of Albin.

Laramie County

Pine Bluffs	10	1930MST 1940MST			0	0	1K	0	Thunderstorm Wind (G60)
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Wind gusts of 69 mph were reported in Pine Bluffs.

Laramie County

20 N Cheyenne	19	1355MST 1401MST			0	0	4K	0	Hail (1.75)
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A storm produced golf ball size hail 20 miles north of Cheyenne.

Storm Data and Unusual Weather Phenomena

May 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

WYOMING, Southeast

Laramie County

3 NE Burns	19	1502MST 1505MST	0.2	10	0	0	0	0	Tornado (F0)
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A brief tornado was reported by spotters 3 miles northeast of burns which quickly dissipated.

Niobrara County

50 N Lusk to 53 N Lusk	20	1425MST 1435MST	3	25	0	0	0	0	Tornado (F0)
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A brief tornado was reported by local area law enforcement, 50 miles north of Lusk.

Niobrara County

Van Tassel to 2 E Van Tassel	21	0935MST 0941MST	2	10	0	0	0	0	Tornado (F0)
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A brief tornado moved east across Highway 20 near Van Tassel before moving back up into the clouds.

Niobrara County

Lusk	21	1740MST 1747MST			0	0	4K	0	Hail (1.00)
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A storm produced quarter size hail in Lusk.

Carbon County

Arlington	30	0815MST 0825MST			0	0	0	0	Thunderstorm Wind (G52)
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Winds gusted to 60 mph for 10 minutes at Arlington.

STORM DAMAGE CATEGORIES

REFERENCE NOTES

1	Less than \$50	0 / Blank	None reported.
2	\$50 to \$500	*	Miles instead of yards.
3	\$500 to \$5,000	**	Yards instead of miles.
4	\$5,000 to \$50,000	@	Includes heavy sleet storm.
5	\$50,000 to \$500,000	#	Freezing drizzle and freezing rain, commonly known as glaze.
6	\$500,000 to \$5 Million	=	Report incomplete.
7	\$5 Million to \$50 Million	= =	Report not received.
8	\$50 Million to \$500 Million		
9	\$500 Million to \$5 Billion	o/c	Indicates Crop Damage amount is included in the value give for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F Scale)

(F0) Gale tornado (40-72 mph) : Light damage; Some damage to chimneys; break branches off trees; push over shallow-rooted trees; signs and billboards damaged.

(F1) Moderate tornado (73-112 mph): Moderate damage; The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage; Roofs torn from frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage; Roofs and some walls torn from well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage; Well-constructed houses leveled; structure with weak foundations blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage; Strong frame houses lifted from foundation and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 meters; trees debarked; incredible phenomena will occur.

