

**MAY 1999
VOLUME 41
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, NC

Cover: This truck was destroyed by an F4 tornado moving through South Central Texas on May, 11 1999. Several people were injured, one fatally, when the tornado struck a ranch house. See details in the "Outstanding Storms of the Month" section. *(Photograph courtesy of Troy Kimmel, Meteorologist, Austin, Texas)*

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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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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" section of **STORM DATA**. We request our subscribers or other interested persons to mail such items to:

Storm Data
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."

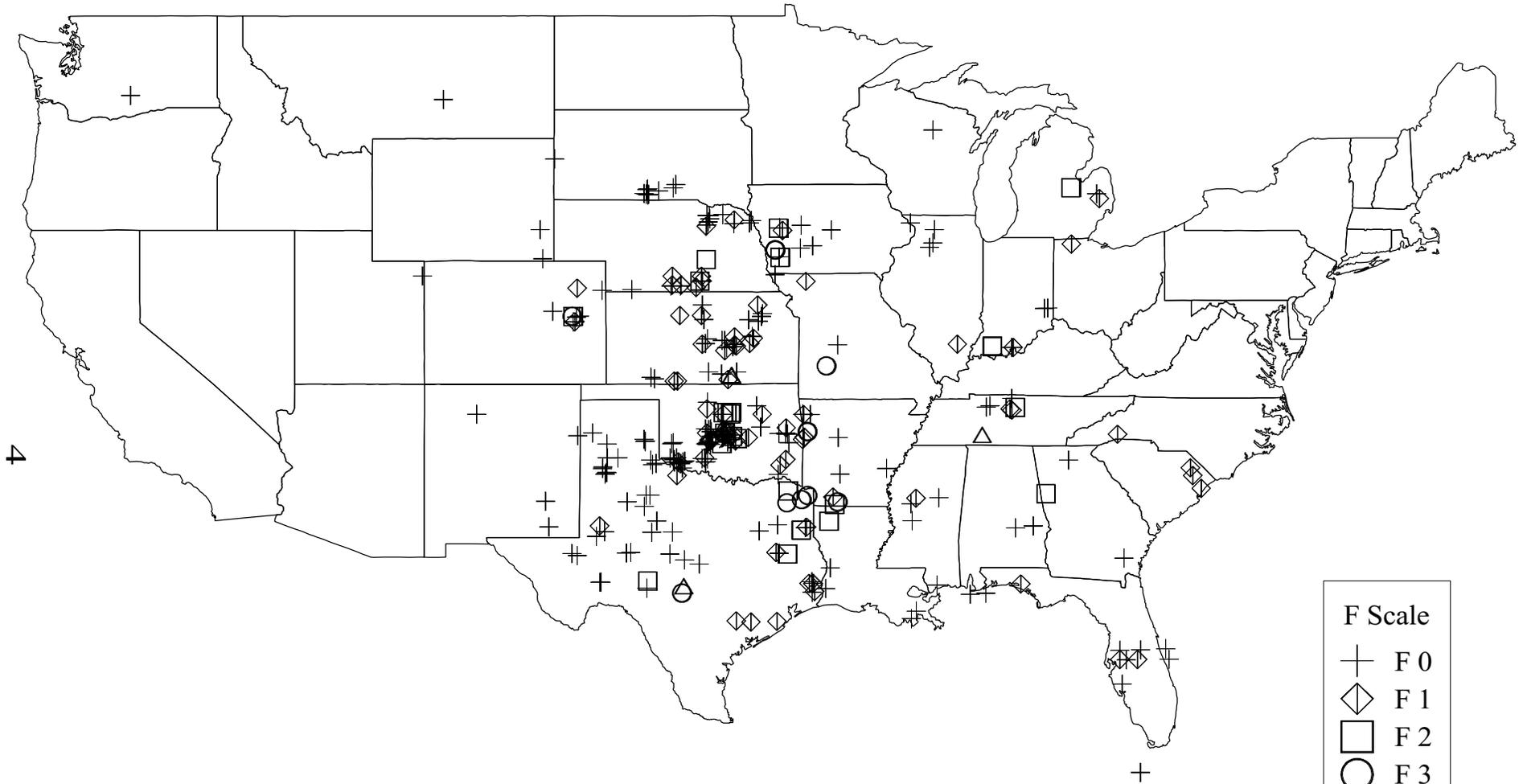


Thomas R. Karl
Director,
National Climatic Data Center

The Cyclone Track Map which usually appears on this page is not available for May 1999.

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

May 1999 Confirmed Tornadoes



4

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	198	72	25	11	5	1	312

F Scale	
+	F 0
◊	F 1
◻	F 2
○	F 3
△	F 4
★	F 5

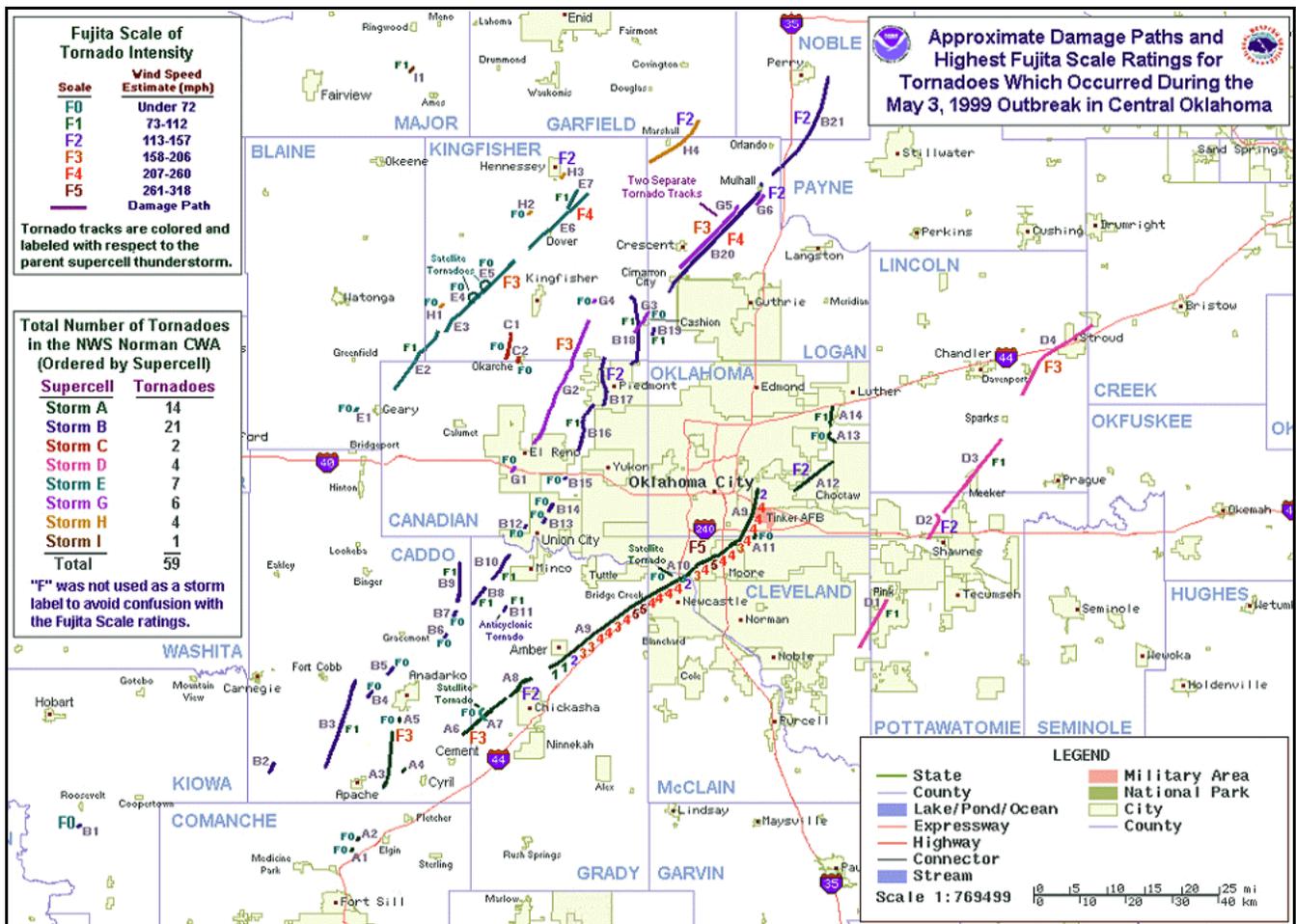
OUTSTANDING STORMS OF THE MONTH

1. SEVERAL TORNADOS DEVASTATE SOUTHERN PLAINS

During the evening of May 3rd through the morning of May 4th several severe storm cells spawned 59 tornadoes, resulting in massive destruction and loss of life. The Storms Prediction Center (SPC) in Norman, OK, issued a Severe Weather Outlook at 6:30 AM CST, warning of impending severe weather. Throughout the day, the SPC upgraded the outlook from slight, to moderate, to high risk. A Severe Thunderstorm Warning was issued by the National Weather Service (NWS) Forecast Office in Norman, OK at 4:15 PM CST. A Tornado Watch was issued by the SPC at 4:45 PM CST and the first Tornado Warning was issued by the NWS at 4:47 PM CST. The first tornado touched down at 4:51 PM CST in Comanche County.

The largest and most destructive tornado was rated an F5 (wind speeds between 260-318 mph) on the Fujita Tornado Scale. It touched down in Grady County, OK at 5:23 PM CST 2.5 miles NW of Chickasha and moved through McClain, Cleveland and Oklahoma Counties, causing massive amounts of damage to residential and commercial properties. It finally lifted at 6:48 PM CST after causing F5 damage

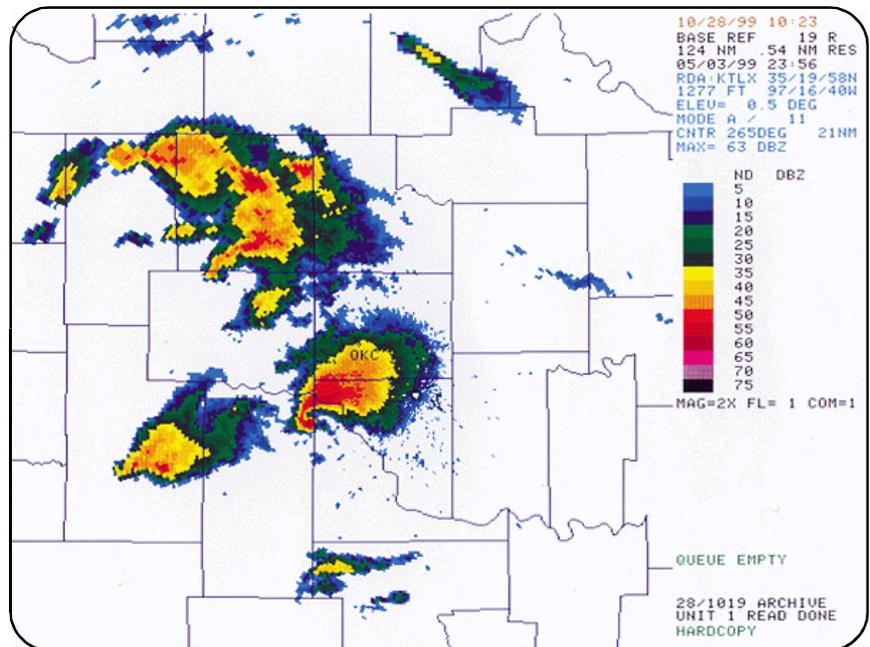
Below: A tornado track map for the Oklahoma City area depicting the location and intensity.
(Map courtesy of Steve Kruckenberg, National Weather Service, Oklahoma City, OK)



near Moore, OK. The tornado was on the ground for 1 hour and 25 minutes, covering 37 miles. This tornado caused 38 deaths, over 700 injuries and an estimated \$1 Billion in property damage. Continual monitoring and timely warnings by the National Weather Service minimized injuries and loss of life.

(Special thanks to Kenny James, Dennis McCarthy and Jim Purpura Meteorologists, NWS, Oklahoma City, OK, for contributing to this story. Also thanks to Keli Tarp, Public Relations, National Severe Storms Laboratory, Norman, OK and The Daily Oklahoman newspaper for use of the photographs)

Right: A WSR-88D Doppler Radar image depicting the definitive “hook echo” which shows the rain-wrapped center of circulation around the tornadoes vortex. This image was produced by the National Weather Service’s Oklahoma City radar at 5:56 P.M. CST when the tornado was rated an F5 (wind speeds between 261 -318 mph) as it moved from Grady County into McClain County.



Left: The deadly tornado is shown crossing Pennsylvania Avenue near Southwest 134th Street where several homes and businesses were destroyed or severely damaged. Note the black funnel that is caused by the large quantity of dark topsoil being ingested by the tornado

(Photograph courtesy of Paul Hellstern, The Daily Oklahoman, Oklahoma City, OK)



Left: An aerial photograph of Moore, Oklahoma, looking northeast from near 12th Street Northeast. You can see the tornado's path as it moved through this section of Moore.

(Photograph courtesy of Paul Hellstern, The Daily Oklahoman, Oklahoma City, OK)

Right: Rescuers help Renee Faulkinberry out from under the rubble of her home in Country Place Estates in southwest Oklahoma City (Cleveland County). Tornadoes on May 3-4 caused 47 fatalities and 865 injuries.

(Photograph courtesy of Paul Hellstern, The Daily Oklahoman, Oklahoma City, OK)



2. SEVERAL TORNADOES TOUCH DOWN IN TEXAS

Severe thunderstorms developed in South-Central Texas (Mason County) on May 11, spawning an F4 (wind speeds (207-260 mph) tornado. The tornado grew to a width of 1400 yards during its 7 mile long track. As the tornado crossed Texas State Highway 152, a stretch of asphalt 720 yards wide was ripped from the road surface. The tornado also ripped the vegetation from the ground and de-barked all of the trees in it's path. A total of 2 homes were completely destroyed and 16 others damaged. There was one fatality and 5 injuries when the tornado completely demolished a ranch house. Damages are estimated at 750K in property damage and 250K in crop losses.



Left: Workers clear debris from an area where a ranch house once stood. A family of six survived the tornado by driving their vehicle into a concrete garage as the tornado approached. One occupant of the vehicle died of injuries.

(Photograph courtesy of Troy Kimmel, Meteorologist, Austin, TX)

Right: The door of a pick-up truck found 3/4 of a mile from its original location. Several chunks of Highway 152 were also found in this area.



(Photograph courtesy of Troy Kimmel, Meteorologist, Austin, TX)



Left: Another section of the pick-up truck wrapped around the remains of a debarked mesquite tree.

(Photograph courtesy of Troy Kimmel, Meteorologist, Austin, TX)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
ALABAMA, North Central									
ALZ044									
Montgomery	01	0500CST			0	0	0	0	Extreme Cold
			The record low temperature of 44 degrees was tied at Dannelly Field.						
Sumter County									
Cuba	04	1120CST			0	0	5K	0	Hail (1.75)
			Golfball size hail fell in Cuba.						
Sumter County									
Livingston	04	1210CST			0	0	4K	0	Hail (1.75)
			Golfball size hail fell just east of Livingston.						
Clay County									
4 N Lineville	04	1500CST			0	0	0	0	Thunderstorm Wind (G50)
			Two trees were blown down onto a power line in northeast Clay County just north of Lineville.						
Bibb County									
Woodstock	04	1740CST			0	0	0	0	Hail (0.88)
			Dime to nickel size hail fell in Woodstock.						
Lauderdale									
3 NW Waterloo	05	1910CST			0	0	0	0	Thunderstorm Wind (G52)
			A wind gust around 60 miles an hour was reported in extreme northwest Lauderdale County with no damage observed.						
Colbert County									
Countywide	05	1925CST 1945CST			0	0	5K	0	Thunderstorm Wind (G50)
			Power lines were knocked down in several locations across the county.						
Franklin County									
Red Bay	05	1955CST			0	0	0	0	Hail (0.88)
			Nickel size hail fell in Red Bay.						
Lauderdale									
Green Hill	05	1955CST			0	0	5K	0	Thunderstorm Wind (G50)
			A large tree was blown over onto a car badly damaging it. This occurred on old CR 140 near Green Hill. Pea size hail and wind gust of 50 miles an hour were reported in numerous locations across eastern Lauderdale County.						
Colbert County									
10 S Muscle Shoals	05	2000CST			0	0	0	0	Hail (0.88)
			Nickel size hail fell 10 miles south of Muscle Shoals.						
Franklin County									
Countywide	05	2005CST			0	0	3K	0	Thunderstorm Wind (G50)
Franklin County									
10 W Russellville	05	2005CST			0	0	0	0	Hail (0.88)
			Nickel size hail fell 10 miles west of Russellville. Several reports of dime size hail and wind gust up to 57 miles an hour were also received from across the county.						
Colbert County									
6 NE Leighton	05	2014CST			0	0	0	0	Hail (0.88)
			Nickel size hail fell in the northeastern part of the county near Leighton.						
Lawrence County									
Courtland	05	2031CST			0	0	0	0	Hail (0.75)
Lawrence County									
Courtland	05	2031CST			0	0	3K	0	Thunderstorm Wind (G50)
			Dime size hail was reported and trees were blown down in Courtland.						
Lawrence County									
3 N Moulton	05	2050CST			0	0	0	0	Hail (0.75)
			Dime size was reported 3 miles north of Moulton.						
Lamar County									
Beaverton	05	2050CST			0	0	5K	0	Thunderstorm Wind (G50)
			Power lines were blown down just to the northeast of Beaverton near the Marion County line.						
Limestone County									
Athens	05	2055CST			0	0	5K	0	Thunderstorm Wind (G50)
			Trees and power lines were blown down in the city of Athens and also south of the city.						

Storm Data and Unusual Weather Phenomena

May 1999

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									
Madison County									
Harvest	05	2105CST			0	0	0	0	Thunderstorm Wind (G50)
Trees were blown over in Harvest according to a report through 911.									
Marion County									
8 W Hamilton	05	2110CST			0	0	0	0	Thunderstorm Wind (G50)
A few large tree limbs were broken off and blocked SR 19 4 miles north of the Marion-Lamar county line.									
Madison County									
Huntsville	05	2110CST 2115CST			0	0	5K	0	Thunderstorm Wind (G50)
Trees and power lines were blown over in Huntsville and also just north of Huntsville in Chase. A few roads were blocked due to the downed trees.									
Colbert County									
8 E Tuscumbia	05	2120CST			0	0	0	0	Hail (0.75)
Dime size hail fell 8 miles east of Tuscumbia.									
Madison County									
Huntsville	05	2145CST			0	0	30K	0	Lightning
Lightning strikes caused several house fires around the city. A few homes had only minor smoke damage but a few others sustained substantial fire and water damage. One firefighter received minor injuries when falling debris landed on him inside one of the homes.									
Madison County									
5 S Huntsville	05	2225CST			0	0	0	0	Hail (0.75)
Dime size hail was reported 5 miles south of Huntsville on US 231.									
Morgan County									
Countywide	05 06	2300CST 0200CST			0	0	0	0	Flash Flood
Numerous roads throughout the county had water covering them especially in low lying areas. No reports of any road closures.									
Madison County									
Countywide	05 06	2300CST 0230CST			0	0	6K	0	Flash Flood
Flash flooding was reported throughout the county but especially in the Huntsville area. Fire engines responding to the fires in Huntsville splashed through water a few feet deep in many locations. A police car was stranded in water at least three feet deep at an intersection. The city and county barricaded and closed numerous roads that were impassable. Numerous auto accidents occurred due to the high water but no injuries were reported.									
Cullman County									
West Pt	05	2315CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in the West Point area.									
Marshall County									
Grant	05	2340CST			0	0	3K	0	Hail (1.00)
Quarter size hail was reported in Grant.									
Tuscaloosa County									
Buhl	06	0106CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Buhl.									
Calhoun County									
Ohatchee	06	0330CST			0	0	5K	0	Hail (1.75)
Golfball size hail fell near the city of Ohatchee.									
Clay County									
Ashland	06	0435CST			0	0	0	0	Hail (0.75)
Dime size hail fell near the city of Ashland.									
Clay County									
Barfield	06	0445CST			0	0	15K	0	Lightning
Lightning struck a barn in Barfield and the ensuing fire damaged the structure significantly.									
Lee County									
Smiths	06	0930CST			0	0	0	0	Hail (0.75)
Dime size was reported in Smiths.									
Barbour County									
5 S Eufaula	06	1150CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported by the Alabama Highway Patrol 5 miles south of Eufaula.									

Storm Data and Unusual Weather Phenomena

May 1999

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

ALABAMA, North Central

Autauga County

**2.9 NE Prattville to
3.4 NE Prattville** **07** **1206CST
1207CST** **0.5** **25** **0** **0** **1K** **0** **Tornado (F0)**

A weak tornado briefly touched down south of Pine Level or northeast of Prattville in eastern Autauga County. The tornado knocked down several trees but remained in a rural area. There were numerous other reports of wall clouds and funnel clouds across the county.

Randolph County

8 SE Wedowee **07** **1218CST** **0** **0** **0** **0** **Hail (0.75)**

Dime size hail was reported along SR 1 between Wedowee and Roanoke. Numerous reports of rotating wall clouds and funnel clouds were also received at this time.

Elmore County

2 W Kent **07** **1428CST** **0.1** **20** **0** **0** **0** **0** **Tornado (F0)**

A weak tornado briefly touched down in a field near CR 44 and CR 159. No damage was reported.

Elmore County

2 W Kent **07** **1430CST** **0.1** **20** **0** **0** **0** **0** **Tornado (F0)**

Another weak tornado briefly touched down in a rural area near CR 44 and CR 159. No damage was reported.

Lee County

2 NNW Hopewell **07** **1825CST** **0** **0** **0** **0** **Thunderstorm Wind (G50)**

Several trees were blown down and some were blocking the roadway. This damage occurred between CR 166 and CR 169 just east of Beauregard.

Dekalb County

Ft Payne **13** **1030CST** **0** **0** **5K** **0** **Hail (1.75)**

Quarter to golfball size hail fell near Ft. Payne. The hail was up to 3 inches deep in many locations. A few automobiles had their windshields broken out. Hail was also reported in Fisher and Towne Creek areas.

Dekalb County

**Fyffe to
Crossville** **13** **1035CST** **0** **0** **0** **0** **Hail (0.88)**

Nickel size hail fell between the cities of Fyffe and Crossville.

Morgan County

Priceville **13** **1047CST** **0** **0** **0** **0** **Hail (0.75)**

Dime size hail fell near Priceville.

Dekalb County

Rainsville **13** **1103CST** **0** **0** **0** **0** **Hail (0.88)**

Nickel size hail was reported in Rainsville on CR 835.

Morgan County

Priceville **13** **1111CST** **0** **0** **0** **0** **Hail (2.50)**

Hail 2.5 inches in diameter fell near Priceville but no damage was reported.

Etowah County

Ballplay **13** **1119CST** **0** **0** **3K** **0** **Hail (1.00)**

Nickel to quarter size hail was reported near Ballplay and in other locations across eastern Etowah County.

Cherokee County

Spring Garden **13** **1155CST** **0** **0** **0** **0** **Hail (0.75)**

Penny size hail was reported just northwest of Spring Garden.

Autauga County

Bonita **13** **1208CST** **0** **0** **0** **0** **Hail (1.00)**

Nickel to quarter size hail was reported near Bonita.

Coosa County

Rockford **13** **1215CST
1225CST** **0** **0** **5K** **0** **Hail (1.75)**

Dime to golfball size hail fell in south central Coosa County all around the city of Rockford.

Clay County

Ashland **13** **1233CST** **0** **0** **0** **0** **Hail (0.75)**

Dime size hail was reported near Ashland.

Autauga County

Prattville **13** **1300CST** **0** **0** **0** **0** **Hail (1.00)**

Dime to quarter size hail fell in and around the city of Prattville.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Tallapoosa County									
11 SE Alexander City	13	1300CST			0	0	0	0	Funnel Cloud
Tallapoosa County									
11 SE Alexander City	13	1300CST			0	0	0	0	Thunderstorm Wind (G51)
Estimated 50 mile an hour sustained wind with gusts over 60 miles an hour were reported at Lake Martin. A funnel cloud was also spotted but no reports of damage were received.									
Autauga County									
Prattville	13	1301CST			0	0	0	0	Hail (1.00)
Quarter size hail fell at the Prattville exit on Interstate 65.									
Randolph County									
2 S Newell	13	1308CST			0	0	0	0	Hail (0.75)
Dime size hail was reported just south of Newell.									
Tallapoosa County									
Walnut Hill	13	1314CST			0	0	0	0	Hail (0.88)
Dime to nickel size hail was reported in the Walnut Hill area near SR 50.									
Elmore County									
Wetumpka	13	1337CST			0	0	0	0	Funnel Cloud
Elmore County									
Wetumpka	13	1337CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Wetumpka and a funnel cloud was observed.									
Chilton County									
7 NE Jemison	13	1340CST			0	0	0	0	Hail (0.88)
Motorists driving on Interstate 65 reported nickel sized hail in northern Chilton County near the Shelby County line.									
Montgomery									
Maxwell Afb	13	1344CST			0	0	0	0	Hail (0.75)
Three-quarter inch diameter hail was observed at the Air Force Base.									
Montgomery									
Montgomery	13	1346CST			0	0	0	0	Hail (1.00)
Quarter size hail was reported in the eastern part of the city of Montgomery.									
Montgomery									
Mathews	13	1415CST			0	0	3K	0	Hail (1.75)
Golfball size hail was reported just south of Mathews and across eastern Montgomery County along the Bullock County line.									
Lee County									
Auburn	13	1425CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Auburn.									
Randolph County									
8 N Wedowee	13	1430CST			0	0	0	0	Thunderstorm Wind (G50)
A few trees were blown down near Morrison Crossroads.									
Lee County									
7 S Opelika	13	1440CST			0	0	0	0	Hail (1.00)
Nickel to quarter size hail was reported in Beaufort.									
Macon County									
1 S Hardaway	13	1445CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in southwest Macon County near Hardaway.									
Jackson County									
Rosalie	13	1506CST			0	0	0	0	Hail (0.75)
Three-quarter inch hail was reported near Rosalie in eastern Jackson County.									
Russell County									
Hurtsboro	13	1615CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in Hurtsboro.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
ALABAMA, North Central										
Bullock County										
Union Spgs	13	1630CST 1640CST			0	0	5K	0	Hail (1.75)	
Pea to golfball size hail was reported in and around Union Springs. A few automobiles had their windshields broken.										
Barbour County										
Baker Hill	13	1715CST			0	0	0	0	Hail (0.75)	
Dime size hail was reported in Bakerhill.										
Barbour County										
Eufaula	13	1800CST			0	0	2K	0	Hail (1.00)	
Quarter size hail was reported in Eufaula.										
Bibb County										
6 N Centerville	18	1215CST			0	0	0	0	Hail (1.00)	
Quarter size hail was reported 6 miles north of the intersection between SR 5 and US 82.										
Shelby County										
7 N Chelsea	18	1232CST			0	0	0	0	Hail (1.00)	
Quarter size hail was reported just east of US 280 between SR 119 and Interstate 459.										
Montgomery										
Montgomery	18	1449CST			0	0	15K	0	Lightning	
Lightning struck the historic Union Station in downtown Montgomery and caused structural damage to the building. Bricks that fell from the building damaged two automobiles underneath, some air conditioning units, and broke a few windows. No reports of injuries were received.										
Cullman County										
Trimble to Holly Pond	22	1259CST 1330CST			0	0	10K	0	Thunderstorm Wind (G50)	
Numerous trees and power lines blown down from Trimble to just south of Cullman to Holly Pond.										
Blount County										
Snead	22	1350CST			0	0	0	0	Thunderstorm Wind (G50)	
Trees and power lines were knocked down near Snead.										
Jefferson County										
Pinson	22	1440CST			0	0	0	0	Hail (0.75)	
Dime size hail was reported in Pinson.										
Jackson County										
Scottsboro	23	1140CST			0	0	20K	0	Thunderstorm Wind (G60)	
Radio station WKEA in Scottsboro had a 70 foot high tower blown down and destroyed. Several trees were knocked over in Scottsboro. A tree was also blown over by the wind on South Broad Street in Scottsboro knocking out power in the area.										
Autauga County										
White City	23	1253CST 1300CST			0	0	0	0	Hail (0.88)	
Dime to nickel size hail fell all around White City.										
Elmore County										
3 NW Riddle	23	1325CST			0	0	0	0	Hail (0.75)	
Dime size hail was reported in northwest Elmore County near Lake Jordan.										
Elmore County										
Deatsville	23	1330CST			0	0	0	0	Thunderstorm Wind (G50)	
Trees and power lines were knocked down on CR 143 near Deatsville.										
Jefferson County										
Gardendale	23	1825CST			0	0	0	0	Thunderstorm Wind (G50)	
Trees were blown down on US 31 in Gardendale.										
Montgomery										
Dublin	26	1422CST			0	0	0	0	Hail (0.75)	
Dime size hail was reported at Dublin.										
Hale County										
6.2 NW Gallion	29	1510CST			2	1	0	0	Lightning	
Two men were killed as they took shelter on shore after getting off the water. The two men had headed out for a fishing trip on the Black Warrior River. The event occurred near the Arcola Landing. The wife of the elder man was knocked unconscious when the lightning struck, however, she had moved away from the two men just before the lightning strike occurred. M23OU, M55OU										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>ALABAMA, Southeast</u>									
Houston County									
Dothan	07	0415EST			0	0	1K		Thunderstorm Wind
		Trees down reported by Houston County EMA.							
Coffee County									
Countywide	13	1530EST			0	0	750K		Thunderstorm Wind
		Coffee County EMA provided a summary of damages: seven residential houses sustained slight to major wind damage, four barns and other neighboring sheds suffered minor to major damage including roof losses, three chicken houses received moderate wind damage, and numerous trees and power lines down with some on roadways.							
Houston County									
Countywide	13	1545EST			0	0	5K		Hail (0.75)
		Dime size hail and downed trees and power lines reported by Houston County EMA.							
Houston County									
2 S Dothan	13	1600EST			0	0	1K		Thunderstorm Wind
		Downed trees reported by Houston County EMA.							
Houston County									
Ashford	13	1610EST			0	0			Hail (0.75)
		Dime size hail reported by Houston County EMA.							
Houston County									
Ashford	13	1615EST			0	0	1K		Thunderstorm Wind
		Downed trees reported by Houston County EMA.							
<u>ALABAMA, Southwest</u>									
Choctaw County									
Riderwood to Cyril	04	1120CST 1130CST			0	0			Hail (1.00)
		Nickel to quarter size hail was reported from Riderwood to near Cyril.							
Baldwin County									
Ft Morgan	04	1300CST 1305CST			0	0			Hail (0.75)
		Dime size hail was reported in the community.							
Baldwin County									
Stapleton	04	1515CST 1520CST			0	0			Hail (0.75)
		Dime size hail was reported by HAM radio spotter on HWY 31.							
Mobile County									
Dauphin Is	05 07	1200CST 0100CST			0	0	15K		Coastal Flooding
		Strong onshore winds caused higher than normal tides along Dauphin Island. The higher than normal tides caused water to cover the road along the west end of the island. Roads along the west end of the island had to be closed for about two days due to the high water. Water finally receded after the strong onshore winds died down.							
Choctaw County									
Butler	06	0450CST 0452CST			0	0			Hail (0.88)
		Nickel size hail was reported just south of Butler.							
Clarke County									
Alma	06	0520CST 0522CST			0	0			Hail (0.75)
		Dime size hail was reported just west of Alma.							
Clarke County									
Thomasville	06	0620CST 0622CST			0	0			Hail (0.75)
		Dime size hail was reported in the community.							
Crenshaw County									
Countywide	06	1200CST 1615CST			0	0	10K		Flash Flood
		Slow moving thunderstorms, that dropped nearly six inches of rain in a short period of time, caused water to rise over several roads. Several dirt roads were washed out due to the heavy runoff. Several roads were impassable through most of the afternoon due to high water. After the thunderstorms moved out the area the water receded. No one was injured.							

Storm Data and Unusual Weather Phenomena

May 1999

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									
Covington County									
North Portion	06	1300CST 1630CST			0	0	5K		Flash Flood
Many roads in the north part of the county were closed for several hours due to runoff from heavy rains. Many dirt roads were washed out and had to be replaced. Radar estimated around six inches of rainfall fell in the north part of the county.									
Covington County									
South Portion	07	0100CST 0500CST			0	0	5K		Flash Flood
Another round of heavy rains invaded the south part of the county during the early morning hours. The day before saw heavy rains and flooding in the north part of the county. Radar estimated that eight to ten inches of rain fell across the south part of the county in a three to four hour period. Several roads, especially secondary dirt roads, were flooded and had to be closed. No injuries were reported.									
Covington County									
Andalusia	13	1910CST 1912CST			0	0			Hail (0.88)
Nickel size hail was reported just east of Andalusia.									
Butler County									
Georgiana	18	1655CST 1657CST			0	0			Hail (0.75)
Dime size hail was reported by emergency management.									
Covington County									
Opp	18	1730CST 1732CST			0	0	5K		Thunderstorm Wind (G50)
Trees and power lines were blown down near Opp.									
Escambia County									
Brewton	18	1845CST 1847CST			0	0			Hail (1.50)
Ping pong ball size hail was reported by sheriffs office deputy in East Brewton.									
Mobile County									
Spring Hill	23	1405CST 1410CST			0	0			Hail (1.00)
Dime to quarter size hail was reported from the Spring Hill Community to the Eight Mile Community.									
Escambia County									
Dixonville	23	1550CST 1555CST			0	0	1K		Thunderstorm Wind (G50)
Dime size hail and two trees were reported blown down due to high winds in the community.									
Covington County									
Wing	23	1620CST 1621CST			0	0			Hail (0.75)
Dime size hail was reported just northeast of Wing.									
Baldwin County									
Weeks Bay	26	0745CST 0747CST			0	0			Waterspout
A waterspout was reported over Weeks Bay. The waterspout dissipated over the bay.									
Covington County									
Florala	26	1330CST 1335CST			0	0	3K		Thunderstorm Wind (G55)
High storm winds damaged the skirting under some mobile homes in the community.									
Escambia County									
Bradley	26	1620CST 1621CST			0	0			Hail (0.88)
Nickel size hail was reported near Bradley.									
Mobile County									
Bucks	26	1755CST 1757CST			0	0			Hail (0.75)
Dime size hail was reported along US Highway 43 near Bucks.									
Mobile County									
Grand Bay	28	1258CST 1305CST			0	0			Hail (0.88)
Nickel size hail was reported just to the west of St. Elmo Airport near Grand Bay.									

Storm Data and Unusual Weather Phenomena

May 1999

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

Mobile County

Bayou La Batre	28	1310CST 1315CST			0	0	7K		Thunderstorm Wind (G55)
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High storm winds damaged a roof to a home and trees were blown down 3 miles northwest of the community.

Choctaw County

Gilbertown	28	1721CST 1726CST			0	0			Hail (1.75)
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Golfball size hail was reported in southern sections of the county.

Choctaw County

6 E Bolinger	28	1723CST 1728CST			0	0	10K		Thunderstorm Wind (G55)
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High winds blew trees and power lines down near US Highway 84 and County Road 21. A store had some minor roof damage from the high winds in the same area.

Clarke County

Coffeeville	28	1724CST 1728CST			0	0			Hail (1.00)
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Quarter size hail was reported near the Coffeeville Lock and Dam.

Baldwin County

Gulf Shrs to Ft Morgan	29	1840CST 1900CST			0	0			Waterspout
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Several waterspouts were reported just offshore between Gulf Shores and Fort Morgan. One of the waterspouts moved ashore three miles east of Fort Morgan. All the other waterspouts dissipated over the water. No injuries were reported.

Baldwin County

Ft Morgan	29	1900CST 1901CST	0.1	20	0	0	10K		Tornado (F0)
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A waterspout came ashore along State Highway 180 about three miles east of Fort Morgan. The waterspout quickly dissipated but a building under construction had building material scattered and minor roof damage from the storm.

Mobile County

Dauphin Is	31	0755CST 0839CST			0	0			Waterspout
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There were several reports of waterspouts off the island.

Baldwin County

Ft Morgan to Gulf Shrs	31	1350CST 1452CST			0	0			Waterspout
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Several reports of waterspouts were reported during the period. At times, there were 6 spouts occurring at the same time. They dissipated before reaching land.

Baldwin County

Gulf Shrs	31	1442CST 1444CST	0.1	20	0	0			Tornado (F0)
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A waterspout moved over the marshlands between Little Lagoon and Oyster Bay. The storm dissipated over the marshlands and no damage was found. No injuries were reported.

Mobile County

Fowl River	31	1745CST 1747CST			0	0			Waterspout
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A waterspout was reported along the Fowl River. The waterspout only lasted a couple of minutes and dissipated over the river.

ALASKA, Northern

AKZ007

Tanana Valley

01	0000AST				0	0			Heavy Snow
02	2359AST								

A low pressure center over the southern Yukon Territory pulled cool air east across the Tanana Valley while spreading moisture over the valley from the west. Although the western and lower elevations of the Fairbanks area received little snowfall, hills to the north and east of town, received accumulations of 6 to 12 inches, as well as areas east of Fairbanks to Canada and south along the north slopes of the Alaska Range, mainly east of the Parks Highway.

Snowfall totals:

Delta Junction: 7 inches

Northway: 7 inches

Co-op observations

Fort Knox Gold Mine 12 inches

Gilmore Creek 8.3 inches

Whitstone Farms 9 inches

Unofficial readings

Storm Data and Unusual Weather Phenomena

May 1999

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

ALASKA, Northern

17.5 mile Chena Hot Springs Road 11 inches
Chena Hot Springs 8 inches
Salcha Area "nearly a foot"

AKZ004

Koyukuk-Upper Kobuk Valleys

01	1800AST			0	0	High Wind (G43)
02	1400AST					

With low pressure already over Interior Alaska, high pressure north of the Arctic Coast strengthened and caused a strong pressure gradient through Atigun Pass. Wind gusts reached 50 mph.

Tanana Valley

East Portion

25	1200AST			0	0	Flash Flood
26	2300AST					

Thundershowers produced locally heavy rains which increased snowmelt as well, causing certain streams to go overbank, including Chief Creek and Bear Creek near mile 1358 of the Alaska Highway.

ALASKA, Southeast

NOT RECEIVED.

ALASKA, Southern

AKZ011-016-019

Kuskokwim Delta - Bristol Bay Coastal - Western Alaska Peninsula

03	0700AST			0	0	High Wind (G45)
04	1000AST					

An area of brisk northwest winds, between a large, strong high in the western Aleutians and moderate low pressure in the northeastern Gulf of Alaska, produced locally brisk northwest winds along the southwest Alaskan coast and the Alaska Peninsula. Adjusted wind gusts above 40 mph began at Cold Bay just after 8:30 pm ADT Monday continuing through late Tuesday morning. Peak adjusted gusts reached 52 mph between 8 am ADT and 9 am ADT Tuesday, briefly causing blizzard conditions in light snow and blowing snow at the Cold Bay ASOS.

Additionally, brisk northwest winds were also reported along the western capes of the Bristol Bay zone and the Kuskokwim Delta zone.

Adjusted wind gusts reached 50 mph at Cape Romanzof between 9 pm ADT and 10 pm ADT Monday.

Cape Newenham, at the western tip of the Bristol Bay zone, recorded wind gusts over 40 mph from 7 am ADT Monday through 10 am ADT Tuesday. Peak winds there reached an adjusted 50 mph between 6 am ADT and 6:30 am ADT Tuesday.

AKZ017

Central Gulf Coast

03	0900AST			0	0	High Wind (G35)
	1000AST					

Local wind gusts reached 40 mph at the Whittier Boat Harbor Monday morning. These winds are not uncommon, at times triggered by local temperature gradients. Monitoring small scale pressure differences can yield clues regarding the onset of these winds.

AKZ016-019

Bristol Bay Coastal - Western Alaska Peninsula

03	1100AST			0	0	High Wind (G45)
04	1900AST					

Locally brisk northwest winds were reported across the Alaska Peninsula and southwest Alaskan Coast, as strong high pressure built into the western Aleutians and a moderate low pressure area persisted in the northern Gulf of Alaska.

Wind gusts above 40 mph were recorded around Cold Bay from 10 am Monday through 6 pm Tuesday. Gusts reached 52 mph Tuesday morning between 8 am ADT and 9 am ADT. Wind gusts finally dropped under 40 mph at 6 pm ADT Tuesday.

Adjusted AWOS gusts reached 51 mph at Cape Newenham, where winds are accelerated by terrain.

AKZ017>018

Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula

06	0700AST			0	0	High Wind (G43)
	2100AST					

A modified arctic front passing through Kodiak Island and the Kenai Peninsula brought gusty northwest winds to many areas. ASOS adjusted winds reached 50 mph at the Kodiak site from 11 am ADT to 1 pm ADT Thursday. ASOS adjusted winds reached 50 mph also at the Seward site between 11 am ADT and noon ADT Thursday.

AKZ015>017-019-

Cook Inlet - Bristol Bay Coastal - Central Gulf Coast - Western Alaska Peninsula

09	0300AST			0	0	High Wind (G71)
11	0300AST					

A moderate low deepened to 979 mbs about 300 miles south of King Salmon Sunday, drifting northeast and beginning to slowly weaken thereafter.

Storm Data and Unusual Weather Phenomena

May 1999

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

ALASKA, Southern

On the back side of the low, brisk north to northwest winds were observed along the Alaska Peninsula. Adjusted ASOS/AWOS gusts above 40 mph were reported at Cold Bay Sunday afternoon through Monday morning, reaching 52 mph Sunday around 10 pm ADT and several times between 1 am and 5 am ADT Monday.

The weather front associated with this low was preceded by brisk east to northeast winds. The front extended in an eastward arc from the low early Sunday and by 4am ADT Monday extended in an arc from near Chignik (along the southeast side of the Alaska Peninsula) to Kodiak then east southeast.

Easterly winds ahead of the front reached:

AWOS adjusted 50 mph at Chignik (zone 19) Sunday morning between 10 am ADT and noon ADT. Frontal passage occurred at around 10 pm ADT Sunday dropping winds to less than 10 mph.

In zone 16 (Bristol Bay) winds locally reached ASOS adjusted values of 50 mph at Iliamna between 10 pm ADT Sunday and 2 am ADT Monday.

Across zone 18 (Kodiak Island) adjusted ASOS gusts Sunday reached 63 mph between 4 pm ADT and 6 pm ADT. Frontal passage about 3 am ADT Monday brought a rapid decrease in wind. Additionally, heavy rains were reported around Kodiak, with 1.04 inches reported from 10 am ADT Sunday to 10 am ADT Monday.

In zone 15 (Cook Inlet), local adjusted wind gusts at the Portage ASOS were above 40 mph from Sunday at about noon ADT through Monday afternoon. Highest gusts Sunday reached adjusted speeds of 59 mph between 10 pm ADT and midnight ADT. Gusts continued through Monday, peaking at 82 mph between 4 am ADT and 6 am ADT. Heavy rain, first starting as snow, also accompanied the strong winds with 3/4 inch in a 12 hour period ending at 10 am ADT Monday.

Across the southern part of zone 17 (Central North Gulf Coast), adjusted ASOS gusts above 40 mph began at Middleton Island late Sunday, peaking at 59 mph Monday morning.

AKZ020

Aleutian Islands

10	1900AST	0	0	High Wind (G55)
11	0500AST			

A moderate front travelling east across the Aleutians Monday and Tuesday morning moved through the Alaska Peninsula Tuesday afternoon. The front was preceded by brisk southerly winds across the Aleutians.

Adjusted ASOS gusts at Adak reached 63 mph from the southwest late Monday through early Tuesday.

AKZ019>021

Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

12	1800AST	0	0	High Wind (G63)
14	1100AST			

A strong, 969 mb low in the North Pacific moved to within 200 miles south of Amchitka Island in the central Aleutians early Thursday. The low then began to slowly drift east, weakening significantly about 180 miles southeast of Adak late Friday afternoon. A moderate to strong front preceded the low, moving into the central Aleutians late Thursday morning, then elongating north and eastward into the southern Bering Sea and extreme northeast Pacific. Brisk easterly winds preceded the front across the central and eastern Aleutians, the western Alaska Peninsula and the Pribilofs.

Across the Aleutians, strong easterly winds gusting in excess of 55 mph were reported from Wednesday evening through Thursday morning. Adjusted ASOS gusts reached 63 mph at Adak between 7 pm ADT and 8 pm ADT Wednesday. At Dutch Harbor, wind gusts of 58 mph or higher were reported from Thursday afternoon into Friday morning. Gusts from the east southeast, locally influenced by terrain, reached 73 mph around the Dutch Harbor airport between 6 am ADT and 10 am ADT Thursday. The NOAA research ship "Miller Freeman", in the southcentral Bering Sea, reported pre-frontal, sustained winds of 46 mph just before midnight ADT Wednesday and 47 mph on their 10 am ADT observation Thursday.

Across the Pribilofs, pre-frontal, adjusted ASOS gusts as high as 58 mph were reported at Saint George Island Thursday morning between 9am ADT and noon ADT.

Along the Alaska Peninsula, Cold Bay reached an ASOS adjusted 67 mph from the southeast at 12:14am ADT Friday.

Cook Inlet

30 NE Anchorage

19	0900AST	0	0	25K	Wild/Forest Fire
	2359AST				

Fire began with a private property owner burning a brush pile. Brisk northeast winds, brought on by a vigorous and very dry arctic front passing southwestward through the area, fanned the flames west and southwestward. Behind the front, extremely dry air resulted in humidities approaching as low as 10%. Recent spruce bark beetle killed trees resulted in plenty of fuel for the fire. Damage was confined to open areas.

Storm Data and Unusual Weather Phenomena

May 1999

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

ALASKA, Southern

Susitna Valley

3 E Palmer	19	0900AST 2359AST			0	0	25K		Wild/Forest Fire
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Fire began when an old controlled burn site rekindled in mid afternoon. Brisk northeast winds, brought on by a vigorous and very dry arctic front passing southwestward across the area, fanned the flames west and southwestward. Behind the front, extremely dry air resulted in humidities approaching as low as 10%. Recent spruce bark beetle killed trees resulted in plenty of fuel for the fire. Damage was confined to open areas.

AKZ014

Copper River Basin

Countywide	25	0000AST			0	0			Heavy Snow
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Copper River

Countywide	25	0000AST 2359AST			0	0			Heavy Rain
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Much of the Copper River Basin experienced an unusual late May precipitation event. A weakening surface/upper air low drifted north through the eastern Gulf of Alaska Monday. Very cold air aloft, associated with this feature, preceded the center into the upper Copper River Basin and even the upper Tanana Valley (WSFO Fairbanks area). As the original upper center died in the northeast Gulf of Alaska, a new center formed near the Alaska-Canadian border. Warm air at lower levels and increasingly colder air aloft caused rapid de-stabilization of the airmass across the southeast Alaska mainland and thunderstorms converged into a very wet, 150 mile wide band. Snow was also reported at elevations as low as about 1500 feet in the Copper River Basin...with Gulkana airport picking up over 3 inches and other, higher elevations recording nearly a foot of new snow. Liquid precipitation amounts at the Gulkana ASOS were very close to 1.5 inches for roughly a 19 hour period from just after midnight to just after 7pm Tuesday. Unofficial reports of 2.5 inches of rain were received near the Alaska Range boundary of the Anchorage and Fairbanks Forecast office area of responsibility.

AKZ015-017

Cook Inlet - Central Gulf Coast

29	0000AST				0	0			High Wind (G68)
30	1200AST								

A moderate frontal system approaching the Kenai Peninsula and Prince William Sound from the south southwest was preceded by brisk easterly winds in several areas.