(F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

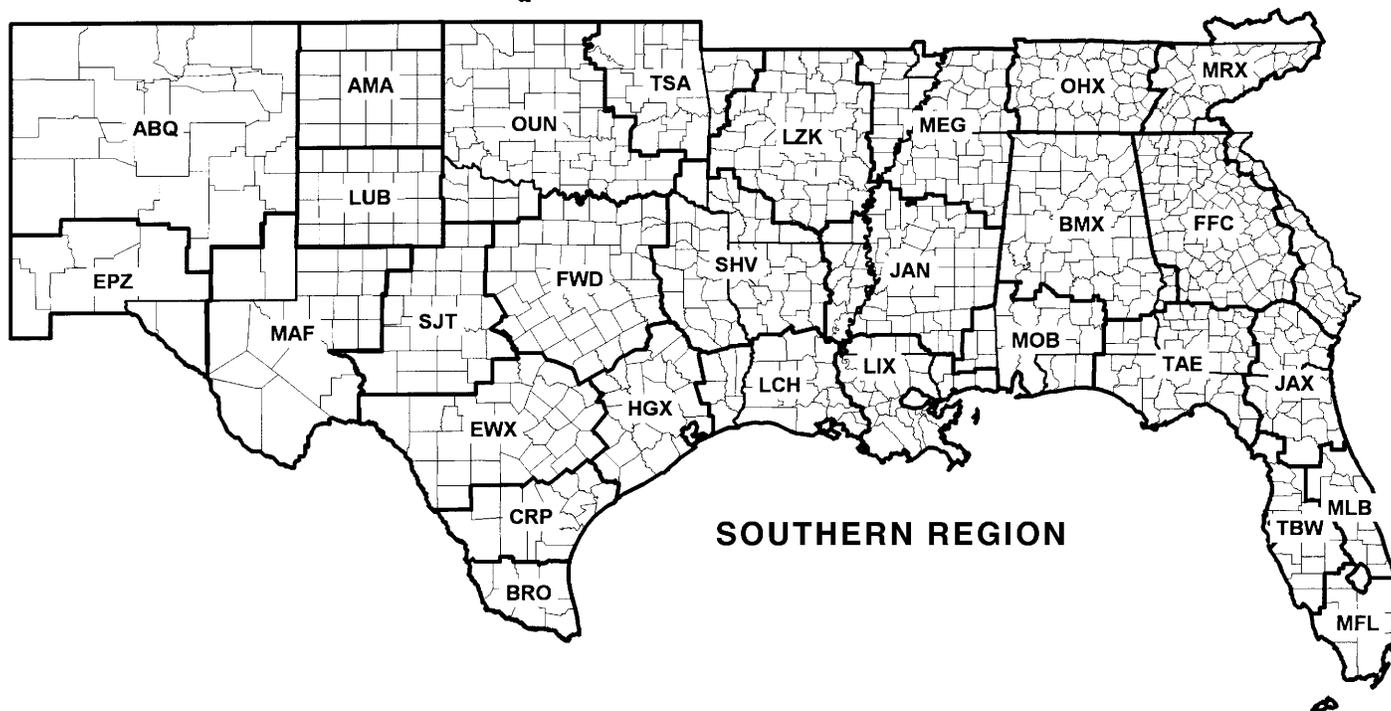
(F0+F1) Weak Tornado
(F2+F3) Strong Tornado
(F4+F5) Violent Tornado



COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

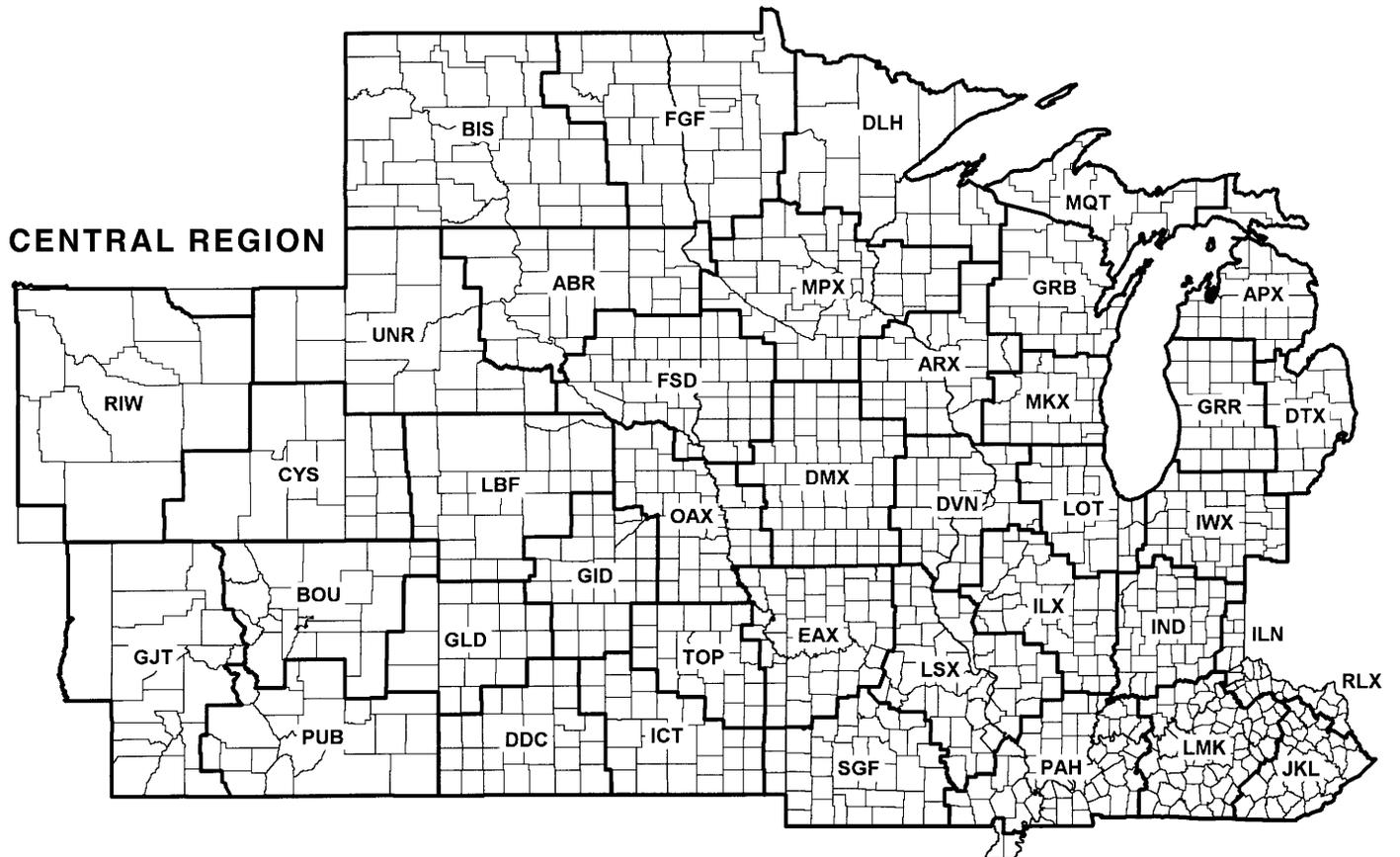
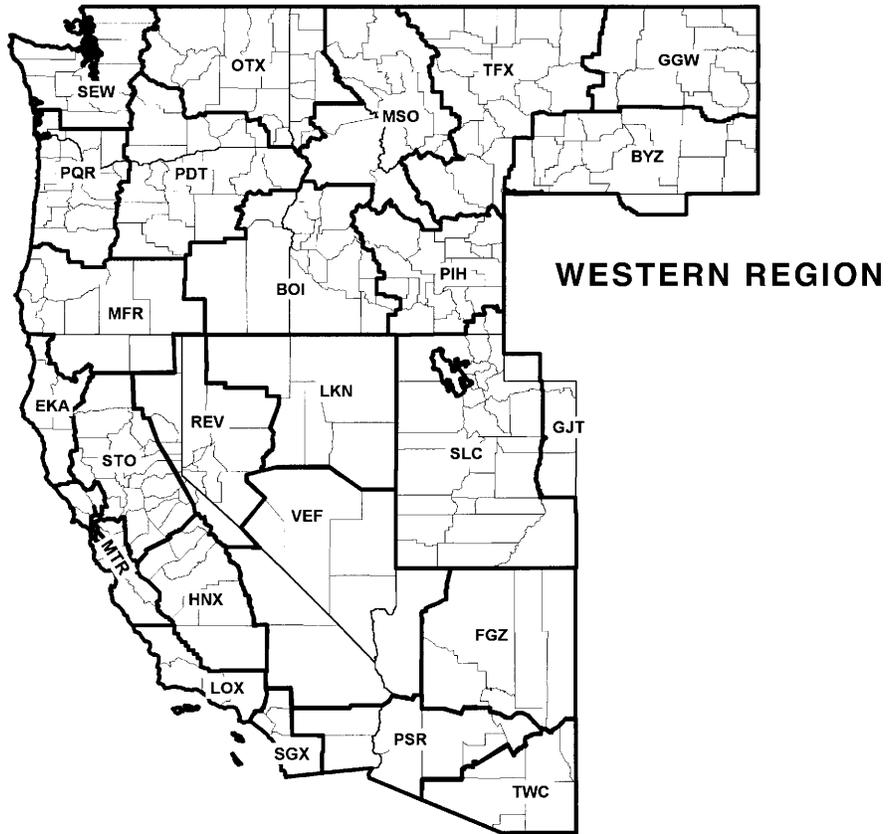