In the Central Gulf Coast area, at the entrance to Prince William Sound, adjusted ASOS wind gusts reached 78 mph at Middleton Island just prior to frontal passage around 10 pm ADT Saturday. Brisk easterly winds were also reported at Cordova, through Prince William Sound and Passage Canal.

In the Cook Inlet area, locally brisk easterly winds were also reported through Turnagain Arm and along the Anchorage Upper Hillside. Wind gusts reached an adjusted 78 mph at the Portage ASOS Saturday.

AKZ018

Kodiak Island-Eastern Alaska Peninsula

30	0000AST 2359AST				0	0			High Wind (G69)
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A fishing vessel near Dry Bay, on the southwest side of Shelikof Strait, reported winds to 80 mph and 40 foot seas. The captain was having great difficulty controlling the vessel and was prepared to abandon ship with the 3 crew members. A NOAA research vessel, the Miller Freeman, about 25 miles away reported winds of 20 knots and seas of 18 ft, however. The Dry Bay area is adjacent to Wide Bay, a noted 'blow hole' out of the Alaska Peninsula for strong northwest winds in seemingly benign pressure patterns.

AMERICAN SAMOA

ASZ002

Tutuila

12	1800SST				0	0			Flood
13	0000SST								

An active trough of low pressure over Samoa produced heavy rain, which caused flooding and landslides across Tutuila. Some homes were flooded with the significant rise of water. Broken trees and gravel washed off nearby mountains, were blocking roads at some villages, like Nu'uuli. The rainfall total for this event was 7.78 inches.

ASZ001>004

Swains - Tutuila - Manu'A - Rose

12	1800SST				0	0			High Surf
15	1400SST								

An intense low south of the islands produced surf of 8 to 12 feet along south shores.

ARIZONA, Central and Northeast

AZZ017

White Mountains

03	1600MST 1603MST				0	0	0	0	High Wind (G68)
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A southerly wind gust to 75 mph was measured at the Eager Airport.

Storm Data and Unusual Weather Phenomena

May 1999

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

NONE REPORTED.

ARIZONA, South

NONE REPORTED.

ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Johnson County

Coal Hill	04	0500CST			0	0			Hail (0.75)
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Newton County

Parthenon	04	1535CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down a barn at Parthenon.

Pike County

Kirby	04	1545CST			0	0			Hail (0.88)
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Clark County

Amity	04	1600CST			0	0			Hail (0.75)
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Hot Spring

Bonnerdale	04	1605CST			0	0			Hail (0.88)
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Garland County

2 W Hot Spgs	04	1615CST			0	0			Hail (1.75)
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Johnson County

7 S Hagarville	04	1615CST	0.1	25	0	0			Tornado (F0)
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A weak tornado touched down briefly around 7 miles south of Hagarville in Johnson County. The tornado caused no damage.

Polk County

Nunley	04	1620CST			0	0			Hail (1.75)
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Pope County

Augsburg	04	1620CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees at Augsburg.

Clark County

Arkadelphia	04	1635CST			0	0			Hail (0.75)
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Boone County

Harrison	04	1700CST			0	0			Flash Flood
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Excessive rain flooded roads in Harrison, with water flowing into a few homes. Several cars were swamped as well.

Clark County

2 SE Arkadelphia	04	1713CST	0.1	25	0	0			Tornado (F0)
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A weak tornado touched down briefly in Clark County about 2 miles southeast of Arkadelphia. The tornado caused no damage.

Newton County

Countywide	04	1730CST			0	0			Flash Flood
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Excessive rain flooded many low water crossings in Newton County.

Johnson County

Clarksville	04	1730CST			0	0			Flash Flood
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Excessive rain covered Highway 123 with one to two feet of water just east of Clarksville.

Johnson County

Lamar	04	1730CST			0	0			Flash Flood
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Excessive rain covered several roads with water at Lamar.

Baxter County

Gamaliel	04	1755CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down some power lines at Gamaliel.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Conway	04	1800CST			0	0			Lightning
Lightning caused some damage to an attic of a home near Conway, but a fire was not started.									
Marion County									
Fairview	04	1830CST			0	0			Flash Flood
Excessive rain covered Highway 178 with water near Fairview.									
Ouachita County									
Elliott	04	1840CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees in Elliott.									
Baxter County									
Mountain Home	04	1900CST			0	0			Flash Flood
Excessive rain covered several roads with water around Mountain Home.									
Calhoun County									
Woodberry	04	1915CST			0	0			Hail (0.75)
White County									
3 S Searcy	04	1928CST			0	0			Hail (0.75)
Drew County									
Lacey	05	0636CST			0	0			Hail (1.75)
Arkansas County									
1 N Stuttgart	05	1310CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down 8 to 10 power poles 1 mile north of Stuttgart.									
Jackson County									
Tupelo	05	1333CST			0	0			Hail (0.75)
Ouachita County									
Elliott	05	1354CST			0	0			Hail (0.75)
Ouachita County									
Kirkland	05	1359CST			0	0			Hail (0.75)
Ouachita County									
Frenchport	05	1430CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees and power lines near Frenchport.									
Ouachita County									
Camden	05	1430CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees and power lines at Camden.									
Cleveland County									
Rison	05	1500CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees and power lines and caused some roof damage at Rison.									
Arkansas County									
Stuttgart	05	1535CST			0	0			Hail (0.75)
Cleveland County									
Rison	05	1605CST			0	0			Flash Flood
Excessive rain covered a few roads with water in Rison.									
Arkansas County									
De Witt	05	1610CST			0	0			Flash Flood
Excessive rain flooded several roads in DeWitt.									
Johnson County									
Clarksville	12	0130CST			0	0			Flash Flood
Excessive rain flooded roads in Clarksville, with water flowing into a store.									
Searcy County									
Morning Star	12	1713CST			0	0			Hail (1.75)
Independence									
Desha	12	1905CST			0	0			Hail (0.88)
Baxter County									
3 N Mountain Home	15	1220CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>ARKANSAS, Central and North Central</u>									
Sharp County									
Cave City	15	1455CST			0	0			Hail (0.88)
Boone County									
Harrison	17	0330CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees in Harrison.									
Boone County									
2 S Omaha	17	1040CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees and power lines 2 miles south of Omaha.									
Boone County									
1 NW Harrison	17	1045CST			0	0			Hail (1.00)
Marion County									
Bull Shoals	17	1130CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees at Bull Shoals.									
Baxter County									
Three Brothers	17	1130CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees onto County Road 16 near Three Brothers.									
Johnson County									
Oark	17	1215CST			0	0			Hail (1.00)
Baxter County									
Bigflat	17	1218CST			0	0			Hail (0.75)
Baxter County									
3 N Bigflat	17	1220CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a tree 3 miles north of Big Flat.									
Stone County									
7 NE Fifty Six	17	1235CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees about 7 miles northeast of Fifty Six.									
Izard County									
Calico Rock	17	1245CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked over a few trees at Calico Rock.									
Sharp County									
Cave City	17	1318CST			0	0			Hail (0.75)
Johnson County									
Knoxville	17	1519CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some large tree limbs at Knoxville.									
Yell County									
8 W Dardanelle	17	1525CST			0	0			Hail (0.75)
Pope County									
Russellville	17	1530CST			0	0			Hail (1.00)
Pope County									
Russellville	17	1530CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage in Russellville.									
Pope County									
Hector	17	1530CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few power lines on Highway 27 at Hector.									
Pope County									
Russellville	17	1600CST			0	0			Flash Flood
Excessive rain in a short period of time caused some flooding on several roads in Russellville.									
Perry County									
Perryville	17	1605CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees near Perryville.									
Faulkner County									
Wooster	17	1612CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees at Wooster.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>ARKANSAS, Central and North Central</u>									
Faulkner County									
Greenbrier	17	1615CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some trees at Greenbrier.						
Faulkner County									
Conway	17	1617CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down several trees at Conway. A couple of trees fell on houses causing some roof damage.						
Saline County									
2 SW Benton	17	1619CST			0	0			Hail (1.00)
Saline County									
Benton	17	1624CST			0	0			Hail (1.00)
Saline County									
1 N Benton	17	1630CST			0	0			Hail (1.75)
Saline County									
2 NE Benton	17	1632CST			0	0			Hail (1.00)
White County									
Rose Bud	17	1639CST			0	0			Thunderstorm Wind (G61)
			Thunderstorm winds estimated around 70 mph knocked down some trees at Rose Bud.						
Cleburne County									
Hopewell	17	1644CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some trees and power lines at Hopewell.						
Pulaski County									
3 E Alexander	17	1645CST			0	0			Hail (1.00)
Cleburne County									
Heber Spgs	17	1650CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down several trees and power lines at Heber Springs.						
Saline County									
3 N Bryant	17	1655CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds were estimated around 60 mph about 3 miles north of Bryant.						
Saline County									
Owensville	17	1655CST			0	0			Hail (0.75)
Pulaski County									
Wrightsville	17	1655CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down a few trees at Wrightsville.						
Saline County									
Bryant	17	1658CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds were estimated around 60 mph at Bryant.						
Van Buren County									
Damascus	17	1700CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down a few trees at Damascus.						
Pulaski County									
3 SW Macon	17	1702CST			0	0			Hail (0.75)
Pulaski County									
3 SW Macon	17	1702CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds were estimated around 60 mph about 3 miles southwest of Macon.						
Pulaski County									
Jacksonville	17	1705CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down some trees in Jacksonville.						
White County									
El Paso	17	1705CST			0	0			Hail (1.00)
Garland County									
2 W Hot Spgs	17	1710CST			0	0			Hail (0.75)
			Dime size hail lasted up to 10 minutes about 2 miles west of Hot Springs.						
White County									
5 SW Searcy	17	1714CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
ARKANSAS, Central and North Central									
White County									
Searcy	17	1715CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a few trees and power lines at Searcy.
Hot Spring									
Bismarck	17	1715CST			0	0			Hail (0.75)
Grant County									
Sheridan	17	1715CST			0	0			Hail (1.00)
Jackson County									
Denmark	17	1715CST			0	0			Hail (1.00)
Lonoke County									
Lonoke	17	1715CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees at Lonoke.
Independence									
Pleasant Plains	17	1715CST			0	0			Hail (0.75)
Grant County									
Sheridan	17	1730CST			0	0			Hail (1.00)
Clark County									
1 N Arkadelphia	17	1730CST			0	0			Hail (0.75)
White County									
Bald Knob	17	1744CST			0	0			Hail (1.00)
Dallas County									
Ivan	17	1745CST			0	0			Hail (0.75)
White County									
Bald Knob	17	1745CST			0	0			Lightning
									Lightning caused a brief fire at a downtown building in Bald Knob.
Prairie County									
De Valls Bluff	17	1750CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees at DeValls Bluff.
Clark County									
Joan	17	1755CST			0	0			Hail (1.25)
Jefferson County									
Pine Bluff	17	1800CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a few large tree limbs at Pine Bluff.
Jefferson County									
Wabaseka	17	1800CST			0	0			Hail (0.75)
Woodruff County									
1 S Howell	17	1800CST			0	0			Hail (0.75)
Monroe County									
Brinkley	17	1805CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds tore a roof from a house in Brinkley, with a roof and several cars damaged at a local dealership. Trees were also downed in and near town.
Woodruff County									
Mc Crory	17	1807CST			0	0			Hail (0.75)
Arkansas County									
Stuttgart	17	1810CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down several large tree limbs at Stuttgart, with one limb on a police car. Also, a few power lines were downed in town.
Jefferson County									
5 SE Pine Bluff	17	1820CST			0	0			Hail (1.00)
Cleveland County									
Rison	17	1825CST			0	0			Hail (0.75)
Arkansas County									
10 SW De Witt	17	1840CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a tree about 10 miles southwest of DeWitt.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ARKANSAS, Central and North Central</u>									
Calhoun County									
Thornton	17	1850CST			0	0			Hail (0.75)
Cleveland County									
7 N Calmer	17	1850CST			0	0			Hail (0.88)
Calhoun County									
3 NW Woodberry	17	1900CST			0	0			Hail (0.75)
Cleveland County									
Countywide	17	1930CST			0	0			Flash Flood
Excessive rain caused flooding on several roads in Cleveland County.									
Drew County									
Monticello	17	2000CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked a tree down onto a car in Monticello.									
Pulaski County									
Sherwood	21	0930CST			0	0			Lightning
Lightning struck a radio tower at the Police Department in Sherwood, with communications shut down briefly. Several modem wires were damaged.									
Scott County									
Needmore	22	1540CST			0	0			Hail (0.75)
Newton County									
Lurton	22	1640CST			0	0			Hail (0.75)
Yell County									
Aly	22	1700CST			0	0			Hail (0.75)
Cleveland County									
5 NE Rison	22	1715CST			0	0			Hail (1.75)
Hail up to golfball size caused some roof damage about 5 miles northeast of Rison.									
Grant County									
Prattville	22	1730CST			0	0			Hail (0.75)
Scott County									
3 S Bates	22	1740CST			0	0			Hail (1.00)
Searcy County									
Pindall	22	1800CST			0	0			Hail (0.75)
Searcy County									
St Joe	22	1810CST			0	0			Hail (0.75)
Scott County									
8 N Waldron	22	1820CST			0	0			Hail (0.88)
Logan County									
4 W Paris	22	1820CST			0	0			Hail (1.75)
Johnson County									
3 SE Lamar	22	1830CST			0	0			Hail (1.00)
Yell County									
Dardanelle	22	1830CST			0	0			Hail (1.75)
Cleveland County									
Kingsland	22	1830CST			0	0			Hail (0.88)
Saline County									
Sardis	22	1840CST			0	0			Hail (1.00)
Pope County									
London	22	1850CST			0	0			Hail (1.75)
Logan County									
Booneville	22	1851CST			0	0			Hail (0.88)
Pope County									
Russellville	22	1900CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down numerous trees and power lines in Russellville.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Pope County									
Russellville	22	1900CST			0	0			Hail (1.00)
Yell County									
Dardanelle	22	1900CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees in and near Dardanelle.									
Pope County									
Atkins	22	1920CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down numerous trees and power lines in Atkins. There were dozens of damaged structures, with two homes uninhabitable after being crushed by fallen trees. Before severe weather hit, two police officers went to a local ball field to warn people of the approaching storm. The game in progress was quickly suspended by the umpire.									
Scott County									
10 W Waldron	22	1940CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees about 10 miles west of Waldron, with one tree on Highway 28.									
Conway County									
3 NE Solgohachia	22	1945CST			0	0			Hail (0.88)
Logan County									
Ione	22	1955CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees near Ione.									
Perry County									
Hollis	22	2002CST			0	0			Hail (0.75)
Scott County									
Waldron	22	2010CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees in Waldron.									
Faulkner County									
Greenbrier	22	2010CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees at Greenbrier.									
Dallas County									
Carthage	22	2015CST			0	0			Hail (1.75)
Dallas County									
Carthage	22	2015CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees in Carthage.									
Montgomery									
Pencil Bluff	22	2030CST			0	0			Hail (1.00)
Polk County									
Mena	22	2040CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees in Mena.									
Montgomery									
Washita	22	2040CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds were estimated around 60 mph at Washita.									
Garland County									
2 W Hot Spgs	22	2045CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few large tree limbs and power lines about 2 miles west of Hot Springs.									
Dallas County									
7 N Fordyce	22	2100CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees about 7 miles north of Fordyce.									
Lonoke County									
3 NW Lonoke	22	2100CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a couple of trees on or near Highway 89 about 3 miles northwest of Lonoke.									
Polk County									
Grannis	22	2115CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds up to 60 mph damaged a couple of barns near Grannis.									
Hot Spring									
Bonnerdale	22	2125CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some large tree limbs at Bonnerdale.									

Storm Data and Unusual Weather Phenomena

May 1999

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

ARKANSAS, Central and North Central

Pike County

7 N Murfreesboro 22 2135CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds blew down a few trees about 7 miles north of Murfreesboro.

Montgomery

Norman 22 2140CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds damaged a fence at a cemetery near Norman.

Clark County

8 NW Arkadelphia 22 2140CST 0 0 **Hail (0.75)**

Pulaski County

6 E Wrightsville 22 2140CST 0 0 **Hail (0.75)**

Prairie County

Hazen 22 2145CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds blew down a few large tree limbs at Hazen.

Clark County

2 S Arkadelphia 22 2153CST 0 0 **Hail (0.75)**

Clark County

2 E Arkadelphia 22 2153CST 0 0 **Hail (0.75)**

Clark County

Gum Spgs 22 2153CST 0 0 **Hail (0.75)**

Pike County

Delight 22 2155CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds knocked down a few trees in Delight, with one tree on a fence.

Clark County

Gurdon 22 2205CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds blew down some trees at Gurdon.

Clark County

Whelen Spgs 22 2220CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds knocked down a few trees at Whelen Springs, and also caused some roof damage.

Dallas County

Sparkman 22 2230CST 0 0 **Thunderstorm Wind (G50)**
Thunderstorm winds blew down some trees at Sparkman.

Ouachita County

Chidester 22 2240CST 0 0 **Hail (0.75)**

Arkansas County

Almyra 30 1254CST 0.1 25 0 0 **Tornado (F0)**
A weak tornado briefly touched down near Almyra in Arkansas County. The tornado caused no damage.

ARKANSAS, East

Poinsett County

3 N Harrisburg 05 1355CST 0 0 15K **Thunderstorm Wind (G50)**
1400CST
The roof of the Harrisburg Central School was damaged.

Craighead County

Lake City 05 1405CST 0 0 15K **Thunderstorm Wind**
One home was damaged. A few trees and power poles were also blown down.

Craighead County

Monette 05 1420CST 0 0 10K **Thunderstorm Wind**
1425CST
Several power lines and large trees were blown down.

Mississippi County

Gosnell 05 1430CST 0 0 5K **Thunderstorm Wind (G53)**
1435CST

Lee County

Brickeys 05 1615CST 0 0 5K **Thunderstorm Wind**
1620CST
A few power lines were knocked down.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>ARKANSAS, East</u>									
Crittenden County									
Edmondson to 3 NE Horseshoe Lake	05	1710CST 1715CST			0	0	5K		Thunderstorm Wind
			Some trees were blown down.						
Randolph County									
Countywide	17	1320CST 1330CST			0	0	10K		Thunderstorm Wind
			Several trees and power lines were blown down across the county.						
Mississippi County									
Blytheville	17	1449CST 1455CST			0	0	1K		Thunderstorm Wind (G53)
Craighead County									
Monette	17	1455CST 1500CST			0	0	0.10K		Hail (1.00)
Crittenden County									
Crawfordsville	17	1950CST 1955CST			0	0	5K		Thunderstorm Wind (G63)
			A few trees were knocked down.						
Crittenden County									
Crawfordsville	17	1955CST 2000CST			0	0	10K		Lightning
			A house was damaged by a fire started by lightning.						
<u>ARKANSAS, Northwest</u>									
ARZ019-029 Crawford - Sebastian									
	01	0000CST			0	0			Flood
	14	1900CST							
			The Arkansas River at Van Buren started the month of May above its flood stage of 22 feet following a crest of 24.0 feet on April 28. The river remained above flood stage until 800 PM CDT on May 14.						
Benton County									
Siloam Spgs	04	0200CST			0	0			Thunderstorm Wind (G52)
Benton County									
Centerton	04	0230CST			0	0	15K		Thunderstorm Wind
			Small outbuildings were destroyed, trees were blown down, and pull-behind trailers were either damaged or moved.						
Washington									
Prairie Grove	04	0820CST			0	0			Thunderstorm Wind (G52)
Carroll County									
Beaver	04	0900CST			0	0	0.10K		Thunderstorm Wind
			Several large tree limbs were blown down.						
Madison County									
Clifty	04	0915CST			0	0	0.10K		Thunderstorm Wind
			Several large tree limbs were blown down.						
Benton County									
Highfill	04	1135CST			0	1			Lightning
			A man was injured when lightning struck a company trailer that he was unloading at the Northwest Arkansas Regional Airport.						
Crawford County									
6 NW Natural Dam to 8 NNW Natural Dam	04	1216CST 1220CST	3	175	0	0	3K		Tornado (F3)

A significant long-track tornado first developed 4 miles west of Short, OK, moving northeast to about 7 miles southwest of Fayetteville, AR. This tornado reached its peak strength as an F3 tornado as it clipped extreme southeast Adair County, OK. This tornado then clipped extreme northwest Crawford County, passing through an unpopulated, forested area in the Ozark National Forest. An aerial survey by NWS personnel just west of the Oklahoma/Arkansas state line west of Natural Dam revealed that every tree in a hardwood forest was completely leveled. Property damage listed with this entry reflects tree damage sustained in Crawford County, while the F-rating reflects the tornado's peak strength in Adair County, OK.

Storm Data and Unusual Weather Phenomena

May 1999

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

thunderstorms formed in eastern Oklahoma that evening. While most of the storms were confined to eastern Oklahoma, one thunderstorm moved eastward through the Arkansas River valley and into western Arkansas. This storm mainly produced marginally severe winds late in the evening.

ARZ019-029

Crawford - Sebastian

16	0200CST				0	0			Flood
20	2100CST								

The Arkansas River at Van Buren rose above its flood stage of 22 feet at 300 AM CDT on May 16. The river crested at a level of 24.0 feet at 200 PM CDT on May 18 before falling back below flood stage at 1000 PM CDT on May 20.

Benton County

Gentry

17	0200CST				0	0	3K		Thunderstorm Wind
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Around 300 AM CDT in Gentry, winds left uprooted trees, downed power lines, and blocked roads.

Benton County

Siloam Spgs

17	0200CST				0	0	15K		Thunderstorm Wind
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Around 300 AM CDT in Siloam Springs, a 60-70 foot tall tree blew onto a parked motor home on Oak Crest Drive.

Crawford County

Natural Dam

17	0215CST				0	0	0.50K		Thunderstorm Wind
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A church sign was blown down.

Washington

Harmon to Tontitown

17	0215CST 0220CST				0	0	10K		Thunderstorm Wind
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High winds uprooted several trees and damaged power lines in Harmon around 315 AM CDT. The wind snapped nine poles and damaged at least three transformers. In Tontitown, around 320 AM CDT, a restaurant had its awning blown off, and a tree fell onto a mobile home. Several other trees were blown down in Tontitown.

Benton County

Gravette

17	0220CST				0	0	6K		Thunderstorm Wind
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A U-Haul trailer was blown over, and power lines were blown down in Gravette.

Washington

Cincinnati

17	0225CST				0	0	0.60K		Thunderstorm Wind
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Several large trees were uprooted, and many large tree limbs were blown down.

Washington

Prairie Grove

17	0225CST				0	0	0.50K		Thunderstorm Wind
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Trees were blown down in Prairie Grove.

Benton County

Highfill

17	0230CST				0	0	60K		Thunderstorm Wind
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High winds blew over an 84,000-square-foot airplane hangar under construction at the Northwest Arkansas Regional Airport. There was also minor damage to an existing hangar at the airport. The ASOS at the airport measured a peak wind gust of 46 knots (53 mph).

Washington

Fayetteville

17	0230CST				0	0	20K		Thunderstorm Wind
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High winds blew the roof off of a clothing store in the 2300 block of College Avenue in Fayetteville. The ASOS at the Fayetteville Regional Airport (Drake Field) measured a peak wind gust of 47 knots (54 mph).

Benton County

Rogers

17	0240CST				0	0	5K		Thunderstorm Wind
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At least a half-dozen trees were blown down in Rogers. County road crews had to clear at least 50 trees and tree limbs that were blown into roads throughout Benton County.

Washington

Elkins

17	0245CST				0	0	0.50K		Thunderstorm Wind
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Trees and tree limbs were blown down near Elkins.

Benton County

Wareagle

17	0247CST				0	0	0.50K		Thunderstorm Wind
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Several trees were blown down in War Eagle.

Franklin County

Fern

17	0253CST				0	0	0.50K		Thunderstorm Wind
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Trees were blown down across highways in Fern.

Carroll County

Eureka Spgs

17	0257CST				0	0	2K		Thunderstorm Wind
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Trees and power lines were blown down in Eureka Springs.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
ARKANSAS, Northwest										
Carroll County										
Grandview	17	0303CST			0	0	1.5K		Thunderstorm Wind	Trees were blown down over a fence in Grandview.
Madison County										
1 N Clifty	17	0305CST			0	0	2K		Thunderstorm Wind	Winds toppled a large tree north of Clifty into a large power line, knocking out power to about 4,500 electric customers.
Madison County										
5 N Huntsville to Huntsville	17	0305CST			0	0	1K		Thunderstorm Wind	Trees were blown down across highways in the Huntsville area. Several trees were also blown down in Withrow Springs State Park, 5 miles north of Huntsville.
Carroll County										
Berryville	17	0325CST			0	0	3K		Thunderstorm Wind	There were numerous reports of trees across roadways throughout Carroll County.
Washington										
3 SW Farmington	17	0959CST	0.5	50	0	0	0.50K		Tornado (F0)	There was a brief tornado touchdown in a rural area southwest of Farmington. Damage was limited to trees.
Washington										
Fayetteville	17	1000CST			0	0	10K		Thunderstorm Wind	Siding was blown off several houses in Fayetteville. Tree limbs were also blown down.
Madison County										
8 NE Forum	17	1007CST			0	0	0.50K		Thunderstorm Wind	Trees were blown down near the Ozark Science Center.
Washington										
Elkins	17	1010CST			0	0	0.50K		Thunderstorm Wind	Trees and tree limbs were blown down in Elkins.
Crawford County										
Van Buren	17	1015CST			0	0	0.10K		Thunderstorm Wind	Tree limbs were blown down in Van Buren.
Carroll County										
8 NE Green Forest	17	1030CST			0	0	0.10K		Thunderstorm Wind	Several large tree limbs were blown down northeast of Green Forest.
Benton County										
Rogers	17	1051CST			0	0	1K		Thunderstorm Wind	A tree was blown onto power lines near 14th and West Oak Streets in Rogers, knocking out power to 2,000 electric customers.
Crawford County										
2 N Alma	17	1130CST			0	0	50K		Lightning	A bolt of lightning knocked the door and several bricks off of a house north of Alma. The bolt ultimately lit fire to and destroyed the house. The house was located in the 7500 block of Mote Road off of US Hwy 71 north of Alma.
Sebastian County										
Countywide	17	1420CST 1800CST			0	0	10K		Flash Flood	Flood waters seeped into the basement of the Greenwood city hall around 325 PM CDT. High water forced the closing of AR Hwy 60 east of AR Hwy 252 around 645 PM CDT. Several streets in Fort Smith were closed by high water around 500 PM CDT. The northeastern part of downtown Fort Smith was especially hard-hit by high water, where Phoenix Avenue and the Jenny Lind Road intersection nearly had to be closed.
Franklin County										
Branch	17	1438CST			0	0			Hail (0.75)	
Franklin County										
South Portion	17	1600CST 1700CST			0	0	10K		Flash Flood	A bridge washed out on Chaffee Road in Charleston when water covered the road to four feet deep.
Madison County										
Huntsville	17	1700CST			0	0			Hail (1.50)	A large bow echo, a radar signature associated with high winds, moved out of eastern Oklahoma and across northwest Arkansas early on the morning of May 17. Indeed, this line of storms produced widespread wind gusts strong enough to knock down trees and tree branches. By late morning, scattered thunderstorms re-developed across northwest Arkansas, one of which showed strong rotation

Storm Data and Unusual Weather Phenomena

May 1999

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

ARKANSAS, Northwest

and produced a brief tornado touchdown in Washington County. By mid-afternoon, an outflow boundary established itself along the Arkansas River valley and acted as a focus for more thunderstorm development. Training of thunderstorm cells along the outflow boundary led to heavy rainfall, though there were some marginally severe thunderstorms that developed along the outflow boundary.

Washington

Fayetteville	21	0430CST			0	0	0.50K		Thunderstorm Wind (G52)
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Numerous large tree branches were blown down in Fayetteville.

Sebastian County

Ft Smith to Greenwood	21	0730CST 0800CST			0	0			Flash Flood
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There was street flooding in Fort Smith and Greenwood.

A line of thunderstorms moved out of eastern Oklahoma and into northwest Arkansas during the early morning of May 21. This line of storms was responsible for producing strong winds in Fayetteville. Later in the morning, the line became stationary in Sebastian County, causing localized flooding there.

ARZ019-029

Crawford - Sebastian

21	1800CST				0	0			Flood
31	2359CST								

The Arkansas River at Van Buren rose above its flood stage of 22 feet at 700 PM CDT on May 21. The river crested at a level of 23.8 feet at Noon CDT on May 24 before falling back below flood stage at 300 AM CDT on June 1.

Benton County

Siloam Spgs	22	1500CST			0	0			Hail (0.75)
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Washington

Prairie Grove	22	1613CST			0	0			Hail (0.75)
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Washington

Springdale	22	1630CST			0	0			Hail (1.00)
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Madison County

2 W Japton	22	1700CST			0	0			Hail (0.75)
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Crawford County

Natural Dam	22	1740CST			0	0			Hail (1.00)
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Franklin County

2 N Ozark to Altus	22	1750CST			0	0			Hail (1.00)
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There were two reports of quarter-sized hail at the same time...the first from near AR Hwy 23 and I-40, the second from in Altus.

Sebastian County

Mansfield	22	1832CST			0	0			Hail (0.75)
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Scattered severe thunderstorms formed along a slow-moving cold front on the afternoon of May 22. Most thunderstorms that formed moved slowly, though the severe weather emphasis shifted south during the afternoon and evening as the front moved south. These severe thunderstorms produced hail to the size of quarters.

Carroll County

Eureka Spgs	23	0215CST			0	0	0.10K		Thunderstorm Wind
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A few large tree limbs were blown down in Eureka Springs.

Benton County

5 E Lowell	23	0225CST			0	0	0.50K		Thunderstorm Wind
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Several trees were blown down east of Lowell.

Madison County

Clifty	23	0225CST			0	0	0.10K		Thunderstorm Wind
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A few large tree limbs were blown down in Clifty.

Washington

Springdale	23	0230CST			0	0	0.50K		Thunderstorm Wind
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Several trees were blown down in Springdale.

A nocturnal bow-echo MCS moved south out of Kansas and Missouri early on the morning of May 23. These storms were gradually weakening as they moved southeast and dropped below severe levels by the time they moved south of the Boston Mountains. The primary threat from these storms were marginally severe wind gusts.

Benton County

Siloam Spgs	31	0600CST			0	0	0.10K		Thunderstorm Wind
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Tree limbs were blown down in Siloam Springs.

Washington

2 N Odell	31	0640CST			0	0			Thunderstorm Wind (G52)
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Storm Data and Unusual Weather Phenomena

May 1999

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

A nocturnal bow-echo MCS moved southward across eastern Oklahoma and far western Arkansas early on the morning of May 31. These storms mainly produced marginally severe winds close to the Oklahoma border. The storms weakened as they moved south of the Boston Mountains.

ARKANSAS, Southeast

Chicot County

Lake Vlg 05 0731CST 0 0 **Hail (1.00)**

Chicot County

Eudora 05 1640CST 0 0 **Hail (0.88)**

Ashley County

Crossett 17 2140CST 0 0 20K **Thunderstorm Wind**

A couple of trees fell on a house.

ARKANSAS, Southwest

Little River

8.2 SW Wallace to
6.8 NW Wilton 04 1425CST
1456CST 19.1 75 0 0 **Tornado (F3)**

Damage path consisted of numerous snapped and fallen small trees. The damage path was in a wooded region away from any population. This tornado moved into Little River county from Bowie county, TX then continued into Sevier county, AR.

Sevier County

5.8 SW Falls Chapel
to
1.8 SSW Falls
Chapel 04 1456CST
1503CST 4.1 25 0 0 **Tornado (F3)**

Damage path consisted of a few small trees and twigs broken. The tornado rating in the county was only an F0 but the overall intensity was F3 in Bowie County, TX.

Howard County

Nashville 04 1520CST 0 0 **Hail (0.75)**

Miller County

2 N Fouke 04 1520CST 0 0 **Hail (0.75)**

Miller County

10 E Texarkana 04 1535CST 0 0 **Hail (0.75)**

Hempstead

3.2 E Patmos to
5.2 ENE Patmos 04 1604CST
1610CST 2.8 50 0 0 15K **Tornado (F1)**

Damage consisted of numerous snapped and fallen small trees. One barn was severely damaged and two chicken barns were destroyed.

Nevada County

4.4 SW Bodcaw to
3.1 W Bodcaw 04 1610CST
1614CST 2 50 0 0 **Tornado (F1)**

Damage was to snapped and fallen small trees.

Columbia County

3.5 E Taylor to
1.8 SW Macedonia 04 1715CST
1730CST 6.5 100 0 0 150K **Tornado (F2)**

A supercell developed under favourable atmospheric conditions. A partial roof was removed from a frame home. One mobile home was heavily damaged. Numerous trees were snapped or uprooted. Damage estimates include timber damage.

Columbia County

1.3 SE Magnolia to
1 W Village 04 1743CST
1805CST 9 100 0 0 600K **Tornado (F3)**

Two frame homes were demolished, several frame homes suffered roof damage, 1 church and 3 businesses suffered roof and frame damage. Many trees were snapped and uprooted. Damage estimates includes timber damage.

Union County

4 N Strong 05 0540CST 0 0 **Hail (1.00)**

Lafayette County

7 SE Bradley 05 1340CST 0 0 **Hail (1.00)**

Columbia County

1 S Taylor 05 1350CST 0 0 **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

May 1999

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

Howard County

3 N Nashville 22 2205CST 0 0 **Thunderstorm Wind (G65)**
Numerous trees down.

Hempstead

3 S Blevins 22 2220CST 0 0 **Thunderstorm Wind (G62)**
Trees down across Hwy 29.

Hempstead

Hope 22 2255CST 0 0 **Thunderstorm Wind (G53)**

Nevada County

1 S Rosston 22 2250CST 0 0 **Thunderstorm Wind (G57)**
Several large trees down.

Columbia County

10 NE Magnolia 22 2337CST 0 0 **Thunderstorm Wind (G58)**
Numerous trees down across Hwy 79.

Columbia County

1 S Magnolia 22 2355CST 0 0 **Thunderstorm Wind (G60)**
Numerous trees down across CR 7.

Columbia County

Magnolia 26 0505CST 0 0 **Lightning**
A 36 minute blackout was created from the lightning strike.

Miller County

2 W Garland 29 1650CST 0 0 **Thunderstorm Wind (G60)**
Numerous trees down.

CALIFORNIA, Extreme Southeast

CAZ033

Imperial County Except The Lower Colorado River Valley

03 1600MST 0 0 10K **Dust Storm**
Dense blowing dust along with strong winds lowered visibility over much of Imperial County. Numerous traffic accidents ensued and Interstate 8 was closed for several hours. At least two semi-tractor rigs were blown over.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

Nevada County

Truckee 24 1700PST 0 0 0 **Hail (1.00)**
Nevada County Sheriff reported "large" hail on Interstate 80 between Truckee and Donner Summit. Traffic was temporarily stopped. No confirmed reports of hail size other than Doppler Radar estimates exceeding 1.00 inch.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

CAZ024>025

Kern County Mountains - Kern County Desert

03 1530PST 0 0 **Wind Advisory**
04 0200PST

Strong pressure gradients brought steady wind of 39 knots by 1630 PDT with gusts to 51 knots as measured at China Lake Naval Weapons Test Center. Other desert locations had gusts to 40 knots at Mojave and North Edwards AFB during the late afternoon and evening hours of May 3rd. By 1800 PDT on May 3rd, winds at remote weather sensors in wind-funneled areas of the Kern Mountains reported gusts to 77 MPH (67 knots) at Jawbone Canyon and 48 MPH (55 knots) at Walker Pass. The Tehachapi Municipal Airport also reported a gust to 49 knots during this same time period.

Storm Data and Unusual Weather Phenomena

May 1999

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

Tulare County

25 ESE Johnsondale 23 1330PST 1600PST 0 0 Wild/Forest Fire

Lightning started fire in the Chimney Drainage in the far southeast portion of Tulare County. Fire reported by Kern County Fire Dispatch. The fire burned no structures with no reported loss other than the less than 1 acre area burned. Again, no cost reported/unknown.

Kern County

Lake Isabella to 26 1611PST 2000PST 0 0 Urban/Sml Stream Fld
2 E Lake Isabella

Thunderstorm activity was prevalent over the mountains of the Southern Sierra Nevada, especially in the vicinity of Lake Isabella in Kern County. A thunderstorm brought locally heavy rain to Onyx, 14 miles east of Lake Isabella, by 1526 PDT but no reports of problems. However, heavy rain in a thunderstorm at 1711 PDT brought local flooding to areas just south of the town of Lake Isabella.

CALIFORNIA, Southeast

NONE REPORTED.

CALIFORNIA, Southwest

CAZ055-058-060- San Bernardino County Mountains - San Diego County Mountains - Apple And Yucca Valleys -
03 0800PST 0 0 150K High Wind (G65)
2100PST

Five miles east of Jacumaba, along Interstate 8, a semi tractor-trailer rig and a motorhome were blown over.

Orange County

3.5 W Newport 04 1440PST 1 0 Rip Currents
Beach

A 28 year old Massachusetts man swimming with some friends near the jetty at 28th Street, drowned after getting caught in a rip current.
M28IW

San Diego County

2 S Ocean Beach 16 1530PST 1 0 Rip Currents

A 22 year old student from Switzerland who went out in rough surf, got caught in a rip current off Sunset Cliffs Park near the end of Guizot Street and drowned.
M22IW

CALIFORNIA, Upper

CAZ011

Siskiyou County

07 1719PST 0 0 Extreme Cold
08 0744PST

See below

A Freeze Warning was issued for Siskiyou and Modoc counties. Only one station in Siskiyou county verified the warning.

Station	Normal Low	Observed Low	Departure
McCloud 35	18		-17

CAZ011

Siskiyou County

08 2045PST 0 0 Extreme Cold
09 0805PST

See below.

A Freeze Warning was issued for Siskiyou and Modoc counties. Two stations in Siskiyou County verified the warning, but none in Modoc County.

Station	Zone	Normal Low	Observed Low	Departure
McCloud CAZ011	35	19		-16
Yreka CAZ011	CAZ011	39	24	-15

CAZ011

Siskiyou County

10 0800PST 0 0 Extreme Cold

See below.

No Freeze Warning was issued for Siskiyou County this morning, but one station did meet the warning criteria.

Station	Zone	Normal Low	Observed Low	Departure
McCloud CAZ011	36	19		-17

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
COZ042-044-048-	Northeastern Weld County - Morgan County/Fort Morgan And Vicinity - Logan County/Sterling								
	06	0400MST 1200MST			0	0	0	0	High Wind (G60)
	High winds redeveloped over portions of the Northeast Plains. Peak wind gusts included: 69 mph (60 kts) 4 miles east of Haxtun, 63 mph (55 kts) at New Raymer, 62 mph (54 kts) at Fort Morgan and 60 mph (52 kts) at Crook.								
COZ032-034	Middle Park - Summit County/Mosquito Range/Indian Peaks								
	09	1700MST			0	0	0	0	Heavy Snow
	10	0500MST							
	Heavy snow developed in portions of the North Central Mountains and Middle Park. Silverthorne received 7 inches of new snow overnight, while William's Fork Dam registered 6 inches.								
Logan County									
8 ESE Fleming	13	1815MST			0	0			Hail (0.75)
Phillips County									
4 ESE Paoli	13	1815MST			0	0			Hail (0.75)
Phillips County									
Holyoke	13	1818MST			0	0			Hail (1.75)
Phillips County									
5 ESE Holyoke	13	1846MST			0	0			Hail (1.50)
Larimer County									
7 W Campion	14	1545MST			0	0	0	0	Dry Microburst
	A spotter at Carter Lake, 7 miles west of Campion, registered a peak wind gust to 58 mph (50 kts).								
Boulder County									
Boulder	15	1218MST			0	0	0	0	Lightning
	Lightning ignited a small fire in a three-story structure in Sunshine Canyon. The fire was quickly extinguished and caused only minor damage.								
Morgan County									
Orchard	15	1950MST			0	0			Hail (1.75)
Morgan County									
Goodrich	15	2000MST			0	0			Hail (1.75)
Morgan County									
20 NW Ft Morgan	15	2015MST			0	0			Hail (2.75)
Elbert County									
Kiowa	16	1440MST			0	0			Hail (0.75)
Elbert County									
5 SE Kiowa	16	1452MST			0	0			Hail (0.75)
Elbert County									
10 NE Matheson	16	1613MST			0	0			Hail (0.75)
Elbert County									
13 NNE Matheson	16	1615MST			0	0			Hail (1.25)
Lincoln County									
8 NW Genoa	16	1630MST			0	0			Hail (0.88)
Lincoln County									
2 NW Arriba	16	1650MST 1653MST	0.1	25	0	0			Tornado (F0)
	A tornado touched down briefly but did no damage.								
Larimer County									
4 N Ft Collins	21	1659MST			0	0			Thunderstorm Wind (G52)
Sedgwick County									
4 W Sedgwick	21	1845MST			0	0			Hail (1.00)
Sedgwick County									
5 S Sedgwick	21	1930MST			0	0			Hail (1.50)
Morgan County									
Wiggins	22	1420MST			0	0			Hail (2.00)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Weld County									
7 W Pierce	22	1452MST			0	0			Hail (1.50)
Washington									
8 N Lindon	22	1530MST			0	0			Hail (1.00)
Washington									
Anton	22	1555MST			0	0			Hail (1.75)
Arapahoe County									
11 WSW Byers	22	1602MST			0	0			Hail (1.00)
Washington									
10 SE Anton	22	1615MST			0	0			Hail (1.50)
Elbert County									
7 W Agate	22	1644MST			0	0			Hail (2.00)
Elbert County									
Agate	22	1647MST			0	0			Hail (2.00)
Denver County									
Denver	22	1726MST			0	0			Hail (0.88)
Adams County									
Aurora	22	1742MST			0	0			Hail (1.00)
Adams County									
4 E Watkins	22	1755MST			0	0			Hail (0.75)
Arapahoe County									
6 W Deer Trail	24	1227MST	0.1	25	0	0	0	0	Tornado (F0)
A small landspout touched down briefly but did no damage.									
Morgan County									
Snyder	27	1445MST 1600MST			0	0			Urban/Sml Stream Fld
Heavy rain and small hail caused minor flooding along State Highway 71, near Snyder, where up to 8 inches of water covered the roadway.									
Lincoln County									
1 E Hugo	28	1355MST			0	0			Hail (2.00)
Lincoln County									
Hugo	28	1358MST 1402MST			0	0			Hail (1.50)
Lincoln County									
11 S Hugo	28	1503MST			0	0			Hail (0.75)
Washington									
8 NNW Akron	29	1648MST			0	0			Hail (1.00)
Washington									
1 NW Akron	29	1717MST			0	0			Hail (1.00)
Washington									
8 NW Akron	29	1723MST			0	0			Hail (1.50)
Washington									
Akron	29	1725MST			0	0			Hail (1.25)
Washington									
Akron	29	1745MST			0	0			Hail (1.50)
Lincoln County									
20 NE Genoa	29	1750MST 1820MST			0	0			Hail (1.75)
Washington									
10 SE Lindon	29	1800MST			0	0			Hail (1.00)
Lincoln County									
10 N Limon	30	1510MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

Larimer County

12 NW Ft Collins 31 1305MST 0 0 Hail (1.00)

Larimer County

4 W Ft Collins 31 1335MST 0 0 Hail (1.00)

Weld County

5 S Roggen 31 1420MST 0 0 Hail (1.75)

Weld County

4 SE Roggen 31 1434MST 0 0 Hail (0.75)

Morgan County

9 S Wiggins 31 1435MST 0 0 Hail (1.00)

Lincoln County

8 SE Arriba 31 1531MST 0 0 Hail (0.75)

Washington

5 WNW Akron 31 1650MST 0.2 50 0 0 Tornado (F1)

A small tornado touched down briefly and tore the roof off an abandoned house.

Washington

5 WNW Akron 31 1658MST 0 0 Hail (1.00)

Lincoln County

3 NW Genoa to 4 NE Genoa 31 1745MST 7 100 0 0 Tornado (F2)

Lincoln County

6 NW Genoa to 8 NE Genoa 31 1747MST 7 200 0 0 4M Tornado (F3)

Two tornadoes touched down causing extensive damage north of Genoa. The first tornado, an F2, caused minor damage to a home, but substantial damage to trees in the area. The second tornado, an F3, destroyed 2 mobile homes and several grain bins. It also caused moderate damage to 2 framed houses. At one farm, several dogs that were boarded in kennels were killed. Several trees and dozens of power poles were also snapped, and a pickup truck was tossed over a quonset hut. Damage was estimated to be \$3-4 million.

Lincoln County

8 SSW Hugo 31 1830MST 0.1 25 0 0 0 0 Tornado (F0)

Two small tornadoes touched down briefly, but did no damage.

Lincoln County

8 SSE Hugo 31 1851MST 0.5 50 0 0 0 Tornado (F1)

A small tornado touched down and damaged several trees.

COLORADO, East Central

Yuma County

7 NNE Yuma 13 0645MST 0 0 Hail (0.75)

Yuma County

7 W Yuma 13 0655MST 0 0 Thunderstorm Wind (G60)

Storage Building Destroyed by Winds

Yuma County

6 NE Yuma 14 1518MST 0 0 Hail (0.88)

Yuma County

14 NW Wray 14 1540MST 0 0 Hail (1.75)

Yuma County

5 W Wray 14 1540MST 0.2 20 0 0 Tornado (F0)

Yuma County

3 E Idalia 14 1600MST 0 0 Thunderstorm Wind (G60)

Strong winds damaged irrigation sprinklers and storage building.