EASTERN REGION

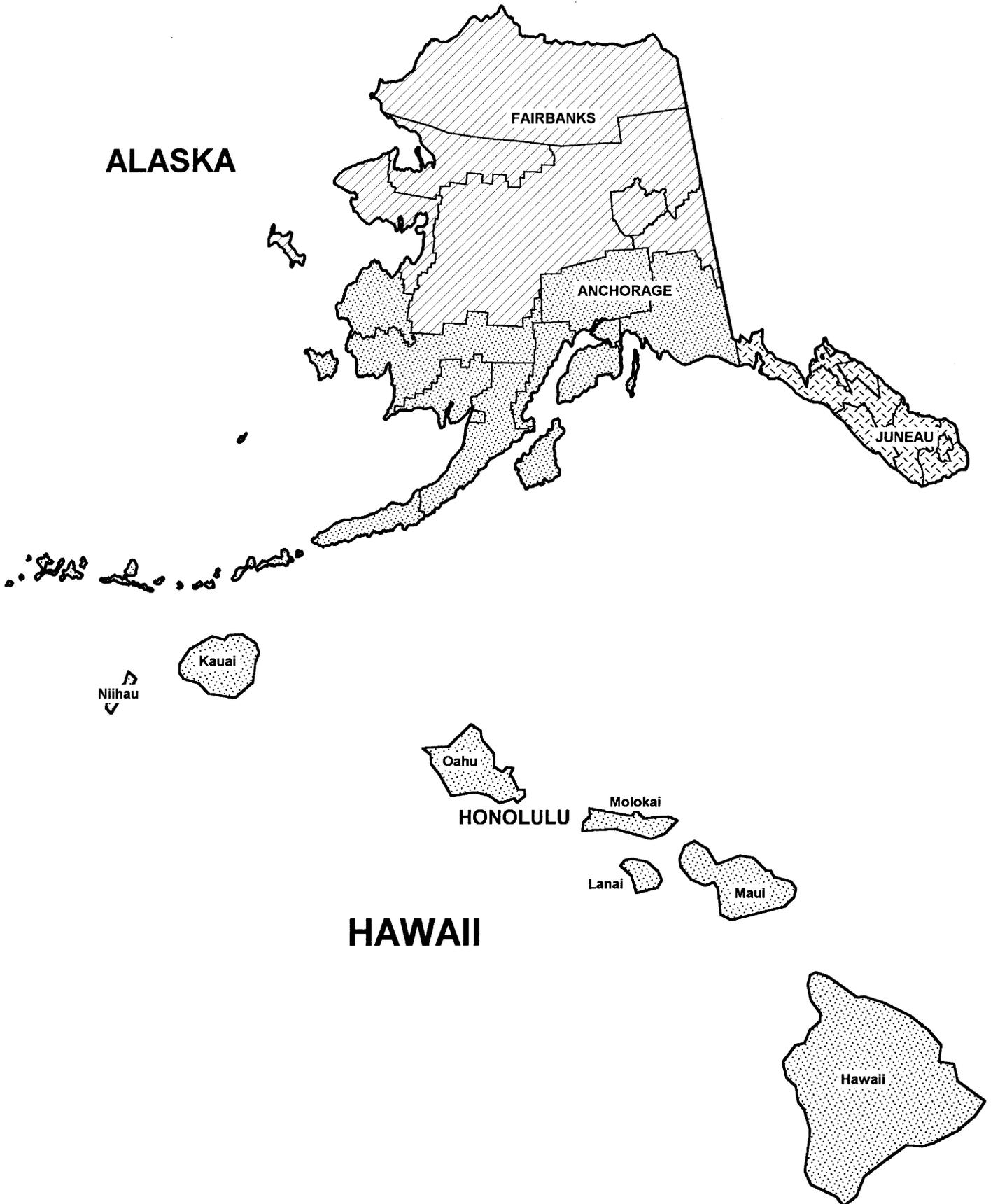


SOUTHERN REGION

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



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