Yuma County

18 NNE Wray 14 1600MST 0 0 Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
		Local/ Standard			Killed	Injured	Property	Crops	
<u>COLORADO, East Central</u>									
Yuma County									
7 NW Wray	14	1608MST			0	0			Hail (1.00)
		Hail covered ground.							
Kit Carson									
4 NNW Flagler	16	1725MST	0.2	20	0	0			Tornado (F0)
Kit Carson									
Flagler	16	1740MST			0	0			Hail (0.88)
Yuma County									
5 N Wray	19	1420MST			0	0			Hail (0.75)
Cheyenne County									
16 NE Cheyenne Wells	19	1432MST			0	0			Hail (0.88)
Yuma County									
8 N Wray	19	1435MST			0	0			Hail (0.75)
Kit Carson									
10 S Burlington	19	1445MST			0	0			Hail (0.88)
Kit Carson									
3 N Burlington	22	1437MST			0	0			Hail (1.50)
Cheyenne County									
9 NNE Kit Carson	22	1450MST			0	0			Hail (0.88)
Cheyenne County									
13 NW Arapahoe	22	1452MST			0	0	2K		Thunderstorm Wind (G78)
		Strong winds broke 6 inch tree limbs and destroyed several farm buildings.							
Kit Carson									
12 SE Burlington	22	1502MST			0	0			Hail (1.00)
Kit Carson									
8 SE Burlington	22	1530MST			0	0			Hail (1.00)
Kit Carson									
16 NNW Seibert	22	1639MST			0	0			Thunderstorm Wind (G65)
Yuma County									
Joes	22	1644MST			0	0			Hail (0.75)
Yuma County									
Kirk	22	1653MST			0	0			Hail (0.88)
Kit Carson									
Vona	22	1710MST			0	0			Hail (1.75)
Cheyenne County									
Kit Carson	24	1706MST			0	0			Hail (0.88)
Cheyenne County									
Kit Carson	24	1727MST			0	0			Hail (1.75)
Kit Carson									
8 SSW Flagler	29	1812MST			0	0			Hail (0.75)
Kit Carson									
Stratton	30	1710MST			0	0			Hail (1.75)
Kit Carson									
5 S Seibert	31	1526MST			0	0			Hail (1.00)
Kit Carson									
10 S Vona	31	1621MST			0	0			Hail (1.75)
Yuma County									
5 NW Yuma	31	1804MST			0	0			Hail (1.00)
Kit Carson									
Flagler	31	1850MST			0	0			Hail (0.75)
Kit Carson									
10 NNW Flagler	31	1853MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Kit Carson									
5 S Seibert	31	1920MST			0	0			Hail (1.75)
Cheyenne County									
14 N Kit Carson	31	1945MST			0	0			Hail (1.75)
Cheyenne County									
9 NNE Kit Carson	31	2003MST			0	0			Hail (0.75)
<u>COLORADO, South Central and Southeast</u>									
COZ068-070>077- Western Fremont And Northern Custer Counties - Wet Mountains - Southern El Paso									
01		0000MST			0	0			Flood
05		1200MST							
<p>The most significant river flooding along the Arkansas River since at least 1965 was caused by widespread and persistent rainfall...especially along the eastern slopes of the southeast mountains. The heaviest rainfall occurred from late in the day on the 28th of April and persisted into the afternoon hours of April 30th. Widespread rainfall totals in excess of 8 inches was noted in 40 hours with some locations receiving in excess of 13 inches of rain in 48 hours. As stated in April Storm Data, the heavy rain event led to widespread river flooding...especially along the Arkansas River as well as the Fountain Creek watershed. By the morning of May 2nd portions of northern La Junta were under 5 to 6 feet of water, which damaged or destroyed over 250 homes and businesses. Nearly 100 other structures were damaged or destroyed. Many irrigation ditches in southeast Colorado sustained damaged to channels and gates. Agricultural lands were swept away, and the channel of the Arkansas River was significantly altered in many locales. Significant flooding occurred between Rocky Ford and La Junta along the Arkansas River. There were numerous roads washed out and bridges destroyed by the flood waters. Water levels began receding in earnest on May 3rd and were generally below flood level by May 5th. Estimates of damage in southeast Colorado were not available as of late July.</p>									
COZ061-074 Eastern San Juan Mountains - Upper Huerfano River Basin/Walsenburg And Vicinity									
01		0200MST			0	0			Heavy Snow
02		0200MST							
<p>The center of a weather system moved across northern New Mexico, bringing periods of heavy snow to the eastern San Juan Mountains, and isolated areas of the southern Sangre de Cristo mountains. Cuchara, in Huerfano county, logged 8 1/2 inches of snow, while 12 to 18 inches of snow accumulated in the Creede area in northern Mineral county.</p>									
COZ059-061 W Lake / W Chaffee County - Eastern San Juan Mountains									
03		0700MST			0	0			Heavy Snow
04		1300MST							
<p>A strong, fast moving weather disturbance moved across southern Colorado, bringing snow, heavy at times, to parts of the southern and central Colorado mountains. In the eastern San Juan mountains, 11 inches of snow was recorded at Wolf Creek Pass, while Creede in northern Mineral county received 5 inches of snow. Monarch Pass, in southwest Chaffee county, accumulated 6 to 8 inches of snow.</p>									
Bent County									
Las Animas	10	1738MST 1743MST			0	0			Hail (1.00)
Bent County									
Ft Lyon	10	1750MST 1755MST			0	0			Hail (0.75)
Prowers County									
Lamar	10	1834MST 1839MST			0	0			Hail (0.75)
Otero County									
Manzanola	16	1535MST 1540MST			0	0			Hail (1.00)
<p>This hail report and all that follow on this date occurred as a result of a long lasting supercell which developed in Pueblo county. Severe hail was first reported in western Otero county. The cyclic supercell produced large to very large hail along its path, and brought damaging downburst winds to Bent county. No firm dollar amounts were available as of late July.</p>									
Otero County									
Rocky Ford	16	1546MST 1551MST			0	0			Hail (1.50)
Otero County									
Manzanola	16	1547MST 1552MST			0	0			Hail (2.00)
Otero County									
1 E Rocky Ford	16	1601MST 1606MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
Otero County									
Cheraw	16	1610MST 1615MST			0	0			Hail (2.00)
El Paso County									
Monument	16	1615MST 1620MST			0	0			Hail (0.75)
Otero County									
Cheraw	16	1619MST 1624MST			0	0			Hail (2.00)
Bent County									
8 WNW Las Animas	16	1635MST 1640MST			0	0			Hail (0.75)
Bent County									
6 E Ft Lyon	16	1705MST 1710MST			0	0			Hail (1.75)
Bent County									
Ft Lyon	16	1707MST 1712MST			0	0			Thunderstorm Wind (G52)
Prowers County									
8 N Lamar	16	1725MST 1730MST			0	0			Hail (2.00)
Bent County									
Ft Lyon	16	1728MST 1733MST			0	0			Hail (0.75)
Prowers County									
Wiley	16	1730MST 1735MST			0	0			Hail (3.75)
El Paso County									
6 SSE Fountain	16	1732MST 1737MST			0	0			Hail (1.00)
El Paso County									
5 E Ramah	16	1732MST 1737MST			0	0			Hail (0.75)
Prowers County									
Wiley	16	1735MST 1740MST			0	0			Hail (1.00)
Prowers County									
10 N Lamar	16	1745MST 1750MST			0	0			Hail (2.50)
Kiowa County									
15 S Eads	16	1750MST 1755MST			0	0			Hail (0.75)
El Paso County									
4 SW Truckton	16	1815MST 1820MST			0	0			Hail (1.00)
Kiowa County									
14 S Towner	16	1845MST 1850MST			0	0			Hail (1.75)
Prowers County									
13 N Holly	16	1845MST 1850MST			0	0			Hail (2.00)
Baca County									
7 S Springfield	19	2050MST 2055MST			0	0			Thunderstorm Wind (G51)
El Paso County									
4 S Fountain	21	1830MST 1835MST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Baca County									
4 NE Campo	22	1510MST 1514MST			0	0			Hail (1.00)
Kiowa County									
3 E Sheridan Lake	22	1600MST 1610MST			0	0			Hail (1.00)
El Paso County									
6 NNW Colorado Spgs	24	1341MST 1346MST			0	0			Hail (1.00)
El Paso County									
3 NNE Colorado Spgs	24	1406MST			0	3			Lightning
A 14-year old girl sustained minor burns from a lightning flash, and was taken to the hospital and treated. Two other girls were nearby and were stunned by the lightning flash. The lightning in that area knocked out power to over 3,000 customers.									
El Paso County									
3 NNE Colorado Spgs	24	1420MST			0	1			Lightning
A 40-year old man was injured by a lightning flash while loading tools into his truck. He had a sore arm and hip and was taken to the hospital for observation.									
Custer County									
10 S Westcliffe	25	1020MST 1045MST			0	0			Funnel Cloud
El Paso County									
(Cos)Peterson Field	25	1427MST 1432MST			0	0			Funnel Cloud
Baca County									
5 WSW Campo	27	1019MST 1025MST			0	0			Funnel Cloud
Baca County									
1 N Two Buttes	29	1743MST 1748MST			0	0			Hail (0.75)
Baca County									
20 NW Springfield	30	1645MST 1650MST			0	0			Hail (1.00)
Baca County									
10 NW Springfield	30	1715MST 1720MST			0	0			Hail (0.75)
Baca County									
8 N Springfield	30	1732MST 1737MST			0	0			Hail (1.00)
Baca County									
8 S Two Buttes	30	1751MST 1756MST			0	0			Hail (0.75)

COLORADO, West

COZ010-012- Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch

01	1200MST	0	0	Winter Storm
02	1000MST			

A moist southwest flow ahead of an upper trough produced 6 to 12 inches of snow in many mountain areas of west-central and southwest Colorado. Some of the largest amounts included 16 inches over Red Mountain Pass and 15 inches above Silverton. Windy conditions resulted in blowing snow and reduced visibility in exposed areas. Gusts to 60 MPH were clocked at the top of Telluride Ski Area. Red Mountain Pass was impassable for a period of time.

COZ003>004- Roan And Tavaputs Plateaus - Elkhead And Park Mountains/Flat Tops/White River Plateau -

03	1200MST	0	0	Winter Storm
05	0800MST			

A slow moving Pacific trough produced 6 to 12 inches of snow in the mountains of western Colorado. The deepest reported amounts included 17 inches at Rico, 16 inches at Silverton, 14 inches at Ouray, and 13 inches at Lake City. Strong winds produced areas of blowing and drifting snow. A peak gust of 82 MPH was measured from Mount Abrams, and gusts to 80 MPH occurred at the Storm Peak laboratory above Steamboat Springs Ski Area.

Storm Data and Unusual Weather Phenomena

May 1999

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

COLORADO, West

Garfield County

New Castle	03	1500MST 1510MST			0	0			Hail (1.00)
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Large hail resulted in drivers of several vehicles losing control and running off Interstate 70 at New Castle.

COZ010

Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity

10	0500MST 1100MST			0	0			Heavy Snow
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A fast moving Pacific trough produced 6 to 8 inches of snow.

Rio Blanco County

10 SSE Rangely	23	1400MST 1410MST			0	0			Wild/Forest Fire
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Lightning ignited three rangeland fires.

CONNECTICUT, Northeast

NONE REPORTED.

CONNECTICUT, Northwest

NONE REPORTED.

CONNECTICUT, Southern

Fairfield County

Countywide	19	1000EST 2000EST			0	0			Heavy Rain
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Moisture "converged" northeast of New York City from a cold front moving slowly east across Pennsylvania and a low pressure system off the Mid-Atlantic Coast. This resulted in a band of heavy rain that fell mainly across Northern Fairfield County. Rainfall amounts generally ranged from 3 to 5 inches across Northern Fairfield County. At Danbury, 4.12 inches of rain was measured. This resulted in some street flooding. Localized flooding of low-lying and poor drainage areas also occurred in Stamford.

New Haven

Woodbridge	24	1239EST			0	0			Lightning
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Lightning struck a barn that ignited a fire and destroyed it. The barn was located on Race Brook Road in Woodbridge.

DELAWARE

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

01 31	0000EST 2359EST			0	0	0		Unseasonably Dry
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Unseasonably dry weather returned to Delaware during the month of May, especially in Kent and Sussex Counties. The state received only 61 percent of its normal monthly rainfall for May making it the 29th driest May in the past 105 years. On a county weighted average, monthly rainfall totals ranged from 0.8 inches in Kent County (20 percent of normal) to 3.1 inches in New Castle County (78 percent of normal). The county average rainfall total for Sussex County was 1.4 inches (38 percent of normal). Streamflow levels were below normal by the end of the month. In New Castle County, on May 16th the stage of the White Clay Creek at Newark reached a new record low streamflow for the day. It was running at one-third of its average streamflow. The White Clay Creek is reaching levels it last reached during the drought of 1995. Newark instituted a new water conservation rate during the month of May. A well in Chester County Pennsylvania reached drought emergency levels. This is one of the aquifers that feed the northern Delaware streams. Elsewhere in the state because of the dry conditions farmers either delayed planting or hauled irrigation equipment early to the fields. By the end of the month both top and subsoil moisture levels in half the fields were rated either short or very short of moisture.

New Castle

Newark	24	1415EST			0	0			Hail (1.75)
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New Castle

Newark to Wilmington	24	1415EST 1430EST			0	0			Thunderstorm Wind (G52)
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New Castle

(Ilg)Wilmington Arpt	24	1427EST			0	0			Thunderstorm Wind (G53)
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A severe thunderstorm produced large hail, damaging winds and frequent lightning across the northern half of New Castle County during the mid afternoon of the 24th. Houses were damaged in both Brandywine and Newark. The wind gusted to 61 mph at New Castle County Airport. In Newark, the top of one large tree landed on a house. The tree top a couple of hours later flattened the attached garage. The eaves of the house were also damaged. There were two separate reports of golf ball size hail. In Brandywine

Storm Data and Unusual Weather Phenomena

May 1999

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

DELAWARE

Hundred, a tree crushed the bedroom and pierced the kitchen of a mobile home. The couple inside were unharmed. Connecticut Energy reported 40,000 homes and businesses lost power in Delaware and Maryland. All but 8,000 customers had power restored by 11 p.m. EDT that evening. All power was restored the next afternoon (25th).

New Castle

North Portion	24	1600EST 1830EST			0	0		0	Flash Flood
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A series of three thunderstorms brought too much heavy rain for area streams and rivers to handle. During the late afternoon, the third thunderstorm of the day, caused flooding along the Christina River. At Coochs Bridge, the Christina River reached its 9 foot flood stage from 5 p.m. EDT through 730 p.m. EDT. It crested at 9.65 feet at 6 p.m. EDT. Storm totals averaged between 2 and 3 inches and in addition to the stream flooding, caused considerable highway and poor drainage flooding. Storm totals included 2.76 inches in Wilmington, 2.29 inches at the New Castle County Airport and 2.00 inches at Newark. No serious injuries or damage were reported.

DISTRICT OF COLUMBIA

DCZ001 District Of Columbia

01	0000EST			0	0			Drought
31	2359EST							

High pressure was the dominant weather feature across the Washington D.C. metropolitan area during the month. This weather pattern directed rain producing low pressure systems north of the area and continued the climatological drought that has gripped the area since last summer. By the last week of May the Palmer Drought Index, a measure of long term drought conditions, indicated Washington D.C. was in a moderate drought. May was the 7th month in the past 12 months that precipitation was below average, the 3rd driest 12 months on record. Washington Reagan National Airport reported a monthly total of only 1.28 inches, 2.38 inches below normal. It was the 8th driest May on record, and rain only fell on 5 days during the month. The lack of precipitation affected water reserves. The flow of water down the Potomac River at Washington D.C. was only 23% of normal during the month. Monthly flow rates on the river have been below normal for the past 9 months.

District Of

Countywide	24	1245EST			0	0	2K	Thunderstorm Wind
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Trees downed

A line of thunderstorms moved across the Washington D.C. metropolitan area just after midday, producing winds in excess of 55 MPH. City officials reported a few trees were knocked down by the storm inside the District around 1:45 PM EDT.

FLORIDA, East Central

Volusia County

Pierson	06	1819EST			0	0		Hail (1.75)
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Lake County

Umatilla	06	1835EST			0	0		Hail (0.75)
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Volusia County

De Leon Spgs	06	1903EST			0	0		Hail (1.75)
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Orange County

Orlando	06	2006EST			0	0		Hail (0.75)
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Osceola County

Kissimmee	06	2010EST			0	0		Hail (2.00)
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Orange County

Taft	06	2030EST			0	0		Thunderstorm Wind (G50)
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Trees and power lines were blown down in Taft. Half Dollar size hail was also reported.

Orange County

4 SW Windermere	06	2030EST			0	0		Hail (0.75)
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Orange County

Orlando	06	2045EST			0	0		Hail (0.75)
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Orange County

Taft	06	2045EST			0	0		Hail (1.75)
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Orange County

Winter Park	06	2100EST			0	0		Hail (0.75)
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Lake County

Howey In The Hills	07	1354EST			0	0		Hail (0.75)
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Lake County

Lady Lake	07	1357EST			0	0		Hail (0.75)
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Storm Data and Unusual Weather Phenomena

May 1999

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									
Lake County									
Mt Dora	07	1451EST			0	0			Hail (1.75)
		Golf ball size hail also fell in Lisbon and Eustis.							
Volusia County									
De Leon Spgs	07	1456EST			0	0			Hail (0.75)
Volusia County									
Daytona Beach	07	1510EST			0	0			Hail (0.88)
Lake County									
Mt Dora	07	1511EST			0	0			Hail (0.75)
Orange County									
Tangerine	07	1521EST			0	0			Hail (0.75)
Orange County									
Zellwood	07	1600EST			0	0			Hail (1.00)
Seminole County									
Lake Mary	07	1610EST			0	0			Hail (0.75)
Okeechobee									
Okeechobee	07	1910EST			0	0			Hail (1.00)
Brevard County									
Cape Canaveral	08	1550EST			0	0			Thunderstorm Wind (G50)
		A wind gust of 50 Kts was recorded at Cape Canaveral.							
Brevard County									
West Melbourne	08	1700EST			0	0			Hail (1.00)
Brevard County									
Melbourne	08	1725EST			0	0			Hail (0.75)
St. Lucie County									
Port St Lucie	08	1929EST			0	0			Hail (1.00)
Martin County									
Palm City	09	1352EST			0	0			Hail (0.75)
Martin County									
Indiantown	09	1355EST			0	0			Hail (0.75)
St. Lucie County									
Port St Lucie	09	1410EST			0	0			Hail (1.75)
Volusia County									
Orange City	09	1410EST			0	0			Hail (1.75)
Indian River									
Vero Beach	09	1435EST			0	0			Hail (0.75)
Indian River									
Sebastian	09	1455EST			0	0			Hail (1.75)
Okeechobee									
10 SW Ft Drum	09	1500EST			0	0			Hail (1.50)
Indian River									
Fellsmere	09	1520EST			0	0			Hail (1.00)
Brevard County									
Palm Bay	09	1550EST			0	0			Hail (0.75)
Brevard County									
3 W Merritt Is	09	1614EST			0	0			Hail (0.75)
Seminole County									
3 N Oviedo	09	1630EST			0	0			Hail (1.75)
Orange County									
Orlando	09	1728EST			0	0			Hail (0.75)
Orange County									
Orlando	09	1751EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Orange County									
5 S Winter Garden to Winter Garden	11	1952EST			0	0			Hail (0.75)
Osceola County									
8 W Kissimmee	11	1952EST			0	0			Hail (0.75)
Orange County									
Apopka	11	2010EST			0	0			Hail (0.75)
Brevard County									
Titusville	12	1736EST			0	0			Hail (0.75)
Brevard County									
Titusville	12	1740EST	0.1	30	0	0			Tornado (F0)
A brief F0 tornado touched down in Titusville and damaged a few trees, business signs and shrubs.									
Orange County									
Orlando	14	1029EST			0	0			Hail (0.88)
Okeechobee									
Ft Drum	14	1320EST			0	0			Hail (1.00)
Lake County									
Umatilla	18	1056EST			0	0			Funnel Cloud
Seminole County									
Geneva	19	1700EST			0	0	20K		Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees on a house in Geneva.									
Volusia County									
3 W New Smyrna Beach	19	1712EST			0	0	10K		Thunderstorm Wind (G50)
Power lines were blown down west of New Smyrna Beach.									
Brevard County									
Cocoa	20	2233EST			0	0			Hail (0.75)
Brevard County									
Merritt Is	20	2330EST			0	0			Hail (0.75)
Indian River									
3 E Fellsmere	28	1530EST			0	0			Funnel Cloud
Seminole County									
Geneva	28	1600EST			0	0			Hail (1.00)
Seminole County									
2 S Geneva	28	1610EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees south of Geneva.									
Lake County									
Fruitland Park	28	1708EST			0	0			Thunderstorm Wind (G60)
Thunderstorm winds blew down trees and destroyed a shed in Fruitland Park.									
Lake County									
3 S Leesburg	28	1715EST			0	0			Hail (0.75)
Lake County									
Clermont	28	1758EST			0	0			Hail (1.75)
Lake County									
Clermont	28	1758EST	0.2	30	0	0	50K		Tornado (F0)
An F0 tornado touched down briefly in Clermont blowing down trees and slightly damaging four homes.									
Okeechobee									
10 N Okeechobee	29	1632EST			0	0			Hail (0.75)
Brevard County									
Palm Bay	30	0630EST	0.1	30	0	0	40K		Tornado (F0)
A waterspout tornado moved west off the Indian River and came ashore along U.S. Highway 1 in Palm Bay. It damaged the roof to a restaurant and destroyed the restaurant porch.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
FLORIDA, East Central									
Indian River									
Sebastian	30	0720EST			0	0			Funnel Cloud
Indian River									
Sebastian	30	0743EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down power lines in Sebastian.									
FLORIDA, Extreme Southern									
Monroe County									
Marathon	18	0625EST 0633EST			0	0			Funnel Cloud
Funnel cloud 1 mile South of MTH dissipated before reaching land.									
Monroe County									
Big Pine Key	18	1135EST 1137EST			0	0			Waterspout
Monroe County									
Flamingo	20	0955EST 0958EST			0	0			Funnel Cloud
Monroe County									
(Eyw)Key West Inl Ar	20	1434EST 1440EST			0	0			Waterspout
1 mile north of EYW, did not affect land									
Monroe County									
(Eyw)Key West Inl Ar	21	1055EST 1105EST			0	0			Waterspout
3 miles Northeast of EYW, did not affect land									
Monroe County									
(Eyw)Key West Inl Ar	24	1600EST 1608EST			0	0			Waterspout
4 miles east of EYW, did not affect land									
Monroe County									
(Eyw)Key West Inl Ar	29	1608EST 1615EST			0	0			Waterspout
3 miles northwest of EYW, did not affect land									
Monroe County									
Marathon	29	1840EST 1843EST			0	0			Waterspout
1 miles south of MTH									
Monroe County									
Big Pine Key	29	1847EST 1852EST			0	0			Waterspout
2 miles northeast of No Name Key									
Monroe County									
Ramrod	29	1849EST 1855EST			0	0			Waterspout
1 mile north of Sugarloaf Key									
Monroe County									
Summerland Key	30	0850EST 0900EST			0	0			Waterspout
2 waterspouts 1/2 mile south									
Monroe County									
(Eyw)Key West Inl Ar	30	1035EST 1047EST			0	0			Waterspout
3 miles west of EYW									
Monroe County									
Key West	30	1115EST 1116EST	0	0	0	0			Tornado (F0)

On May 30th at 12:15 pm EDT, a waterspout moved onshore along the north end of Duval Street in Key West as a tornado and dissipated quickly after moving onshore. There was no damage or injuries reported with this event.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
FLORIDA, Extreme Southern										
Monroe County										
Marathon	18	0625EST 0628EST			0	0				Funnel Cloud
		1 mile south of Marathon								
Monroe County										
Big Pine Key	19	1135EST 1137EST			0	0				Waterspout
		1 mile north of Big Pine Key, did not affect land								
Monroe County										
Flamingo	20	0955EST 1000EST			0	0				Funnel Cloud
		1/2 mile south of flamingo								
Monroe County										
(Eyw)Key West Inl Ar	20	1434EST 1440EST			0	0				Waterspout
		1 mile North of EYW, did not affect land								
Monroe County										
(Eyw)Key West Inl Ar	21	1055EST 1106EST			0	0				Waterspout
		3 miles Northeast of EYW, did not affect land								
Monroe County										
(Eyw)Key West Inl Ar	24	1600EST 1608EST			0	0				Waterspout
		4 miles east of EYW, did not affect land								
Monroe County										
(Eyw)Key West Inl Ar	29	1608EST 1615EST			0	0				Waterspout
		3 miles Northwest of EYW, did not affect land								
Monroe County										
Marathon	29	1840EST 1844EST			0	0				Waterspout
		1 mile south of Marathon, did not affect land								
Monroe County										
Big Pine Key	29	1847EST 1857EST			0	0				Waterspout
		2 miles northeast of No Name Key, did not affect land								
Monroe County										
Ramrod	29	1849EST 1900EST			0	0				Waterspout
		1 mile North of Sugarloaf Key, did not affect land								
Monroe County										
Summerland Key	30	0850EST 0901EST			0	0				Waterspout
		2 waterspouts 1/2 mile south, did not affect land								
Monroe County										
(Eyw)Key West Inl Ar	30	1035EST 1045EST			0	0				Waterspout
		3 miles west of EYW, did not affect land								
Monroe County										
Key West	30	1101EST 1114EST			0	0				Waterspout
		1/2 mile east of Key West, moved onshore as a tornado								
Monroe County										
Key West	30	1115EST 1116EST	0	0	0	0	0			Tornado (F0)
		Waterspout dissipated quickly after moving onshore								
Monroe County										
Longkey	31	0650EST 0655EST			0	0				Waterspout
		1 mile east of Long Key, did not affect land								

Storm Data and Unusual Weather Phenomena

May 1999

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									
Flagler County									
8 NE Bunnell	07	1430EST			0	0	2K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Flagler County									
St Johns Park	07	1800EST			0	0			Hail (0.75)
Marion County									
Countywide	09	2000EST			0	0			Wild/Forest Fire
			County fire department responded to a 2 - 3 acre brush fire. No structures threatened, no injuries reported.						
Nassau County									
Countywide	09	2000EST			0	0			Wild/Forest Fire
			A ¼ acre brush fire was extinguished using county fire department personnel. The cause of fire has not been determined. Also reported was a brush fire measuring 1/3 acre was extinguished by the County fire department.						
Gilchrist County									
Trenton	10	1940EST			0	0	2K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Columbia County									
Ft White	10	2045EST			0	0	1.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Suwannee County									
Branford	10	2052EST			0	0			Hail (0.75)
Bradford County									
Hampton	11	1430EST			0	0			Hail (0.75)
Columbia County									
Countywide	12	1200EST			0	0			Wild/Forest Fire
			Reports that the Lake City Fire Department responded to a brush fire, that was started by a lawn mower exhaust. The fire was located off Highway 441 south of I-10. The fire was contained to less than one (1) acre and was brought under control.						
Putnam County									
Countywide	12	1200EST			0	0			Wild/Forest Fire
			Reports a 6 acre brush fire that located near the city of Mondex. The fire has been extinguished but smoldering. No structures were damaged.						
St. Johns County									
Hastings	12	1712EST			0	0			Funnel Cloud
St. Johns County									
Hastings	12	1712EST			0	0			Hail (0.75)
Columbia County									
Lake City	13	1915EST			0	0			Hail (0.75)
Duval County									
Countywide	14	1600EST			0	0			Wild/Forest Fire
	15	1600EST							
			Reports that the McCullan Fire is 90% contained. Residents are returning to heir homes. The fire is reported to have burned 350 acres. The following summary is provided: Forty (40) homes were threatened (no homes damaged), two shelters were opened (both closed), and approximately 50 people evacuated. Also, it was reported that the Middle Road Fire is 100% contained. The fire is reported to have burned 65 acres. No structures were affected or evacuations reported.						
Columbia County									
Countywide	18	1200EST			0	0			Wild/Forest Fire
			County fire department and DoF responded to an unknown size brush fire. Per Lake City Fire Department, there were two separate fires within two blocks of each other.						
Marion County									
Countywide	18	1200EST			0	0			Wild/Forest Fire
			Marion County Fire Department responded to a three (3) acre fire. The fire was started from the exhaust of a tractor trailer.						
Duval County									
Jacksonville Beach Pier.	19	1255EST			0	0			Hail (0.88)
Bradford County									
Starke	19	1328EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Bradford County									
Starke	19	1355EST			0	0			Hail (0.75)
Bradford County									
Starke	19	1525EST			0	0	1.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Marion County									
Fairfield	19	1530EST			0	0			Hail (1.75)
Alachua County									
Newberry	19	1735EST			0	0	2.5K		Thunderstorm Wind
			Large trees were blown down and a shed was damaged.						
Putnam County									
8 NW Palatka	19	2000EST			0	0			Wild/Forest Fire
			Reports that a 1.5 acre fire occurred near Bardin.						
Marion County									
Ft Mc Coy	20	1315EST			0	0			Hail (1.00)
Marion County									
Dunnellon	20	1415EST			0	0	1.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Alachua County									
Gainesville	20	1535EST			0	0			Hail (0.75)
Alachua County									
Gainesville	20	1545EST			0	0			Hail (0.75)
Alachua County									
Gainesville	20	1545EST			0	0			Hail (0.75)
Gilchrist County									
Trenton	20	1550EST			0	0	2K		Hail (1.00)
			Broke car windshield.						
Gilchrist County									
5 E Trenton	20	1600EST			0	0	1.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Alachua County									
Alachua	20	1620EST			0	0	1K		Thunderstorm Wind
			Large trees were blown down.						
Columbia County									
10 SSW Lake City	20	1630EST			0	0			Hail (1.75)
Suwannee County									
Obrien	20	1730EST			0	0			Hail (0.75)
Putnam County									
Countywide	20	2300EST			0	0			Wild/Forest Fire
			Reports that 11 acres burned at three different locations.						
Nassau County									
Countywide	21	2300EST			0	0			Wild/Forest Fire
			Reported a two (2) acre brush fire.						
Putnam County									
Countywide	22	2300EST			0	0			Wild/Forest Fire
			Reported a 15 acre fire located on Ridge Lake Road near Lake Como burned and a 50 square foot fire located at Grandin Lake and Hwy 315.						
Baker County									
Countywide	23	2300EST			0	0			Wild/Forest Fire
			Reported a fire in Osceola National Forest encompassing approximately 800 acres in a very remote area.						
Marion County									
Countywide	23	2300EST			0	0			Wild/Forest Fire
			Reported a 2 - 4 acre brush fire.						
Suwannee County									
Newburn	22	1600EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

Baker County

Countywide **26** **1200EST** **0** **0** **Wild/Forest Fire**
 DOF continues to battle a fire in Baker County on Federal land that has grown to 14,417 acres, and has spread into the State of Georgia. The Federal Type 1 team has taken command of the Friendly Fire. The Tallahassee tanker base has re-opened to support fire control efforts on this fire. This fire is in the middle of wilderness posing no problems to structures, but due to its remote location is causing access problems.

Putnam County

Countywide **26** **1200EST** **0** **0** **Wild/Forest Fire**
 Putnam County and DOF responded to three (3) separate fires on the west side of Hwy 17 north of Palatka behind the landfill. Fire #1 was 10-12 acres, #2 was 5-7 acres and #3 was 11+ acres. The county reported three (3) additional fires at the following locations: #1 South of Interlachen near CR 310 1/8 acre. #2 A rekindle of the Mondex fire, five (5) acres. #3 Ridge Lake Rd off Hwy 17, six (6) acres.

Putnam County

Interlachen **27** **1200EST** **0** **0** **Wild/Forest Fire**
 Reports that a 20 acre brush fire occurred near Interlachen.

Marion County

Countywide **28** **1200EST** **0** **0** **Wild/Forest Fire**
 Reported a 15 acre fire.

Putnam County

Countywide **30** **1200EST** **0** **0** **Wild/Forest Fire**
 Reported a five acre fire.

FLORIDA, Northwest

Jackson County

Marianna **06** **2010EST** **0** **0** **300K** **Thunderstorm Wind**
 Jackson County EMA reported numerous trees and power lines down with scattered outages. Some residences suffered roof damage. Highway 90 was closed for several hours due to fallen trees and high water.

Jackson County

Southwest Portion **07** **0111EST** **0** **0** **1K** **Thunderstorm Wind**
 Trees down at Silver Lake reported by Jackson County S.O.

Bay County

Panama City Beach **07** **0600EST** **0** **0** **500K** **Thunderstorm Wind (G52)**
 60 mph wind gust reported by WJHG-TV. Thunderstorm winds lifted a 40-by-90-foot roof off a local paper mill. The Bay County EMA reported trees down on cars, houses and several city streets.

Gulf County

Countywide **07** **0650EST** **0** **0** **2K** **Thunderstorm Wind**
 Trees down reported by Gulf County S.O.

Bay County

South Portion **07** **0700EST** **0** **0** **4M** **Flash Flood**
 Up to a foot of rain in a four-hour period fell over much of southern Bay County according to Bay County EMA. Numerous streets were flooded in Parker, Springfield, Callaway and downtown Panama City. Eight inches of water accumulated on Beach Dr. and 11th St. in Panama City flooding several businesses. A total of 155 single-family residences and two businesses sustained major flood damage with losses in excess of \$1 million. Some homes were impacted by flood waters over three feet deep.

Gulf County

**3 NW
Wewahitchka** **07** **0730EST** **0** **0** **50K** **Thunderstorm Wind**
 A mobile home damaged and trees down reported by Gulf County EMA.

Madison County

6 E Madison **13** **1730EST** **0** **0** **1K** **Thunderstorm Wind**
 Several trees down reported by Madison County EMA.

Madison County

4 E Madison **13** **1745EST** **0** **0** **15K** **Hail (1.25)**
 Madison County EMA reported several vehicles damaged by half dollar size hail.

Madison County

Madison **13** **1800EST** **0** **0** **Hail (0.75)**
 Dime size hail reported by Madison County EMA.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
FLORIDA, Northwest									
Jackson County									
Sneads	21	1710EST			0	0			Hail (0.75)
		Dime size hail reported by Jackson County EMA.							
Jackson County									
Cottondale	21	1740EST			0	0			Hail (0.88)
		NWSFO Birmingham relayed report of nickel size hail.							
Wakulla County									
Northwest Portion	25 27	1400EST 1800EST			0	0			Wild/Forest Fire
		Wakulla County EMA and FL Division of Forestry reported the Bay Creek wildfire in Apalachicola National Forest consumed 1,000 acres.							
Taylor County									
Northeast Portion	29 30	1300EST 1600EST			0	0			Wild/Forest Fire
		Taylor County EMA and FL Division of Forestry reported a 300-acre wildfire in the San Pedro Bay area.							
Walton County									
5 N De Funiak Spgs to 6 N De Funiak Spgs	26	1830EST 1839EST	0.2	100	0	0	500K		Tornado (F1)
		Walton County EMA reported tornado touched down several times along SR 83N and CR 192 north of De Funiak Springs. Five barns destroyed, seven outbuildings sustained minor damage, and a roof lifted off a residence. Numerous trees and power lines downed and electrical service disrupted for nearly six hours to 1,200 customers.							
FLORIDA, Southern									
Dade County									
20 E North Miami Beach	04	0640EST			0	0			Waterspout
		An aircraft pilot reported waterspouts in the Atlantic 20 miles east of north Miami Beach.							
Glades County									
Lakeport	04 07	1854EST 1854EST			0	0			Thunderstorm Wind (G50)
		Emergency Management reported tree limbs down in Lakeport and pea-size hail in Palmdale.							
Hendry County									
La Belle	08	1600EST			0	0			Hail (1.75)
		Emergency Management reported several instances of golf ball-size hail.							
Glades County									
10 W Ortona	09	1330EST			0	0			Hail (0.75)
		Sheriff's Office reported 3/4 inch hail near Muse.							
Palm Beach									
Jupiter	09	1335EST			0	0			Hail (0.75)
		Dime-size hail reported.							
Collier County									
3 E Monroe Station	10	1630EST			0	0			Funnel Cloud
		A Park Ranger sighted a funnel cloud in Big Cypress Preserve.							
Dade County									
Kendall	11	1545EST			0	0			Hail (0.75)
		Three-quarter inch hail was reported at Tamiami Airport.							
Dade County									
Cutler Ridge	11	1605EST			0	0			Thunderstorm Wind (G50)
		Large tree limbs were blown down.							
Dade County									
10 W Florida City	12	1058EST			0	0			Funnel Cloud
		A Park Ranger sighted a funnel cloud in Everglades National Park.							
Palm Beach									
West Palm Beach	12	1150EST			0	0			Hail (0.75)
		Dime-size hail reported.							
Broward County									
Hollywood	12	1330EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
FLORIDA, Southern									
Public reported dime-size hail.									
Broward County									
Ft Lauderdale	12	1445EST			0	0			Thunderstorm Wind (G50)
									SKYWARN spotter reported 60 mph wind gust.
Palm Beach									
Boca Raton	12	1450EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm wind gusts blew down trees and large limbs.
Dade County									
Kendall	12	1500EST			0	1			Lightning
									A 15-year old male was struck and seriously injured by lightning as he walked to Porkys Gym. He may have been near or under a tree. He was hospitalized for two weeks.
Dade County									
Cutler Ridge	12	1815EST			0	0			Hail (0.75)
									SKYWARN spotter reported dime-size hail.
Dade County									
Cutler Ridge	12	1846EST			0	0			Hail (1.25)
									SKYWARN spotters reported hail up to quarter-size in diameter.
Dade County									
Cutler Ridge	13	1730EST			0	0			Funnel Cloud
									SKYWARN spotter sighted a funnel cloud.
Broward County									
North Lauderdale	13	1850EST			0	0			Hail (0.75)
Broward County									
North Lauderdale	13	1850EST			0	0	10K		Thunderstorm Wind (G60)
									SKYWARN spotter reported dime-size hail and police reported trees and power lines down.
Broward County									
Pompano Beach	15	1152EST			0	0			Thunderstorm Wind (G65)
									Public reported several trees blown down.
Palm Beach									
Belle Glade	15	1233EST			0	0			Funnel Cloud
									Emergency Management reported a funnel cloud on the shore of Lake Okeechobee.
Hendry County									
Clewiston	15	1600EST			0	0			Hail (0.75)
									Dime-size hail reported by Clewiston P.D.
Hendry County									
La Belle	15	1640EST			0	0			Hail (0.75)
									Dime-size hail reported by Sheriff's Office in Mantura Estates.
Dade County									
10 W Homestead	16	1615EST			0	0			Hail (0.75)
									Dime-size or larger hail reported by Park Ranger at Pa-ha-okee Overlook in Everglades National Park.
Dade County									
Hialeah	18	1556EST			0	0			Hail (0.88)
									Nickel-size hail reported in Hialeah.
Broward County									
Hollywood	19	1150EST			0	0			Hail (0.88)
									Nickel-size hail reported by SKYWARN spotter.
Broward County									
Davie	19	1225EST			0	0			Hail (0.75)
									Dime-size hail observed.
Dade County									
Hialeah	19	1238EST			0	0			Hail (0.75)
									Public reported dime-size hail.
Dade County									
Miami Intl	19	1315EST			0	0	50K		Lightning
									Lightning strikes punctured holes in the runway at Miami International Airport and knocked out Airport Surveillance Radar, closing the airport for three hours and delaying 50 flights. Three commercial aircraft suffered minor damage from the strikes. Fort

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
FLORIDA, Southern									
Lauderdale-Hollywood International Airport was also affected.									
Dade County									
Kendall to Cutler Ridge	19	1335EST 1350EST			0	0			Hail (1.25)
The public reported dime-size hail covering the ground in locations from Pinecrest to Kendall to Cutler Ridge. Silver dollar-size hail was reported from Metro Zoo.									
Palm Beach									
6 W West Palm Beach	20	1332EST			0	0			Hail (0.75)
Palm Beach									
West Palm Beach	20	1400EST			0	0			Lightning
Dime-size hail was reported by a T.V. station in Royal Palm Beach. Lightning strikes started seven brush fires, one of which threatened a house.									
Collier County									
Monroe Station	20	1740EST			0	0			Hail (0.88)
A Park Ranger reported nickel-size hail in Big Cypress Preserve.									
Palm Beach									
Jupiter	21	0740EST			0	0			Funnel Cloud
Several funnel clouds were sighted.									
Palm Beach									
30 W West Palm Beach to 10 W West Palm Beach	21 25	1300EST 1100EST			0	0	30K		Wild/Forest Fire
Broward County									
Ft Lauderdale	23 25	1500EST 1100EST			0	0			Wild/Forest Fire
Dade County									
Miami	23 25	1700EST 1100EST			0	0			Wild/Forest Fire
A lightning-initiated brush fire scorched 12,000 acres of sawgrass in western Palm Beach County. The smoke drifted over the metropolitan areas of Palm Beach, Broward and Dade counties prompting local health alerts. A mobile home was destroyed near Loxahatchee. Highway U.S. 27 was closed for a day after smoke-reduced visibility contributed to a multivehicle crash that killed one person.									
Palm Beach									
Belle Glade	21	1303EST			0	0			Hail (0.88)
Police Department reported nickel-size hail.									
Collier County									
Golden Gate	21	1344EST			0	0			Hail (1.25)
Emergency Management reported hail from dime to silver dollar-size.									
Collier County									
Monroe Station	21	1500EST			0	0			Hail (0.88)
A Park Ranger reported hail up to nickel-size in Big Cypress Preserve.									
Collier County									
5 SE Golden Gate	21	1640EST			0	0			Funnel Cloud
A T.V. station reported a funnel cloud 3 miles southeast of exit 15 on I-75.									
Dade County									
50 E Miami Beach	29	0800EST			0	0			Waterspout
An aircraft pilot reported several waterspouts just north of Bimini.									
Broward County									
Davie	29	1425EST			0	0	25K		Thunderstorm Wind (G50)
Emergency Management reported three house patios were damaged by thunderstorm winds.									
Dade County									
North Bay Vlg	29	1630EST			0	0			Thunderstorm Wind (G50)
Channel 7 reported thunderstorm wind gusts of 58 mph at their T.V. studio.									
Palm Beach									
Lake Harbor	30	1500EST			0	0			Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

May 1999

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

FLORIDA, Southern

Sheriff's Office reported power lines blown down.

Dade County

Miami Beach

31 1315EST 1 0 Rip Currents

A 60-year old Miami Beach resident drowned in a rip current in the Atlantic off 68th Street. Dozens of other bathers were rescued along Dade and Broward county Atlantic beaches over the entire Memorial Day Weekend as east winds of 20 mph predominated. M60IW

FLORIDA, West Central

Highlands County

10 S Sebring

06 1806EST 0 0 0 0 Hail (1.00)

A Skywarn Spotter reported quarter to nickel sized hail five miles south of the U.S. Highway 98 and U.S. Highway 27 intersection.

Highlands County

Lorida

06 1822EST 0 0 0 0 Hail (0.75)

A Skywarn Spotter reported dime sized hail in Lorida.

Polk County

5 N Frostproof

06 1903EST 0 0 0 0 Hail (0.88)

A Skywarn Spotter reported nickel to dime sized hail.

Polk County

Frostproof

06 1914EST 0 0 0 0 Thunderstorm Wind (G60)

A Skywarn Spotter estimated a 60 mph wind gust at Crooked Lake in Frostproof.

Sumter County

Oxford

07 1348EST 0 0 0 0 Hail (1.00)

A Skywarn Spotter reported quarter to dime sized hail.

Polk County

4 ESE Lakeland to 3 NE Lakeland

**07 1545EST
1557EST 0 0 0 0 Hail (1.00)**

Skywarn Spotters reported quarter to nickel sized hail that covered the ground from Skyview Boulevard north to the intersection of State Road 659 (N. Combee Rd) and County Road 546 (Saddle Creek Rd) in Lakeland.

Hardee County

2 SE Bowling Green

07 1556EST 0 0 0 0 Hail (0.75)

A Skywarn Spotter reported dime sized hail.

Polk County

Mulberry

07 1619EST 0 0 0 0 Hail (0.75)

A Skywarn Spotter reported dime sized hail at the intersection of Old State Road 37 and Sheppard Road.

Highlands County

6 W Sebring

07 1624EST 0 0 0 0 Hail (0.88)

A Skywarn Spotter and park ranger reported nickel sized hail at the Highlands Hammock State Park.

Highlands County

Sebring to Lake Placid

**07 1635EST
1646EST 0 0 0 0 Hail (1.00)**

Skywarn Spotters and the Highlands Today newspaper reported quarter to nickel sized hail from Sebring to Lake Placid.

Polk County

Polk City

07 1702EST 0 0 0 0 Hail (0.88)

Nickel sized hail was reported by the public through St Petersburg, Florida television station WTSP.

Highlands County

Sebring

07 1702EST 0 0 0 0 Hail (0.88)

Nickel to dime sized hail was reported at the Lakeshore Mall in Sebring by Emergency Management.

De Soto County

Arcadia

08 1525EST 0 0 0 0 Hail (1.00)

Nickel sized hail was reported by the Arcadia Police Department.

Polk County

Polk City

08 1540EST 0 0 0 0 Hail (1.00)

The public reported quarter sized hail along State Road 33 in Polk City through Pinellas Park, Florida cable station Bay News Nine.

Hardee County

Wauchula to Bowling Green

**08 1630EST
1635EST 0 0 10K 0 Thunderstorm Wind**

Thunderstorm winds downed several large trees and power lines along U.S. Highway 17 between Wauchula and Bowling Green.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
FLORIDA, West Central										
Polk County										
Mulberry	08	1758EST			0	0	0	0	Hail (0.75)	The public reported dime sized hail in Mulberry through Pinellas Park, Florida cable station Bay News.
Manatee County										
Myakka Head	09	1235EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported along State Road 64 at Myakka Head by the Manatee County Fire Department.
Manatee County										
Myakka City	09	1320EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported in Myakka City by the Myakka City Fire Department.
Lee County										
Alva	09	1325EST			0	0	0	0	Hail (1.75)	Golfball sized hail was reported by the public through Ft Myers television station WZVN.
Lee County										
North Ft Myers	09	1357EST			0	0	0	0	Hail (1.00)	Quarter sized hail was reported by the public through Ft Myers, Florida television station WINK.
Lee County										
Ft Myers to Lehigh Acres	09	1415EST			0	0	0	0	Hail (1.00)	Skywarn Spotters and the public reported quarter to dime sized hail from Ft Myers to Lehigh Acres.
Lee County										
Tice	09	1439EST			0	0	0	0	Hail (0.75)	The public reported dime sized hail through Ft Myers, Florida television station WINK.
Lee County										
Ft Myers to 4 ESE Ft Myers	09	1504EST 1511EST			0	0	0	0	Hail (1.75)	Golfball to dime sized hail was reported from downtown Ft Myers to near Interstate 75 and County Road 884 by Lee County Emergency Management.
Lee County										
Lehigh Acres to Bonita Spgs	09	1545EST			0	0	1K	0	Lightning	Lightning struck and burned a hole in the roof of a home in Lehigh Acres. In Bonita Springs, lightning ignited and burned 500 acres of brush and scrub trees.
Polk County										
5 SW Lakeland	09	1721EST			0	0	0	0	Thunderstorm Wind (G55)	A 63 mph wind gust was reported by Lakeland Municipal Airport weather observers.
De Soto County										
Arcadia	09	1740EST 1742EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported by Skywarn Spotters in Arcadia.
De Soto County										
Arcadia	09	1840EST 1845EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported by Skywarn Spotters in Arcadia.
Polk County										
Bartow	09	1843EST			0	0	10K	0	Thunderstorm Wind	The Bartow Police Department reported that thunderstorm winds downed a large tree which damaged the roof of a home in Bartow. Thunderstorm winds also downed power lines across Bartow.
Polk County										
1 W Waverly	09	1900EST			0	0	2K	0	Thunderstorm Wind	Polk County Emergency Management reported that thunderstorm winds downed several power lines near the intersection of U.S. Highway 27 and State Road 570 near Waverly.
Polk County										
Lake Wales	09	1905EST			0	0	3K	0	Thunderstorm Wind	The Peace River Electric Company reported several power lines were downed by thunderstorm winds along Old U.S. Highway 27 (Old Scenic Highway) in Lake Wales.
Pasco County										
Odessa	10	1400EST			0	0	0	0	Hail (0.75)	The public reported dime sized hail through St Petersburg, Florida television station WTSP.

Storm Data and Unusual Weather Phenomena

May 1999

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									
6 N Tampa	10	1425EST			0	0	0	0	Hail (1.75)
The public reported golfball sized hail through Tampa, Florida FM radio station WQYK.									
Hillsborough									
7 N Tampa	10	1435EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported at Busch Gardens along State Road 580 (Busch Blvd) by a Skywarn Spotter.									
Hillsborough									
Brandon	10	1447EST			0	0	0	0	Hail (0.88)
Nickel sized hail was reported at the Brandon Town Center Mall along Interstate 75 and State Road 60 by mall security.									
Hillsborough									
7 N Tampa	10	1450EST			0	0	0	0	Thunderstorm Wind
An estimated 60 mph thunderstorm wind gust was reported at Busch Gardens along State Road 580 (Busch Blvd) by a Skywarn Spotter.									
Hillsborough									
Brandon to Riverview	10	1455EST 1535EST			0	0	500K	0	Hail (1.75)
Numerous reports from Skywarn Spotters and the general public indicated that golfball to dime size hail covered the ground white from Brandon south to Riverview. Several vehicles from Brandon south to Riverview were damaged by the golfball sized hail.									
Hillsborough									
Brandon	10	1515EST 1530EST			0	0	50K	0	Thunderstorm Wind
Several large trees and numerous branches were downed and a few small sheds were damaged by thunderstorm winds in Brandon.									
Hillsborough									
25 SE Tampa to Tampa	10	1543EST			0	0	0	0	Hail (1.75)
Golfball sized hail was reported by the public at the intersection of State Road 674 and County Road 39 in Ft Lonesome through WFLA-TV of Tampa, Florida.									
Citrus County									
Beverly Hills to 2 SW Citrus Spgs	10	1545EST 1614EST			0	0	0	0	Hail (1.00)
Quarter to dime sized hail was reported from Beverly Hills to near Citrus Springs by Skywarn Spotters.									
Highlands County									
1 N Lorida	10	1600EST 1630EST			0	0	0	0	Hail (1.00)
A Skywarn Spotter and Highlands County Emergency Management reported that quarter sized hail covered the ground over an inch deep with drifts as high as ten inches near U.S. Highway 98 in Lorida.									
Charlotte County									
Punta Gorda	10	1606EST			0	0	0	0	Hail (0.88)
Nickel sized hail was reported by the public through the Charlotte County Sheriffs Office.									
Lee County									
11 S Ft Myers	10	1611EST			0	0	0	0	Hail (1.75)
Golfball sized hail was reported by the public along U.S. Highway 41 in San Carlos Park through Ft Myers, Florida television station WINK.									
Highlands County									
1 NE Lorida	10	1615EST			0	0	10K	0	Thunderstorm Wind
A Skywarn Spotter estimated a 70 mph wind gust that downed several large trees near Lorida.									
Lee County									
Lehigh Acres	10	1645EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported near the intersection of Lee Boulevard and Homestead in Lehigh Acres by a Skywarn Spotter.									
Levy County									
Chiefland	10	1845EST 1905EST			0	0	0	100K	Tstm Wind/Hail
Mothball sized hail that covered the ground white and fell for up to 20 minutes severely damaged 30 to 40 percent of 22 acres of a tobacco crop in Chiefland.									
Manatee County									
10 E Bradenton	11	1720EST			0	0	0	0	Hail (0.75)
The public reported dime sized hail that covered the ground white at the Lake Manatee Recreation Area through WTVT-TV of Tampa, Florida.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
FLORIDA, West Central										
Citrus County										
1 NW Beverly Hills	11	1815EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported in the Rock Ridge Country Estates of Beverly Hills by a Skywarn Spotter.
Manatee County										
5 W Myakka City	12	1240EST	0.1	5	0	0	1K	0	Tornado (F0)	National Weather Service damage survey determined that a weak and short-lived tornado, on the low end of the F0 range, destroyed a thin canvas tarp of a carport on the 9000 block of 289 Street E, five miles west of Myakka City.
Manatee County										
5 W Myakka City	12	1240EST 1300EST			0	0	0	0	Hail (1.00)	National Weather Service damage survey confirmed through eye witness reports that quarter to nickel sized hail fell for up to 20 minutes along and near the 9000 block of 289 Street E, five miles west of Myakka City.
Hillsborough										
5 SE Wimauma	12	1330EST			0	0	0	0	Hail (0.75)	Dime sized hail was reported by a Skywarn Spotter.
Highlands County										
4 WNW Lake Placid to 4 WNW Sebring	12	1435EST			0	0	0	0	Hail (0.88)	Nickel sized hail was reported by the Fire Department in Leisure Lakes along County Road 621.
Hillsborough										
(Mcf)Mc Dill Afb	12	1620EST			0	3	0	0	Lightning	Three people were struck and injured while standing next to an aircraft at Macdill Air Force Base in Tampa.
Polk County										
3 SW Haines City	14	1330EST			0	0	0	0	Hail (0.88)	The public reported nickel sized hail three miles southwest of Haines City.
Pinellas County										
2 NW Clearwater Beach to Clearwater Beach	14	1506EST			0	0	0	0	Waterspout	A Skywarn Spotter reported a waterspout two miles northwest of Clearwater Beach.
Hillsborough										
3 SW Tampa to Tampa	14	1640EST			0	0	0	0	Thunderstorm Wind (G50)	A Skywarn Spotter reported a 58 mph wind gust along Bayshore Boulevard in Tampa.
Hillsborough										
7 NW Tampa	14	1650EST			0	0	5K	0	Thunderstorm Wind	Tampa cable station Bay News Nine reported that thunderstorm winds toppled a few large trees and caused minor to moderate roof damage to a home in the Town N' Country area.
Hillsborough										
18 SE Tampa to 26 SE Tampa	14	1741EST 1755EST			0	0	50K	0	Thunderstorm Wind	Hillsborough county sheriffs department and WFLA-TV of Tampa reported that thunderstorm winds produced a widely scattered damage swath from Boyette and Hobson-Simmons Roads to State Road 39 in rural southeast Hillsborough county. A barn roof was removed, a few sheds were rolled and four large trees were toppled along Hobson-Simmons Road while power lines and a few large trees were downed along the 16000 block of Boyette Road by thunderstorm winds. A mobile home had most of its roof removed along State Road 39 near Wendel Avenue while several large trees were downed along Nickols Road by thunderstorm wind.
Hillsborough										
18 SE Tampa	14	1745EST			0	0	0	0	Hail (0.75)	The public reported through Tampa's WFLA-TV dime to mothball sized hail along and near the intersection of Hobson-Simmons and Boyette Road.
Polk County										
13 S Mulberry	14	1820EST			0	0	0	0	Hail (1.75)	Golfball sized hail was reported by a park ranger near the intersection of State Roads 37 and 674 over rural southwest Polk county.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
FLORIDA, West Central									
Hillsborough									
23 SE Tampa	14	1845EST			0	0	1K	0	Thunderstorm Wind
Tampa cable station Bay News Nine reported thunderstorm winds downed two large trees near the intersection of State Road 39 and County Road 672 in rural southern Hillsborough county.									
Pinellas County									
8 SSW St Petersburg	14	1926EST			0	0	0	0	Waterspout
A pilot reported a waterspout west of the Sunshine Skywarn Bridge.									
Hillsborough									
3 NE Tampa to 3 E Tampa	18	0608EST 0614EST	1.8	20	0	0	275K	0	Tornado (F1)
National Weather Service damage survey concluded that a low end F1 tornado touched down sporadically east of downtown Tampa.									
The initial touchdown occurred near the intersection of U.S. Highway 41 and State Road 574 (Martin Luther King Blvd) where a few trees and large branches were downed. The tornado continued to sporadically touch down along a narrow path, one block west of U.S. Highway 41, and cause minor F0 tree and branch damage.									
The F1 damage occurred along County Road 574 (7th Avenue), one block west of U.S. Highway 41, where the tornado path widened to approximately 60 feet and caused minor to moderate roof damage to a weathered two story structure, flipped two empty 20 foot long trucks and severely damaged four large steel doors, north external wall and part of the roof of a commercial building.									
The tornado lifted and dissipated south of State Road 60 and State Road 569 (39th Street).									
Lee County									
2 N Cape Coral to Cape Coral	19	1343EST			0	0	0	0	Hail (1.00)
Skywarn Spotters reported quarter to dime sized hail in Cape Coral.									
Manatee County									
11 NW Myakka City to Myakka City	19	1400EST			0	7	0	0	Lightning
Seven migrant farm workers were struck and injured by lightning while taking refuge under a steel flatbed fruit truck during a thunderstorm along Verna Bethany Road between State Roads 70 and 64, eleven miles northwest of Myakka City. The lightning victims suffered mainly minor leg and arm injuries.									
Sarasota County									
3 E Venice to 8 SE Venice	19	1430EST			0	0	0	0	Lightning
Lightning ignited and burned nearly 100 acres of brush and scrub trees from Center Road south to near U.S. Highway 41 and State Road 777 in southern Sarasota county.									
Lee County									
Cape Coral	19	1430EST			0	0	0	0	Lightning
Lightning ignited and burned nearly 100 acres of brush and scrub trees along Pine Island Road in Cape Coral.									
Manatee County									
7 ESE Bradenton to Bradenton	19	1510EST			0	0	0	0	Hail (0.88)
Nickel to dime size hail was reported by the Manatee county emergency management along Interstate 75 between State Roads 64 and 70.									
Polk County									
5 SW Lakeland	19	1545EST			0	0	1K	0	Thunderstorm Wind
The public reported that thunderstorm winds downed a large 30 to 40 foot oak tree and toppled a few metal sheds near the intersection of Ewell and Lunn Roads.									
Polk County									
4 SW Lakeland	19	1547EST	1.5	50	0	0	75K	0	Tornado (F0)
The public reported a tornado sporadically touched down and partially tore off the roof of a mobile home, snapped or uprooted between 15 and 20 pine and orange trees and severely damaged a few sheds before it lifted and dissipated.									
Polk County									
4 SE Lakeland	19	1555EST			0	0	0	0	Hail (0.75)
Television broadcast media reported that dime sized hail occurred near the intersection of County Road 37B and the Polk County Parkway in Lakeland.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Polk County									
2 S Lakeland	19	1559EST			0	0	0	0	Hail (1.75)
Golfball sized hail was reported by the public through the broadcast media in Lakeland.									
Polk County									
4 NE Bartow to Bartow	19	1619EST			0	0	0	0	Hail (0.88)
Nickel sized hail was reported by FAA control tower personnel at the Bartow Municipal Airport.									
Polk County									
7 SW Lakeland	19	1620EST			0	0	2K	0	Thunderstorm Wind
A Skywarn Spotter reported that thunderstorm winds downed three to four large trees near the intersection of Medulla and County Line Roads.									
Polk County									
Winter Haven	19	1628EST			0	0	0	0	Hail (0.88)
Nickel sized hail was reported by the public through the broadcast media near the intersection of U.S. Highway 92 and Thornhill Road.									
Hillsborough									
Brandon to Valrico	19	1645EST			0	0	0	0	Hail (0.88)
Nickel to dime sized hail was reported by an off duty NWS meteorologist and several Skywarn Spotters from Brandon east to Valrico.									
Hillsborough									
Brandon	19	1705EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the public through the broadcast media near the intersection of Clay and Kingsway in Brandon.									
Hillsborough									
Mango to Brandon	19	1715EST			0	0	0	0	Hail (1.00)
Quarter to nickel sized hail was reported by the public from Mango to near Brandon.									
Levy County									
2 S Williston	20	1320EST			0	0	5K	0	Hail (1.00)
A Skywarn Spotter reported that quarter sized hail caused minor damage to his vehicle.									
Levy County									
Williston	20	1345EST			0	0	1K	0	Thunderstorm Wind
A Skywarn Spotter reported that thunderstorm winds downed at least two large trees along U.S. Highway 41 in Williston.									
Levy County									
Williston	20	1350EST 1405EST			0	0	20K	0	Hail (1.00)
Quarter to nickel sized hail that covered the ground white and caused minor damage to a few vehicles was reported by Skywarn Spotters in Williston.									
Levy County									
Bronson	20	1420EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by Levy County Emergency Management in Bronson.									
Hernando County									
Ridge Manor	20	1500EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds downed a large tree which damaged the roof and shattered windows of a home near State Road 50.									
Manatee County									
11 NW Myakka City	20	1645EST			0	0	0	0	Lightning
Lightning struck and burned 77 acres of brush and scrub trees near 229th Street East, north of State Road 70, and eleven miles northwest of Myakka City.									
De Soto County									
4 E Arcadia	20	1647EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the Florida highway patrol along State Road 70 four miles east of Arcadia.									
Lee County									
Lehigh Acres	20	1709EST			0	0	0	0	Hail (1.00)
Quarter sized hail that covered the ground white was reported by a Skywarn Spotter in Lehigh Acres.									
Lee County									
Lehigh Acres	20	1730EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the public through Cape Coral WZVN-TV.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Lehigh Acres	20	1750EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by a Skywarn Spotter in Lehigh Acres.									
Highlands County									
3 NW Lake Placid	20	1924EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the Florida highway patrol between U.S. Highway 27 and Lake June.									
De Soto County									
8 SE Arcadia	20	1932EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported by the public at the former Bright Hour Ranch Airport near State Road 70 eight miles southeast of Arcadia.									
Hillsborough									
Apollo Beach	21	1415EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported by an off duty NWS meteorologist in Apollo Beach.									
Manatee County									
9 E Bradenton	21	1422EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the public nine miles east of Bradenton.									
Hillsborough									
6 S Riverview	21	1437EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported by the battalion chief of the Riverview fire department at the intersection of U.S. Highway 301 and Big Bend Road.									
Pinellas County									
Pinellas Park	21	1445EST			0	1	0	0	Lightning
A man operating a backhoe was struck and knocked unconscious by the sideflash of a lightning bolt that struck nearly 50 feet away from his location along 38th Street N. near 118 Avenue N in Pinellas Park.									
Manatee County									
8 SE Bradenton	21	1450EST			0	0	0	0	Hail (1.75)
Golfball sized hail was reported in the Lakewood Ranch Estates along State Road 70 two miles east of Interstate 75 by the Manatee county sheriff department.									
Manatee County									
3 NW Myakka City	21	1515EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported at the Pacific Tomato Farm along State Road 70 by the Myakka City Grocery Store.									
Pinellas County									
Clearwater	21	1525EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by a Skywarn Spotter at the intersection of 49th Street and Roosevelt in Clearwater.									
Lee County									
Ft Myers	21	1534EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the Lee county sheriffs department near the intersection of U.S. Highway 41 and 6 Mile Cypress.									
De Soto County									
1 NW Arcadia	21	1600EST			0	0	5K	0	Thunderstorm Wind
The De Soto county sheriffs office reported that thunderstorm winds downed a few large trees and several power lines in northwest Arcadia.									
Polk County									
4.5 WSW Lakeland to 3.5 S Lakeland	21	1638EST 1646EST			0	0	100K	0	Hail (1.75)
Skywarn Spotters reported golfball to quarter sized hail from near the Hillsborough-Polk county line east to the State Road 37 (S. Florida Ave) and County Road 572 (Drane Field Dr) that caused paint damage to several vehicles in Lakeland.									

Storm Data and Unusual Weather Phenomena

May 1999

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

FLORIDA, West Central

Polk County

**2 SW Lakeland to
1 W Lakeland**

21 1642EST 1.5 50 0 0 1M 0 Tornado (F1)

A tornado initially touched down in the Heatherwood Village Mobile Home Park and caused minor to moderate damage to the roofs, carports, lanais, and awnings of over 30 mobile homes. The tornado continued to move north along Harden Boulevard and caused minor to moderate roof damage to a gas/convenience store at the intersection of W. Ariana Street and Sikes Boulevard while a strip shopping mall north of the intersection suffered minor to moderate roof damage from the F1 tornado.

The tornado continued north along Central Avenue and uprooted or snapped dozens of Live Oak and pine trees and downed at least two dozen power lines on either side of the road. Two additional mobile home rooftops were removed by tornadic wind on Inman Drive while a shed and carport were destroyed at the intersection of Dorothy Street and Central Avenue.

The tornado snapped a large tree which fell atop and caused significant structural damage to a home at the intersection of Lime Street and Veterans Avenue. The tornado lifted and dissipated north of Central Avenue and the CSX railroad tracks near the Amtrak station.

The tornado caused major roof and wall damage to two businesses while three others suffered minor damage. The tornado caused major roof, wall and chimney damage to 14 single family homes with minor to moderate roof damage to an additional 84 single family homes. The tornado caused minor to moderate roof, carport, lanais and awning damage to 36 mobile homes.

Pinellas County

4 E Clearwater

21 1645EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by the public at U.S. Highway 19 and County Road 528 (Drew St.) through Pinellas Park cable station Bay News.

Sumter County

Linden

21 1730EST 0 0 1K 0 Thunderstorm Wind

Thunderstorm winds downed a few large trees and several branches across State Road 50 which blocked traffic near Linden.

Pasco County

**2 SW Dade City to
Dade City**

21 2000EST 0 0 150K 0 Lightning

Lightning struck, burned and destroyed a 5,000 square foot concrete block home on the 36000 block of Lake Pasadena Road, west of County Road 41, and two miles southwest of Dade City.

Citrus County

Beverly Hills

22 1240EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by a Skywarn Spotter in Beverly Hills.

Citrus County

Beverly Hills

22 1324EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by a Skywarn Spotter in Beverly Hills.

Citrus County

3 SW Citrus Spgs

22 1343EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by a Skywarn Spotter three miles southwest of Citrus Springs.

Hillsborough

Riverview

22 1414EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by an off-duty NWS meteorologist in Riverview.

Hillsborough

Brandon

22 1424EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by an off-duty NWS meteorologist in Brandon.

Hillsborough

Balm

22 1441EST 0 0 1K 0 Thunderstorm Wind

Amateur Ham radio operators reported that two large trees were downed by thunderstorm winds near the intersection of County Road 672 and Balm Boyette Road.

Lee County

Bonita Spgs

22 1500EST 0 0 1K 0 Thunderstorm Wind

The public reported that thunderstorm winds downed two large trees in Bonita Springs through Ft Myers WINK-TV.

De Soto County

Nocatee

22 1550EST 0 0 0 0 Hail (0.75)

Dime sized hail was reported by an Amateur Ham radio operator in Nocatee.

Lee County

North Ft Myers

22 1715EST 0 0 20K 0 Lightning

Lightning struck and burned a mobile home on the 18,000 block of Duece Road in Ft Myers.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Levy County									
Bronson	22	2055EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported in Bronson by the Levy county sheriff department.									
Citrus County									
8.5 WSW Ozello	28	0828EST			0	0	0	0	Waterspout
The public reported a waterspout at latitude 28.8 degrees north and longitude 82.8 degrees west through the U.S. Coast Guard.									
Sumter County									
3 NNE Wildwood to 3.5 SE Wildwood	28	1652EST 1705EST			0	0	70K	0	Thunderstorm Wind
Sumter county sheriffs department and emergency management reported that thunderstorm winds caused minor roof and awning damage to six homes and downed numerous trees and power lines which blocked County Roads 114, 116, 117, 118, 121, 125, 153, 155, 163 and 468. Most of the damage to homes occurred in the Lake Miona, Orange Home and Lake Deaton areas of Sumter county.									
Polk County									
16 N Haines City to Haines City	28	1815EST			0	0	2K	0	Thunderstorm Wind
A Skywarn Spotter reported that a large fence was blown down by thunderstorm winds south of the U.S. Highway 27 and U.S. Highway 192 intersection.									
Polk County									
16 N Haines City	28	1815EST			0	0	0	0	Hail (0.75)
A Skywarn Spotter reported dime sized hail near the U.S. Highway 27 and 192 intersection.									
Citrus County									
1 E Chassahowitzka	29	1419EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds downed several large trees and caused minor damage to the roofs and lanais of a few mobile homes near the intersection U.S. Highways 19 and 98 one mile east of Chassahowitzka.									
Hernando County									
4 SE Spring Hill	29	1433EST	0.1	10	0	0	10K	0	Tornado (F0)
A short lived tornado, observed by a reserve sheriff deputy officer, touched down and uprooted several large trees at the Spring Hill Country Club.									
Sarasota County									
10 E Venice	29	1600EST 1800EST			0	0	0	0	Lightning
Lightning struck and burned over 800 acres of brush and scrub trees north and between exits 34 and 35 of Interstate 75 and the south of Carlton Reserve.									
Hillsborough									
Temple Terrace	29	1620EST			0	0	5K	0	Thunderstorm Wind
The Temple Terrace police department reported that several large trees were downed by thunderstorm winds in Temple Terrace.									
Pinellas County									
Tarpon Spgs	30	1502EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported in Tarpon Springs by a Skywarn Spotter.									
Pinellas County									
Tarpon Spgs	30	1505EST			0	0	75K	0	Thunderstorm Wind
Thunderstorm winds caused minor to moderate roof, lanai, carport, awning and glass damage to ten mobile homes in the Tarpon Shores Mobile Home Village of Tarpon Springs. Also, a Skywarn Spotter reported that thunderstorm winds damaged a large sign and downed several large trees in Tarpon Springs.									
Manatee County									
Palmetto to Bradenton	30	1645EST			0	0	0	0	Hail (1.75)
Manatee County Emergency Management reported golfball sized hail in Palmetto and dime sized hail in downtown Bradenton.									
Manatee County									
2 SW Bradenton Beach to 1.5 W Bradenton Beach	30	1704EST			0	0	0	0	Waterspout
A waterspout was reported two miles southwest of Bradenton Beach by Manatee County Emergency Management.									

Storm Data and Unusual Weather Phenomena

May 1999

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

9 SW Tampa	31	1700EST			1	0	0	0	Rip Currents
An eight year old female drowned in a rip current while swimming offshore a peninsula named Picnic Island, nine miles southwest of Tampa.									
F8IW									

FLORIDA, West Panhandle

Okaloosa County

North Portion	07	0105CST 0400CST			0	0	5K		Flash Flood
Heavy rains, from slow moving thunderstorms, caused water to cover many roads in the north part of the county. Radar estimated that eight to ten inches of rainfall fell across the north part of the county. Rainfall of 7.5 inches was reported in a gage near Blackman. Many roads, especially secondary dirt roads, had to be closed for several hours until the high water receded.									

Santa Rosa

Jay	18	1900CST 1902CST			0	0			Hail (0.75)
Dime size hail was reported just east of Jay.									

Okaloosa County

Crestview	22	1700CST 1702CST			0	0			Hail (0.75)
Dime size hail was reported just north of Crestview.									

GEORGIA, East Central

Mcduffie County

8 N Thomson	06	1245EST			0	0			Thunderstorm Wind (G60)
EOC reported trees down across northern McDuffie county.									

Lincoln County

Amity	06	1247EST			0	0			Hail (0.88)
Spotter reported nickel size hail.									

Lincoln County

New Hope	06	1250EST			0	0			Thunderstorm Wind (G50)
Sheriff reported powerlines down across southern Lincoln county.									

Columbia County

Appling to Pollards Corner	06	1257EST 1305EST			0	0			Hail (0.88)
EOC reported nickel size hail.									

Columbia County

Appling to Pollards Corner	06	1257EST 1307EST			0	2	150K		Thunderstorm Wind (G65)
EOC and damage survey found trees down all across northern Columbia county. A downburst 8 miles wide with a 4 mile focus took down many trees and damaged a few homes. An abandoned mobile home was totaled.									

Columbia County

Pollards Corner to 1 E Pollards Corner	06	1307EST 1309EST			0	0	0	0	Funnel Cloud
Sheriff tracked funnel cloud which didn't touch down.									

Mcduffie County

Boneville	13	1510EST			0	0	0		Hail (0.75)
EPD reported dime size hail.									

Lincoln County

Lincolnton	13	1620EST			0	0			Hail (0.88)
Post Office reported nickel size hail.									

Lincoln County

Double Branches	13	1627EST			0	0	0		Hail (0.75)
Spotter reported dime size hail.									

Columbia County

Appling	23	1620EST			0	0			Hail (0.75)
Spotter reported dime size hail.									

Storm Data and Unusual Weather Phenomena

May 1999

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

GEORGIA, East Central

Columbia County

Martinez	23	1630EST			0	0			Hail (0.88)
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EPD director reported nickel size hail.

GEORGIA, Lower

Glynn County

Jekyll Is	06	1500EST			0	0			Hail (0.88)
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Glynn County

Brunswick	06	1520EST			0	0			Hail (0.75)
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Glynn County

2 NE Brunswick	06	1615EST			0	0			Hail (0.75)
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Camden County

St Marys	07	1150EST			0	0			Hail (0.75)
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Wayne County

Kville	10	1700EST			0	0			Hail (0.88)
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Appling County

Graham	10	1730EST			0	0			Hail (0.75)
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Appling County

Graham	10	1730EST			0	0	2K		Thunderstorm Wind
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Large trees and power lines were blown down.

Wayne County

1 SW Kville to 1.1 SW Kville	10	1843EST	0.1	10	0	0	1K		Tornado (F0)
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Moved across open area.

Clinch County

Homerville	13	1730EST			0	0			Hail (1.75)
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Brantley County

3 W Hoboken	13	1855EST			0	0			Hail (0.75)
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Clinch County

Travisville	13	2005EST			0	0			Hail (0.75)
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Glynn County

Brunswick	14	0725EST			0	0			Hail (0.75)
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Camden County

Waverly	19	1759EST			0	0			Hail (1.00)
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Coffee County

3 N Douglas	22	1540EST			0	0	1K		Thunderstorm Wind
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Large trees were blown down.

Charlton County

Countywide	30	1600EST			0	0			Wild/Forest Fire
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More than 50,000 acres in the Okefenokee Wildlife Refuge have burnt from mid March through May.

GEORGIA, North and Central

GAZ005>009-

Murray - Fannin - Gilmer - Union - Towns - Gordon - Pickens - Dawson - Lumpkin - White - Floyd

01	0000EST				0	0			Drought
31	2359EST								

Below normal rainfall continued through May. According to the University of Georgia, this was the driest February through May period since the drought of 1925. Most of Georgia was classified as being in a severe drought and on the cusp of an extreme drought. Rainfall deficits at cooperative observer sites in much of north and central Georgia averaged 1.5 to 2 inches below normal each month February through May. Year-to-date rainfall deficits for the year through May were 7.68 inches at Atlanta; 8.20 inches at Macon; and 8.28 inches at Athens. This followed a dry 1998 summer when farmers state-wide lost \$700 million in revenue due to drought. Below normal fall and winter rainfall amounts failed to replenish soil moisture. The dry pattern was due to the cool Pacific Ocean water temperatures of a La Nina event. Although most of Georgia's crops were not in a fragile state yet, without significant rainfall soon, 1999 could be an even worse year than 1998 was for farmers.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Thomas Xrds to Senoia	05	2240EST 2255EST			0	0			Hail (0.75)
Several public reports indicated dime size hail fell for up to 5 minutes.									
Hall County									
6 W Gainesville to Gainesville	05	2249EST 2259EST			0	0			Hail (1.00)
Several reports were received from the public of 3/4 inch to 1 inch hail.									
Gwinnett County									
Snellville to Lawrenceville	05	2314EST 2322EST			0	0			Hail (1.75)
A public report indicated hail ranging from pea size up to golf ball size lasted for 8 minutes.									
Dade County									
Trenton	06	0000EST			0	0			Hail (0.88)
A spotter reported nickel size hail and wind gusts to 50 mph.									
Murray County									
Ramhurst to Chatsworth	06	0210EST 0225EST			0	0			Hail (1.75)
Two public reports indicated hail near dime size in Ramhurst and golf ball size in Chatsworth.									
Gilmer County									
Ellijay	06	0240EST			0	0			Hail (0.75)
The public reported dime size hail lasted for 4 minutes and covered the porch.									
Fannin County									
3 W Blue Ridge to 2 NW Blue Ridge	06	0300EST	1	50	0	0	50K		Tornado (F0)
Fannin county 911 and newspaper accounts agreed that a minimal tornado was responsible for damage in the Sugar Creek Road and Tennis Court Road areas. The roof of an outbuilding at the water company was torn off, an outdoor pavilion at a church collapsed, and the church received damage to its roof. Trees were knocked down in a twisted pattern and blocked roads in the area.									
Towns County									
Hiawassee	06	0330EST			0	0	20K		Thunderstorm Wind
The Towns county EMA director reported 3 structures, 2 of which were houses, were damaged when thunderstorm winds knocked trees down on them. Trees and power lines were knocked down along a 6 mile wide path.									
Cherokee County									
8 W Woodstock	06	0554EST			0	0			Hail (0.75)
A HAM operator and the Cherokee county EMA reported 3/4 inch hail.									
Haralson County									
Waco to Bremen	06	0608EST			0	0			Hail (1.75)
The public reported hail from dime size up to golf ball size.									
Paulding County									
Dallas to Hiram	06	0615EST 0630EST			0	0			Hail (0.75)
There were numerous public reports of dime size hail across Paulding county.									
Carroll County									
Temple	06	0616EST			0	0			Hail (1.75)
The public and Carroll county 911 reported dime size to golf ball size hail.									
Paulding County									
Dallas	06	0630EST			0	0	2K		Thunderstorm Wind
Paulding county 911 received a report of trees and power lines down near highway 92 north of highway 278 near Dallas. There was also a report of a funnel cloud.									
Cobb County									
Powder Spgs to Marietta	06	0635EST 0643EST			0	0	0.50K		Hail (1.00)
A spotter reported dime to quarter size hail. A public report indicated 1 inch hail broke a motorcycle windshield.									
Carroll County									
Roopville to Carrollton	06	0640EST 0648EST			0	0			Hail (0.75)
A report from a spotter and one from Carroll county 911 indicated dime size hail in the south part of Carroll county.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Cobb County									
Mableton to Marietta	06	0647EST 0720EST			0	0			Hail (1.00)
Several public reports indicated dime to quarter size hail fell across Cobb county.									
Douglas County									
Billarp to Douglasville	06	0702EST 0720EST			0	0			Hail (1.75)
There were numerous public reports of hail ranging from dime size to golf ball size. One report said hail covered the porch.									
Fulton County									
6 W Atlanta to 5 N Atlanta	06	0735EST 0800EST			0	0	50K		Hail (2.50)
Numerous large hail reports were received from the public. Sizes were mainly golf ball size with a couple of reports of hail as large as baseballs. One report said hail covered the driveway. The large hail caused damage to vehicles across the Atlanta metro area.									
Cobb County									
Smyrna to 5 S Smyrna	06	0745EST 0800EST			0	0			Hail (1.00)
A couple of public reports indicated hail up to 1 inch in diameter.									
De Kalb County									
Druid Hills to Tucker	06	0745EST 0810EST			0	0	50K		Hail (2.00)
Numerous public reports indicated large hail ranging from golf ball size up to as large as 2 inches in diameter fell across Dekalb county. Damage to vehicles occurred.									
Gwinnett County									
Norcross	06	0758EST			0	0			Hail (1.75)
The public reported golf ball size hail 4 miles west of I-85.									
Fulton County									
Atlanta	06	0800EST			0	0	1K		Thunderstorm Wind
A CNN meteorologist reported one inch hail and large trees blown down at 10th and Techwood.									
Gwinnett County									
Lawrenceville to Duluth	06	0800EST			0	0	10K		Lightning
A newspaper report indicated 3 homes were struck by lightning in the Lawrenceville and Duluth areas. Details were unknown.									
Gwinnett County									
Lilburn	06	0800EST			0	0			Funnel Cloud
The public reported funnel clouds near Lilburn and Brookwood.									
Gwinnett County									
Lilburn to Grayson	06	0805EST 0835EST			0	0	50K		Hail (2.50)
Numerous public reports indicated large hail ranging from dime to golf ball size up to as large as baseball size fell across Gwinnett county. Vehicles were damaged.									
Barrow County									
Auburn	06	0827EST			0	0			Hail (0.75)
The public reported dime size hail.									
Troup County									
La Grange	06	0902EST 0905EST			0	0			Hail (1.75)
The public reported hail from marble size up to golf ball size.									
Harris County									
Fortson	06	1015EST			0	0	50K		Lightning
A newspaper reported fire due to lightning destroyed a house in the Fortson community.									
Harris County									
Cataula	06	1019EST			0	0			Hail (1.00)
The Harris county EMA reported quarter size hail.									
Harris County									
Cataula	06	1019EST			0	0	0.50K		Thunderstorm Wind
A newspaper reported downed trees. The debris was removed by the fire department.									
Taliaferro County									
Raytown	06	1230EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Carroll County									
Clem	07	1606EST			0	0			Hail (0.75)
The public reported dime size hail.									
Cherokee County									
Woodstock	07	1610EST			0	0			Funnel Cloud
The public and a newspaper indicated 3 reports of funnel clouds.									
Paulding County									
Dallas	07	1610EST			0	0			Hail (0.75)
The public reported dime size hail.									
Paulding County									
Hiram	07	1632EST			0	0			Funnel Cloud
There were a couple reports of a funnel cloud.									
Bartow County									
2 SE Allatoona	07	1635EST			0	0			Hail (1.00)
The public reported dime to quarter size hail on the Cobb/Bartow county line.									
Cobb County									
Acworth	07	1635EST			0	0			Hail (1.00)
The public reported dime to quarter size hail on the Cobb/Bartow county line.									
Cherokee County									
5 SW Cherokee	07	1643EST			0	0	2.5K		Hail (1.75)
The public reported golf ball size hail damaged cars on Interstate 75 near Lake Allatoona.									
Carroll County									
Kansas	07	1705EST			0	0			Hail (0.75)
The public reported dime size hail.									
Troup County									
8 W La Grange to La Grange	07	1716EST 1738EST			0	0			Hail (1.75)
There were numerous reports from the public of dime to quarter size hail, with 1 report of golf ball size hail in La Grange.									
Carroll County									
Temple	07	1722EST 1725EST			0	0			Hail (1.75)
The public reported quarter size hail and the Carroll county EMA office reported golf ball size hail.									
Union County									
Blairsville to Suches	07	1745EST 1800EST			0	0			Hail (1.00)
Reports from a spotter and the public indicated quarter size hail.									
Dawson County									
8 W Dawsonville	07	1800EST			0	0	0.50K		Thunderstorm Wind
A report from the Pickens county EMA indicated trees were topped near the Pickens/Dawson county line.									
Troup County									
La Grange	07	1810EST			0	0			Hail (1.75)
The public reported golf ball size hail.									
Cobb County									
Smyrna	07	1815EST			0	0			Hail (0.75)
The public reported dime size hail.									
Lumpkin County									
Dahlonega	07	1823EST			0	0			Hail (1.00)
The public reported quarter size hail.									
Fulton County									
Alpharetta	07	1830EST 1840EST			0	0			Hail (1.00)
The public reported quarter size hail.									
Gordon County									
Calhoun	09	1700EST			0	0			Hail (0.75)
The public reported dime size hail.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Laurens County									
Cedar Grove	10	1555EST			0	0			Hail (0.75)
			A milk delivery man reported dime size hail.						
Laurens County									
Minter	10	1720EST			0	0			Hail (0.75)
			There were several reports of dime size hail by the public.						
Washington									
Sandersville to Tennille	10	1910EST			0	0			Hail (1.00)
			Washington county 911 reported quarter size hail.						
Fannin County									
Blue Ridge	13	1105EST			0	0	10K		Thunderstorm Wind
			The emergency manager reported a couple of signs, a storage building and a vehicle were damaged. The roof was ripped off the mini-storage building. Reports of a tornado could not be confirmed.						
Chattooga County									
Summerville	13	1220EST			0	0			Hail (0.75)
			Penny size hail was reported by a radio station.						
Walker County									
Rossville	13	1250EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Catoosa County									
Ringgold to 2 E Ft Oglethorpe	13	1302EST 1304EST			0	0			Hail (1.75)
			The public reported quarter to golf ball size hail.						
Bartow County									
Adairsville to Rydal	13	1309EST 1335EST			0	0			Hail (1.75)
			There were numerous public reports of hail, ranging from penny to golfball size.						
Floyd County									
2 W Coosa to 3 N Rome	13	1310EST 1325EST			0	0			Hail (0.88)
			There were several public reports of dime and nickel size hail						
Floyd County									
Silver Creek	13	1310EST			0	0	0.50K		Thunderstorm Wind
			A newspaper reported some trees down, primarily in the south part of the county.						
Polk County									
Rockmart	13	1330EST 1408EST			0	0			Hail (1.25)
			There were several reports of hail ranging from nickel to half dollar size.						
Floyd County									
Cave Spg to 3 E Rome	13	1340EST 1345EST			0	0			Hail (1.25)
			The public reported dime to half dollar size hail.						
Bartow County									
Kingston	13	1350EST			0	0			Hail (0.75)
			The public reported nickel size hail.						
Cherokee County									
Canton	13	1355EST 1405EST			0	0			Hail (1.75)
			The public reported dime to golfball size hail.						
Carroll County									
Temple to Carrollton	13	1402EST 1420EST			0	0			Hail (1.75)
			The public reported nickel, dime and golfball size hail.						
Haralson County									
Bremen	13	1408EST			0	0			Hail (0.75)
			The public reported dime size hail.						

Storm Data and Unusual Weather Phenomena

May 1999

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									
Cherokee County									
Canton to North Canton	13	1409EST 1415EST			0	0			Hail (1.25)
			The public reported dime to half dollar size hail.						
Washington									
Sandersville	13	1415EST			0	0			Hail (0.75)
			A spotter saw dime size hail.						
Cobb County									
Powder Spgs	13	1425EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Fulton County									
Atlanta to 3 E Sandy Spgs	13	1430EST 1505EST			0	0			Hail (1.75)
			There were numerous reports of hail, ranging from dime to golfball size.						
Cobb County									
Marietta	13	1435EST 1458EST			0	0			Hail (1.00)
			The public reported dime and quarter size hail.						
Coweta County									
Peeks Xing to Moreland	13	1438EST 1500EST			0	0			Hail (1.75)
			There were numerous reports of hail, ranging from dime to golfball size.						
Douglas County									
Midway	13	1439EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Forsyth County									
Cumming	13	1439EST 1458EST			0	0			Hail (1.25)
			There were numerous reports of hail, ranging from dime to half dollar size.						
Hall County									
Flowery Branch to 3 N Oakwood	13	1505EST 1515EST			0	0			Hail (0.75)
			There were 2 reports of dime size hail.						
Barrow County									
Auburn	13	1515EST 1547EST			0	0			Hail (1.50)
			The public reported dime and half dollar size hail.						
Forsyth County									
8 E Coal Mtn	13	1515EST			0	0			Hail (1.25)
			The public reported half dollar size hail.						
Hall County									
3 N Oakwood	13	1515EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Gwinnett County									
Buford	13	1517EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Clayton County									
Forest Park	13	1520EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Coweta County									
Senoia	13	1525EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Henry County									
Kellytown	13	1538EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Madison County									
Colbert	13	1545EST			0	0			Hail (0.75)
			Madison county 911 reported dime size hail.						

Storm Data and Unusual Weather Phenomena

May 1999

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									
Spalding County									
Sunny Side	13	1545EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Heard County									
Franklin	13	1550EST			0	0			Hail (0.88)
			The public reported nickel size hail.						
Emanuel County									
Swainsboro	13	1600EST			0	0			Hail (1.75)
			A radio group reported golfball size hail.						
Spalding County									
2 N Griffin to 11 E Griffin	13	1603EST 1620EST			0	0			Hail (1.75)
			There were numerous reports of hail, ranging from dime to golfball size.						
Clarke County									
Athens	13	1605EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Butts County									
2 SW Jenkinsburg to Jenkinsburg	13	1615EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Henry County									
Locust Grove	13	1615EST			0	0			Hail (1.00)
			The public reported quarter and dime size hail.						
Henry County									
Locust Grove	13	1625EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Butts County									
7 S Jackson to Jackson	13	1628EST 1635EST			0	0			Hail (1.75)
			There were numerous reports from the public of hail, ranging from quarter to bigger than golfball size.						
Emanuel County									
Twin City	13	1632EST			0	0			Hail (0.75)
			The police department reported dime size hail.						
Clayton County									
7 W Lovejoy	13	1635EST			0	0			Hail (0.88)
			The police department reported nickel size hail.						
Spalding County									
Griffin to 1 S Griffin	13	1650EST 1655EST			0	0			Hail (1.75)
			The public reported dime to golfball size hail.						
Clayton County									
Lovejoy	13	1655EST			0	0			Hail (0.75)
			The public reported penny size hail.						
Jasper County									
Monticello	13	1655EST			0	0			Hail (0.75)
			Jasper county 911 reported dime size hail.						
Henry County									
Hampton to Locust Grove	13	1657EST 1716EST			0	0	0.50K		Hail (1.00)
			The public reported dime to quarter size hail. A truck was damaged.						
Pike County									
6 E Zebulon	13	1709EST			0	0			Hail (1.75)
			The public reported golfball size hail.						
Jasper County									
5 E Monticello	13	1725EST			0	0			Hail (0.75)
			The public reported dime size hail.						

Storm Data and Unusual Weather Phenomena

May 1999

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										
Putnam County										
Flat Rock	13	1730EST			0	0	2K		Thunderstorm Wind	
									The public reported thunderstorm winds knocked a tree onto a mobile home, causing damage.	
Gordon County										
Sugar Vly to Calhoun	13	1815EST 1838EST			0	0			Hail (1.25)	
									The public reported nickel to half dollar size hail.	
Floyd County										
Armuchee to 2 N Armuchee	13	1826EST 1834EST			0	0			Hail (1.75)	
									The public reported dime to golfball size hail.	
Gordon County										
Calhoun	13	1830EST			0	0	1K		Thunderstorm Wind	
									The public reported a lot of trees down.	
Webster County										
3 N Weston	13	1840EST			0	0			Hail (1.00)	
									The sheriffs office reported quarter size hail.	
Crisp County										
Cordele	13	1855EST 1905EST			0	0			Hail (0.75)	
									The public reported dime size hail.	
Sumter County										
Americus	13	1900EST 1915EST			0	0	1K		Thunderstorm Wind	
									Sumter county 911 and the police reported several trees were blown down.	
Bartow County										
Euharlee to 5 SE Emerson	13	1920EST 1945EST			0	0			Hail (1.00)	
									The public reported dime to quarter size hail.	
Washington										
Harrison	13	1925EST			0	0			Hail (1.00)	
									Washington county 911 reported quarter size hail.	
Cobb County										
Acworth	13	1950EST			0	0			Hail (1.00)	
									The public reported dime to quarter size hail.	
Dawson County										
6 SE Dawsonville	13	1958EST			0	0			Hail (0.88)	
									The public reported nickel size hail.	
Dodge County										
Chauncey	13	2000EST			0	0	1K		Thunderstorm Wind (G60)	
									The sheriff reported several trees blown down.	
Laurens County										
Cedar Grove	13	2030EST			0	0			Hail (0.75)	
									Laurens county 911 reported dime size hail.	
Laurens County										
Cedar Grove	13	2030EST			0	0	10K		Thunderstorm Wind	
									A newspaper account said thunderstorm winds tore almost a dozen awnings off motor homes parked at the Piney Woods Lake Campground.	
Treutlen County										
3 NW Soperton	13	2045EST			0	0			Hail (0.75)	
									Treutlen county 911 and the sheriff's office reported dime size hail.	
Whitfield County										
Rocky Face	22	1235EST			0	0			Hail (0.75)	
									A spotter reported dime size hail.	
Murray County										
Chatsworth	22	1330EST 1333EST			0	0			Hail (1.00)	
									Murray county 911 and the public reported dime to quarter size hail.	

Storm Data and Unusual Weather Phenomena

May 1999

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									
Pickens County									
Jasper	22	1400EST			0	0			Hail (0.75)
		The public reported dime size hail.							
Emanuel County									
Norristown to Swainsboro	22	1415EST 1435EST			0	0			Hail (1.25)
		There were a few reports of hail, ranging from dime to half dollar size.							
Dawson County									
Dawsonville	22	1442EST			0	0			Hail (0.88)
		The public reported dime to almost quarter size hail.							
Coweta County									
Sharpsburg	22	1505EST			0	0			Hail (1.00)
		The public reported quarter size hail.							
De Kalb County									
Lithonia	22	1507EST			0	0			Hail (0.75)
		The public reported dime size hail.							
Fayette County									
Fayetteville to Inman	22	1508EST 1549EST			0	0			Hail (0.88)
		The public reported dime to nickel size hail. An NWS employee also reported 4 trees down.							
De Kalb County									
Lithonia	22	1515EST 1521EST			0	0			Hail (1.00)
		The public reported dime to quarter size hail.							
Clayton County									
Lovejoy	22	1525EST			0	0			Hail (1.00)
		The sheriff's department reported quarter size hail.							
Henry County									
Hampton	22	1525EST 1535EST			0	0			Hail (0.75)
		The public reported dime size hail.							
Rockdale County									
Conyers	22	1545EST			0	0			Hail (0.88)
		The public reported nickel size hail.							
Toombs County									
Lyons	22	2010EST 2020EST			0	0			Hail (0.75)
		Toombs county 911 reported dime size hail.							
Johnson County									
5 E Scott	22	2125EST			0	0			Hail (0.75)
		The fire department reported dime size hail.							
Emanuel County									
Adrian	22	2135EST			0	0			Hail (0.75)
		The fire department reported dime size hail.							
Henry County									
Stockbridge to Whitehouse	23	1225EST 1235EST			0	0	0.50K		Hail (1.00)
		The public reported dime to quarter size hail. Also, shingles were blown off a home near Whitehouse.							
Coweta County									
15 N Newnan	23	1330EST			0	0			Hail (0.75)
		A fire station reported dime size hail.							
Wilkes County									
Tignall	23	1347EST			0	0			Hail (0.88)
		The public reported nickel size hail.							
Greene County									
10 N Greensboro	23	1455EST			0	0	0.50K		Thunderstorm Wind
		Greene county 911 reported a couple of trees down across Penfield highway.							

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Paulding County									
Hiram to 3 SE Hiram	23	1635EST 1645EST			0	0	0.50K		Hail (0.88)
The public reported nickel size hail and telephone lines down.									
Douglas County									
Douglasville	23	1640EST			0	0	0.50K		Thunderstorm Wind
The public reported 4 large trees down.									
Cobb County									
Mableton	23	1645EST			0	0			Hail (1.00)
The public reported quarter to as big as golfball size hail.									
Fulton County									
East Pt to Atlanta	23	1700EST 1714EST			0	0			Hail (1.75)
The public reported hail, ranging from dime to golfball size.									
Clayton County									
Forest Park	23	1710EST			0	0			Hail (1.25)
The public reported ping pong ball size hail.									
Henry County									
10 SW Stockbridge	23	1734EST 1735EST			0	0			Hail (1.75)
Ther were 2 public reports of golf ball size hail.									
Newton County									
5 S Stewart	23	1800EST 1815EST			0	0	2K		Thunderstorm Wind
The public reported boat docks blown off the lake, and the county 911 center reported a couple of trees down.									
Jasper County									
13 NW Monticello	23	1810EST			0	0	1K		Thunderstorm Wind
Jasper county 911 reported a couple of trees and power lines blown down.									
Dawson County									
Dawsonville	23	1830EST			0	0	0.50K		Thunderstorm Wind
Dawson county 911 reported a couple of trees down.									
Fannin County									
2 E Hemp	23	1909EST			0	0	0.50K		Thunderstorm Wind
Fannin county 911 reported several trees down.									
<u>GEORGIA, Northeast</u>									
Rabun County									
Clayton	06	0041EST			0	0			Hail (1.00)
A severe thunderstorm produced quarter size hail shortly after midnight.									
Franklin County									
Canon	06	0900EST			0	1			Lightning
A man was struck and injured by lightning while he was cleaning a satellite dish.									
Elbert County									
5 W Elberton	13	1637EST			0	0			Hail (1.00)
Elbert County									
Elberton	13	1700EST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm produced quarter size hail followed by damaging winds which downed several trees around the city of Elberton.									
<u>GEORGIA, Southeast</u>									
Tattnall County									
Cobbtown	06	1245EST M16OU			1	0			Lightning
Effingham County									
Rincon	06	1405EST 1410EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Long County									
Ludowici	06	1540EST 1545EST			0	0			Hail (1.25)
Liberty County									
Walthourville	06	1615EST 1620EST			0	0			Hail (1.75)
Bryan County									
Richmond Hill	06	1635EST			0	0			Hail (0.75)
Chatham County									
6 NW Savannah	06	1415EST 1420EST			0	0			Hail (1.75)
Bulloch County									
Portal	13	1650EST 1655EST			0	0			Hail (0.88)
Bulloch County									
Portal	13	1700EST			0	0			Hail (1.75)
Effingham County									
Rincon	13	1830EST Trees and power lines down as well as some roof damage.			0	0			Thunderstorm Wind (G50)
Effingham County									
2 W Guyton	13	2206EST 2208EST Trees down.			0	0			Thunderstorm Wind (G50)
Candler County									
Metter	22	1526EST 1530EST			0	0			Hail (1.50)
<u>GEORGIA, Southwest</u>									
Turner County									
Dakota	06	1430EST Golfball size hail reported by Turner County EMA.			0	0			Hail (1.75)
Mitchell County									
2 S Camilla	06	1810EST Trees and power lines down reported by Mitchell County EMA.			0	0	5K		Thunderstorm Wind
Worth County									
Southeast Portion	06	1905EST Trees and power lines down reported by Worth County S.O.			0	0	5K		Thunderstorm Wind
Tift County									
Tifton	06	1928EST Golfball size hail reported by a SKYWARN storm spotter.			0	0			Hail (1.75)
Tift County									
Harding	06	1945EST Quarter size hail reported by Tift County EMA.			0	0			Hail (1.00)
Colquitt County									
Doerun	06	1950EST Golfball size hail reported by Colquitt County EMA.			0	0			Hail (1.75)
Turner County									
Ashburn	07	0930EST Numerous trees down and roof blown off courthouse reported by Turner County EMA.			0	0	80K		Thunderstorm Wind
Worth County									
Countywide	07	0945EST Numerous trees down reported by WALB-TV Albany and Worth County EMA.			0	0	2K		Thunderstorm Wind
Lee County									
5 W Palmyra	10	1635EST Dime to quarter size hail reported by a SKYWARN storm spotter.			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
GEORGIA, Southwest										
Dougherty County										
4 N Albany	10	1700EST			0	0				Hail (0.75)
			Dime size hail reported by WALB-TV Albany.							
Early County										
Blakely	13	1645EST			0	0	1K			Thunderstorm Wind
			Downed trees reported by Early County EMA.							
Lowndes County										
Moody Afb	13	1657EST			0	0	5K			Thunderstorm Wind (G67)
			Moody AFB Base weather personnel reported numerous trees and power lines down as a result of 77 mph wind gust.							
Lanier County										
Lakeland	13	1707EST			0	0				Hail (0.75)
			Dime size hail reported by Lanier County EMA.							
Baker County										
Milford	13	1730EST			0	0	10K			Thunderstorm Wind
			Baker County EMA reported minor damage to a mobile home.							
Calhoun County										
Arlington	13	1730EST			0	0	5K			Thunderstorm Wind
			Calhoun County EMA reported several large trees and high tension power lines down.							
Dougherty County										
Albany	13	1740EST			0	0				Hail (1.00)
			Quarter size hail reported by a SKYWARN storm spotter.							
Worth County										
Northwest Portion	13	1855EST			0	0				Hail (1.00)
			Worth County EMA reported quarter size hail and some trees down.							
Dougherty County										
Albany	13	1945EST			0	0	5K			Thunderstorm Wind
			Albany P.D. reported several trees and power lines down							
Decatur County										
11 N Bainbridge	22	1825EST			0	0	2K			Thunderstorm Wind
			Decatur County S.O. reported a large tree and a few power poles down on Martin Dr off SR 253.							
Decatur County										
6 NW Bainbridge	22	1915EST			0	0				Hail (0.75)
			Public reported dime size hail.							
Worth County										
1 W Sylvester	29	0030EST 0130EST			0	0	100K			Flash Flood
			Stationary cluster of thunderstorms produced nearly four inches of rain within a two-hour period. Worth County S.O. reported flash flooding on Red Rock Rd. and two residences damaged by flood waters.							

GEORGIA, West Central

Muscogee County

Columbus 06 0930EST 0 0 0 0 Thunderstorm Wind (G50)
Several trees were blown down in the Green Island subdivision near Columbus.

Stewart County

Louvale 06 1745EST 0 0 0 0 Hail (0.88)
Nickel size hail fell in Louvale.

Chattahoochee

Cusseta 13 1710EST 0 0 0 0 Hail (0.75)
Dime size hail was reported in Cusseta.

Stewart County

Louvale 13 1715EST 0 0 0 0 Hail (0.75)

Stewart County

Louvale 13 1715EST 0 0 0 0 Thunderstorm Wind (G50)
Dime size hail was reported in Louvale. Several trees were blown down east and north of Louvale.

Storm Data and Unusual Weather Phenomena

May 1999

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

HAWAII

HIZ002

Oahu

05 1630HST

0 0

Dust Devil

Probable dust devil was reported near Walmart in Kunia.

HIZ001>006

Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo /

13 0725HST
1730HST

0 0

High Surf

A storm low near New Zealand caused surf of 3 to 6 feet along south facing shores of the islands.

Kauai County

Lihue to
Hanalei

15 2225HST
16 0100HST

0 0

Urban/Sml Stream Fld

Heavy rain was observed over Kauai. Small streams had some minor flooding.

Honolulu County

Countywide

16 0110HST
0410HST

0 0

Urban/Sml Stream Fld

Heavy rainfall was observed along the Waianae Coast, near Diamond Head and Kahala, and along the North Shore near Waiialua and Haleiwa. There was ponding along streets and low-lying areas along the coast.

Honolulu County

Makakilo City to
Kaneohe

16 1600HST
17 0400HST

0 6

Urban/Sml Stream Fld

A thunderstorm which developed over central Oahu moved over to the windward side of Oahu. As much as 0.73 of an inch in fifteen minutes was recorded after 5:00 pm. Ponding of water was observed on road surfaces.

Police reported 35 traffic cases during a 12-hour period starting at 4 p.m., due to heavy rainfall that drenched parts of Oahu. There were several weather-related power outages, including a fallen pole at Waiialua that affected service to 300 customers for about two hours.

The total amount of rainfall for this event is as follows:

Waihee Pump	2.67 in.
Palisades	2.02 in.
Manoa	1.24 in.
Mililani	2.03 in.
Wheeler's AFS	2.29 in.

Kauai County

Koloa to
Anahola

16 2120HST
17 0400HST

0 0

Urban/Sml Stream Fld

Heavy rain and thunderstorm cells that developed in the Kauai Channel, caused minor flooding of small streams. Streets and drainage ditches were flooded by the heavy rainfall.

The total amount of rainfall for this event is as follows:

Anahola No.2	2.85 in.
Kapahi	2.95 in.
Wailua	2.40 in.
Hanapepe	2.53 in.

HIZ004

North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna

17 0000HST
0600HST

0 0

Light Snow

The road to the summit of Mauna Kea was closed after a "Kona" storm left an inch of ice on the roadway.

Kauai County

Koloa

30 1250HST

0 0

Funnel Cloud

A funnel cloud was observed offshore of Poipu over the water.

Storm Data and Unusual Weather Phenomena

May 1999

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

NONE REPORTED.

IDAHO, North

NONE REPORTED.

IDAHO, Northwest

NONE REPORTED.

IDAHO, Southeast

IDZ020

Upper Snake River Plain

02	1000MST								
05	0030MST				0	0			Flood

The Henry's Fork of the Snake River exceeded flood stage of 9.5 feet and crested at 9.6 feet causing some lowland flooding of pasture and entered low lying areas of Beaver Dick State Park.

IDZ021

Lower Snake River Plain

15	0330MST								
	0800MST				0	0			Heavy Snow

An unusual late spring snow storm brought heavy snow to the Snake Plains. Up to 4 inches of heavy wet snow fell on the city of Pocatello and its environs. The airport officially recorded 3.6 inches, which was the 4th heaviest snow fall ever recorded in May. The monthly total accumulation for May would also be the 4th highest at 5.0 inches.

IDZ020

Upper Snake River Plain

23	1000MST								
31	0000MST				0	0			Flood

The Henry's Fork of the Snake River began its annual spring runoff in earnest on May 23 and would remain above flood stage until June 25. Flood Stage of 9.5 feet near Rexburg was exceeded with a peak at 10.8 feet on May 31. High water resulted in flooding of low lying pasture and farm land.

Bannock County

Pocatello

29	1630MST								
					0	0	10K		Lightning

A lightning strike started a house fire which damaged the roof and attic.

IDAHO, Southwest

Ada County

4 N Boise

03	1340MST								
					0	0			Lightning

During the afternoon of May 3rd a thunderstorm over Boise sent a bolt of lightning onto the Crane Creek Country Club golf course. Three golfers were knocked down when a the lightening struck the ground near by. None of the golfers felt an electric shock but the explosion knocked them to the ground. Medical authorities summoned to the scene determined that there were no injuries to the golfers.

ILLINOIS, Central

Clay County

Xenia to Flora

05	1327CST								
	1345CST				0	0			Hail (1.00)

Jasper County

5 S Newton

05	1422CST								
					0	0			Hail (0.75)

Crawford County

Oblong

05	1450CST								
					0	0			Hail (0.88)

Richland County

Olney to 1 S Stringtown

05	1705CST								
	1711CST				0	0	10K		Thunderstorm Wind

A severe thunderstorm moved across Richland county. As it moved into Olney winds blew down the roof over a hotel swimming pool and meeting room area. The debris from the roof damaged several vehicles in the hotel parking lot. As the storm moved to the northeast it blew down numerous trees and power lines. One mile south of Stringtown, a barn and a silo were destroyed. No injuries were reported and damage to the hotel was estimated around \$10,000.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Clay County									
Louisville	05	1710CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several trees near the county courthouse in Louisville.									
Jasper County									
Newton to Willow Hill	05	1725CST 1730CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew some construction culverts onto Route 33 near Newton. Also, several trees were blown down between Newton and Willow Hill.									
Crawford County									
Oblong to Robinson	05	1727CST 1745CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several trees and power lines. One large tree limb fell causing minor damage to a car in Oblong. No damage estimate was available.									
Shelby County									
Westervelt to 3.5 W Findlay	05	1747CST 1748CST			0	0			Hail (1.00)
Logan County									
2 SSW Broadwell to 1.5 E Broadwell	05	1900CST 1910CST			0	0			Hail (1.25)
Sangamon County									
2 E Divernon to Buffalo	05	1905CST 1925CST			0	0			Hail (0.88)
McLean County									
Covel	05	1930CST			0	0			Hail (0.75)
Logan County									
Mt Pulaski	05	1942CST			0	0			Hail (0.75)
Woodford County									
1 W Benson	05	2013CST			0	0			Hail (1.75)
Mason County									
Easton	12	1440CST			0	0			Hail (1.00)
Mason County									
5 N Easton	12	1450CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew 2 semi's off the road at the intersection of Routes 136 and 10. Neither of the driver's sustained any injuries.									
Tazewell County									
Green Vly	17	0047CST			0	0			Hail (0.88)
Clay County									
Flora	17	1535CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several power lines and large tree limbs.									
Richland County									
Noble to Olney	17	1556CST 1602CST			0	0	0		Thunderstorm Wind
Numerous trees, power poles, and power lines downed throughout the county. One vehicle sustained moderate damage when a tree fell onto it in Olney. Just west of Olney a tree fell onto a mobile home causing minor damage.									
Jasper County									
Countywide	17	1610CST 1620CST			0	0	0		Thunderstorm Wind
Several trees were blown down across Jasper County.									
Lawrence County									
Lawrenceville to Russellville	17	1618CST 1638CST			0	0	0		Thunderstorm Wind
Numerous trees and power lines were blown down. Trees fell onto 4 houses in Russellville causing minor roof damage.									

Storm Data and Unusual Weather Phenomena

May 1999

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

Crawford County

Hardinville to Palestine	17	1620CST 1645CST			0	0	0		Thunderstorm Wind
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Numerous trees and power lines were blown down in Hardinville, Oblong, Robinson and Palestine. A tree fell onto a house in rural Robinson causing minor damage.

ILLINOIS, Northeast

La Salle County

Utica	05	2017CST			0	0			Hail (1.75)
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Golf ball size hail was reported by a ham radio operator at Starved Rock State Park.

Ogle County

2 E Brookville to 3 NW Polo	12	1445CST 1510CST	1	20	0	0			Tornado (F0)
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Ogle County

4 S Forreston	12	1555CST			0	0			Hail (1.75)
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Ogle County

West Portion	12	1645CST 2300CST			0	0			Flash Flood
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A series of strong slow moving thunderstorms hit western Ogle County. Funnel clouds or weak landspout tornadoes were reported southeast of Brookville and northwest of Polo. As many as 4 were spotted. There was no damage. Golf ball size hail was reported south of Forreston. The storms dumped heavy rain over parts of western Ogle County from mid afternoon well into the evening hours. Doppler radar indicated as much as 6 and a half inches of rain fell in a couple hours. The heavy rain caused flooding of low areas and creeks. Highway 64 was closed due to high water. The most serious flooding was along Pine Creek. The flooded creek washed out 3 sections of Lowell Park Road and two bridges. A car was stranded by rising flood waters on a bridge on Lowell Park Road. The driver had to be rescued by a tractor. Flooding of Pine Creek caused damage to White Pines State Park. A bridge was washed out. Flood waters swept about 30 picnic tables away. Two homes across the road from the park were flooded. The deck of one house was washed away.

Mchenry County

Harvard to Mc Henry	16	1745CST 1750CST			0	0			Hail (1.75)
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Lake County

Zion	16	1857CST 1915CST			0	0			Hail (1.00)
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Hail fell over parts of Mc Henry and Lake Counties. Golfball hail was reported at Harvard, quarter size hail north of Mc Henry, and nickel to one inch diameter hail was reported in northern Lake County. Trees were also down in Harvard.

Lee County

Amboy	16	2330CST 2340CST			0	0			Thunderstorm Wind (G50)
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Ogle County

Forreston to Chana	16	2335CST 2355CST			0	0			Thunderstorm Wind (G50)
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Boone County

Belvidere to Capron	17	0015CST 0030CST			0	0			Thunderstorm Wind (G50)
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Lake County

2 SW Wauconda to 1 NE Wauconda	17	0045CST 0055CST			0	7			Thunderstorm Wind (G50)
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Cook County

Schaumburg	17	0130CST			0	0			Hail (0.75)
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Thunderstorms produced damaging downburst winds throughout north central and northeast Illinois in the late night and early morning hours of the Sunday May 16th and Monday May 17th. In Lee County, trees were downed in Harmon. At a farm, a shed was destroyed and a large out building was blown into a farm house. Trees were blown down in Amboy. One tree limb fell on a house. The roof of a tavern was torn off. At a campground 4 miles east of Amboy, a camper was overturned. Trees and limbs were down elsewhere in the county. In Ogle County, trees were down in Forreston. Two farms were damaged near Chana at Flag Road and Sweeney Road. Several buildings were damaged or destroyed. A house was moved off its foundation. Nickel size hail was also reported with the storm. A house was damaged on the Lee/Ogle County Line. In Boone County, an addition to a high school that was

Storm Data and Unusual Weather Phenomena

May 1999

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

ILLINOIS, Northeast

under construction collapsed. North of Belvidere, trees were blown down and farm buildings were damaged on Poplar Grove Road. A tree fell on a house and a silo was blown over. There was also tree damage near Capron.

The most extensive damage was in Lake County near Wauconda in a swath about 4 miles long and 1 mile wide. There were tree limbs down in Tower Lakes along and north of Roberts Road and along Route 59. The most extensive damage was to a trailer park at Route 59 and 12. Winds knocked down tree many limbs and a few large trees were uprooted. Trees and limbs fell on homes and sheds. Trailer skirting and awnings were destroyed and strewn about the neighborhood. Thirty nine mobile homes were damaged and seven people were injured in the trailer park. Tree limbs were also blown down through the south and east parts of Wauconda.

La Salle County

La Salle	17	0930CST			0	5			Lightning
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Lightning struck the flagpole at Hall High School. A side flash affected 5 students sitting near windows in a 4th floor classroom. One student was taken to a hospital. The others suffered only a minor tingling sensation.

Livingston County

5 S Dwight	17	0945CST			0	0			Thunderstorm Wind (G50)
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Will County

Wilmington to New Lenox	17	0950CST 1000CST			0	0			Thunderstorm Wind (G50)
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Cook County

Country Club Hills to Alsip	17	1010CST			0	0			Thunderstorm Wind (G50)
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A small intense thunderstorm cluster developed in Livingston County and raced northeast through Will County and into southern Cook County. Wind damaged a barn and a shed near Dwight. Power poles were also blown down. In Will County, trees were blown down in Wilmington and a tree fell on a house in Manhattan. A semi tractor-trailer was overturned on Laraway Road and Cherry Hill Road near New Lenox. In Cook County, part of the roof of a school was peeled off in Country Club Hills. There were no injuries to the students. The roof of an industrial building in Alsip was also damaged.

Kane County

Aurora	30	1830CST			0	0			Thunderstorm Wind (G50)
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A microburst damaged tree limbs and power lines in a small section of Aurora. A large tree limb fell on the roof of a house.

ILLINOIS, Northwest

Carroll County

3 E Lanark	12	1450CST			0	0			Hail (0.75)
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Carroll County

2 NE Milledgeville	12	1456CST	0.1	10	0	0			Tornado (F0)
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Law enforcement officials reported a brief tornado. No damage was reported.

Whiteside County

2 W Sterling	12	1530CST			0	0			Funnel Cloud
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Carroll County

5 S Mt Carroll	12	1544CST			0	0			Funnel Cloud
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Whiteside County

Fulton	12	1625CST			0	0			Hail (0.75)
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Whiteside County

Fulton	12	1625CST			0	0	0.10K		Thunderstorm Wind
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Severe thunderstorm winds downed large tree limbs.

Whiteside County

5 S Morrison	12	1625CST			0	0			Funnel Cloud
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Whiteside County

3 NE Prophetstown	12	1630CST			0	0			Funnel Cloud
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Carroll County

Milledgeville	12	1700CST			0	0	20K		Heavy Rain
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Localized heavy rain caused basement walls in 2 separate houses to collapse. Up to 4 feet of mud poured into the basements. Damage to each house and the contents was estimated at \$10,000.

Whiteside County

3 NE Erie	12	1701CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

May 1999

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

Whiteside County

5 S Morrison 12 1724CST 0.1 10 0 0 **Tornado (F0)**
Law enforcement officials reported a brief tornado south of Morrison. No damage was reported.

Whiteside County

.5 N Sterling 12 1730CST 0 0 **Funnel Cloud**
Severe thunderstorms moved through northwestern Illinois during the afternoon and early evening hours, producing two tornadoes, very heavy rain, and numerous funnel clouds. The first tornado was reported in Carrol County northeast of Milledgeville. The second tornado was spotted in Whiteside County south of Morrison. No damage was reported with either tornado and both were rated F0.

Torrential rainfall saturated the ground across much of the area. Two homes in Milledgeville suffered extensive damage to their basements when the water-laden ground caused walls in their basements to collapse.

See preceding individual Storm Data entries for further details and additional reports.

Jo Daviess County

East Dubuque 16 2000CST 0 0 **Hail (1.75)**

Jo Daviess County

Menominee 16 2000CST 0.1 10 0 0 **Tornado (F0)**

Jo Daviess County

East Dubuque 16 2200CST
17 0000CST 0 0 **Flash Flood**

Water 2 to 3 feet deep flowed down Wisconsin Avenue, which ironically had been under construction for a storm-drainage system. The flash flooding left 10-15-foot crevices in the road. Basements of many businesses were filled with water, and about 100 homes were evacuated during the early morning hours. The flash flooding washed away more than a dozen cars in East Dubuque. One truck was pushed into a train bridge, forcing the fast-water rescue of its driver and a passenger.

Jo Daviess County

East Dubuque 16 2259CST 0 0 **Flash Flood**
Portions of the lower flats were evacuated due to flooding. Bridges on Menominee Road and North Apple Canyon Lake Road #1 were under water.

Whiteside County

Fulton 16 2301CST 0 0 **Funnel Cloud**

Stephenson

Freeport 16 2305CST 0 0 8K **Thunderstorm Wind**
Severe thunderstorm winds downed 8 trees and a traffic signal.

Whiteside County

Fulton 16 2310CST 0 0 0.50K **Thunderstorm Wind**
Trees were downed by severe thunderstorm winds.

Carroll County

Shannon 16 2315CST 0 0 90K **Thunderstorm Wind**
Severe thunderstorm winds first blew apart a hog shed, which caused power lines to fall onto a barn. The barn and about 400 head of hog were lost in the resulting fire.

Stephenson

Orangeville 16 2325CST
2330CST 0 1 40K **Thunderstorm Wind**
Severe thunderstorm winds rolled a mobile home trailer over and destroyed it. The occupant of the trailer suffered 2 dislocated shoulders, cuts, and abrasions.

Stephenson

Freeport to Cedarville 16 2330CST 0 0 15K **Thunderstorm Wind**

Severe thunderstorm winds downed trees and power lines from Freeport through Cedarville to Rock Grove, including several at the Cedarville Cemetery. Some trees fell onto and blocked Highway 26. At the Dornink Airport in rural Cedarville, 2 hangars were destroyed and a third hangar lost its roof.

Whiteside County

7 NW Morrison 16 2330CST 0 0 **Funnel Cloud**

Whiteside County

Morrison 16 2330CST 0 0 **Funnel Cloud**

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ILLINOIS, South									
Williamson									
3 S Hudgens	05	1330CST			0	0			Thunderstorm Wind (G57)
		Gusts around 65 MPH were observed just north of the Lake of Egypt.							
Williamson									
3 S Hudgens to 3 E Marion	05	1335CST 1345CST			0	0	50K		Hail (2.75)
		A supercell thunderstorm entered southern Williamson County near the Lake of Egypt. Hail up to baseball size occurred on the north side of Lake of Egypt, near Hudgens. In the city of Marion, hail up to the size of quarters fell.							
Wayne County									
1 N Zenith	05	1337CST			0	0			Hail (1.00)
Johnson County									
Goreville	05	1340CST			0	0			Hail (1.00)
		The storm intensified rapidly into a supercell as it moved northward through northern Johnson County. Although only one-inch hail was reported at Goreville, hail up to baseball size fell just over the Williamson County line near Lake of Egypt.							
Gallatin County									
Shawneetown to 6 NE Ridgway	05	1630CST 1640CST			0	0	60K		Thunderstorm Wind
		In Shawneetown, thunderstorm winds downed several large trees measuring 12 to 14 inches in diameter. Some of the trees fell on homes and a truck. Siding and roofing damage occurred to a few houses. The damage occurred over a three-block area. Six miles northeast of Ridgway, several large trees were down. Power poles were down at Old Shawneetown and Junction.							
White County									
1 W New Haven to New Haven	05	1630CST			0	0	40K		Thunderstorm Wind
		In New Haven, numerous trees and three power lines were down, doing some damage to homes and outbuildings. The roof of a building was peeled off one mile west of New Haven. A tree fell on a vehicle, and a metal outbuilding was blown over.							
Wabash County									
Mt Carmel	05	1640CST			0	0	5K		Thunderstorm Wind (G50)
		Trees were blown down.							
ILZ092									
Alexander									
	08 10	0400CST 0900CST			0	0			Flood
		Very minor flooding of the Ohio River occurred near the confluence of the Mississippi River. High water levels on the Mississippi backed a short distance up the Ohio River, causing the gage at Cairo to rise a few inches above flood stage. Some bottomlands and low-lying areas were flooded.							
Alexander County									
Willard to 4 E Miller City	17	1418CST			0	1	75K		Thunderstorm Wind (G70)
		A wood-frame house sustained major damage to its roof and an attached garage. The garage was totally destroyed. A large section of the house's roof was blown off. A woman, who was standing in front of the window when the storm hit, received cuts to an artery in her neck. She was hospitalized overnight. Heavy rain coming through the damaged roof caused extensive water damage. About half a dozen trees were uprooted or snapped. Near the community of Willard, a garage was severely damaged by high winds. The walls of the garage were bowed outward, and the door was caved in.							
Johnson County									
Cypress to 4 NE Vienna	17	1420CST 1435CST			0	0	75K		Thunderstorm Wind (G70)
		Numerous trees and power lines were down near Cypress. One tree fell on a house. Several miles northwest of Vienna, winds unroofed a double wide mobile home and downed trees, one of which landed on the corner of the mobile home. Four miles northeast of Vienna, numerous large trees were uprooted, and a house received shingle damage. One of the downed trees landed on a house, causing minor damage. A television antenna was toppled, and the latticework was torn off the patio of the house. Several other houses received minor roof damage 6 miles east of Vienna. Downed trees closed short sections of State Routes 37, 146, 147, and about 20 county roads.							
Pulaski County									
Mounds to Mound City	17	1420CST			0	0	40K		Thunderstorm Wind (G56)
		A semi trailer rig were blown over on Interstate 57 near Mounds. In Mounds, 25 to 30 trees were blown down, shingles were torn off a few roofs, and windows were blown out. Several roofs were blown off in Mound City.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ILLINOIS, South									
Union County									
Countywide	17	1425CST			0	0	250K		Thunderstorm Wind
High winds from a line of thunderstorms caused widespread damage across Union County. Hundreds of downed trees and power lines were reported. In Cobden, community officials estimated 100,000 dollars damage occurred. Children escaped injury at an elementary school in McClure when storms blew off the gymnasium's roof. Damaging winds caused extensive damage in Anna, where numerous trees and limbs were blown down. A one-story frame house in Anna was flattened by a falling tree. In Jonesboro, there were small trees down and 10-inch diameter limbs. Two houses in Jonesboro sustained some of the worst storm-related damage due to trees smashing into them. Power was out for more than 12 hours in some areas, prompting the cancellation of some schools the following day. In East Cape Girardeau, grain bins were heavily damaged.									
Jackson County									
Carbondale	17	1428CST			0	0	3K		Thunderstorm Wind (G52)
Wind gusts estimated near 60 MPH downed tree limbs.									
Massac County									
Metropolis	17	1442CST			0	0	5K		Thunderstorm Wind (G52)
Scattered trees and power lines were blown down.									
Williamson									
Marion	17	1443CST			0	0			Hail (0.75)
Dime size hail was reported at the mall.									
Williamson									
Marion	17	1445CST			0	0	35K		Thunderstorm Wind (G52)
Numerous tree limbs and a few large trees were blown down. One large tree fell on a house. Streets and roads were blocked by fallen trees, mainly in the southern and eastern portions of the city. Several thousand utility customers were without power for 24 hours or more.									
Jefferson County									
Scheller to Waltonville	17	1455CST			0	0	10K		Thunderstorm Wind (G52)
Scattered trees and limbs were blown down, mainly south of Mount Vernon. A utility company reported most of the tree damage was near Waltonville and Scheller. In Mount Vernon, a large tree fell on an outhouse, and a television antenna at the same residence was blown down.									
Saline County									
Countywide	17	1500CST			0	0	20K		Thunderstorm Wind
Tree limbs and power lines were down countywide. A few landed on roofs. A gas station was damaged near Carrier Mills. In the community of Ledford, large trees were uprooted, including one that displaced a shed and fell on a house.									
Franklin County									
2 N Whittington	17	1500CST			0	0	3K		Thunderstorm Wind (G52)
Emergency management officials reported a tree down across Highway 37. Gusts were estimated near 60 MPH.									
Wayne County									
Wayne City	17	1500CST			0	0	3K		Thunderstorm Wind (G52)
Wind gusts estimated around 60 MPH blew down power lines.									
Pope County									
Golconda	17	1510CST 1525CST			0	0	50K		Thunderstorm Wind
Two south-facing windows were blown out of the courthouse in Golconda, and a 30 by 40 foot section of its roof was blown off. Numerous trees and power lines were down in Golconda. The upstairs part of the building sustained water damage.									
Wayne County									
Sims	17	1512CST			0	0			Hail (1.75)
Golf ball size hail was reported.									
Hardin County									
Countywide	17	1515CST 1525CST			0	0	10K		Thunderstorm Wind (G52)
Trees and power lines were down at scattered locations around the county.									
Gallatin County									
Ridgway	17	1530CST			0	0	5K		Thunderstorm Wind (G52)
Gusts to 60 MPH downed tree limbs and power lines.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
ILLINOIS, South									
White County									
Norris City	17	1545CST			0	0	20K		Thunderstorm Wind
Two grain bins, with capacities of 15,000 and 4,000 bushels, were demolished. A one-story home just northeast of the grain bins was unroofed. Trees were down.									
Edwards County									
Albion	17	1555CST 1605CST			0	0	100K		Thunderstorm Wind (G56)
Several buildings were damaged, and numerous trees and power lines were down. At least a couple of trees landed on homes and vehicles. One tree blocked Route 15 temporarily. An office building was damaged when its brick chimney blew over and fell through the roof. At least a couple of buildings received broken windows. Another building sustained minor roof damage. The damage appeared to be greatest over northern parts of the city.									
Wabash County									
Mt Carmel	17	1615CST			0	0	10K		Thunderstorm Wind (G52)
Gusts were reported to 60 MPH by emergency management personnel. Scattered trees and limbs were blown down in the vicinity of Route 1 south of Mount Carmel. One large tree fell on a house.									
Wabash County									
Mt Carmel	17	1615CST			0	0			Hail (0.75)
ILLINOIS, Southwest									
Marion County									
2 S Iuka	05	1315CST			0	0			Hail (1.50)
The county sheriff reported 1 1/2 inch hail.									
Washington									
Radom	05	1628CST			0	0			Hail (1.75)
The county sheriff reported golfball size hail near Radom.									
Washington									
1 SE Ashley	05	1640CST			0	0			Hail (1.00)
Washington									
Dubois	05	1700CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail along Highway 15 southeast of Ashley. The County Sheriff reported 1 inch hail at Dubois.									
Marion County									
Kell	05	1643CST			0	0			Hail (1.75)
Marion County									
Iuka	05	1645CST			0	0			Hail (0.75)
The State Police reported golfball size hail at Kell while the Sheriff Department reported 3/4 inch hail at Iuka.									
Marion County									
1.5 E Kell to 1.7 SE Kell	05	1705CST 1707CST	0.2	75	0	4			Tornado (F1)
A brief tornado destroyed a mobile home, 2 outbuildings and downed several trees just east of Kell. The 4 occupants of the mobile home were treated for minor injuries.									
Adams County									
Quincy	16	1635CST			0	0			Hail (0.75)
Adams County									
3 E Quincy	16	1645CST			0	0			Hail (1.75)
Storm spotters reported golfball size hail east of Quincy and 3/4 inch hail in town.									
Adams County									
Camp Pt	16	1710CST 1715CST			0	0			Hail (0.75)
Storm spotters reported that 3/4 inch hail fell for about 5 minutes in Camp Point.									
Pike County									
Griggsville	17	0145CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail in Griggsville.									
Washington									
Okawville	17	1410CST			0	0			Thunderstorm Wind (G55)
The County Sheriff reported trees and power lines down.									
Clinton County									
Germantown	17	1415CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>ILLINOIS, Southwest</u>									
Clinton County									
Hoffman	17	1425CST			0	0	75K		Thunderstorm Wind (G55)
Thunderstorm wind gusts downed trees in Germantown. In Hoffman, 8 structures suffered some degree of damage. One home lost most of its roof with the debris then causing damage to another home. Another home lost part of its roof and several windows. Trees and power lines were also downed by the wind gusts.									
Marion County									
Centralia	17	1445CST			0	0			Thunderstorm Wind (G55)
The County Sheriff reported trees down on the east side of Centralia.									
<u>INDIANA, Central</u>									
Knox County									
4 E Vincennes	05	1900EST 1901EST			0	0			Thunderstorm Wind (G50)
Brown County									
5 NE Nashville	05	2017EST 2019EST			0	0			Thunderstorm Wind (G50)
Bartholomew									
2 S Taylorsville	05	2030EST 2031EST			0	0			Thunderstorm Wind (G50)
Johnson County									
Edinburg	05	2030EST 2031EST			0	0			Thunderstorm Wind (G50)
Brown County									
Bean Blossom	05	2041EST 2042EST			0	0			Thunderstorm Wind (G50)
Shelby County									
5 N Shelbyville	05	2043EST 2044EST			0	0			Thunderstorm Wind (G50)
A cluster of severe thunderstorms downed numerous trees across south central parts of Indiana.									
Tipton County									
Windfall	17	1413EST 1415EST			0	0			Hail (1.00)
Howard County									
West Liberty	17	1422EST 1424EST			0	0			Hail (0.75)
Hendricks County									
Plainfield	17	1543EST 1545EST			0	0			Hail (0.88)
Owen County									
Freeman	17	1555EST 1557EST			0	0			Hail (1.75)
Hamilton County									
Carmel	17	1605EST 1608EST			0	0			Hail (1.00)
Morgan County									
3 SE Monrovia to 3 E Monrovia	17	1623EST 1626EST			0	0			Hail (0.75)
Monroe County									
Bloomington	17	1625EST 1626EST			0	0			Thunderstorm Wind (G50)
Owen County									
Gosport	17	1630EST 1631EST			0	0			Thunderstorm Wind (G50)
Monroe County									
Ellettsville	17	1632EST 1634EST			0	0			Hail (0.75)
Lawrence County									
2 N Bedford	17	1638EST 1640EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Madison County									
Frankton	17	1639EST 1641EST			0	0			Hail (1.00)
Marion County									
Indianapolis	17	1640EST 1642EST			0	0			Hail (0.88)
Hendricks County									
Friendswood	17	1643EST 1645EST			0	0			Hail (0.75)
Morgan County									
2 NE Paragon	17	1645EST 1647EST			0	0			Hail (0.75)
Marion County									
Indianapolis	17	1647EST 1649EST			0	0			Hail (0.75)
Monroe County									
Unionville	17	1710EST 1712EST			0	0			Hail (0.75)
Owen County									
Gosport	17	1713EST 1714EST			0	0			Thunderstorm Wind (G50)
Marion County									
2 E Indianapolis Intl Ar	17	1715EST 1716EST			0	0			Thunderstorm Wind (G50)
Johnson County									
Princes Lakes	17	1730EST 1731EST			0	0			Thunderstorm Wind (G50)
Marion County									
2 E Speedway	17	1735EST 1736EST			0	0			Thunderstorm Wind (G50)
Knox County									
Vincennes	17	1739EST 1740EST			0	0	75K		Thunderstorm Wind (G50)
Knox County									
Oaktown	17	1740EST 1741EST			0	0			Thunderstorm Wind (G50)
Daviess County									
Washington to Odon	17	1750EST 1751EST			0	0			Thunderstorm Wind (G50)
Sullivan County									
Fairbanks	17	1754EST 1755EST			0	1	20K		Thunderstorm Wind (G50)
Lawrence County									
O Oltic	17	1800EST			0	1	150K		Lightning
Lawrence County									
Bedford	17	1806EST 1807EST			0	0			Thunderstorm Wind (G50)
Greene County									
1 N Linton	17	1807EST 1808EST			1	2			Thunderstorm Wind (G50)
M6UT									
Martin County									
3 E Loogootee	17	1808EST 1809EST			0	0			Thunderstorm Wind (G50)
Sullivan County									
Countywide	17	1811EST 1826EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Daviess County									
Odon	17	1815EST 1816EST			0	0			Thunderstorm Wind (G50)
Owen County									
Cunot	17	1836EST 1837EST			0	0			Thunderstorm Wind (G50)
Morgan County									
Whitaker	17	1843EST 1844EST			0	0			Thunderstorm Wind (G56)
Brown County									
Elkinsville	17	1855EST 1856EST			0	0			Thunderstorm Wind (G50)
Putnam County									
Greencastle	17	1855EST 1856EST			0	0			Thunderstorm Wind (G50)
Putnam County									
Putnamville	17	1855EST 1856EST			0	1	20K		Thunderstorm Wind (G50)
Owen County									
2 W Spencer	17	1900EST 1901EST			0	0			Thunderstorm Wind (G50)
Bartholomew									
Ogilville	17	1907EST 1908EST			0	0			Thunderstorm Wind (G52)
Randolph County									
Losantville	17	1912EST 1913EST			0	0			Thunderstorm Wind (G50)
Jackson County									
Seymour	17	1920EST 1921EST			0	0			Thunderstorm Wind (G50)
Shelby County									
3 S Shelbyville	17	1920EST 1921EST			0	0			Thunderstorm Wind (G57)
Randolph County									
Farmland	17	1924EST 1925EST			0	0			Thunderstorm Wind (G50)
Marion County									
5 N (Ind)Indnpls Intl Ar	17	1925EST 1926EST			0	0			Hail (0.75)
Hendricks County									
Avon	17	1927EST 1928EST			0	0			Hail (0.75)
Decatur County									
Letts	17	1928EST 1929EST			0	0			Thunderstorm Wind (G55)
Brown County									
Belmont	17	1930EST 1931EST			0	0			Thunderstorm Wind (G50)
Shelby County									
Fairland	17	1935EST 1936EST			0	0			Thunderstorm Wind (G50)
Marion County									
3 S Cumberland	17	1940EST 1941EST			0	0			Thunderstorm Wind (G50)
Boone County									
2 E Rosston	17	1944EST 1947EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
INDIANA, Central									
Rush County									
2 S Milroy	17	1948EST 1949EST			0	0			Thunderstorm Wind (G56)
Hamilton County									
Noblesville	17	1952EST 1953EST			0	1			Thunderstorm Wind (G56)
Henry County									
Lewisville	17	2005EST 2006EST			0	0	5K		Thunderstorm Wind (G56)
Henry County									
New Castle	17	2005EST 2006EST			0	0			Thunderstorm Wind (G56)
Tipton County									
Windfall	17	2013EST 2014EST			0	0			Thunderstorm Wind (G50)
Randolph County									
Farmland	17	2035EST 2036EST			0	0			Thunderstorm Wind (G50)
<p>Numerous severe thunderstorms marched across central Indiana during the afternoon and evening. Hail was the main culprit during the afternoon hours, while damaging winds became more common during the evening as a squall line and embedded bow echo moved across. A 6 year old boy was killed near Linton in Greene county as a tree fell on him resulting in fatal head injuries. 2 other boys were injured as well as they took a glancing blow from the tree. Meanwhile, a woman was injured as a tree fell on her car in Faribanks, and another woman was injured as thunderstorm winds blew her car off the road in Putnamville. A tree fell on a house in Vincennes causing \$75,000 damage. Finally, lightning destroyed a house in Oolitic and injured a woman as debris struck her after lightning hit a circuit box. In general, wind gusts to near 70 mph across central Indiana caused numerous trees to fall across much of the CWA.</p>									
Lawrence County									
Bedford	17	1800EST 1900EST			0	0			Urban/Sml Stream Fld
Law enforcement reported a few streets water covered.									
Hamilton County									
Noblesville	17	2000EST			0	0	70K		Lightning
Lightning struck a house causing a fire in the attic.									
INDIANA, Northeast									
Allen County									
Yoder	05	1950EST			0	0			Hail (1.25)
Allen County									
5 SW Ft Wayne	05	1952EST			0	0			Hail (1.00)
Allen County									
Aboite	05	1955EST			0	0			Hail (1.50)
Allen County									
Ft Wayne	05	2000EST			0	0	0		Thunderstorm Wind
Power lines blown down at Exit 103 on I-69									
Allen County									
Ft Wayne	05	2005EST			0	0			Hail (1.00)
Allen County									
Ft Wayne	05	2009EST			0	0			Hail (0.88)
Allen County									
Ft Wayne	05	2012EST			0	0			Hail (0.75)
Intersection of Spring and St. Mary Streets									
Allen County									
Ft Wayne	05	2012EST			0	0			Hail (0.75)
Reported at the Ft Wayne Zoo									
Allen County									
Ft Wayne	05	2026EST			0	0			Hail (0.75)
1 mile SSE of US30/I-69 Intersection									

Storm Data and Unusual Weather Phenomena

May 1999

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									
De Kalb County									
Auburn	05	2035EST			0	0			Hail (0.75)
De Kalb County									
Waterloo	05	2045EST			0	0			Hail (1.00)
Steuben County									
Pleasant Lake	05	2100EST			0	0			Hail (1.75)
Steuben County									
Fremont	05	2120EST			0	0			Hail (0.88)
Steuben County									
Clear Lake	05	2122EST			0	0			Hail (0.75)
Steuben County									
Fremont	05	2123EST			0	0			Hail (1.00)
<p>A warm front extending from Dubuque Iowa to Columbus Ohio became the focus for scattered...strong convection by early evening. 00Z raobs from Lincoln Illinois and Wilmington Ohio revealed marginal instability and wind shear. Storms quickly developed by early evening with pea to marble size hail reported with several of the storms. Additional storms developed over southwestern Allen county, Indiana where a storm split was observed. The left moving storm began to accelerate to the north and exhibited supercell characteristics. This storm was responsible for all of the severe hail reports that evening as it moved from Allen county, Indiana northward to Hillsdale county, Michigan, where it finally dissipated.</p>									
La Porte County									
4 S La Porte to 4 S La Crosse	06	1040EST			0	0	10K		Thunderstorm Wind
<p>Numerous trees and power lines down.</p>									
La Porte County									
2 SW La Porte	17	1402EST			0	0			Hail (1.00)
Elkhart County									
3 NE Wakarusa	17	1422EST			0	0	3K		Thunderstorm Wind
<p>Trees and power lines down.</p>									
Grant County									
Rigdon	17	1430EST			0	0			Hail (1.75)
Elkhart County									
Elkhart	17	1435EST			0	0	5K		Thunderstorm Wind
<p>Power lines down on Beardsley Rd. between Main and Cassopolis. Several trees blown down in Sturdy Oaks subdivision.</p>									
Grant County									
Fowlerton	17	1445EST			0	0	10K		Thunderstorm Wind
<p>Two roofs partially torn off.</p>									
Grant County									
Gas City	17	1445EST			0	0			Hail (1.75)
Grant County									
2 N Hackleman	17	1445EST			0	0	10K		Thunderstorm Wind
<p>Trailer damaged from falling trees.</p>									
Grant County									
Marion	17	1446EST			0	0			Hail (0.75)
Grant County									
Gas City	17	1500EST			0	0			Hail (1.75)
Wells County									
1 W Bluffton	17	1525EST			0	0			Tstm Wind/Hail
<p>Hail .075 inches in diameter and trees blown down.</p>									
Miami County									
Bennetts Switch	17	1530EST			0	0			Hail (1.00)
Wabash County									
Treaty	17	1620EST			0	0			Hail (0.75)
Wabash County									
Wabash	17	1621EST			0	0			Hail (0.75)
Elkhart County									
Bristol	17	1810EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>INDIANA, Northeast</u>									
Kosciusko County									
5 NW North Webster	17	1845EST			0	0			Hail (0.75)
A moist low-level atmosphere and an upper-level trough over the western Great Lakes combined to produce very unstable conditions across the region. Convection formed along a lake breeze boundary southeast of Lake Michigan. With the numerous outflow boundaries from earlier convection the thunderstorms continued to move east throughout the evening.									
Allen County									
Ft Wayne	30	1657EST			0	0			Hail (0.75)
Allen County									
Ft Wayne	30	1701EST			0	0			Hail (1.00)
<u>INDIANA, Northwest</u>									
NONE REPORTED.									
<u>INDIANA, South Central</u>									
Dubois County									
Jasper	05	1905EST			0	0			Thunderstorm Wind (G50)
Trees down									
Perry County									
Tell City	05	1925EST			0	0			Thunderstorm Wind (G50)
Power lines down									
Dubois County									
Huntingburg	17	1805EST 1815EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Perry County									
Tell City	17	1805EST			0	0			Thunderstorm Wind (G50)
Trees down									
Dubois County									
Birdseye	17	1820EST 1830EST	2	50	0	0			Tornado (F0)
A weak tornado touched down in Birdseye downing several trees.									
Crawford County									
Eckerty	17	1825EST 1830EST	0.5	75	0	0	5K		Tornado (F1)
A tornado lifted a large tree, moved it 10 to 15 feet, and then deposited it on a nearby house.									
Dubois County									
Huntingburg	17	1825EST			0	0			Hail (0.75)
Crawford County									
Eckerty	17	1830EST 1835EST	1	75	0	0	10K		Tornado (F1)
The second tornado in Eckerty downed large trees and turned over a car that was about 100 feet away from the trees. The tornado also blew out windows of one side of a house but left the chimney on the roof undisturbed.									
Orange County									
Orleans	17	1840EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Harrison County									
Corydon	17	1905EST			0	0			Thunderstorm Wind (G50)
Several trees down across northern half of county									
Washington									
New Pekin	17	1910EST			0	0			Thunderstorm Wind (G50)
Trees down across southeast Washington County									
Floyd County									
Greenville	17	1940EST			0	0			Thunderstorm Wind (G50)
Trees down									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
INDIANA, South Central									
Clark County									
Charlestown	17	1955EST			0	0			Thunderstorm Wind (G50)
		Trees down							
Jefferson County									
Deputy	17	2012EST			0	0			Thunderstorm Wind (G50)
		Trees down							
INDIANA, Southeast									
Fayette County									
1 N Bentonville	17	2004EST 2007EST	0.2	50	0	0	10K		Tornado (F0)
		A tornado touched down in a rural area toppling several trees. Numerous other trees were down across the county due to thunderstorm winds.							
Wayne County									
2 SW Centerville to 1 W Richmond	17	2010EST 2020EST	3	100	0	0	100K		Tornado (F0)
		A tornado was on the ground south of Centerville for a few miles. It destroyed a garage and caused minor damage to other structures but mainly moved through open fields. Elsewhere, strong thunderstorm winds toppled trees throughout the county causing some structural damage to a shopping center in Richmond.							
Union County									
Countywide	17	2015EST 2030EST			0	0	5K		Thunderstorm Wind (G52)
		Several trees were down countywide.							
Franklin County									
2 W Brookville	17	2028EST 2030EST			0	0	3K		Thunderstorm Wind (G50)
		Trees were blown down on St. Marys road.							
INDIANA, Southwest									
Vanderburgh									
Evansville	05	1652CST			0	0			Thunderstorm Wind (G52)
		A storm spotter reported a wind gust of 60 MPH and pea size hail.							
Posey County									
St Philip	05	1700CST 1745CST			0	0			Urban/Sml Stream Fld
		Thunderstorms dropped 1.6 inches of rain in only 45 minutes. Some minor flooding was reported.							
Posey County									
New Harmony to Wadesville	05	1705CST 1713CST			0	0	5K		Thunderstorm Wind (G52)
		Thunderstorm gusts to 60 MPH were reported from Mt. Vernon to New Harmony. In Wadesville, 25-foot tall trees were broken in half at Parkers Settlement.							
Posey County									
5 SSE New Harmony	05	1709CST			0	0			Hail (0.88)
		Nickel size hail occurred between New Harmony and Mount Vernon.							
Vanderburgh									
(Evv)Dress Arpt Evan to Stacer	05	1710CST 1720CST			0	0	5K		Thunderstorm Wind (G59)
		The automated observing system at the Evansville Airport measured a wind gust to 68 MPH. Tree limbs were down in Stacer.							
Vanderburgh									
Stacer	05	1720CST			0	0			Hail (0.75)
Gibson County									
Princeton to 1 SW Princeton	05	1723CST 1727CST			0	0	3K		Thunderstorm Wind (G52)
		Gusts to 60 MPH downed trees and power lines.							

Storm Data and Unusual Weather Phenomena

May 1999

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									
Warrick County									
Newburgh to Boonville	05	1727CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds brought down a few trees and numerous large tree limbs across the county. A gust to 56 MPH was measured at Newburgh.									
Pike County									
5 W Winslow to Winslow	05	1740CST			0	0	15K		Thunderstorm Wind (G52)
One barn was blown down and another barn was damaged several miles west of Winslow. Trees and power lines were down.									
Pike County									
1 W Arthur to 1.8 NW Arthur	05	1740CST 1742CST	1.3	150	0	0	15K		Tornado (F2)
A tornado with estimated top winds of 130 MPH produced a damage path about a mile long. Since the track was through rural areas, the only structural damage was to a garage. Many trees were down.									
Pike County									
2.5 SW Campbelltown to .5 NE Campbelltown	05	1745CST 1750CST	3	200	0	0	100K		Tornado (F2)
The tornado destroyed a mobile home and damaged about a dozen houses. Top winds were estimated near 130 MPH. There was extensive tree damage.									
Posey County									
2 E Mt Vernon	17	1601CST			0	0	10K		Thunderstorm Wind
A semi trailer was blown off Highway 62. Trees and power lines were down. The damage was likely caused by a "gustnado," a tornado-like eddy along the leading edge of the thunderstorm wind gust.									
Warrick County									
Lynnville to Boonville	17	1605CST 1620CST			0	0	30K		Thunderstorm Wind (G52)
A farmhouse near Lynnville was damaged as a thunderstorm gust front passed by. Witnesses reported seeing a tornado, which was later classified as a gustnado. Gustnadoes are tornado-like vorticies that form along the leading edge of thunderstorm gust fronts. A gust to 60 MPH was measured at Boonville.									
Vanderburgh									
Evansville to Mc Cutchanville	17	1610CST 1620CST			0	0	10K		Thunderstorm Wind (G59)
Wind gusts estimated between 65 and 70 MPH blew down power lines along U.S. 41. Trees were down in the vicinity of WIKY radio. Gusts were near 60 MPH in McCutchanville.									
Vanderburgh									
Evansville	17	1619CST			0	0			Hail (0.75)
Gibson County									
Ft Branch to Oakland City	17	1628CST			0	0	20K		Thunderstorm Wind (G52)
In Fort Branch, a metal outdoor building was thrown into a mobile home, and a trailer was damaged by a falling tree limb. In Oakland City, several trees were knocked down, and an old bank building lost some roofing. Tree limbs were down in Princeton.									
Pike County									
Countywide	17	1645CST 1705CST			0	0	50K		Thunderstorm Wind
Trees and power lines were blown down at many locations in the county. A tree fell on a house in Winslow. A road was blocked at Petersburg. Two mobile homes were destroyed at Glezen. Gusts to 60 MPH were reported at Campbelltown and Ayrshire.									
Spencer County									
Countywide	17	1649CST			0	0	15K		Thunderstorm Wind (G55)
A utility company reported trees and power lines down at locations scattered around the county. Steel siding was blown off a building at Rockport.									
IOWA, Central									
Kossuth County									
3 W Irvington	09	1730CST			0	0	100K		Thunderstorm Wind (G65)

Storm Data and Unusual Weather Phenomena

May 1999

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

IOWA, Central

Kossuth County

Algona

09 1805CST **0 0 2K** **Thunderstorm Wind (G50)**

A warm front moved north across Iowa during the late afternoon and evening hours. Thunderstorms erupted north of the front. Most of the storms were general thunderstorms, however a few did become severe as they moved across Kossuth County. High winds around 75 MPH blew through west of Irvington. Six homes and outbuildings sustained damage. Windows were broken out of several parked cars, a few grain bins were damaged, and the roof was taken off of one house. A short time later, 58 MPH winds were recorded at the AWOS site in Algona. Though these winds were not directly the result of the thunderstorms, they were the result of the outflow from the collapse of one of them.

IAZ005>007-

Kossuth - Winnebago - Worth - Hancock - Cerro Gordo - Humboldt - Wright - Franklin - Calhoun

10 1700CST **0 1 640K** **High Wind (G61)**
1900CST

A warm front had moved north into northern Iowa during the day as a cold front approached from the west. At the same time, a very strong upper level low pressure was located over the northern Rockies. Thunderstorms formed in the warm sector over Iowa as an upper level impulse moved through. These storms were mainly restricted to the southeast and south central parts of the state. They moved north during the late afternoon and early evening hours. Though the storms themselves were not severe, they were quite intense and produced gusty winds and hail up to one half inch in size. The storms began to weaken as sunset approached. During the very late afternoon and early evening hours strong winds developed to the west of the thunderstorm area. These were likely either the result of the storms collapsing and drawing higher momentum air toward the surface or by a gravity wave set off by the stronger cluster of storms. High winds of 50 to 60 MPH were common over much of the central and north central parts of the state into the early evening hours. Damage was spotty, however there was scattered tree damage and some outbuilding damage caused by the winds. The strongest winds occurred on a farm near Algona. Winds of at least 70 MPH caused significant damage to buildings and grain bins on a farm there. A semi tractor-trailer rig was blown off of Iowa Highway 3 in Humboldt County. The driver received minor injuries and damage was set at about \$15,000.

Warren County

Indianola

16 0311CST **0 0 1K** **Hail (0.88)**

Thunderstorms developed in a zone of warm air advection taking place over Iowa. Many of the storms produced marble size hail and gusty winds, however there were few reports of severe weather. One storm dropped nickel size hail on the town of Indianola as it passed overhead, causing spotty light damage.

Greene County

1 SW Scranton

16 0747CST **0 0 5K** **Hail (1.00)**

Greene County

Grand Jet

16 0815CST **0 0 15K** **Hail (1.75)**

Sac County

Lake View

16 0850CST **0 0 15K** **Hail (1.75)**

Story County

Story City

16 0920CST **0 0 1K** **Hail (0.75)**

Calhoun County

Rockwell City

16 0930CST **0 0 1K** **Hail (0.75)**

Story County

Story City

16 0930CST **0 0 1K** **Hail (0.75)**

Calhoun County

2 E Rockwell City

16 0932CST **0 0 0.50K** **Hail (0.75)**

Webster County

Barnum

16 0941CST **0 0 1K** **Hail (0.75)**

Webster County

Barnum

16 0954CST **0 0 1K** **Hail (0.75)**

Webster County

Ft Dodge

16 1002CST **0 0 2K** **Hail (0.75)**

Hardin County

Radcliffe

16 1003CST **0 0 50K** **Hail (2.50)**

Hardin County

Radcliffe

16 1005CST **0 0 1K** **Hail (0.75)**

Webster County

Ft Dodge

16 1005CST **0 0 5K** **Hail (1.00)**

Webster County

Ft Dodge

16 1010CST **0 0 20K** **Hail (1.75)**

Storm Data and Unusual Weather Phenomena

May 1999

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, Central</u>									
Webster County									
Ft Dodge	16	1011CST			0	0	20K		Hail (1.75)
Webster County									
Ft Dodge	16	1016CST			0	0	20K		Hail (1.75)
Hardin County									
3 SE Iowa Falls	16	1027CST			0	0	0.50K		Hail (0.75)
Wright County									
Eagle Grove	16	1029CST			0	0	5K		Hail (1.00)
Wright County									
Woolstock	16	1045CST			0	0	1K		Hail (0.75)
Franklin County									
Popejoy	16	1101CST			0	0	1K		Hail (0.75)
Wright County									
Rowan	16	1103CST			0	0	5K		Hail (1.25)
Franklin County									
Hampton	16	1112CST			0	0	3K		Hail (1.00)
Franklin County									
2 E Dows	16	1121CST			0	0	0.50K		Hail (0.75)
Franklin County									
2 NE Hansell	16	1123CST			0	0	10K		Hail (1.75)
Butler County									
4 SE Allison	16	1130CST			0	0	2K		Hail (1.00)
Butler County									
2 S Bristow	16	1148CST			0	0	0.50K		Hail (0.75)
Bremer County									
2 E Plainfield	16	1151CST			0	0	10K		Hail (1.75)
Franklin County									
5 SE Hansell	16	1153CST			0	0	1K		Hail (1.00)
Bremer County									
7 E Plainfield	16	1205CST			0	0	10K		Hail (1.75)
Butler County									
7 SW Allison	16	1221CST			0	0	0.50K		Hail (0.75)
Butler County									
Parkersburg	16	1230CST			0	0	1K		Hail (0.75)
Bremer County									
4 SW Sumner	16	1250CST			0	0	3K		Hail (1.00)
Black Hawk									
5 N Waterloo	16	1321CST			0	0	1K		Hail (0.75)

A very active weather pattern was in place over the central U.S. A cold front had become stationary west of Iowa and had held there for two days prior. A strong upper level jet stream was in place with Iowa falling into the rear entrance region of the speed maximum. While the cold front was off to the west of Iowa, a warm front was located to the south of the state. This set the stage for an over running precipitation event. A low level jet stream developed during the early morning hours of the 16th with very moist air flowing over the top of the warm front to the south. Surface dew points south of the front were in the low to mid 70s. The air flowing over the front at the 850 mb level had dew point values around +15 degrees C. During the predawn hours, a mesoscale convective system developed to the west of Iowa and moved east into the western part of the state. The system weakened after dumping hail over northwest Iowa, then began to intensify again during the later morning hours. Strong warm air advection continued throughout the day. This continued to feed the thunderstorms well into the afternoon. As the thunderstorms moved across the north half of Iowa they dropped very heavy rainfall. Though the ground was able to absorb the rain initially, it did set the stage for flooding later in the day. The thunderstorms produced gusty winds in many areas as well, however the main severe weather associated with the storms was hail. There were widespread reports of hail three quarters of an inch or larger in diameter. There were several reports of hail as large as golf ball size. The largest hail measured nearly the size of baseballs. Webster County was hard hit as the ground was covered by golf ball size hail that fell for a period of 10 minutes. There was damage reported from the city both to roofs as well as vehicles. Another area that was hard hit with golf ball size hail was north of the Waterloo area. The ground was also covered with hail in Bremer County.

Storm Data and Unusual Weather Phenomena

May 1999

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, Central</u>									
Crawford County									
6 W Ricketts to 1 N Deloit	16	1457CST 1527CST	16	80	0	0	500K		Tornado (F2)
Crawford County									
6 N Charter Oak	16	1504CST	0.1	25	0	0			Tornado (F0)
Crawford County									
4 W Denison to 2 W Denison	16	1515CST 1521CST	2	50	0	0	50K		Tornado (F1)
Crawford County									
2 W Ricketts	16	1530CST	0.2	25	0	0			Tornado (F0)
Hardin County									
4 S Iowa Falls	16	1557CST			0	0	0.50K		Hail (0.75)
Black Hawk									
Dunkerton	16	1600CST 2200CST			0	0	1.2M		Flash Flood
Audubon County									
Audubon	16	1633CST	0.1	20	0	0			Tornado (F0)
Black Hawk									
Waterloo	16	1640CST			0	0	1K		Hail (0.75)
Bremer County									
2 NE Klinger	16	1655CST			0	0	3K		Hail (1.00)
Bremer County									
3 S Plainfield	16	1700CST			0	0	25K		Hail (2.75)
Black Hawk									
5 W Dunkerton	16	1705CST			0	0	3K		Hail (1.00)
Bremer County									
2 S Sumner	16	1715CST			0	0	10K		Hail (1.75)
Cass County									
Atlantic	16	1720CST			0	0	2K		Hail (0.88)
Hardin County									
Iowa Falls	16	1720CST 1920CST			0	0	100K		Flash Flood
Butler County									
1 NE Allison	16	1728CST			0	0	0.50K		Hail (0.75)
Butler County									
5 SE Allison	16	1737CST			0	0	0.50K		Hail (0.75)
Dallas County									
Dallas Center	16	1755CST			0	0	25K		Thunderstorm Wind (G56)
Cass County									
Atlantic	16	1804CST			0	0	20K		Hail (1.75)
Polk County									
Ankeny	16	1823CST			0	0	10K		Thunderstorm Wind (G53)
Bremer County									
Waverly	16	1830CST 2200CST			0	0	750K		Flash Flood
Dallas County									
1.5 W Perry	16	1836CST	0.3	35	0	0	2K		Tornado (F0)
Dallas County									
2 S Perry	16	1840CST			0	0	2K		Thunderstorm Wind (G61)
Cass County									
Atlantic	16	1900CST 2215CST			0	0	100K		Flash Flood

Storm Data and Unusual Weather Phenomena

May 1999

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									
Taylor County									
10 SE Bedford to 11 SE Bedford	16	1913CST 1916CST	1.2	40	0	0	50K		Tornado (F1)
Boone County									
1 W Boone	16	1915CST			0	0	2K		Hail (1.00)
Union County									
Creston	16	1916CST			0	0	3K		Thunderstorm Wind (G59)
Polk County									
4 N Johnston	16	1926CST			0	0	1K		Thunderstorm Wind (G53)
Boone County									
Boone	16	1929CST			0	0	40K		Hail (2.75)
Clarke County									
2 W Murray	16	1930CST			0	0	20K		Thunderstorm Wind (G61)
Polk County									
Mitchellville	16	1930CST			0	0	5K		Thunderstorm Wind (G56)
Story County									
Ames	16	1952CST	0.2	30	0	0	5K		Tornado (F0)
Butler County									
New Hartford	16 17	2000CST 0000CST			0	0	150K		Flash Flood
Butler County									
New Hartford	16	2020CST			0	0	1K		Hail (0.88)
Marshall County									
Marshalltown	16	2030CST 2032CST			0	0	10K		Thunderstorm Wind (G56)
Grundy County									
2 SE Wellsburg	16	2100CST			0	0	50K		Thunderstorm Wind (G65)

As was mentioned above, the weather pattern was very active over the central U.S. A cold front had become stationary to the west of Iowa during the afternoon of the 16th. This set the stage for a serious weather situation. During the afternoon, 70 degree F. surface dew point temperatures were widespread for the first time of the season. The airmass became very unstable as the upper levels were still relatively cool. CAPE values during the few hours just prior to the development of the thunderstorms were in excess of 5000 J/kg. The situation became explosive as thunderstorms formed along and just ahead of the cold front over western Iowa. A little later in the afternoon, thunderstorms formed over northeast Iowa along the nose of the low level jet and just north of the surface warm front. These two features combined to produce a variety of severe weather across much of Iowa. The first of the severe weather broke out over west central Iowa. This was on the form of tornadoes. The strongest tornado in the Des Moines CWA touched down in Crawford County near Ricketts. The tornado was F2 strength and caused damage to 10 farmsteads along the way. One farmstead reported the house as being destroyed. The tornado had a duel structure with the two tornadoes about 2.5 miles apart north and west of Ricketts. This tornado was on the ground from near the western county line to a point north of Deloit. This was by far the strongest tornado in the CWA. There were several brief touchdowns and one that was on the ground for a couple miles, west of Denison. During the late afternoon and early evening hours, there were several reports of brief touchdowns from west central into central Iowa. One tornado touched down briefly in Audubon County, another southeast of Bedford in Taylor County destroyed a trailer there and tore a roof off of a shed. Another tornado touched down briefly in rural areas west of Perry in Dallas County. The tornado did little damage however. The same storm knocked down power lines and trees south of Perry as winds were recorded at around 70 MPH a short time later. The final touchdown was brief near Ames, in Story County. There were a few reports of high winds as the line in western Iowa transformed into more of a bow echo structure. A 67 MPH wind gust was recorded at the Creston Airport in Union County. As the storms moved across Dallas County, winds of around 65 MPH blew trees down on a commercial chicken house, killing 5000 laying hens. Winds gusted to 61 MPH at both the NWS office in Johnston and at nearby Ankeny, both in Polk County. As the bow echo continued to move north and east, winds around 65 MPH swept through the Marshalltown area. Damage was reported at a trailer court there as the skirting on some of the trailers was torn off and one of the trailer houses was nearly blown off its supports. The line of storms and high winds made its way northeast into the Wellsburg area of Grundy County, causing extensive damage on a farmstead just southeast of the town. Hail was widespread with all of the thunderstorms as they moved across the state. Many areas reported hail nearly dime size. Reports of hail of up to an inch were quite common as well. Some of the larger hail reports included golf ball size hail in Cass County at Atlantic and baseball size hail reported at both Boone in Boone County and south of Plainfield in Bremer County. Once the severe weather started to wind down, flash flooding was a fairly widespread problem, especially near the warm front over that was over northeast Iowa. The storms associated with the cold front produced flash flooding in Cass County at both Atlantic and Griswold. For the most part, the storms with the cold front were moving too quickly to cause much in the way of flooding, though urban flooding was reported in some areas. The big flooding was over the northeast part of the state. Those areas were hit twice with heavy rain and severe weather, once in the morning and once with this event. Widespread flash flooding took place in Black Hawk, Bremer, Butler, and Hardin Counties. Rains of 4 to 6 inches for the day

Storm Data and Unusual Weather Phenomena

May 1999

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

IOWA, Central

were common in these areas, as well as areas to the northeast of that. Governor Vilsack declared 12 Iowa counties disaster areas. Butler, Bremer and Black Hawk Counties in the Des Moines CWA were declared disaster areas. All of these same counties were later declared Presidential Disaster Areas. Some of the more serious damage in the Central Iowa CWA was in Black Hawk and Bremer Counties. In Black Hawk County, U.S. Highway 218 was closed for a time by flooded water. The Cedar River caused considerable flooding in the area. The town of Dunkerton was approximately 50% evacuated as waters rose. The Sewage plant there was inundated by the high water. There was damage caused to many public roadways around the county. Some of the bridges over smaller creeks were declared unsafe. The County Engineer stated damages in Black Hawk County were at least \$1,200,000, including \$560,000 in damage to ditches, roads, culverts, and bridges. Damage in the town of Dunkerton were placed at \$500,000 to public infrastructure. The county also reported \$183,000 in damages to parks. In Bremer County, numerous homes in the town of Tripoli reported sewer backups into the basements. In the town of Denver, 25 homes reported at least 6 feet of water in the basement. Of those 25 homes, five of them had basement wall damage. Fifteen business in the town had anywhere from 2 inches to 8 feet of water in the basement. Bremer County reported damages to 19 culvert sites, 55 road sites, 2 bridge abutments, and 8 driveway washouts. Damage from these items alone were at least \$200,000. In Butler County the county Engineer reported 20 to 30 sites affected with estimated damage of \$150,000. One Bridge sustained at least \$60,000 damage. Needless to say, numerous county and state roads were under water and closed as well throughout the area. The flooding in these areas was described as worse than the flooding in 1993. In many areas it was worse than the record floods of 1968. Farther to the southwest flash flooding also occurred in Cass County. Damage was not as serious there as the amount of rainfall was not as great. One basement was completely flooded in the town of Griswold. Flooding was serious enough in Atlantic to not only flood several homes but also buckle the pavement on one of the streets in town.

IAZ004>006-

Emmet - Kossuth - Winnebago - Hancock - Cerro Gordo - Pocahontas - Humboldt - Wright -

16	2100CST	0	0	7.5M	875K	Flood
20	0600CST					

May of 1999 saw several significant flooding episodes across the Des Moines CWA. For the most part, central Iowa was spared the extremely heavy rainfall that caused major, and at several locations record, flooding along rivers in the northeast and east parts of the state. The most serious flooding was caused by heavy rains during the overnight hours of May 16. The heaviest rains fell in the counties just to the northeast of the Des Moines CWA. Up to 8 inches of rain fell over parts of Fayette County with anywhere from 2 to 6 inches falling over parts of Butler, Bremer, and Black Hawk Counties. Most of the rain fell in the Cedar River basin, which includes the West Fork Cedar River, Shell Rock River, Beaver Creek, and Black Hawk Creek. Among the largest 24-hour rain gage reports within the basin were the 5.18 inches at Kesley in the upper West Fork Cedar basin and 4.75 inches at Shell Rock in the Shell Rock basin. An isohyetal analysis of the storm produced by Harry Hillaker, the State Climatologist of Iowa, showed the heavy rainfall pattern extended across north central and northeast Iowa, with much less, but still significant, rain over central and northwest Iowa. Flooding was widespread across portions of Black Hawk, Butler, and Bremer Counties, with many smaller streams and creeks spilling out of their banks. A Flash Flood Warning was issued for Butler County late on the 16th and for Black Hawk County during the morning hours of the 17th. The runoff into the tributaries of the Cedar River from all of this rainfall led to the cresting of rivers from midday on the 17th to early on the 18th. Among the most notable crests were: 16.07 feet (flood stage is 12 feet) at Finchford on the West Fork Cedar River, which was the 5th highest on record and the highest since 1993. On the Beaver Creek at New Hartford the crest of 12.89 feet (flood stage is 8 feet) late on the 17th was the 7th highest on record, and again the highest since 1993. Much of the town of New Hartford was under water and many roads closed during a site visit by the Hydrologist on the 18th. Fortunately for the residents of Cedar Falls and Waterloo, rainfall in the upper portions of the mainstem Cedar River above Charles City was less than one half inch, helping to reduce the flow on the river through these locations. The contributions from the major tributaries above was still enough to bring about a crest of 19.20 feet (flood stage is 12 feet) at Waterloo, the 9th highest on record and also the highest since 1993. With levee protection to 26 feet, the city of Waterloo was not seriously impacted by this flood. Upstream in the Cedar Falls area, there was substantial impacts, with flooding and evacuations in several residential areas. In addition to property and public damages caused by the flooding, there was considerable damage to agricultural lands. Many areas had to replant crops and over the northeast part of the state soil erosion was very serious with some farmers reporting as much as a foot loss of top soil. It is very difficult to calculate the cost of that as its effect will go on for hundreds of years.

Black Hawk

Waterloo

17	0800CST	0	0	150K	Flash Flood
	1345CST				

Heavy rainfall once again began falling over northeast Iowa during the early morning hours. Rainfall occurred at the rate of an inch or more per hour. The soils over the county were already totally saturated by the heavy rainfall of the previous evening. As a result flash flooding took place easily. The additional damage was not major as the rain served only to exacerbate the flooding situation already taking place in the county.

Calhoun County

Rockwell City

20	0045CST	0	0	1K	0.50K	Hail (0.75)
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A strong southerly flow of air brought moisture north into Iowa and produced a round of warm air advection thunderstorms to the northwest half of the state. The nocturnal thunderstorms developed well east of an approaching cold front. Even though there was no actual surface warm front in place, the thunderstorms formed at the nose of the deeper moisture in the low level jet stream. There were numerous reports of pea to marble size hail over west central into north central Iowa, but most of the hail remained below severe levels. One of the storms became stronger over Calhoun County. Hail reportedly covered the ground in the city. A few of the hail stones were up to three quarters of an inch in diameter.

Storm Data and Unusual Weather Phenomena

May 1999

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

IOWA, Central

IAZ004>006-

Emmet - Kossuth - Winnebago - Hancock - Cerro Gordo - Pocahontas - Humboldt - Wright -

21	1500CST								
25	0600CST				0	0	1.4M	280K	Flood

Once again, heavy rainfall struck Iowa. Heavy rainfall over parts of southwest and central Iowa early on the morning of the 21st led to rapid rises on the Raccoon River through Des Moines and on metro area streams and creeks. Rainfall of 1 to 3 inches in several hours caused the Raccoon river at Van Meter to rise over 5 feet in 6 hours, causing a crest of 18.21 feet on the afternoon of the 21st (flood stage is 13 feet). The downstream crest at Fleur Drive in Des Moines was 16.0 feet (flood stage is 12 feet) early on the 22nd. This flooded several roads along the river in Des Moines. Walnut Creek, which begins in Dallas County and runs through West Des Moines and Des Moines, rose very rapidly but remained just below flood stage in Des Moines, though was well out of its banks over western Polk and Dallas Counties. Fourmile Creek, on the east side of the city, also rose rapidly and exceeded its flood stage of 12 feet by almost one half foot. Though serious, this flood event was not as serious as the event that took place around mid month. According to data provided by the Iowa State Climatology Office, statewide precipitation was 4.92 inches, or .94 inches above normal. Regionally, northeast and southwest Iowa were the wettest parts of the state, while parts of northwest and southeast had below average rainfall. The month ranked the 33rd wettest May in the 127 years of record-keeping. Temperatures were near normal statewide, averaging 61.2 degrees, which is .3 degrees above the 1961-1990 normal. For the 3 spring months (March, April, and May), statewide precipitation averaged 12.23 inches, making this the 17th wettest spring in the past 127 years.

Emmet County

1 E Dolliver

27	1330CST								5K Hail (0.75)
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Winnebago

Forest City

27	1800CST					10K			Lightning
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Sac County

2 N Auburn

27	1839CST	0.1	20	0	0				Tornado (F0)
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A weak flow pattern was in place over Iowa with a broad upper level ridge of high pressure over the state. A very weak cold front sagged south into Iowa during the afternoon. Thunderstorms developed along the front, however the dynamics were quite weak and moisture was quite limited. Along the line, winds of 40 to 50 MPH were common, along with numerous reports of pea to marble size hail. A report of hail around three quarters inch in diameter was received during the early afternoon over Emmet County. There wasn't any other severe weather until the late afternoon hours. A brief spin-up tornado developed in Sac County north of Auburn as two outflow boundaries collided and a strong thunderstorm developed over the area. The tornado was very brief and no damage was reported as it touched down in open country. As the storms moved through Winnebago County lightning struck the Forest City School's wind turbine. Damage was done to the electrical equipment and the turbine was down for a few days.

IOWA, East Central and Southeast

Buchanan County

Fairbank

16	1358CST								Hail (0.75)
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Buchanan County

Fairbank

16	1705CST								Hail (1.00)
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Buchanan County

Fairbank

16	1740CST								Hail (0.88)
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Buchanan County

Fairbank

16	1758CST 1830CST								Urban/Sml Stream Fld
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Heavy rain caused tremendous urban flooding in Fairbank, with numerous alleys and yards flooded.

Buchanan County

Fairbank

16	1806CST								Hail (1.25)
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Buchanan County

Fairbank

16	1807CST								Hail (1.75)
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Jones County

3 NW Temple Hill

16	1815CST								Hail (0.75)
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Dubuque County

Dubuque

16	1955CST								Hail (1.50)
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Jones County

Monticello

16	2003CST								Hail (1.00)
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Benton County

1 E Mt Auburn

16	2110CST					0.50K			Thunderstorm Wind
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Severe thunderstorm winds downed several 30-foot trees.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
IOWA, East Central and Southeast									
Johnson County									
North Liberty	16	2125CST			0	0	5K		Thunderstorm Wind
Severe thunderstorm winds, or possibly a gustnado, uprooted a tree and damaged several others at a residence. The house sustained minor damage.									
Linn County									
Cedar Rapids	16	2138CST			0	2	500K		Thunderstorm Wind
Severe thunderstorm winds blew most of the roof off the MidAmerica Housing partnership building in northeast Cedar Rapids. Debris from the roof was blown into other buildings and interior beams were pulled away from the structure. Severe winds also blew two 18-wheel tractor-trailer trucks off Highway 380 near Center Point, causing minor injuries. In addition, at least 20 power lines were downed in the Cedar Rapids area alone.									
Keokuk County									
Sigourney	16	2148CST			0	0	35K		Thunderstorm Wind (G71)
Severe thunderstorm winds estimated at 80 mph by spotters destroyed one building and damaged others at the county fairgrounds. The roof and walls of the commercial exhibition building were torn off, scattering debris eastward into other buildings. 2x4 boards were driven into the roof of the main fair building. Damage at the fairgrounds was estimated at \$30,000 to \$35,000.									
Cedar County									
1 W Lowden	16	2200CST			0	0	10K		Thunderstorm Wind
An empty coal train was derailed on Highway 30 between Lowden and Clarence, blocking the eastbound tracks for nearly one day.									
Johnson County									
Iowa City	16	2200CST			0	0	0.20K		Thunderstorm Wind
Severe thunderstorm winds downed trees.									
Jones County									
Anamosa	16	2200CST			0	0	0.75K		Thunderstorm Wind
Severe thunderstorm winds downed a large tree, which fell onto a house.									
Washington									
Washington	16	2200CST			0	0	2K		Thunderstorm Wind
Severe winds tore the metal roof from a welding shop and blew it into a neighboring business.									
Washington									
West Chester	16	2205CST			0	0	1K		Thunderstorm Wind
Severe thunderstorm winds downed tree branches onto the roofs of at least 2 houses.									
Linn County									
Walker	16	2215CST			0	0	20K		Thunderstorm Wind
Severe thunderstorm winds tore the roof off a barn and damaged at least 2 houses.									
Muscatine County									
Muscatine	16	2215CST			0	0	0.50K		Thunderstorm Wind
Severe thunderstorm winds downed power lines.									
Jones County									
2 NE Onslow	16	2220CST			0	0	40K		Thunderstorm Wind
Severe thunderstorm winds caused extensive damage on a farm northeast of Onslow. On the property, a mobile home, shop, and several smaller buildings were destroyed. The barn was shifted one foot off its foundation and several pipe gates were mangled and destroyed.									
Jones County									
2 SE Wyoming	16	2220CST			0	0	40K		Thunderstorm Wind
Severe thunderstorm winds destroyed a cattle shed, uprooted a large tree, overturned a feed bunk, and broke windows at a farm southeast of Wyoming. Nearby, a barn was destroyed covering the road with debris, a tree was toppled onto a house, and the roof of a shed was wrapped around a tree. Another barn was also destroyed.									
Jackson County									
Baldwin	16	2230CST			0	0	15K		Thunderstorm Wind
Severe thunderstorm winds destroyed a machine shed, one grain bin, and one silo. Two other silos and a loading chute were also damaged.									
Jackson County									
3.5 SE Miles	16	2230CST			0	0	50K		Thunderstorm Wind
Severe thunderstorm winds caused major damage at a farm 3.5 miles southeast of Miles. The wind completely destroyed a 54'x144' machine shed, a corn crib, and extensive fencing. Numerous pieces of farm machinery were damaged. The garage was moved off its foundation, damaging the car and truck that were inside. Siding was also torn off and windows were broken at a house.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
IOWA, East Central and Southeast									
Delaware County									
Manchester	16	2240CST			0	0			Flash Flood
			Streets and the city park were flooded.						
Scott County									
Long Grove	16	2250CST			0	0			Funnel Cloud
			on Route 61						
Buchanan County									
Fairbank	16	2255CST			0	0			Flash Flood
			Flooding made the Fairbank Bridge impassable.						
Buchanan County									
Lamont	16	2255CST			0	0			Flash Flood
			Flooding was reported near Highway 281 and Highway 150. Flooding was also reported south of Stanley near C57 and W33. Water covered Highway 187 south of Lamont.						
Clinton County									
Folletts	16	2255CST			0	0			Funnel Cloud
Dubuque County									
Dubuque	16	2258CST			0	0			Flash Flood
			Flooding was reported on Paradise Valley, Herber, and Rupp Hollow Roads.						
Delaware County									
2 N Dundee	16	2300CST			0	0			Flash Flood
			Flash flooding caused the boat ramp to collapse and flooded bridges at Backbone State Park.						
Buchanan County									
Fairbank	16	2301CST			0	0			Flash Flood
			Highway 281 was closed due to flooding, and a truck dealership and restaurant were under high water.						
Dubuque County									
Dyersville	16	2330CST			0	0	5M		Flash Flood
	17	0100CST							
			Flash flooding along the The North Fork of the Maquoketa River caused extensive damage in Dyersville. Numerous businesses across town sustained major damage. The costliest damage occurred at Scale Models, which sustained an estimated \$150,000 in damage. Other businesses reported flooding to depths of 7 feet in their basements. About 100 people were evacuated from 60 homes. State officials set the preliminary damage estimates from Dyersville at \$3 to \$5 million.						
Dubuque County									
Dubuque	17	0000CST			0	0	16M		Flash Flood
		0100CST							
			Five to six feet of water flooded city streets in downtown. Major road damage resulted, including buckled roads and pavement washed away. Approximately 25 residential blocks were affected. Basements in over 60 houses were flooded with water from 2 feet deep up to the rafters. Flooding was reported between 20th and 28th Streets and between Washington and Jackson streets. State damage estimates were set at \$17 million in Dubuque.						
Dubuque County									
Dubuque	17	0045CST			0	0			Flash Flood
			The Little Maquoketa River flooded Highway 5 north of Dubuque.						
Dubuque County									
Durango	17	0100CST			0	0			Flash Flood
			Flooding was reported in Durango.						
Dubuque County									
Sageville	17	0100CST			0	0			Flash Flood
			Flooding was reported in Sageville.						

The storms produced severe weather of nearly every type, including large hail (up to the size of golf balls in Fairbank in Buchanan County), damaging winds, funnel clouds, and flash flooding. Although there were no confirmed tornadoes, it is believed that some of the thunderstorm wind damage was enhanced in some places by gustnado development along the leading edge of the squall line.

The most extensive wind damage (with at least 2 minor injuries) occurred in Cedar Rapids and Walker in Linn County. Other hard-hit areas included Sigourney (Keokuk County), Washington and West Chester (Washington County), Baldwin and Miles in Jackson County, and rural Jones County near Onslow and Wyoming. Other reports of wind damage to trees and power lines came

Storm Data and Unusual Weather Phenomena

May 1999

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

from Benton, Jones, Muscatine, and Johnson Counties. The winds also derailed a train near Lowden in Cedar County.

After the widespread heavy rain, flash flooding soon developed, with the most extensive flash flooding from Buchanan county eastward across Delaware and Dubuque Counties into Jo Daviess County in Illinois. The North Fork of the Maquoketa River surged quickly out of its banks, flooding portions of Dyersville (Dubuque County). Much of Dubuque County also suffered major damage from flash flooding. (See also Storm data entries for northwest Illinois for details on the damage in East Dubuque in Jo Daviess County Illinois.)

By mid-morning on the 17th, the flash flooding had turned into extensive river flooding and then eventually became a record flood on the Wapsipinicon River. See the following Flood entry for details.

IAZ040>042-

Buchanan - Delaware - Dubuque - Linn - Jones - Jackson - Iowa - Johnson - Cedar - Clinton -

17	0900CST								
22	2300CST				0	0			Flood

May 1999 will be remembered mainly for record flooding on the Wapsipinicon River, in addition to flooding at various other points on other area rivers. Moderate to heavy rains fell across east central Iowa from the 10th-13th causing the Wapsipinicon, Iowa, and Rock rivers to rise and subsequent minor flooding.

On the 16th into the 17th two lines of thunderstorms developed one north to south across western Iowa and moved west, and the other repeatedly developed east to west from Butler to Clayton counties in northeast Iowa and moved east. The training of thunderstorms in the northern line dropped extremely heavy rains across the Cedar, Wapsipinicon, and Mississippi river basins. Up to 8 inches (unofficially) of rain fell just north of Buchanan County in the Wapsipinicon basin.

The Wapsipinicon River quickly rose above flood stage and brought record flooding to Independence and Anamosa. The crests recorded Independence and Anamosa were 22.32 feet (on the 18th) and 16.00 feet (on the 20th), respectively, the highest crests ever recorded there. The crest lessened slightly as it moved downstream, cresting near De Witt at 13.66 feet, the second highest crest on record there.

The economic impacts to Independence were significant. Many houses and businesses from the north to south ends of town were flooded. Damage was mostly residential, with 50 to 75 residences impacted. Flooding downtown closed all three bridges over the river and required sandbagging of businesses along the bridges.

Economic impacts to Anamosa were less significant than in Independence, but were still important. The bridge on the south end of town was closed due to high water and an estimated 10 residences on the southwest side of town were flooded. Sandbagging on the south end of Anamosa along the river helped save the south end of town from major flooding.

Although no readings were available from the Maquoketa River at Manchester, moderate to major flooding occurred there also in response to heavy rains on the 16th and 17th. Mainly businesses downtown closest to the river were affected and some water made its way onto the road.

Flash flooding occurred in Dubuque and East Dubuque in association with the heavy rains on the 16th and 17th. In East Dubuque the water washed away asphalt and concrete from roads in the downtown area. Damage also occurred to businesses due to high water. See flash flood reports for Dubuque and Jo Daviess Counties for the 16th and 17th of May for more details.

Buchanan, Clinton, Delaware, Dubuque, Jones, and Linn Counties were declared Federal disaster areas due to the flooding.

Moderate flooding also occurred on the Cedar and Mississippi rivers in response to the heavy rains and water from upstream. In the Quad Cities L/D 15, Illinois City L/D 16, Muscatine, New Boston L/D 17, Keithsburg, Oquawka, and Gladstone L/D 18 only minor impacts occurred. In Burlington and Keokuk, the industrial sections were protected by levees, and only minor impacts occurred with water encroaching into some parks and parking lots. The Mississippi River remained above flood stage at some points through the end of the month.

IOWA, Northeast

Fayette County									
	Fayette	16	1240CST						
					0	0			Hail (0.75)
Allamakee County									
	Postville	16	1320CST						Hail (0.75)
					0	0			Hail (0.75)
Fayette County									
	West Union	16	1325CST				35K		Hail (1.00)
					0	0		15K	Thunderstorm Wind (G52)
Fayette County									
	West Union	16	1330CST						Thunderstorm Wind (G52)
Clayton County									
	Farmersburg	16	1348CST				30K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Clayton County									
Elkader	16	1405CST			0	0	100K		Thunderstorm Wind (G56)
Clayton County									
Strawberry Pt	16	1437CST			0	0			Hail (0.75)
Fayette County									
3 S Arlington	16	1450CST			0	0			Hail (0.75)
Clayton County									
Garber	16	1510CST			0	0			Hail (0.75)
Howard County									
Lourdes	16	1648CST			0	0			Hail (0.75)
Fayette County									
Maynard	16	1715CST			0	0	20K		Hail (1.00)
Clayton County									
Garnavillo	16	1723CST			0	0	15K		Thunderstorm Wind (G54)
Fayette County									
West Union	16	1813CST			0	0			Hail (0.75)
Fayette County									
Oelwein	16	1820CST			0	0			Hail (0.75)
Clayton County									
Osborne	16	1910CST			0	0	25K		Thunderstorm Wind (G55)
Numerous reports of hail the size of dimes and quarters were received from spotters and law enforcement officials. Winds gusting to 65 mph blew the roofs off homes near Elkader (Clayton County) and knocked down several large trees.									
Fayette County									
Countywide	16	1645CST			0	0	2M		Flash Flood
	17	0000CST							
Clayton County									
Countywide	16	1700CST			0	0	1.5M		Flash Flood
	17	0000CST							
Rainfall amounts of 4 to 8 inches caused major flash flooding. Hardest hit were areas along the Turkey and Volga River where many roads and bridges were washed out. A cooperative weather observer in Fayette (Fayette County) had their reporting equipment washed away, while a 4 foot deep mudslide was reported by the Clayton County sheriff near Volga. The towns of Volga and Garber (Clayton County) had to be evacuated with many residents being rescued by boat.									
IAZ029>030									
Fayette - Clayton									
	17	0000CST			0	0	5M	550K	Flood
	19	0400CST							
Serious flooding took place along the Turkey and Volga River, causing considerable damage to homes, businesses and crops. In fact, Clayton and Fayette County were both declared federal disaster areas. Many county roads and bridges were washed away, keeping main highways closed for two days. River levels rose nearly a foot an hour, inundating the towns of Volga, Littleport and Garber with as much as 8 feet of water. LP tanks and cars were seen floating away. Even a dozen pigs were stranded on the roof of a barn due to rising flood waters. The Turkey River at Garber (Clayton County) crested at 30.6 feet, breaking the previous flood of record, which was 30.1 feet on May 15, 1991.									
<u>IOWA, Northwest</u>									
Ida County									
Holstein	16	0802CST			0	0			Hail (0.75)
Ida County									
Galva	16	0825CST			0	0			Hail (0.75)
Buena Vista									
3 SE Storm Lake	16	0830CST			0	0			Hail (0.88)
Hail covered the ground.									
Woodbury County									
3 SW Correctionville	16	1445CST			0	0			Hail (1.00)
Woodbury County									
Danbury	16	1448CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Cherokee County									
Washta	16	1513CST			0	0			Hail (1.00)
Cherokee County									
Cherokee	16	1530CST			0	0			Hail (1.00)
Cherokee County									
Meriden	16	1530CST			0	0			Hail (1.75)
Cherokee County									
Larrabee to 3 N Larrabee	16	1540CST 1545CST			0	0			Hail (1.75)
Dickinson County									
Okoboji	16	1545CST			0	0			Hail (1.50)
Woodbury County									
5 N Correctionville to 6 N Correctionville	16	1610CST			0	0			Hail (1.00)
Cherokee County									
Washta	16	1617CST			0	0			Hail (1.00)
Dickinson County									
Milford	16	1619CST			0	0			Hail (0.75)
Dickinson County									
4 SW Spirit Lake	16	1640CST			0	0			Hail (1.00)
Dickinson County									
Terril	16	1646CST			0	0			Hail (0.75)
Cherokee County									
4 NW Larrabee	16	1650CST			0	0			Hail (0.88)
O'Brien County									
Sutherland	16	1700CST			0	0			Hail (1.00)
Woodbury County									
Sioux City to Sergeant Bluff	22	1637CST 1645CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds damaged power lines and a few trees.									
Plymouth County									
12 W Le Mars	27	1515CST			0	0			Hail (0.75)
<u>IOWA, Southwest</u>									
Mills County									
Pacific Jct	16	1355CST			0	0			Hail (0.75)
Mills County									
1 SW Pacific Jct to 1 S Pacific Jct	16	1420CST	1	60	0	0	5K		Tornado (F0)
This tornado first touched down south of Plattsmouth Nebraska then crossed the Missouri River just southwest of Pacific Junction. It downed trees near I-29 and highway 34 and damaged a house before dissipating.									
Monona County									
4 NW Ute to 5 NE Ute	16	1433CST 1457CST	6.5	100	0	0	120K		Tornado (F1)
Two homes sustained moderate to major damage, 3 grain bins and other outbuildings destroyed. Several vehicles were carried some distance. Large tree uprooted.									
Harrison County									
1 N Modale	16	1444CST			0	0			Hail (1.00)
Harrison County									
4.5 N Missouri Vly to 7 NE Missouri Vly	16	1445CST 1510CST	6.2	200	0	0	100K		Tornado (F3)
The smaller of 2 strong tornadoes that hit Harrison county the afternoon of 5/16/99. This one destroyed a home west of Logan before it weakened, it then made a loop back to the northwest before dissipating.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
IOWA, Southwest									
Harrison County									
1 NW Missouri Vly	16	1448CST			0	0			Hail (1.00)
Pottawattamie									
5 SE Council Bluffs	16	1510CST			0	0			Hail (0.75)
Harrison County									
3 NE Missouri Vly to 10.5 NE Missouri Vly	16	1516CST	7.5	440	2	16	1.9M		Tornado (F3)
<p>The stronger of the 2 tornadoes that ripped through Harrison county the afternoon of 5/16/99 killed 2 people and destroyed 6 homes and a bridge before it dissipated a couple of miles east of Logan. A family of 5 leaving a high school graduation party encountered the tornado on a road around 6 miles northeast of Missouri Valley and took cover in a ditch about the time the path of the tornado widened to a quarter mile. Two of them were killed after their car and a 3-ton combine head were thrown on them. There were also numerous flipped or smashed vehicles in this area.</p> <p>F37OU, F15OU</p>									
Harrison County									
Logan	16	1519CST			0	0			Hail (1.00)
Harrison County									
1 N Missouri Vly	16	1521CST			0	0			Hail (2.00)
Harrison County									
Logan	16	1528CST			0	0			Hail (1.00)
Pottawattamie									
1 W Treynor to 1 NW Treynor	16	1607CST 1611CST	1	80	0	0	10K		Tornado (F0)
Stayed mostly in open fields, did destroy a hog shed.									
Pottawattamie									
3 SE Treynor to 5 NE Treynor	16	1614CST 1633CST	5	120	0	0	690K		Tornado (F2)
Destroyed mostly farm buildings and equipment, did damage a few homes.									
Pottawattamie									
5 W Oakland	16	1616CST			0	0			Hail (1.50)
Pottawattamie									
5 NE Treynor	16	1633CST			0	0			Hail (1.75)
Pottawattamie									
4 W Oakland	16	1643CST			0	0			Hail (1.50)
Pottawattamie									
Oakland	16	1655CST			0	0			Hail (2.00)
IAZ090									
Fremont									
	17	0400CST			0	0			Flood
	18	1700CST							
Slow moving thunderstorms the evening of 5/16/99, besides producing destructive tornadoes, also dropped heavy rain across southwest Iowa. This caused the Nishnabotna River to flood around Hamburg. The river at Hamburg reached 27.4 feet at 445 pm on 5/17/99, flood stage is 23 feet. The West Nishnabotna also flooded much of 5/17/99, reaching a crest of 21.23 feet at Randolph at 815 am 5/17/99, flood stage is 19 feet.									
IAZ080									
Montgomery									
	17	0500CST 1600CST			0	0			Flood
Flooding from storms on 5/16/99 caused the East Nishnabotna River at Red Oak to reach 18.92 feet at 530 am on 5/17/99.									
IAZ090									
Fremont									
	21	0500CST			0	0			Flood
	22	1400CST							
Heavy rain on 5/20/99 which moved from southeast Nebraska into southwest Iowa caused the Nishnabotna river in southwest Iowa to flood around Hamburg. The river at Hamburg reached 26.14 feet at 115 pm on 5/21/99, flood stage is 23 feet.									
IAZ091									
Page									
	21	0500CST 1900CST			0	0			Flood
Heavy rain over southwest Iowa caused the Nodaway River to flood around Clarinda where the river reached 20.82 feet early afternoon on 5/21/99. Flood stage is 19 feet.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Monona County									
4 SE Turin	27	1830CST			0	0			Hail (0.75)
<u>KANSAS, East</u>									
Morris County									
5 N Wilsey	03	2015CST			0	0			Hail (0.75)
Shawnee County									
4 SW Auburn	03	2140CST			0	0			Hail (0.75)
Osage County									
Osage City	03	2150CST			0	0			Thunderstorm Wind (G65)
Osage County									
3 SW Scranton	03	2155CST			0	0			Thunderstorm Wind (G65)
Douglas County									
4 N Clinton	03	2205CST			0	0			Thunderstorm Wind (G56)
Douglas County									
Lecompton	03	2210CST			0	0			Hail (0.75)
Douglas County									
Lawrence	03	2215CST			0	0			Thunderstorm Wind (G53)
Severe thunderstorms moved northeast across east central Kansas and produced several reports of large hail and strong winds.									
Douglas County									
3 SW Lecompton	03	2155CST			0	0			Thunderstorm Wind (G61)
Jefferson County									
5 S Mc Louth	03	2215CST			0	0	2K		Thunderstorm Wind (G70)
Winds to 80 mph damaged barns 5 miles south of Mc Clouth.									
Dickinson County									
Elmo	04	1415CST			0	0			Hail (0.75)
Dickinson County									
Enterprise	04	1530CST			0	0			Hail (1.75)
Geary County									
4 W Junction City	04	1530CST			0	0			Hail (1.75)
Morris County									
3 SW Burdick to 2 NW Burdick	04	1600CST 1610CST	5	150	0	0	27.5K		Tornado (F1)
A tornado touched down near Burdick and moved northeast 5 miles. It struck a farm destroying part of the roof on a house and damaging a garage, two cars, a barn and some fences.									
Geary County									
1 S Milford	04	1615CST 1617CST	0.5	50	0	0	1K		Tornado (F0)
A tornado touched down near Milford Lake and did minor damage to a marina.									
Morris County									
White City	04	1620CST			0	0			Hail (1.00)
Morris County									
3 SW Dwight to 1 NW Dwight	04	1630CST 1638CST	4	100	0	0			Tornado (F1)
The same storm that produced the tornado near Burdick produced another tornado that touched down over open country near Dwight and moved northeast 4 miles before it dissipated.									
Geary County									
11 SE Junction City to 12 ESE Junction City	04	1654CST 1704CST	5	100	0	0			Tornado (F0)
Another tornado touched down southeast of Junction City over open country and moved northeast 5 miles before dissipating.									
Wabaunsee									
3 N Alma to 4 NNE Alma	04	1730CST 1733CST	1.5	75	0	0			Tornado (F0)
The fourth tornado touched down over open country north of Alma and moved a short distance over open country before dissipating.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>KANSAS, East</u>									
Pottawatomie									
4 NW Emmett	04	1810CST 1811CST	0.2	25	0	0			Tornado (F0)
The fifth tornado touched down over open country near Emmett.									
Jackson County									
5 SW Soldier	04	1837CST 1838CST	0.2	30	0	0			Tornado (F0)
The final touchdown occurred over open country southwest of Soldier.									
Nemaha County									
1 S Bancroft	04	1857CST			0	0			Hail (0.75)
Nemaha County									
1 S Wetmore	04	1925CST			0	0			Hail (1.00)
Brown County									
2 SW Hiawatha	04	1958CST			0	0			Hail (0.75)
Severe thunderstorms developed over northeast and east central Kansas the afternoon of the fourth and continued into the evening hours producing large hail and at least 7 tornadoes (listed separately). One thunderstorm moved northeast from Morris county to Jackson county and produced six of the 7 tornadoes.									
KSZ054>056-									
Lyon - Osage - Franklin - Coffey - Anderson									
	04	2100CST			0	0			Flood
	06	0600CST							
Locally heavy rains on the 4th sent several rivers and streams out of their banks for a time in east central Kansas. Pottawatomie Creek at Garnett, for example, crested 2 feet over flood stage at 28.0 feet at 11 pm on the 4th.									
Cloud County									
Concordia	10	1900CST			0	0			Flash Flood
	11	0100CST							
Flooding was reported for a time mostly on roads in the county.									
Ottawa County									
Minneapolis	10	1900CST			0	0			Flash Flood
	11	0100CST							
Three to 5 inches of rain produced minor flooding for a few hours time mostly on roads in the county.									
Shawnee County									
Topeka	11	0515CST			0	0	8K		Lightning
Lightning struck a home and started a fire that damaged the roof as well as an alarm system and electric meter box.									
Lyon County									
4 NW Neosho Rapids	11	1730CST			0	0			Hail (1.00)
Wabaunsee									
Eskridge	11	1750CST			0	0			Hail (1.75)
Wabaunsee									
2 W Maple Hill	11	1810CST			0	0			Hail (0.75)
Osage County									
Scranton	11	1835CST			0	0			Hail (1.75)
Shawnee County									
Wakarusa	11	1840CST			0	0			Hail (1.00)
Shawnee County									
Topeka Billard Arpt	11	1904CST			0	0			Hail (0.75)
Severe thunderstorms developed over east central Kansas and moved northeast producing a number of reports of large hail.									
Douglas County									
Lawrence	14	1015CST			0	0	12K		Lightning
Lightning struck twice, once to a hotel doing an estimated 10 thousand dollars damage and once to a residence doing an estimated 2 thousand dollars damage.									
Douglas County									
2 E Lawrence	15	0530CST			0	0			Lightning
Lightning struck and killed a horse on a farm near Lawrence.									
Riley County									
4 W Leonardville	16	1630CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Riley County									
4 W Leonardville	16	1630CST			0	0			Thunderstorm Wind (G52)
Marshall County									
Winifred	16	1640CST			0	0			Hail (1.00)
Riley County									
Leonardville	16	1640CST			0	0			Hail (1.00)
Marshall County									
2 S Home	16	1647CST			0	0			Hail (0.75)
Dickinson County									
2 SW Elmo	16	1705CST			0	0			Hail (1.25)
Dickinson County									
4 SE Abilene to Enterprise	16	1710CST 1730CST	2.5	100	0	0	60K		Tornado (F1)
A tornado touched down 4 miles southeast of Abilene and traveled intermittently for 2 and one half miles before dissipating. The tornado struck a farm doing considerable damage to outbuildings. A second funnel aloft was seen at times accompanying the tornado.									
Geary County									
2 S Junction City	16	1720CST			0	0			Hail (0.88)
Dickinson County									
6 W Herington	16	1725CST			0	0			Hail (1.50)
Dickinson County									
Hope	16	1728CST			0	0			Hail (1.00)
Marshall County									
Frankfort	16	1741CST			0	0			Hail (0.75)
Geary County									
1 SE Olson	16	1752CST			0	0			Hail (0.75)
Morris County									
2 E Delavan	16	1818CST			0	0			Hail (0.75)
Nemaha County									
Baileyville	16	1834CST			0	0			Hail (0.75)
Shawnee County									
Willard	16	1920CST			0	0			Hail (0.88)
Dickinson County									
3 NW Hope	16	1926CST			0	0			Hail (1.50)
Marshall County									
Frankfort	16	1935CST			0	0			Hail (1.00)
Coffey County									
5 S Burlington	17	0001CST			0	0	3K		Lightning
Lightning struck a residence doing an estimated 3 thousand dollars damage to the chimney, roof and electrical appliances.									
Clay County									
10 W Clay Center	17	0025CST			0	0			Hail (1.00)
Severe thunderstorms developed over much of northeast and east central Kansas the afternoon of the 16th and continued well into the evening hours. The storms produced numerous reports of large hail and one tornado (listed separately).									
KSZ035>036 Dickinson - Geary									
	16	2200CST			0	0			Flood
	18	1500CST							
Heavy rains that fell from thunderstorms on the afternoon and evening of the 16th caused some minor flooding. Several creeks and rivers went into minor flooding, mostly of roadways.									
Republic County									
Norway	20	1522CST			0	0			Hail (0.75)
Marshall County									
3 S Summerfield	20	1730CST 1731CST	0.1	50	0	0	1K		Tornado (F1)
A tornado touched down at a farm and lifted a machine shed over a house before destroying the shed.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Pottawatomie									
2 W Wamego	20	1925CST			0	0			Thunderstorm Wind (G52)
Shawnee County									
3 NW Topeka	20	2330CST			0	0	5K		Lightning
									Lightning struck a house and started a fire that did an estimated 5 thousand dollars damage.
Cloud County									
12 WSW Concordia	22	1947CST			0	0			Hail (0.75)
Ottawa County									
Delphos	22	2040CST			0	0			Hail (1.00)
Ottawa County									
Tescott	22	2045CST			0	0			Thunderstorm Wind (G52)
Ottawa County									
4 E Tescott	22	2100CST			0	0			Thunderstorm Wind (G52)
Dickinson County									
7 NE Abilene	22	2118CST			0	0			Hail (0.75)
Dickinson County									
4 S Chapman	22	2139CST			0	0			Hail (1.75)
Cloud County									
Concordia	20	1800CST 2000CST			0	0			Flash Flood
Washington									
Southwest Portion	20	1845CST 2015CST			0	0			Flash Flood
Ottawa County									
Delphos	20	1855CST 2000CST			0	0			Flash Flood
Morris County									
Council Grove	20	2050CST 2315CST			0	0			Flood
Lyon County									
Northwest Portion	20	2100CST 2300CST			0	0			Flood
Wabaunsee									
Southwest Portion	20	2100CST 2250CST			0	0			Flash Flood
Dickinson County									
Enterprise	22	2155CST			0	0			Hail (1.00)
Dickinson County									
Enterprise	22	2155CST			0	0			Thunderstorm Wind (G52)
Morris County									
4 NNW Wilsey	22	2205CST			0	0			Hail (1.25)
Morris County									
Diamond Spgs	22	2210CST			0	0			Thunderstorm Wind (G56)
Morris County									
2 NNW Wilsey	22	2217CST			0	0			Thunderstorm Wind (G52)
Osage County									
Osage City	22	2217CST			0	0			Hail (0.75)
Osage County									
6 SW Osage City	22	2217CST			0	0			Hail (1.25)
Morris County									
5 W Council Grove	22	2219CST			0	0			Thunderstorm Wind (G52)
Morris County									
1 N Council Grove	22	2223CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Morris County									
1 S Council Grove KSZ055	22	2235CST			0	0			Thunderstorm Wind (G52)
	22	2200CST			0	0			Flood
	23	0100CST							
Dickinson County									
Abilene	22	2230CST			0	0			Flash Flood
	23	0200CST							
Geary County									
Junction City	22	2230CST			0	0			Flash Flood
	23	0100CST							
Ottawa County									
Minneapolis	22	2240CST			0	0			Flash Flood
	23	0100CST							
<p>Heavy rains from thunderstorms caused extensive flash flooding in the mentioned counties. One foot of water was over old highway 40 2.5 miles west of Chapman for a time. Cars were washed off highway 18 near Chapman Creek. Seven people were rescued from stalled cars on Interstate 70 east of Abilene. Two more people were rescued from stalled cars on highway K-18 and 2 more off old highway 40. Roads were flooded south of Osage City and a woman was stranded in a vehicle for a time due to the flooding. Some motor homes at an RV park were floated down a ditch by heavy runoff from the rains. Thirteen people and 2 vehicles were removed from Ottawa County Lake State Park due to high water.</p>									
Lyon County									
Emporia Arpt	22	2243CST			0	0			Thunderstorm Wind (G54)
Dickinson County									
Sutphen	22	2245CST			0	0			Hail (1.50)
Lyon County									
1 N Hartford	22	2252CST			0	0			Thunderstorm Wind (G52)
Coffey County									
Lebo	22	2305CST			0	0			Thunderstorm Wind (G52)
Coffey County									
Burlington	22	2321CST			0	0			Thunderstorm Wind (G52)
Lyon County									
10 NE Emporia	23	0005CST			0	0			Hail (1.00)
<p>Severe thunderstorms developed in north central Kansas the afternoon of the 22nd and spread southeast into east central Kansas by evening. The thunderstorms produced a 30 to 40 mile wide swath of strong winds and large hail.</p>									
KSZ022-034>038- Riley - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Lyon - Osage - Franklin - Coffey -									
	23	0100CST			0	0			Flood
	24	0900CST							
<p>The storm system that moved from north central into east central Kansas the evening and night of the 22nd also produced some heavy rains which sent a number of rivers and creeks out of their banks. Some of the runoff from these creeks went into the Kansas River and sent it into flood at Manhattan.</p>									
Cloud County									
1 N Concordia	30	1750CST			0	0			Hail (1.00)
Washington									
Hanover	30	1840CST			0	0			Hail (0.75)
Nemaha County									
Baileyville	30	1906CST			0	0			Hail (1.00)
Clay County									
3 SSW Clifton	30	1907CST			0	0			Hail (1.00)
Republic County									
3 ENE Belleville	30	1907CST			0	0			Hail (1.75)
Clay County									
Clifton	30	1912CST			0	0			Hail (1.75)
Washington									
1 NW Vining	30	1915CST			0	0			Hail (0.75)
Republic County									
2 NW Belleville	30	1918CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Republic County									
3 NNW Belleville	30	1920CST			0	0			Hail (0.75)
Republic County									
3 ENE Belleville	30	1947CST			0	0			Hail (1.75)
Clay County									
Garfield Center	30	1950CST			0	0			Hail (1.00)
Washington									
Haddam	30	1944CST			0	0			Hail (0.88)
Washington									
6 S Brantford	30	2057CST			0	0			Thunderstorm Wind (G52)
Cloud County									
Glasco	30	2141CST			0	0			Thunderstorm Wind (G57)
Clay County									
3 SW Clifton	30	1950CST			0	0			Hail (2.75)
Clay County									
1 N Clay Center	30	1952CST			0	0			Hail (1.75)
Riley County									
5 W Leonardville	30	2030CST			0	0			Thunderstorm Wind (G76)
Riley County									
Randolph	30	2043CST			0	0			Hail (1.00)
Cloud County									
Concordia Arpt	30	2045CST			0	0			Hail (1.00)
Riley County									
Leonardville	30	2055CST			0	0			Hail (1.75)
Pottawatomie									
2 E Olsburg	30	2140CST			0	0			Hail (0.75)
Riley County									
Randolph	30	2143CST			0	0			Hail (1.00)
Washington									
5 NW Hanover	30	2150CST			0	0			Hail (1.00)
Riley County									
Riley	30	2155CST			0	0			Hail (1.00)
Pottawatomie									
5 W St George	30	2213CST			0	0			Hail (0.75)
Pottawatomie									
3 N St George	30	2217CST			0	0			Hail (1.00)
Geary County									
Junction City	30	2221CST			0	0			Thunderstorm Wind (G52)
Douglas County									
Clinton	30	2250CST			0	2	5K		Thunderstorm Wind (G52)
Strong winds damaged 7 trailers and injured 2 people at Clinton Lake Park.									
Shawnee County									
5 SE Topeka	30	2305CST			0	0			Hail (1.00)
Shawnee County									
5 SE Topeka	30	2305CST			0	0			Thunderstorm Wind (G56)
Severe thunderstorms moved southeast from north central Kansas and produced numerous reports of large hail and several reports of strong winds. A wind gust to 87 mph was measured in central Riley county . A wind gust of 60 mph damaged trailers and injured 2 people at Clinton Lake Park.									

KANSAS, Extreme Southeast

Cherokee County

7 ENE Columbus	04	0038CST			0	0			Thunderstorm Wind (G60)
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Storm Data and Unusual Weather Phenomena

May 1999

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

KANSAS, Extreme Southeast

Bourbon County

Countywide	04	1100CST 2200CST			0	0			Flash Flood
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Cherokee County

Countywide	04	1100CST 2200CST			0	0	50K		Flash Flood
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Crawford County

Countywide	04	1100CST 2200CST			0	0			Flash Flood
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Thunderstorms produced 3 to 6 inches of rain which caused widespread flooding in extreme southeast Kansas. The hardest hit area was near Baxter Springs and Columbus in Cherokee County where some roads were damaged.

Cherokee County

Scammon	04	2050CST			0	0			Thunderstorm Wind (G60)
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Crawford County

7 S Girard to Arma	04	2105CST			0	0	200K		Thunderstorm Wind
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Thunderstorm winds blew down numerous trees and severely damaged or destroyed several buildings. Winds were estimated at around 65 knots.

Crawford County

Pittsburg	04	2111CST			0	0	35K		Thunderstorm Wind (G52)
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Thunderstorm winds blew the roof off of one business and damaged several others. Numerous power lines were blown down.

Bourbon County

Ft Scott	04	2127CST			0	0	5K		Tstm Wind/Hail
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A thunderstorm produced nickel sized hail and downed trees.

Crawford County

3 S Walnut	11	1935CST			0	0			Hail (0.75)
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Bourbon County

Bronson	11	2115CST			0	0			Hail (0.75)
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Bourbon County

Ft Scott	15	0904CST			0	0			Hail (0.75)
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Bourbon County

Uniontown	17	0055CST			0	0			Thunderstorm Wind (G62)
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Crawford County

7 S Girard	17	0100CST			0	0	8K		Thunderstorm Wind
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Thunderstorm winds caused roof damage to a home.

Crawford County

Pittsburg	17	0114CST			0	0			Thunderstorm Wind (G55)
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Bourbon County

Ft Scott	22	2315CST			0	0	0		Thunderstorm Wind
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Thunderstorm winds downed tree limbs.

KANSAS, North Central

Smith County

8 N Smith Center	04	1154CST			0	0	0	0	Hail (0.75)
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Smith County

2 SE Athol	04	1303CST 1700CST			0	0	15K	75K	Flash Flood
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Smith County

12 N Kensington	04	1325CST 1730CST			0	0	15K	75K	Flash Flood
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Scattered thunderstorms produced hail and torrential rainfall across parts of north-central Kansas during the midday hours. While dime size hail was reported, it was the heavy rain which caused most of the problems. As much as 4.5 inches of rain fell in one hour north of Smith Center. Roads were under at least 8 inches of water southeast of Athol and 12 miles north of Kensington. Most of the rain fell across the rural areas of northern Smith county and some bridges and roads were washed out or damaged.

Phillips County

5 S Long Is	14	2053CST			0	0	50K	750K	Hail (1.75)
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Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, North Central									
Phillips County									
4 W Phillipsburg	14	2059CST			0	0	50K	750K	Hail (1.75)
Phillips County									
Logan	14	2144CST			0	0	5K	50K	Hail (1.00)
Smith County									
10 N Smith Center	14	2220CST			0	0	0	0	Hail (0.75)
Phillips County									
Agra	14	2235CST			0	0	0	0	Hail (0.75)
Smith County									
10 N Lebanon to 8 E Womer	14	2235CST 2236CST	1	20	0	0	0	0	Tornado (F0)
Smith County									
Kensington	14	2242CST			0	0	5K	50K	Hail (1.00)
Rooks County									
2 W Webster Res	14	2320CST			0	0	0	0	Hail (0.88)
Rooks County									
1 E Stockton	14	2345CST			0	0	0	0	Hail (0.75)
Phillips County									
Speed	14	2355CST			0	0	0	0	Hail (0.75)
Severe thunderstorms moved east across north-central Kansas dumping large hail and even forming a brief tornado. The tornado was sighted in an open field 10 miles north of Lebanon by a trained spotter. The tornado lasted about a minute and did no damage. However, severe damage was done to wheat fields in northern Phillips county by large hail as the storms passed.									
Rooks County									
5 SW Stockton to 2 SW Stockton	15	1802CST 1812CST	3	50	0	0	15K	0	Tornado (F1)
Rooks County									
1 E Stockton	15	1817CST			0	0	0	0	Hail (0.75)
A brief tornado touch down in central Rooks county during the early evening. During the tornado's 3 mile path, two farmsteads were hit. Most of the damage was to trees or wind breaks. Some trees were uprooted. A fence and a few outbuildings were damaged or destroyed on one farm.									
Osborne County									
1 N Covert	20	1425CST			0	0	0	0	Hail (0.75)
Osborne County									
5 W Osborne	20	1435CST			0	0	0	0	Hail (0.75)
Osborne County									
6 S Osborne	20	1445CST			0	0	0	0	Hail (1.00)
Phillips County									
Logan	22	0800CST			0	0	3K	300K	Hail (1.25)
Rooks County									
14 W Stockton	22	0825CST			0	0	0	100K	Hail (0.75)
Rooks County									
7 NW Stockton	22	0905CST			0	0	0	100K	Hail (0.75)
Phillips County									
Logan	22	1000CST			0	0	3K	250K	Hail (1.25)
Thunderstorms pummelled parts of Rooks and Phillips county for several hours with hail and heavy rains. As the large hail teamed with gusty winds, some damage was done to the wheat crop in the western sections of each county. Rainfall amounts of two to three inches were reported.									
Smith County									
Thornburg	22	1930CST			0	0	0	0	Hail (0.75)
Smith County									
5 W Reamsville	22	1935CST			0	0	0	0	Hail (0.75)
Smith County									
1 N Cora	22	1945CST			0	0	100K	2.5M	Hail (3.00)

Storm Data and Unusual Weather Phenomena

May 1999

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, North Central</u>									
Smith County									
Lebanon	22	2000CST			0	0	10K	500K	Hail (1.75)
Rooks County									
10 N Stockton	22	2004CST			0	0	0	100K	Hail (1.75)
Osborne County									
Alton	22	2005CST			0	0	25K	1M	Hail (0.75)
Smith County									
Lebanon	22	2015CST			0	0	10K	500K	Hail (1.75)
Smith County									
Thornburg	22	2015CST			0	0	0	0	Hail (0.88)
Jewell County									
Esbon	22	2020CST			0	0	0	0	Hail (0.75)
Osborne County									
Osborne	22	2028CST			0	0	0	0	Hail (0.75)
Osborne County									
5 SE Osborne to 6 E Osborne	22	2030CST 2041CST	6	50	0	0	35K	100K	Tornado (F1)
Mitchell County									
5 SW Asherville	22	2110CST			0	0	10K	300K	Hail (0.75)
Mitchell County									
9 S Simpson	22	2112CST			0	0	60K	300K	Thunderstorm Wind (G52)
Very severe thunderstorms rolled southeast across north-central Kansas spawning a tornado and causing extensive crop damage. The tornado was reported southeast of Osborne and passed directly over at least one farm. The siding was torn from the home, implements were twisted and blown up to one quarter mile from their original position. The tornado caused extensive tree damage as it moved northeast along the Indian Creek basin.									
Hail and wind was the problem across Smith county. Wind driven hail, up to 3 inches in diameter, caused millions in crop loss near Cora. The storm also damaged crops in extreme eastern Phillips county. Though not quite as extensive, similar damage was reported in Osborne and Mitchell counties from the wind, hail and heavy rains.									
Jewell County									
1 W Mankato	30	1715CST			0	0	20K	100K	Hail (1.00)
Jewell County									
Mankato	30	2100CST			0	0	5K	0	Hail (0.75)
Rooks County									
9 N Damar	31	2321CST			0	0	0	0	Hail (0.75)
Phillips County									
Logan	31	2324CST			0	0	5K	100K	Hail (1.00)
Phillips County									
Phillipsburg	31	2346CST			0	0	0	0	Hail (0.75)
<u>KANSAS, Northeast</u>									
KSZ060 Linn									
	01	0000CST 2359CST			0	0			Flood
River flooding that began in late April continued on the Marais des Cygnes at LaCygne and Trading Post.									
Leavenworth									
2 S Basehor	03	2230CST			0	0			Thunderstorm Wind (G65)
Leavenworth									
Linwood	03	2230CST			0	0			Thunderstorm Wind (G60)
Leavenworth									
Tonganoxie	03	2230CST			0	0			Thunderstorm Wind (G65)
Thunderstorm winds produced widespread damage in Leavenworth County. Emergency managers reported that approximately 30 structures in Leavenworth County sustained damage, totaling an estimated \$250,000.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Wyandotte County									
2 E Piper	03	2248CST			0	0	50K		Thunderstorm Wind (G60)
Thunderstorm winds tore the roof off of the school superintendent's office in Piper.									
Miami County									
Bucyrus	03	2318CST			0	0			Hail (1.00)
A complex of thunderstorms rolled into the Kansas City metro area from the southwest late in the evening on May 3. Several reports of wind damage and downed trees were received, and Doppler radar estimated wind speeds of up to 70 mph as the storms moved through Leavenworth and Wyandotte Counties.									
KSZ057-060									
Miami - Linn									
	05	0000CST			0	0			Flood
	08	2359CST							
Heavy rainfall on May 3-4 in eastern Kansas caused minor flooding on the Marais des Cygnes at Osawatomie, LaCygne, and Trading Post.									
KSZ057									
Miami									
	10	1500CST			0	0			High Wind (G45)
Dissipating thunderstorms in the area produced high winds, which downed trees in Bucyrus, and between Paola and Louisburg.									
KSZ025-103									
Atchison - Leavenworth									
	17	0000CST			0	0			Flood
	19	2359CST							
Runoff from heavy rains on May 15-16 across northeast Kansas and northwest Missouri resulted in minor flooding of the Missouri River near Atchison and Leavenworth.									
Johnson County									
Gardner	17	0036CST			0	0			Hail (1.00)
Johnson County									
Gardner Arpt	17	0036CST			0	0			Thunderstorm Wind (G50)
Miami County									
Bucyrus	17	0036CST			0	0	25K		Thunderstorm Wind
A house was damaged by thunderstorm winds in Bucyrus.									
Johnson County									
Olathe	17	0047CST			0	0	150K		Thunderstorm Wind (G55)
Thunderstorm winds ripped a 2500 square foot section of roof off a business in Olathe and damaged a billboard along Interstate 35.									
KSZ025-103									
Atchison - Leavenworth									
	21	0000CST			0	0			Flood
	24	2359CST							
A rain event in northeast Kansas and northwest Missouri on May 20 led to renewed minor flooding of the Missouri River at Atchison and Leavenworth.									
Miami County									
Osawatomie	22	2320CST			0	0			Hail (0.75)
KSZ057-060									
Miami - Linn									
	23	0000CST			0	0			Flood
	26	2359CST							
Heavy rains in eastern Kansas on May 22 led to flooding of the Marais des Cygnes at Osawatomie and Trading Post.									
Johnson County									
Lenexa	30	2350CST			0	0			Thunderstorm Wind (G57)
Leavenworth									
Basehor	30	2350CST			0	0	100K		Thunderstorm Wind
Leavenworth									
Tonganoxie	30	2350CST			0	0	10K		Thunderstorm Wind
Thunderstorm winds downed trees and limbs in Tonganoxie, Basehor, and Leavenworth. At least two of the trees were one foot or larger in diameter. A school under construction in Basehor suffered damage when a 22 foot reinforced wall was blown over. Wind gusts of up to 65 mph were reported in Lenexa in Johnson County.									
<u>KANSAS, Northwest</u>									
Decatur County									
10 N Norcatour	14	1945CST			0	0			Hail (0.75)
Norton County									
11 N Norton	14	2007CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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, Northwest</u>									
Decatur County									
3 NW Norcatour	14	2027CST			0	0			Hail (0.75)
Norton County									
7 NW Norton	14	2040CST			0	0			Hail (1.00)
Norton County									
Norton	14	2100CST			0	0			Hail (1.00)
Norton County									
11 E Norton	14	2120CST			0	0			Hail (1.75)
Decatur County									
6 SE Jennings	14	2135CST			0	0			Hail (0.75)
Norton County									
6 S Clayton	14	2135CST			0	0			Hail (0.75)
Norton County									
Lenora	14	2155CST			0	0			Hail (0.75)
Graham County									
10 N Bogue	14	2239CST			0	0			Hail (1.00)
Greeley County									
10 SW Tribune	16	1837MST			0	0	50K	2M	Hail (4.50)
Wichita County									
8 SSW Leoti	16	2010CST			0	0	800K	2M	Hail (2.50)
Wichita County									
14 ESE Leoti	16	2040CST			0	0	800K	2M	Hail (3.00)
									Hail broke out windows in house.
Gove County									
26 S Gove	16	2115CST			0	0			Hail (1.00)
Wallace County									
7 S Weskan	19	1515MST			0	0			Thunderstorm Wind (G60)
									Power line poles knocked down by strong winds.
Sherman County									
2 S Goodland	19	1530MST			0	0			Thunderstorm Wind (G53)
Norton County									
2 WSW Densmore	22	0710CST			0	0			Hail (0.75)
Norton County									
Edmond	22	0710CST			0	0			Hail (1.25)
Norton County									
11 NNE Densmore	22	0740CST			0	0			Hail (0.75)
Norton County									
13 NNE Densmore	22	0755CST			0	0			Hail (2.50)
Sherman County									
1 NE Ruleton	22	1537MST			0	0			Hail (0.75)
Greeley County									
8 W Tribune	22	1600MST			0	0			Hail (0.75)
Wallace County									
7 NNE Wallace	22	1610MST			0	0			Hail (0.75)
Sherman County									
Goodland	22	1630MST			0	0			Thunderstorm Wind (G60)
									Strong winds broke 9 inch tree limb.
Greeley County									
1 SW Tribune	22	1700MST			0	0			Hail (0.75)
Sherman County									
Ruleton	22	1750MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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, Northwest</u>									
Rawlins County									
9 NNW Atwood	22	1800CST			0	0			Hail (1.75)
Logan County									
Oakley	22	1805CST			0	0			Hail (1.00)
Gove County									
3 S Park	22	1840CST			0	0			Thunderstorm Wind (G53)
Cheyenne County									
4 N Bird City	22	1843CST			0	0			Hail (1.00)
Decatur County									
5 N Oberlin	22	1900CST			0	0			Thunderstorm Wind (G53)
Cheyenne County									
4 S Bird City	22	1917CST			0	0			Hail (0.75)
Rawlins County									
Atwood	22	1930CST			0	0			Hail (0.88)
Sherman County									
12 W Goodland	31	2010MST			0	0			Thunderstorm Wind (G60)
Sherman County									
Goodland	31	2035MST			0	0			Hail (0.75)
Cheyenne County									
Bird City	31	2055CST			0	0			Hail (0.75)
Rawlins County									
11 SE Atwood	31	2145CST			0	0	20K		Hail (1.00)
Rawlins County									
10 SW Atwood	31	2150CST			0	0			Hail (2.00)
									Windows broken in house from large hail.
Rawlins County									
3 E Achilles	31	2156CST			0	0			Hail (1.00)
Sheridan County									
Selden	31	2214CST			0	0	50K		Hail (1.75)
Rawlins County									
4 W Atwood	31	2222CST			0	0			Hail (1.75)
Sheridan County									
10 E Hoxie	31	2240CST			0	0			Hail (1.25)
Graham County									
3 W Morland	31	2245CST			0	0			Hail (0.75)
Norton County									
6 S Clayton	31	2246CST			0	0			Hail (1.25)
Norton County									
Norton	31	2250CST			0	0			Hail (1.00)
Decatur County									
Leoville	31	2305CST			0	0	300K		Thunderstorm Wind (G60)
									Large tree branches broken by strong winds.
Norton County									
7 NNE Norton	31	2314CST			0	0			Hail (1.75)
Norton County									
Lenora	31	2345CST			0	0	200K		Hail (1.75)
<u>KANSAS, Southeast</u>									
Sumner County									
Perth	03	1823CST			0	0			Hail (1.00)
Harper County									
Waldron	03	1825CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Waldron	03	1834CST			0	0			Hail (1.75)
Sumner County									
3 SW Mayfield to 10 N Mayfield	03	1835CST 1913CST	12	440	0	0	250K		Tornado (F1)
Minor roof damage inflicted to a business in Mayfield. Just north of Mayfield, a metal outbuilding was partially unroofed with minor roof damage inflicted to the adjacent house. The tornado then hit a farmstead where windows were broken on the south and west sides of the house, a satellite dish tilted over, two metal grain bins removed and a metal barn damaged when one of the grain bins was thrown into it. Near termination, major damage was inflicted to two mobile homes, one of which was thrown about 50 feet and destroyed on impact with a row of trees.									
Sedgwick County									
Haysville	03	1848CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	03	1853CST			0	0			Hail (1.00)
Sedgwick County									
Wichita	03	1856CST			0	0			Hail (1.75)
Sedgwick County									
Wichita	03	1902CST 1904CST			0	0			Hail (1.00)
Sumner County									
4 N Wellington to 6 W Mulvane	03	1913CST 1930CST	10	880	0	4	750K		Tornado (F1)
Initial touchdown occurred 4 miles north of Wellington in Central Sumner County where several power poles were knocked down. Moving north-northeast near 30 kts, the tornado inflicted damage to about 15 structures including complete destruction of two mobile homes, a pole barn, two wood sheds and one metal shed. Also damaged were a ranch style home and a metal shed, both of which lost most of their roofing. This tornado was responsible for all 4 injuries in Sumner County. Of the injuries, 3 occurred (1 serious) in the two destroyed mobile homes. While in Sumner County, this tornado possessed a path 10 miles long and 1/4 to 1/2 mile wide. It would exit Sumner County at 1930, continuing a north-northeast track into Sedgwick County.									
Sedgwick County									
Peck to Wichita	03	1930CST 1955CST	14	880	6	150	145M		Tornado (F4)
The same tornado that initially touched down 4 miles north of Wellington in Central Sumner County, SKYWARN reports indicate the tornado crossed the Sumner/Sedgwick County line at 1930, 1 mile west of Peck. Moving northeast at 30 kts, the tornado hit Haysville at 1935, destroying a subdivision just southwest of the South Seneca-South 87th Street intersection where the first 2 fatalities occurred in a mobile home park when a woman and her grandson were killed while running for shelter. (A 6th fatality resulted when an elderly man died from his injuries at a Wichita hospital on May 23rd.) The tornado then moved north along South Seneca Avenue, entering the Haysville Central Business District at 1938. The 3rd fatality occurred at this point when an elderly man was killed in a mobile home at South 75th Street. At the South Seneca/South 71st Street intersection, most of the businesses were heavily damaged or destroyed. Damage summary for Haysville (damaged or destroyed): 150 homes, 27 businesses, 3 churches, 1 library, 4 historic buildings and 1 lodge.									
The tornado entered South Wichita at 1943 when it crossed South 55th Street. The tornado then veered slightly toward the northwest. At South 47th Street it reassumed a northeast track. Crossing MacArthur Avenue, the tornado leveled the Lakeshore and Pacesetter mobile home parks located just northeast of the South Seneca/MacArthur intersection where the 4th and 5th fatalities occurred, one at each mobile home park. At 1945, the tornado crossed the East Harry Street interchange on I-135 and continued to move northeast, lifting in the College Hill District in Northeast Wichita. Along this entire track, the tornado left a path of destruction 14 miles long and 1/4 to 1/2 mile wide. Damage summary for Sedgwick County: 8,480 buildings (all types) damaged or destroyed. Of these, 2,456 were at least 50% destroyed and 1,109 totally destroyed. M27MH, F43OU, M1OU, M83MH, M68MH, M78MH									
Butler County									
3 SW Augusta	03	2015CST	0	55	0	0			Tornado (F0)
Brief touchdown in open country.									
Sumner County									
Mulvane	04	0004CST			0	0			Hail (0.88)
Butler County									
Andover	04	0715CST 1050CST			0	0			Flash Flood
Flash flooding from torrential rains resulted in the closure of 21st Street and Central Avenue with Andover Road limited to one-lane traffic.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Chautauqua									
Cedar Vale	04	0715CST			0	0			Hail (0.88)
Chautauqua									
Cedar Vale	04	0733CST 1000CST			0	0			Flash Flood
Torrential rains of 2-3 inches flooded Highway 166 at Cedar Vale.									
Butler County									
Towanda to 5 N Towanda	04	0800CST 1050CST			0	0	500K		Flash Flood
Major flash flooding occurred in Northwest Butler County along Four Mile Creek, a tributary of the Whitewater River. Several houses were reported in high water. In Towanda, the torrential rains caused widespread street flooding.									
Russell County									
Russell	04	1127CST			0	0			Hail (0.75)
Russell County									
Russell	04	1128CST			0	0			Hail (1.00)
Russell County									
Bunker Hill	04	1219CST			0	0			Hail (1.75)
Reno County									
Hutchinson	04	1241CST			0	0			Hail (0.75)
Reno County									
Buhler	04	1254CST			0	0			Hail (1.75)
Reno County									
2 W Buhler to 3 N Buhler	04	1302CST 1307CST	3	150	0	0	1M		Tornado (F1)
At Buhler, a subdivision consisting of 37 homes was hit. Of the 37 homes damaged, 3 were destroyed, 4 sustained major damage and 30 minor damage. This tornado would continue a northeast track into Southwest McPherson County where it skipped along Highway 61.									
Mcpherson									
13 SW Mc Pherson to 3 SW Mc Pherson	04	1308CST 1318CST	5	100	0	0	50K		Tornado (F1)
Initial damage occurred 3.5 miles SW of Inman where an old barn collapsed and trees were uprooted. The greatest damage occurred 3-4 miles east of Inman where one house sustained minor roof damage, a circle irrigation system was destroyed, a tin cattleshed was destroyed, and an irrigation pipe was wrapped around trees. As the tornado continued a northeast track along and just east Highway 61, it inflicted more tree damage as well as damaging part of the wheat crop as it passed 2 miles southeast of Groveland before lifting 3 miles southwest of McPherson. Though possessing an overall track of 10 miles from point of entry into McPherson County to dissipation, the tornado skipped, never maintaining ground contact for more than 2 miles at a time with the segments totalling about 5 miles.									
Saline County									
15 SW Salina to 10 W Salina	04	1308CST 1330CST	5	55	0	0			Tornado (F0)
Ellsworth County									
5 SE Carneiro to 4 SE Carneiro	04	1315CST	1	55	0	0			Tornado (F0)
Remained over open country.									
Mcpherson									
5 S Mc Pherson to 3 S Mc Pherson	04	1323CST	2	55	0	0			Tornado (F0)
Remained over open country.									
Mcpherson									
Mc Pherson	04	1343CST			0	0			Hail (1.25)
Lincoln County									
5 W Ash Grove to 4 NW Ash Grove	04	1345CST	2	55	0	0			Tornado (F0)
Remaining over open country, the tornado crossed the Lincoln/Mitchell County line, 4 miles northwest of Ash Grove where it lifted just west of Hunter in extreme Southwest Mitchell County.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
<u>KANSAS, Southeast</u>										
Marion County										
3 NW Marion to 2 NE Lincolnville	04	1535CST 1550CST	15	220	0	0	50K		Tornado (F1)	
Initial touchdown occurred over eastern Marion Reservoir at approximately 1535. Moving northeast at 30 kts, the tornado passed near Lincolnville and then just to the east of Lost Springs where it crossed into southwest Morris County. Extensive damage was inflicted upon one home just southeast of Lost Springs where the garage was destroyed and part of roof was lost.										
Marion County										
2 NE Lincolnville	04	1547CST			0	0			Hail (1.75)	
Labette County										
Edna	04	2034CST			0	0			Hail (1.00)	
Labette County										
3 SW Dennis	04	2038CST 2045CST			0	0	25K		Thunderstorm Wind (G56)	
Roof was torn off a metal barn.										
Neosho County										
Erie	04	2038CST			0	0			Hail (0.75)	
KSZ047-068-083- Barton - Harvey - Sedgwick - Labette										
	04 09	2040CST 2355CST			0	0	15K		High Wind (G61)	
Outflow from dissipating thunderstorms over western Kansas induced sustained winds of 52-61kts across most of Barton County downing power lines in Great Bend.										
Labette County										
Oswego	04	2046CST			0	0			Hail (0.75)	
Labette County										
4 E Altamont	04	2050CST			0	0			Hail (1.00)	
Sedgwick County										
Anness	10	0002CST			0	0			Hail (1.00)	
Sedgwick County										
Clearwater	10	0037CST			0	0			Hail (1.50)	
Sedgwick County										
Peck	10	0055CST			0	0			Hail (0.75)	
Sedgwick County										
Wichita	10	0255CST			0	0			Hail (0.75)	
Reported in South Wichita.										
Ellsworth County										
Black Wolf	10	1736CST			0	0			Hail (0.75)	
Ellsworth County										
3 S Wilson	10	1811CST			0	0			Hail (1.00)	
Lincoln County										
2 NW Barnard	10	1815CST			0	0			Hail (1.00)	
Barton County										
7 S Great Bend	10	1816CST			0	0			Hail (1.00)	
Barton County										
3 SW Claflin to 2 NE Claflin	10	1820CST 1835CST	5	110	0	0	100K		Tornado (F1)	
In Claflin, one farmstead sustained damage where top half of barn was destroyed, grainery destroyed, grain bin disappeared, and chicken house lost nearly 2/3 of it's roof.										
Barton County										
11 SE Great Bend	10	1830CST			0	0			Hail (1.00)	
Ellsworth County										
1 SW Holyrood	10	1845CST			0	0			Hail (0.75)	
Rice County										
2 E Bushton to 3 NE Bushton	10	1916CST 1918CST	1	55	0	0			Tornado (F0)	

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Rice County									
3 NW Lyons	10	2030CST 2033CST			0	0			Thunderstorm Wind (G52)
Kingman County									
Willowdale	10	2251CST			0	0			Hail (0.75)
Kingman County									
2 N Belmont	10	2335CST			0	0			Hail (0.75)
Woodson County									
Yates Center	11	1759CST			0	0			Hail (0.75)
Montgomery									
3 NE Liberty	11	1815CST			0	0			Hail (0.75)
Labette County									
Dennis	11	1859CST			0	0			Hail (0.75)
Neosho County									
5 SE Erie	11	1905CST			0	0			Hail (0.75)
Labette County									
Dennis	11	1907CST			0	0			Thunderstorm Wind (G52)
Neosho County									
Thayer	11	2000CST			0	0			Hail (0.75)
Neosho County									
Galesburg	11	2010CST			0	0			Hail (1.00)
Neosho County									
4 W Erie	11	2020CST			0	0			Hail (1.00)
Montgomery									
1 S Independence	11	2359CST			0	0			Flash Flood
	12	0100CST							
		Onion Creek flooded, closing S. 10th St.							
Kingman County									
Kingman	16	1716CST			0	0			Hail (0.75)
Marion County									
3 E Durham	16	1728CST	0	55	0	0			Tornado (F0)
		Brief touchdwn in open country.							
Kingman County									
4 E Kingman	16	1734CST			0	0			Hail (0.75)
Harvey County									
2 S Patterson	16	1738CST			0	0			Hail (1.00)
Marion County									
1 W Ramona	16	1740CST			0	0			Hail (0.75)
Kingman County									
5 S Kingman	16	1755CST			0	0			Hail (2.75)
Marion County									
5 SE Durham to 5 SW Lincolville	16	1800CST 1808CST	2	440	0	0	75K		Tornado (F1)
		Four outbuildings and two vehicles destroyed.							
Harvey County									
Halstead	16	1808CST			0	0			Hail (0.75)
Kingman County									
Belmont	16	1810CST	0	55	0	0			Tornado (F0)
		Brief touchdown in open country.							
Kingman County									
3 W Kingman to 2 SW Murdock	16	1820CST 1829CST	4	110	0	0			Tornado (F0)
		Remained over open country.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
<u>KANSAS, Southeast</u>										
Marion County										
4 W Hillsboro to 4 W Durham	16	1841CST 1858CST	10	110	0	0				Tornado (F0)
Remained over open country.										
Sedgwick County										
Cheney	16	1841CST			0	0				Hail (1.75)
Kingman County										
Mt Vernon	16	1905CST			0	0				Hail (0.75)
Kingman County										
5 SE Kingman	16	1950CST			0	0				Hail (0.75)
Kingman County										
Belmont	16	1951CST			0	0				Hail (1.00)
Marion County										
3 NE Lehigh	16	1955CST			0	0				Hail (0.75)
Sedgwick County										
Wichita	16	2001CST			0	0				Hail (1.75)
Kingman County										
Belmont	16	2013CST			0	0				Hail (0.88)
Sedgwick County										
Wichita	16	2110CST 2119CST			0	0				Hail (0.75)
Butler County										
7 S Whitewater	16	2118CST			0	0				Hail (0.75)
Sedgwick County										
Wichita	16	2120CST 2359CST			0	0	250K			Flash Flood
Torrential rains caused widespread flooding across the Wichita metropolitan area with water as much as 3 feet deep in some areas. In Northwest Wichita, flash flooding broke out windows at one residence causing water to flow into the basement.										
Sedgwick County										
Wichita	16	2130CST 2131CST			0	0				Thunderstorm Wind (G52)
Tree limbs blown down at intersection of West 29th Street and Amidon.										
Barton County										
Albert	16	2255CST			0	0	175K			Hail (1.75)
Golfball-sized hail damaged farm dwellings and approximately 70% of total acreage.										
Barton County										
2 NW Great Bend	16	2303CST			0	0				Hail (1.00)
Barton County										
3 N Albert	16	2312CST			0	0				Hail (1.75)
Barton County										
3 N Albert	16	2312CST			0	0				Thunderstorm Wind (G61)
Barton County										
Ellinwood	16	2315CST			0	0				Thunderstorm Wind (G56)
Saline County										
2 E Salina	16	2315CST			0	0				Hail (0.88)
Barton County										
2 E Hoisington	16	2317CST			0	0	1K			Hail (1.75)
All windows broken on west side of house.										
Barton County										
Great Bend	16	2320CST			0	0				Hail (0.75)
Ellsworth County										
2 SW Holyrood	16	2336CST 2340CST			0	0				Hail (1.75)
Golfball-sized hail damaged approximately 15,000 acres of crops including 20-30% of the wheat crop.										

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Rice County									
Lyons	16	2349CST			0	0			Hail (0.75)
Rice County									
Silica to Chase	16 17	2350CST 0015CST			0	0	100K		Hail (1.75)
Marble to golfball-sized hail damaged roofs, vehicles, numerous trees and broke windows. A total of 85,000 acres of farmland (wheat, corn and alfalfa) were affected.									
Rice County									
Silica to Chase	16 17	2350CST 0015CST			0	0			Thunderstorm Wind (G52)
Ellsworth County									
10 E Lorraine	16	2353CST			0	0			Thunderstorm Wind (G52)
Wilson County									
Fredonia	16	2355CST			0	0			Hail (0.75)
KSZ082 Kingman									
	17	0001CST 0200CST			0	0			Flood
Several roads under water in Murdock.									
Allen County									
Iola to La Harpe	17	0020CST 0030CST			0	0			Thunderstorm Wind (G61)
Numerous trees blown down, a few with trunks 2 feet in diameter.									
Neosho County									
Erie to 2 SW Erie	17	0035CST 0045CST			0	0	2.5K		Thunderstorm Wind (G52)
Large tree blown into a house in Erie.									
Russell County									
3 SW Bunker Hill	20	1515CST			0	0			Hail (0.75)
Barton County									
2 NE Hoisington	20	1525CST			0	0			Hail (0.75)
Ellsworth County									
Ellsworth	20	1625CST			0	0			Hail (0.75)
Barton County									
3 NW Odin	20	1655CST 1755CST			0	0			Flash Flood
Street flooding.									
Ellsworth County									
Ellsworth	20	1705CST 1805CST			0	0			Flash Flood
Street flooding in Ellsworth.									
Saline County									
Salina	20	1753CST 1853CST			0	0			Flash Flood
Considerable street flooding.									
Mcperson									
3 SW Inman	20	1821CST			0	0			Hail (0.75)
Mcperson									
3 S Moundridge	20	1917CST			0	0			Hail (0.88)
Mcperson									
Moundridge	20	1919CST			0	0			Hail (1.75)
Kingman County									
1 S Zenda	20	1945CST			0	0			Thunderstorm Wind (G52)
Sedgwick County									
Bentley	20	2020CST			0	0			Hail (0.75)
Sedgwick County									
2 NE Furley	20	2026CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Butler County									
5 NW El Dorado	20	2053CST			0	0			Thunderstorm Wind (G52)
Butler County									
Douglass	20	2110CST			0	0			Thunderstorm Wind (G52)
Sedgwick County									
Wichita	20	2130CST 2230CST			0	0			Flash Flood
		Street flooding.							
Cowley County									
2 W Arkansas City to 1 S Arkansas City	22	1150CST 1210CST			0	0			Hail (1.00)
		Hail ranged from 0.75 to 1.00 inch.							
Cowley County									
15 NE Arkansas City	22	1414CST			0	0			Hail (0.75)
Cowley County									
1 E Winfield to 3 S Udall	22	1423CST			0	0			Hail (0.75)
Cowley County									
10 E Arkansas City	22	1500CST			0	0			Hail (0.75)
Cowley County									
Winfield	22	1520CST 1620CST			0	0			Flash Flood
		Roads flooded near state hospital and 1 mile north of Highway 160 in West Winfield.							
Russell County									
Russell	22	2024CST			0	0			Thunderstorm Wind (G53)
Russell County									
Lucas	22	2025CST 2035CST			0	0	100K		Thunderstorm Wind (G61)
		Home and building damage, large grain bins and an elevator leg destroyed as well as head stone damage and grave markers blown over.							
Lincoln County									
4 NW Sylvan Grove to 2 W Lincoln	22	2040CST 2048CST			0	0			Hail (0.75)
Saline County									
1 SW Salina	22	2130CST			0	0	50K		Thunderstorm Wind (G52)
		About 10 power poles blown down.							
Reno County									
Hutchinson	22	2139CST			0	0			Thunderstorm Wind (G50)
Chase County									
1 NW Elmdale	22	2225CST			0	0			Thunderstorm Wind (G52)
Chase County									
3 E Cottonwood Falls	22	2227CST			0	0			Hail (0.88)
Butler County									
Potwin	22	2234CST			0	0			Thunderstorm Wind (G52)
Lincoln County									
3 SE Westfall	30	1806CST			0	0			Hail (1.75)
Saline County									
2 N Glendale	30	1823CST 1829CST			0	0			Hail (1.00)
Saline County									
1 S Glendale	30	1829CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Saline County									
2 S Glendale	30	1845CST			0	0			Hail (1.75)
Saline County									
7 NW Salina	30	1850CST			0	0			Hail (1.75)
Saline County									
8 E Glendale	30	1852CST			0	0			Hail (1.75)
Saline County									
1 E Hedville	30	1915CST			0	0			Hail (1.75)
Saline County									
4 NW Salina	30	1928CST			0	0			Hail (0.75)
Harper County									
6 SW Attica	31	0115CST			0	0			Hail (1.00)
Sedgwick County									
Wichita	31	0200CST			0	0			Hail (1.25)
Occurred at 21st St./Webb Rd. intersection in East Wichita.									
Sedgwick County									
Wichita	31	0205CST			0	0			Hail (0.88)
Occurred in South Wichita.									
Butler County									
Rose Hill	31	0211CST			0	0			Hail (0.75)
Butler County									
Smileyburg	31	0230CST			0	0			Hail (0.75)
Cowley County									
Burden	31	0235CST 0238CST			0	0			Thunderstorm Wind (G61)
Gusts ranged from 52-61kt.									
Cowley County									
Burden	31	0238CST			0	0			Hail (0.75)
Russell County									
10 N Russell	31	1914CST			0	0			Hail (1.75)
Russell County									
7 SW Paradise	31	1915CST			0	0			Hail (1.00)
Russell County									
Russell	31	1926CST			0	0			Thunderstorm Wind (G50)
Measured at Radio Station KRSL.									
Russell County									
7 N Dorrance	31	2000CST			0	0			Hail (1.00)
Lincoln County									
5 SW Sylvan Grove	31	2010CST			0	0			Hail (1.00)
Ellsworth County									
7 N Ellsworth	31	2030CST			0	0			Hail (1.75)
Ellsworth County									
6 N Ellsworth	31	2035CST			0	0			Hail (1.75)
Ellsworth County									
6 N Ellsworth	31	2035CST			0	0			Thunderstorm Wind (G52)
Ellsworth County									
2 N Ellsworth to Ellsworth	31	2040CST 2045CST	2	55	0	0	11K		Tornado (F0)
Several steel plates 3 feet X 20 feet were blown more than 100 feet, the Ellsworth Service Center was damaged, and several trees were blown down.									
Ellsworth County									
10 NE Ellsworth	31	2041CST			0	0			Hail (2.75)
Occurred at I-70/K-156 interchange.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Ellsworth County									
17 NE Ellsworth	31	2059CST			0	0			Hail (1.00)
Saline County									
Brookville	31	2120CST Windows broken.			0	0			Hail (1.75)
Saline County									
Salina	31	2210CST Streets flooded in Salina.			0	0			Flash Flood
<u>KANSAS, Southwest</u>									
Seward County									
4 S Kismet	02	1955CST Lasted 15 minutes			0	0			Hail (0.75)
Seward County									
4 S Kismet	02	2010CST			0	0			Hail (0.75)
Ellis County									
1 E Yocemento	04	1200CST			0	0			Hail (1.00)
Ellis County									
13 N Hays	04	1235CST			0	0			Hail (0.88)
Ellis County									
4 NE Emmeram	04	1640CST			0	0			Hail (1.00)
Rush County									
2 E Timken	04	1745CST			0	0			Hail (0.75)
Rush County									
3 W Otis	04	1804CST			0	0			Hail (0.75)
Ellis County									
17 NE Hays	04	2045CST			0	0			Hail (0.75)
Comanche County									
5 NE Protection	09	1904CST			0	0			Hail (1.00)
Kiowa County									
15 SSW Greensburg	09	1922CST			0	0			Hail (0.88)
Stafford County									
7 NE St John	10	2032CST			0	0			Hail (1.00)
Stafford County									
9 S St John to 9 S Seward	10	2139CST			0	0			Hail (0.75)
Pratt County									
2 N Byers	10	2140CST			0	0			Hail (1.00)
Pratt County									
1 N Byers	10	2150CST			0	0			Hail (1.00)
Stafford County									
6 SW St John	10	2202CST			0	0			Hail (0.75)
Pratt County									
10 NNW Pratt	10	2205CST			0	0			Hail (0.75)
Pratt County									
9 NW Pratt	10	2212CST			0	0			Hail (0.75)
Pratt County									
2 N Iuka	10	2217CST			0	0			Hail (0.88)
Pratt County									
3 N Pratt	10	2232CST			0	0			Hail (1.00)
Pratt County									
2 NW Pratt	10	2237CST			0	0			Hail (0.75)
Pratt County									
2 N Pratt	10	2243CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Pratt County									
1 S Pratt	10	2245CST			0	0			Hail (1.00)
Pratt County									
Pratt	10	2245CST			0	0			Hail (1.00)
Pratt County									
Coats	10	2246CST			0	0			Hail (1.00)
Kearny County									
6 W Lakin	10	2248CST			0	0			Hail (0.75)
		Had 50 mph wind along with the hail.							
Finney County									
7 S Holcomb	10	2320CST			0	0			Hail (0.88)
		Had 55 mph wind along with the hail.							
Barber County									
3 W Lake City	10	2325CST			0	0			Hail (0.75)
Pratt County									
2 S Coats	10	2330CST			0	0			Hail (0.75)
Pratt County									
13 SW Pratt	10	2330CST			0	0			Flash Flood
		Water was over a county road.							
Pratt County									
13 SW Pratt	10	2330CST			0	0			Hail (0.75)
Pratt County									
11 E Sawyer	11	0030CST			0	0			Hail (0.75)
Barber County									
6 S Sun City	11	0048CST			0	0			Hail (1.00)
Barber County									
8 NW Hardtner	16	2025CST			0	0			Hail (0.75)
Barber County									
10 S Medicine Lodge	16	2050CST			0	0			Hail (0.88)
Barber County									
5 S Medicine Lodge	16	2133CST			0	0			Hail (2.00)
Hamilton County									
21 NW Syracuse	16	2136CST			0	0			Hail (1.25)
		Reported by a pilot on the ground.							
Hamilton County									
18 N Syracuse	16	2200CST			0	0	2K		Thunderstorm Wind
		Power poles down across highway 27.							
Hamilton County									
12 N Kendall	16	2205CST			0	0			Thunderstorm Wind (G69)
Comanche County									
22 SE Coldwater	16	2207CST			0	0			Hail (1.75)
Hamilton County									
9 NNW Coolidge	16	2230CST			0	0	30K		Hail (1.75)
		Swath of hail and high wind across the northern 1/4 of the county produced \$30,000 damage to property. Damage was also done to crops. Do not have dollar figure available.							
Kearny County									
14 N Deerfield	16	2240CST			0	0			Hail (1.75)
		Window broken out a car.							
Scott County									
2 S Modoc	16	2242CST			0	0			Hail (1.75)
Comanche County									
18 SE Coldwater	16	2245CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Scott County									
Scott City	16	2250CST			0	0			Hail (1.75)
Scott County									
Scott City	16	2250CST			0	0	1.6M		Thunderstorm Wind (G71)
Swath of large hail and high wind across the county produced \$1.55 million in damage to property. Extensive damage was also done to crops. In Scott City, a roof was blown off; a camper was blown 30 feet and a shed was blown down.									
Finney County									
4 W Friend	16	2256CST			0	0			Hail (1.25)
Lane County									
1 W Dighton	16	2312CST			0	0			Hail (1.00)
Lane County									
Dighton	16	2315CST			0	0			Hail (1.75)
Lane County									
Shields	16	2320CST			0	0			Hail (0.75)
Ness County									
7 SSW Utica	16	2332CST			0	0			Hail (1.00)
Ness County									
20 NNW Ness City	16	2335CST			0	0			Hail (1.75)
Ness County									
Utica	16	2340CST			0	0			Hail (1.00)
Ness County									
Ness City	16	2342CST			0	0			Hail (1.75)
Ness County									
2 E Utica	16	2343CST			0	0			Hail (1.00)
Comanche County									
2 S Protection	16	2345CST			0	0			Hail (1.00)
Ness County									
9 SW Ness City	16	2345CST			0	0			Hail (1.75)
Also had 79 mph wind which broke the equipment and the hail broke out windows.									
Ness County									
9 SW Ness City	16	2345CST			0	0			Thunderstorm Wind (G69)
Ness County									
Utica	16	2345CST			0	0			Hail (1.00)
Ness County									
Ransom	16	2350CST			0	0			Hail (2.75)
Ness County									
1 N Ransom	16	2353CST			0	0			Hail (1.25)
Ness County									
9 SSE Ness City	17	0000CST			0	0			Hail (1.75)
Ness County									
3 NW Brownell	17	0005CST			0	0			Hail (1.00)
Also had 60 mph wind.									
Ness County									
3 NW Brownell	17	0005CST			0	0	200K		Thunderstorm Wind (G52)
Two separate swaths of hail moved through the county. The first was in a 7 to 12 mile wide swath from 2 miles south of Utica...to Arnold...Ransom...Brownell...and McCracken. The second swath was from 2 miles south of Beeler...to 4 miles south of Ness City...to 3 miles south of Bazine. A dollar amount was not made available...but crops were nearly completely wiped out in the hail swaths and numerous windows were broken out in automobiles and homes.									
Trego County									
22 S Wakeeney	17	0005CST			0	0			Hail (1.00)
Pawnee County									
28 WNW Larned	17	0015CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Pawnee County									
28 WNW Larned	17	0015CST			0	0			Thunderstorm Wind (G58)
Trego County									
17 S Riga	17	0015CST			0	0			Hail (0.75)
Ellis County									
8 S Ellis	17	0020CST			0	0			Hail (0.88)
		Lasted 20 minutes							
Rush County									
Alexander	17	0029CST			0	0			Hail (1.75)
Rush County									
La Crosse	17	0030CST			0	0			Hail (1.75)
Rush County									
Rush Center	17	0030CST			0	0			Hail (1.75)
Pawnee County									
10 NW Larned	17	0035CST			0	0	100K		Hail (1.75)
		\$100,000 in damage across the county.							
Ford County									
Wright	17	0040CST			0	0			Hail (2.00)
Rush County									
Rush Center	17	0045CST			0	0	2.5M		Hail (1.75)
		Widespread severe weather continued from eastern Colorado, spreading across Rush county during the midnight hour. One person escaped injury by crawling out of bed! Golf ball size hail driven by 70 mph wind smashed through the window and window blind and passed by a man's head as he lay in bed. After the event, hail and glass shreds covered the bed. Loss to wildlife and some livestock across the county was heavy. There was a report of several dead cattle and many injured cow and horses. One-hundred thousand acres of wheat were mowed down, 3,500 acres of corn damaged and 4,000 acres of alfalfa destroyed (first cutting). \$480,000 in damage was done to farm equipment across the county (included in the \$2.48m)							
Rush County									
2 SW Timken	17	0045CST			0	0	50K		Thunderstorm Wind
Pawnee County									
12 N Larned	17	0050CST			0	0			Hail (1.00)
Pawnee County									
6 NNW Larned	17	0105CST			0	0			Hail (0.88)
		Had 70 mph wind too.							
Pawnee County									
6 NNW Larned	17	0105CST			0	0			Thunderstorm Wind (G61)
Stafford County									
8 N Hudson	17	0125CST			0	0			Hail (0.75)
Ellis County									
2 W Hays	20	1403CST			0	0			Hail (1.75)
Lane County									
3 S Dighton	20	1500CST			0	0			Hail (1.00)
Trego County									
17 NE Wakeeney	20	1500CST			0	0			Hail (1.75)
Trego County									
6 S Riga	20	1542CST			0	0			Hail (1.75)
Rush County									
Bison	20	1720CST			0	0			Hail (0.75)
Stevens County									
2 N Woods	20	1725CST			0	0			Hail (0.75)
Stevens County									
6 SE Moscow	20	1735CST			0	0			Hail (0.88)
Seward County									
11 NW Liberal	20	1740CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Seward County									
15 NW Liberal	20	1745CST			0	0			Hail (1.00)
			Hail completely covered the ground.						
Pawnee County									
3 NW Rozel	20	1800CST			0	0			Hail (0.88)
Haskell County									
3 SW Sublette	20	1802CST			0	0			Thunderstorm Wind (G52)
Seward County									
22 NW Liberal	20	1810CST			0	0			Hail (1.00)
Gray County									
5 SE Copeland	20	1835CST			0	0			Hail (0.88)
Meade County									
4 S Plains	20	1840CST			0	0			Hail (1.00)
Meade County									
16 S Meade	20	1845CST			0	0			Hail (1.25)
Lane County									
6 SE Dighton	20	1846CST			0	0			Hail (0.88)
Meade County									
1 SE Fowler to 1 S Collano	20	1905CST			0	0			Hail (0.75)
Clark County									
13 W Ashland	20	1920CST			0	0			Thunderstorm Wind (G65)
			4 inch diameter tree limbs down.						
Pratt County									
1 N Coats	20	2033CST			0	0			Hail (1.00)
Grant County									
7 SSW Hickok	22	0515CST			0	0			Hail (0.75)
Stevens County									
Moscow	22	0548CST			0	0			Hail (1.00)
Stevens County									
1 S Moscow	22	0549CST			0	0			Hail (0.75)
Seward County									
14 NW Liberal	22	0555CST			0	0			Hail (0.75)
Seward County									
9 N Liberal	22	0610CST			0	0			Hail (1.00)
Seward County									
5 SW Kismet	22	0650CST			0	0			Hail (0.88)
Seward County									
4 SW Kismet	22	0700CST			0	0			Hail (0.75)
Hodgeman County									
5 W Jetmore	22	0735CST			0	0			Hail (0.75)
Ness County									
1 N Ransom	22	0905CST			0	0			Hail (0.75)
Trego County									
7 S Collyer	22	0905CST			0	0			Hail (1.75)
Trego County									
10 S Collyer	22	0912CST			0	0			Hail (1.00)
Ness County									
9 NE Ness City	22	0915CST			0	0			Hail (0.75)
Morton County									
11 N Elkhart	22	1845CST			0	0			Hail (0.88)
Morton County									
5 NNE Elkhart	22	1958CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Trego County									
Cedar Bluff Res	22	2100CST			0	0			Thunderstorm Wind (G60)
			Camper overturned and tree limbs blown down.						
Ness County									
3 W Brownell	22	2140CST			0	0			Thunderstorm Wind (G52)
Rush County									
Mc Cracken	22	2140CST			0	0			Thunderstorm Wind (G61)
Pawnee County									
11 NW Burdett	22	2144CST			0	0			Thunderstorm Wind (G61)
Hodgeman County									
8 N Jetmore	22	2145CST			0	0			Thunderstorm Wind (G52)
Hodgeman County									
8 N Jetmore	22	2155CST			0	0			Hail (1.00)
Ellis County									
4 E Victoria	22	2200CST			0	0			Thunderstorm Wind (G52)
Rush County									
6 S Loretta	22	2200CST			0	0			Thunderstorm Wind (G65)
Hodgeman County									
8 N Jetmore	22	2203CST			0	0			Hail (0.75)
Ellis County									
Hays Muni Arpt	22	2215CST			0	0			Thunderstorm Wind (G54)
Edwards County									
10 N Kinsley	22	2226CST			0	0			Hail (1.00)
Hodgeman County									
3 N Hanston	22	2230CST			0	0			Hail (1.00)
Pawnee County									
4 S Burdett	22	2240CST			0	0			Hail (1.00)
Stafford County									
7 S Macksville	22	2255CST			0	0			Hail (0.75)
Stafford County									
7 S Macksville	22	2255CST			0	0			Thunderstorm Wind (G70)
			Five inch diameter tree limbs blown down.						
Pratt County									
Hopewell	22	2300CST			0	0			Hail (0.75)
Edwards County									
8 S Lewis	22	2305CST			0	0			Hail (0.75)
Pratt County									
4 WNW Byers	22	2305CST			0	0			Hail (0.75)
Pratt County									
4 WNW Byers	22	2305CST			0	0			Thunderstorm Wind (G52)
Stanton County									
5 E Johnson	24	1817CST			0	0			Hail (0.75)
Stanton County									
2 S Johnson	24	1845CST			0	0			Hail (0.75)
Kearny County									
15 N Lakin	24	1900CST			0	0			Flash Flood
			Water was reported over highway K25.						
Kearny County									
21 N Lakin	24	1900CST			0	0			Hail (1.00)
			Also had 60 mph wind.						
Kearny County									
17 N Lakin	24	1900CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Kearny County									
21 N Lakin	24	1900CST			0	0			Thunderstorm Wind (G52)
Finney County									
10 NNW Garden City	24	1939CST			0	0			Hail (0.75)
Kearny County									
10 N Deerfield	24	2000CST			0	0			Hail (0.75)
		Hail covered the ground.							
Kearny County									
13 N Lakin	24	2018CST			0	0			Hail (1.25)
Stanton County									
1 S Saunders	24	2020CST			0	0			Hail (0.75)
Hodgeman County									
3 E Hanston to 3 N Hanston	24	2053CST			0	0			Hail (0.88)
Kearny County									
10 N Deerfield	24	2055CST			0	0			Hail (1.00)
Edwards County									
5 NE Kinsley	24	2130CST			0	0			Hail (0.75)
Grant County									
11 S Hickok	24	2200CST			0	0			Hail (0.75)
Kearny County									
3 W Deerfield	24	2215CST			0	0			Hail (0.75)
		Also, had five inches of rain.							
Finney County									
5 SW Pierceville	24	2315CST			0	0			Hail (0.75)
		Wheat was shredded.							
Finney County									
5 SW Pierceville	24	2315CST			0	0			Thunderstorm Wind (G69)
		Shingles blown off and had 4 inch diameter tree limbs down.							
Seward County									
15 NNW Liberal	30	1933CST			0	0			Hail (0.88)
Meade County									
15 S Meade	30	2115CST			0	0			Hail (0.75)
Meade County									
9 SW Meade	30	2127CST			0	0			Hail (0.75)
Meade County									
7 S Meade	30	2136CST			0	0			Hail (1.00)
Stanton County									
5 SE Saunders	30	2140CST			0	0			Thunderstorm Wind (G69)
		Shingles blown off the roof.							
Morton County									
12 NW Richfield	30	2145CST			0	0			Thunderstorm Wind (G61)
		Three inch diameter tree limbs blown down.							
Clark County									
Ashland	31	0054CST			0	0			Hail (0.88)
Clark County									
6 NE Ashland	31	0110CST			0	0			Hail (0.75)
Comanche County									
Coldwater	31	0124CST			0	0			Hail (0.88)
Comanche County									
Coldwater	31	0125CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>KANSAS, Southwest</u>									
Ness County									
12 S Bazine	31	0140CST			0	0			Thunderstorm Wind (G69)
			Four to six inch diameter tree limbs down.						
Barber County									
Sharon	31	0230CST			0	0			Hail (0.88)
Barber County									
6 SE Medicine Lodge	31	0240CST			0	0			Hail (0.75)
Barber County									
2 NE Hazelton	31	0245CST			0	0			Hail (0.75)
Barber County									
Sharon	31	0300CST			0	0			Hail (0.88)
Barber County									
3 NNW Hazelton	31	0400CST			0	0			Hail (0.88)
			Forty percent of the wheat was damaged.						
Barber County									
Sharon	31	0400CST			0	0			Hail (0.88)
Barber County									
4 S Sharon	31	0515CST			0	0			Hail (1.75)
Seward County									
12 N Kismet	31	1845CST			0	0			Hail (1.00)
Meade County									
11 WNW Meade to 9 WNW Meade	31	1850CST 1857CST	2	30	0	0			Tornado (F0)
Meade County									
10 N Plains	31	1855CST			0	0			Hail (1.00)
Meade County									
Missler	31	1900CST			0	0			Hail (1.75)
Meade County									
4 ENE Plains	31	1915CST			0	0			Hail (2.75)
Meade County									
Meade	31	1919CST			0	0			Hail (1.25)
Meade County									
2 SE Meade	31	1925CST 1926CST	0.2	50	0	0			Tornado (F0)
			Windows blown out of a house.						
Meade County									
Meade	31	1930CST			0	0			Hail (1.75)
Meade County									
5 E Plains	31	1930CST			0	0			Hail (4.75)
Meade County									
6 NE Meade	31	1935CST			0	0			Hail (4.50)
Meade County									
9 E Meade	31	1950CST			0	0			Hail (2.50)
Clark County									
10 S Minneola	31	1959CST			0	0			Hail (2.75)
Ellis County									
11 NE Hays	31	2015CST			0	0			Hail (1.25)
Clark County									
4 SW Sitka to 4 SSE Sitka	31	2030CST 2038CST	4.2	150	0	0			Tornado (F1)
			Tree row heavily damaged.						
Clark County									
9 NNE Sitka	31	2036CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Clark County									
5 S Sitka	31	2039CST			0	0	3K		Thunderstorm Wind
			Ten power poles taken down by the RearFlank Downdraft.						
Comanche County									
Protection	31	2045CST			0	0			Hail (1.00)
Ellis County									
16 NE Hays	31	2045CST			0	0			Hail (1.25)
Clark County									
9 NNE Sitka	31	2046CST			0	0			Hail (1.50)
Comanche County									
3 SSW Protection to 3 S Protection	31	2050CST 2055CST	1.5	75	0	0			Tornado (F1)
			Mature cottonwood grove taken out.						
Comanche County									
1 SW Protection	31	2055CST			0	0			Hail (2.50)
Clark County									
11 NE Ashland	31	2100CST			0	0			Hail (1.25)
Clark County									
4 NE Sitka	31	2100CST			0	0			Hail (4.00)
Comanche County									
5 WNW Coldwater	31	2112CST			0	0			Hail (1.00)
Comanche County									
12 SE Coldwater	31	2130CST			0	0			Hail (1.75)
Barber County									
3 ESE Sharon	31	2140CST			0	0	20K		Thunderstorm Wind
			Barn damaged.						
Barber County									
4 E Sharon	31	2145CST			0	0	20K		Lightning
			House struck.						
Comanche County									
22 SE Coldwater	31	2200CST			0	0			Hail (1.25)
Barber County									
Hardtner	31	2208CST			0	0			Hail (1.00)
Comanche County									
4 NW Coldwater	31	2212CST			0	0			Hail (1.00)
Barber County									
3 SW Sharon	31	2230CST			0	0			Hail (2.75)
Barber County									
2 SW Sharon	31	2230CST			0	0			Thunderstorm Wind (G52)
<u>KENTUCKY, Central</u>									
Hancock County									
Pellville	05	1852EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Breckinridge									
Stephensport	05	1935EST			0	0			Thunderstorm Wind (G50)
			Power poles down.						
Simpson County									
Franklin	05	2225EST			0	0			Thunderstorm Wind (G52)
			60 mph wind gust observed...wind was rocking vehicles.						
Allen County									
Scottsville	05	2240EST			0	0			Thunderstorm Wind (G50)
			Trees down.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
<u>KENTUCKY, Central</u>										
Warren County										
Bowling Green Arpt	05	2309EST			0	0				Thunderstorm Wind (G63)
Numerous trees and power lines down in Bowling Green.										
Simpson County										
Franklin	05	2310EST			0	0				Thunderstorm Wind (G50)
Trees down.										
Warren County										
Woodburn	05	2310EST			0	0	15K			Thunderstorm Wind
An airport hangar was blown onto nearby railroad tracks, forcing crews to temporarily stop traffic. One small airplane was blown onto the railroad's signal lines.										
Cumberland										
Burkesville	05	2325EST			0	0				Thunderstorm Wind (G50)
Trees down.										
Logan County										
1 N Auburn	05	2330EST 2331EST	0.1	50	0	0				Tornado (F0)
Brief tornado touchdown in field along Highway 103.										
Clinton County										
1 E Albany	05	2340EST			0	0				Thunderstorm Wind (G50)
Trees down.										
Madison County										
Richmond	15	2134EST			0	0				Hail (0.75)
Dime size hail reported just east of Richmond.										
Hancock County										
Chambers	17	1800EST			0	0				Thunderstorm Wind (G50)
Trees and power lines down.										
Ohio County										
Beaver Dam	17	1820EST			0	0				Thunderstorm Wind (G50)
Trees and power lines down.										
<u>KENTUCKY, Eastern</u>										
Pulaski County										
Somerset	06	0000EST			0	0	0	0		Thunderstorm Wind
Trees down.										
Whitley County										
Williamsburg	06	0020EST			0	0	0	0		Thunderstorm Wind
Several large trees down.										
Whitley County										
Corbin	06	0030EST			0	0	5K	0		Thunderstorm Wind
Tree blown down onto home and car.										
Pulaski County										
Somerset	06	0036EST			0	0	10K	0		Thunderstorm Wind
Partial roof collapse and windows blown out at a shopping center.										
Rockcastle County										
2 NW Mt Vernon	06	0045EST			0	0	1K	0		Thunderstorm Wind
Power lines down.										
Harlan County										
Evarts	07	1545EST			0	0	0	0		Hail (0.75)
Harlan County										
Totz	07	1600EST			0	0	0	0		Hail (1.00)
Knott County										
Sassafras	07	1630EST			0	0	0	0		Hail (0.88)
Knott County										
Hindman	07	1640EST			0	0	0	0		Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

Laurel County

12 SW London 18 1305EST 0 0 0 0 **Thunderstorm Wind**
Several trees blown down near highway 192.

Morgan County

Ezel 18 1320EST 0 0 0 0 **Hail (1.00)**

Wolfe County

Hazel Green 18 1325EST 0 0 0 0 **Hail (0.88)**

Wolfe County

Helechawa 18 1340EST 0 0 0 0 **Hail (0.88)**

Pike County

Virgie 18 1515EST
1545EST 0 2 100K 0 **Flash Flood**

3.75 inches of rain fell in less than an hour on the long branch area. Flooding brought rocks, trees and other debris down a hillside near Virgie. A garage containing two cars collapsed, a house and mobile home received major damage and four houses received minor damage. Two people received leg injuries as they were caught in the debris flow.

KENTUCKY, Northeast

KYZ101>103-105 Greenup - Carter - Boyd - Lawrence

01 0000EST 0 0 Drought
31 2300EST

Drought conditions resurfaced during May, after a dry April. Total monthly rainfall for May was generally 1 to 1.75 inches. Louisa measured only .9 inches, Grayson had 1.1 inches, Charley 1.4 inches, Olive Hill 1.5 inches, and Ashland 1.7 inches.

KENTUCKY, Northern

NONE REPORTED.

KENTUCKY, Southwest

Todd County

Elkton 05 0140CST 0 0 3K **Thunderstorm Wind (G50)**
Some trees were down in the Elkton area, along with power outages.

Hickman County

Columbus 05 1500CST
1545CST 0 0 **Urban/Sml Stream Fld**
Thunderstorms produced very heavy rain that totalled 1.40 inches in 40 minutes.

Carlisle County

Cunningham 05 1534CST 0 0 3K **Thunderstorm Wind**
Trees were down.

Ballard County

La Center 05 1538CST 0 0 10K **Thunderstorm Wind (G52)**
Power lines and trees were downed by wind. A large tree fell on a house, causing significant damage.

Mccracken

3 W (Pah)Barkley 05 1541CST
Arpt Pa to 1557CST 0 0 10K **Thunderstorm Wind (G60)**
Paducah

Thunderstorm winds gusted to 69 MPH at the control tower at Barkley Regional Airport near Paducah. In the city of Paducah, an off-duty meteorologist estimated winds near 60 MPH. The main impact of these winds was scattered downed trees and limbs. A building under construction was blown down near the Ballard/McCracken County line along U.S. 60.

Calloway County

Murray 05 1642CST
1645CST 0 0 **Hail (1.00)**

Dime to quarter size hail fell on the south side of Murray, as reported by a local radio station and a Murray State University weather student.

Calloway County

4 W Murray to 05 1645CST 0 0 20K **Thunderstorm Wind (G52)**
Murray

A barn was blown onto Kentucky Route 94 a few miles west of Murray. Trees were down on Kentucky Routes 121 and 497. The front door was blown off a restaurant in Murray.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Calloway County									
Murray	05	1700CST			0	0	5K		Lightning
									Lightning struck an outbuilding and set it on fire. The building was a total loss.
Henderson County									
Hebbardsville to Niagara	05	1710CST			0	0	3K		Thunderstorm Wind
									Trees were blown down.
Trigg County									
Cadiz	05	1713CST			0	0	3K		Thunderstorm Wind (G50)
									Two trees were down.
Daviess County									
Owensboro to 3 ESE Owensboro	05	1755CST 1807CST			0	0	10K		Thunderstorm Wind (G52)
									Trees, power lines, and a power pole were blown down.
Christian County									
Oak Grove	05	1810CST			0	0			Hail (0.75)
Calloway County									
Murray	05	1915CST 2000CST			0	0			Urban/Sml Stream Fld
									Thunderstorms produced heavy rain that caused urban flooding on the campus of Murray State University and closed a secondary road for about 24 hours.
Todd County									
Elkton to Guthrie	05	2120CST 2230CST			0	0			Flash Flood
									Flooding was reported between Elkton and Guthrie. Emergency management officials reported road closings were imminent if very much additional rain fell.
Carlisle County									
Bardwell	17	1438CST			0	0			Thunderstorm Wind (G52)
									Emergency management personnel reported gusts up to 60 MPH.
Ballard County									
Kevil	17	1440CST			0	0	3K		Thunderstorm Wind (G50)
									Power lines were down.
Hickman County									
Columbus	17	1440CST			0	0	3K		Thunderstorm Wind (G50)
									Trees were down on State Route 1826.
Mccracken									
Woodville to Reidland	17	1455CST			0	0	10K		Thunderstorm Wind (G52)
									A number of trees were blown down at several locations in the western part of the county. The control tower at Barkley Regional Airport in West Paducah measured a gust to 60 MPH. Only a few trees were uprooted in the Reidland area of the county.
Marshall County									
Calvert City	17	1530CST			0	0	5K		Thunderstorm Wind (G52)
									A wind gust to 60 MPH was measured near Calvert City near the Purchase Parkway and I-24. Some tree limbs were down in the area.
Lyon County									
Eddyville	17	1545CST			0	0	4K		Thunderstorm Wind (G50)
									Trees and power lines were down along Oak Grove Road.
Livingston County									
Lola	17	1545CST			0	0	2K		Thunderstorm Wind (G52)
									Trees were down on Lola Road.
Crittenden County									
Shadey Grove	17	1554CST			0	0	5K		Thunderstorm Wind (G50)
									Two trees were down along Highway 120.
Union County									
Sturgis	17	1555CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>KENTUCKY, Southwest</u>									
Caldwell County									
Princeton	17	1600CST			0	0	5K		Thunderstorm Wind (G50)
			Power lines and a few trees were down.						
Henderson County									
Spottsville	17	1610CST			0	0	5K		Thunderstorm Wind (G50)
			A utility company reported two trees down.						
Hopkins County									
Madisonville	17	1625CST			0	0	4K		Thunderstorm Wind (G50)
			A few trees and power lines were down.						
Mclean County									
Countywide	17	1639CST			0	0	5K		Thunderstorm Wind (G50)
			A utility company reported a few trees and power lines down at locations scattered around the county.						
Daviess County									
Countywide	17	1644CST 1705CST			0	0	10K		Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees and power lines. A tree fell on a house 3 miles southeast of Owensboro.						
<u>LOUISIANA, Northeast</u>									
Richland Parish									
7 S Rayville	05	1730CST			0	0	25K		Hail (1.75)
			Golfball size hail caused minor damage to several homes and automobiles.						
East Carroll									
Lake Providence	05	1745CST			0	0	10K		Thunderstorm Wind
			Trees and power lines were blown down across Highway 65.						
Richland Parish									
10 SW Alto	05	1900CST			0	0	20K		Hail (1.75)
			Golfball size hail caused minor damage to a few homes and automobiles.						
East Carroll									
Countywide	05	1950CST 2150CST			0	0	20K		Flash Flood
			Numerous roads and a few homes were flooded.						
Madison Parish									
Tallulah	17	2240CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down near High School and Highway 65 split.						
Morehouse Parish									
Bonita	23	0100CST			0	0			Hail (0.75)
<u>LOUISIANA, Northwest</u>									
Caddo Parish									
Hosston	04	1610CST			0	0			Hail (0.75)
Bossier Parish									
4.2 SW Plain Dealing to 6.5 NE Plain Dealing	04	1628CST 1645CST	10	250	0	0	300K		Tornado (F2)
			Two mobile homes destroyed and several frame homes suffered roof damage. Numerous trees were snapped and uprooted. Damage includes timber damage.						
Caddo Parish									
Hosston	04	1810CST			0	0			Hail (0.75)
Webster Parish									
Dubberly	04	2115CST			0	0			Hail (0.75)
Bienville Parish									
Bryceland	04	2140CST			0	0			Hail (1.00)
Lincoln Parish									
Simsboro	04	2155CST			0	0			Hail (1.75)
Lincoln Parish									
Ruston	04	2215CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
LOUISIANA, Northwest									
Claiborne Parish									
Lake Claiborne	05	0330CST			0	0			Hail (1.00)
Union Parish									
Spearsville	05	0535CST			0	0			Hail (0.75)
Caddo Parish									
8 N Shreveport	05	1349CST			0	0			Hail (1.75)
Caddo Parish									
5 SW Shreveport Rgnl Arpt	05	1426CST			0	0			Hail (0.75)
Caddo Parish									
7 SE Shreveport	05	1430CST			0	0			Hail (1.75)
Bossier Parish									
Bossier City	05	1439CST			0	0			Hail (0.75)
Bossier Parish									
Bossier City	05	1442CST			0	0			Hail (1.75)
Caddo Parish									
Shreveport	05	1442CST			0	0			Hail (1.75)
Bossier Parish									
Haughton	05	1455CST			0	0			Hail (0.75)
		Location in the Red Point subdivision.							
De Soto Parish									
Grand Cane	05	1507CST			0	0			Hail (1.00)
Claiborne Parish									
Summerfield	05	1537CST			0	0			Hail (0.75)
Sabine Parish									
3 NW Zwolle	05	1825CST			0	0			Hail (1.00)
Caldwell Parish									
Hebert	05	1855CST			0	0			Hail (1.75)
Caddo Parish									
4 SE Vivian to Gilliam	17	1818CST			0	0			Thunderstorm Wind (G60)
		Trees down along Hwy 170 between Vivian and Gilliam.							
Sabine Parish									
2 NE Zwolle to Belmont	17	2015CST			0	0			Thunderstorm Wind (G60)
		Numerous trees down along Hwy 120.							
Bossier Parish									
Elm Grove	17	2020CST			0	0			Thunderstorm Wind (G60)
		Numerous trees down.							
Bossier Parish									
Benton	17	2025CST			0	0			Thunderstorm Wind (G60)
		Several large trees down.							
Lincoln Parish									
Vienna	17	2100CST			0	0			Hail (0.75)
Ouachita Parish									
Sterlington	17	2140CST			0	0			Hail (1.00)
Winn Parish									
5 W Dodson	26	1905CST			0	0			Thunderstorm Wind (G60)
		Trees down at intersection of Hwy 505 and Hwy 126.							
Caddo Parish									
Shreveport	29	1805CST			0	0	15K		Thunderstorm Wind
		Numerous trees down. One tree crushed a car in the 800 block of Poleman Road in the Highlands subdivision.							
Caddo Parish									
2 N Shreveport	29	1810CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
LOUISIANA, Northwest									
Natchitoches									
5 E Marthaville	30	1550CST			0	0			Thunderstorm Wind (G60)
			Several large trees down across Hwy 120.						
Grant Parish									
5 E Colfax	31	0300CST			0	0			Thunderstorm Wind (G62)
			Several large trees down across Hwy 8.						
LOUISIANA, Southeast									
Lafourche Parish									
Thibodaux	04	1320CST			0	0			Hail (0.75)
St. John The									
Reserve	04	1355CST			0	0			Thunderstorm Wind (G52)
			The St. John The Baptist Parish Department of Emergency Management reported a 60 mph wind gust at the St. John the Baptist Parish Airport in Reserve.						
Pointe Coupee									
Ventress	10	1120CST			0	0	0.25K		Thunderstorm Wind
			The Pointe Coupee Sheriff's Office reported a few trees blown down.						
East Baton Rouge									
Baton Rouge	10	1145CST			0	0	0.50K		Thunderstorm Wind
			Seven trees were blown down around the city.						
West Feliciana									
Wakefield	10	1215CST			0	0	0.50K		Thunderstorm Wind
			The West Feliciana Parish Sheriff's Office reported several trees blown down.						
East Feliciana									
Clinton to 5 E Clinton	10	1235CST			0	0	0.50K		Thunderstorm Wind
			The West Feliciana Department of Emergency Management reported several trees blown down in the eastern areas of the parish.						
St. James Parish									
Convent	10	1245CST			0	0	0.50K		Thunderstorm Wind
			The St. James Department of Emergency Management reported several trees blown down.						
Ascension Parish									
Sorrento	10	1255CST			0	0	0.50K		Thunderstorm Wind
			The Ascension Parish Department of Emergency management reported several trees blown down in the southeastern portion of the parish.						
Livingston Parish									
Countywide	10	1255CST			0	0	1K		Thunderstorm Wind
			The Livingston Parish Sheriff's Office reported several trees blown down throughout the parish.						
Jefferson Parish									
Westwego	10	1345CST			0	0	1K		Thunderstorm Wind
			A trained spotter reported several trees and power lines down at East Drive and Central Avenue.						
Tangipahoa Parish									
Roseland to Independence	11	1830CST			0	0	0.80K		Hail (1.00)
			The Tangipahoa Sheriff's Office reported that hail up to the size of quarters fell from Roseland to Amite to Independence. Sheriffs Office patrol car had a windshield damaged by the hail.						
Lafourche Parish									
Kraemer	12	0720CST			0	0	0.25K		Thunderstorm Wind
			The Lafourche Parish Sheriff's Office reported a few trees blown down.						
St. Tammany									
Abita Spgs	23	1425CST			0	0	0.25K		Thunderstorm Wind
			A television meteorologist reported a few tree tops snapped off.						
Lafourche Parish									
Valentine to Galliano	27	1445CST 1515CST	12	50	0	0	50K		Tornado (F0)
			A weak tornado touched down on an intermittent path as it moved southeast in close proximity to Bayou Lafourche. Minor roof damage was reported to several buildings, and windows were knocked out of several businesses and autos. There were numerous sightings of the tornado, and was both photographed and videotaped.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
LOUISIANA, Southeast									
St. Tammany									
5 SW Bush to 5 S Bush	28	1800CST 1815CST			0	0	0.50K		Tstm Wind/Hail
National Weather Service employees reported trees blown down and nickel size hail on highways 21 and 41.									
Pointe Coupee									
Lettsworth	30	1505CST			0	0	0.25K		Thunderstorm Wind
The Pointe Coupee Sheriff's Office reported a few trees down along Louisiana Highway 1.									
Iberville Parish									
Grosse Tete	30	1605CST			0	0	10K		Thunderstorm Wind
The Iberville Sheriff's Office reported a roof blown off a barn.									
Jefferson Parish									
Metairie	30	1915CST	0.2	25	0	0	0.50K		Tornado (F0)
A waterspout over Lake Pontchartrain moved onshore and caused minor roof damage to a residence near the lakefront before dissipating.									
LOUISIANA, Southwest									
St. Mary Parish									
Patterson	04	1240CST			0	0			Hail (0.75)
Beauregard Parish									
Dry Creek	09	1530CST			0	0			Hail (0.75)
Beauregard Parish									
Sugartown	09	1620CST			0	0			Hail (1.00)
Vernon Parish									
5 N Pitkin	09	1630CST			0	0			Hail (1.00)
Vernon Parish									
Leesville	09	1740CST			0	0			Hail (1.00)
Beauregard Parish									
Merryville	10	0753CST			0	0	20K		Thunderstorm Wind
Sheriff Office reported many trees and power lines blown down in western portions of the parish, primarily near Merryville.									
Calcasieu Parish									
5 N Starks	10	0753CST			0	0	10K		Thunderstorm Wind
Trees were blown down along Highway 108.									
Vernon Parish									
Burr Ferry	10	0755CST			0	0	10K		Thunderstorm Wind
Trees were blown down near the Texas stateline, but extended to Anacoco Lake, north of Leesville.									
Cameron Parish									
Cameron	10	0810CST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were downed across Cameron Parish.									
Allen Parish									
10 W Kinder	10	0825CST			0	0	50K		Thunderstorm Wind
One building and one home were damaged by winds and falling trees near Reeves.									
Beauregard Parish									
10 W De Ridder	10	0830CST			0	0	10K		Thunderstorm Wind
Trees were downed in the Junction community.									
Vernon Parish									
Leesville	10	0830CST			0	0	10K		Thunderstorm Wind
Trees were blown down along Highway 8.									
Rapides Parish									
Alexandria	10	0830CST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were reported downed across Rapides Parish. In Buckeye, one or two cars had windows broken from flying debris.									
Jefferson Davis									
Hathaway	10	0830CST			0	0	10K		Thunderstorm Wind
Several trees were blown on power lines near Hathaway.									
Calcasieu Parish									
12 N Sulphur	10	0840CST			0	0	10K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
LOUISIANA, Southwest									
Trees were blown down in DeQuincy.									
St. Landry Parish									
Opelousas	10	1040CST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were reported downed across St. Landry Parish. Other locations hit include Prairie Ronde and Port Barre.									
Avoyelles Parish									
Marksville	10	1050CST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were blown down across Avoyelles Parish, especially near Effie.									
Iberia Parish									
New Iberia	10	1120CST			0	0	10K		Thunderstorm Wind
Trees and power lines were blown down across Iberia Parish.									
St. Martin Parish									
St Martinville	10	1120CST			0	0	10K		Thunderstorm Wind
Trees were blown on power lines across St. Martin Parish.									
Calcasieu Parish									
Westlake	10	2230CST			0	0	5K		Thunderstorm Wind
Several large tree limbs were blown down and winds gusts of 60 mph reported by off-duty NWS employee.									
St. Mary Parish									
5 SW Louisa	11	0049CST			0	0	40K		Thunderstorm Wind
Reports of 80 mph winds capsized a boat and blew down many trees across St Mary Parish, including the Cyremort Point and Morgan City areas.									
Cameron Parish									
Grand Chenier	12	0315CST			0	0	10K		Thunderstorm Wind
Trees were blown down in Creole and Grand Chenier.									
St. Mary Parish									
Charenton	12	0529CST			0	0	10K		Thunderstorm Wind
Several trees were blown down in Charenton.									
St. Mary Parish									
5 SW Charenton	12	0530CST			0	0			Lightning
Lightning struck an oilfield tank farm, igniting a fire that consumed a tank holding a million gallons of used crude oil, as well as three smaller tanks holding 1,000 barrels of oil each. No injuries were reported.									
St. Mary Parish									
Franklin	27	1500CST			0	0	5K		Thunderstorm Wind
Trees were blown down across roads, causing minor damage to a passing vehicle.									
Vernon Parish									
Leesville	27	1644CST			0	0			Hail (1.00)
Calcasieu Parish									
5 W Moss Bluff	30	1420CST			0	0	5K		Thunderstorm Wind
Trees and power lines downed near Sam Houston Jones State Park.									
Beauregard Parish									
2 SE De Ridder	30	1435CST			0	0	5K		Thunderstorm Wind
Trees and power lines blown down.									
Iberia Parish									
New Iberia	30	1455CST			0	0			Hail (1.25)
Calcasieu Parish									
Vinton	30	1717CST			0	0			Hail (1.25)
Acadia Parish									
Rayne	30	1730CST			0	0	5K		Thunderstorm Wind
Trees and power lines were blown down.									
Beauregard Parish									
2 S Dry Creek	31	1615CST			0	0	5K		Thunderstorm Wind
Trees were blown down for the second time in an hour near Dry Creek.									
Calcasieu Parish									
14 N Sulphur	31	1625CST			0	0	5K		Thunderstorm Wind
Trees were blown down.									

Storm Data and Unusual Weather Phenomena

May 1999

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

LOUISIANA, Southwest

Acadia Parish

Church Pt	31	1700CST			0	0	25K		Thunderstorm Wind
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Trees were blown down on a house, destroying a porch and portions of a house.

Lafayette Parish

Lafayette	31	1726CST			0	0			Hail (1.75)
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Lafayette Parish

Lafayette	31	1745CST			0	0	5K		Thunderstorm Wind
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Local TV station reported 65 mph wind gusts, and several trees and power lines were blown down in the vicinity.

Lafayette Parish

Lafayette	31	1820CST 1845CST			0	0	50K		Flash Flood
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As much as five inches of rain fell in 40 minutes, resulting in 20 to 30 homes flooding on the southwest side of Lafayette.

Lafayette Parish

Carencro	31	1825CST 1845CST			0	0	25K		Flash Flood
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Several roads were closed due to high water. Doppler radar estimated as much as five inches of rain had fallen over Carencro.

Lafayette Parish

Lafayette	31	1830CST			0	0	10K		Thunderstorm Wind
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Trees were blown down.

MAINE, North

NONE REPORTED.

MAINE, South

Androscoggin

Livermore Falls	09	1600EST			0	0	1.3K		Lightning
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Lightning struck a slow-sand water filtration plant for the 6th time in 2 years

MARYLAND, Central

MDZ002>007- Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery -

01		0000EST			0	0			Drought
31		2359EST							

High pressure was the dominant weather feature across Maryland during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. The Maryland Department of the Environment issued a drought warning in December and it remained in effect through May. By the last week of the month the Palmer Drought Index, a measure of long term drought conditions, indicated North Central and Northeast Maryland were in a moderate drought, and South Central Maryland was in a severe drought. May was the 7th month in the past 12 months that precipitation was below normal. From June 1998 through May 1999 precipitation was a staggering 14 inches below average, the 2nd driest 12 months on record. Only 1.72 inches of rain fell at Baltimore/Washington International Airport in Anne Arundel County during the month of May, 2.00 inches below normal. The Maryland Science Center at Inner Harbour Baltimore reported a total of only 1.40 inches, and rain only fell on 6 days during the month. Andrews Air Force Base in Prince Georges County reported a monthly total of only 0.95 inches. Additional rainfall totals included Allegany County at 2.6 inches, Washington County at 1.5 inches, Frederick and Northern Prince Georges County at 1.8 inches, Carroll County at 2.2 inches, Northern Baltimore County at 1.7 inches, Howard and Southern Anne Arundel County at 1.3 inches, Montgomery County at 2.0 inches, Charles County at 0.9 inches, and St. Mary's County at 0.7 inches.

The lack of rainfall affected water levels along the Potomac River and the Chesapeake Bay. In the Potomac watershed where below normal water levels have been recorded for the past 9 months stream flow averaged around 38% of normal and several record low daily flows were recorded. The flow of water past the Washington D.C. gage was only 23% of the long term monthly average. The total water flow into the Chesapeake Bay which has been below average for the past 10 months was only 46% of average during May, an all time record low. The deficit of fresh water flowing into the Chesapeake resulted in an increase of salinity levels in the bay and had an impact on animal and plant life. Contents of the Baltimore reservoir system decreased to 85% of average by month's end. The University of Maryland Agricultural Facility in Upper Marlboro recorded a pan evaporation of 24.56 inches in May. Western Maryland ground water levels fell from above normal to below normal during the month, and remained below normal elsewhere. Carroll County banned outdoor water use by the end of the month in Eldersburg and Sykesville. A popular swimming beach at Greenbriar State Park near Hagerstown had to be closed for the summer after spring rains never came to fill up the 50 acre reservoir. Closing the beach for the summer led to \$120,000 in lost revenue.

The lack of precipitation also played havoc with spring planting and livestock maintenance. Corn stalks normally knee high were only 2 to 6 inches tall. Hay and pasture land wilted, soybean planting slowed or was halted, and watering holes and irrigation systems

Storm Data and Unusual Weather Phenomena

May 1999

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

MARYLAND, Central

slowly dried up. Tobacco, normally a drought-tolerant crop suffered in the fields after being recently transplanted. 34% of pasture land, 35% of corn, and 40% of soybeans across the state were reported in poor or very poor condition. 96% of topsoil was reported as short or very short of moisture by the end of the month.

Allegany County

Countywide	07	1820EST 2100EST			0	0	15K		Flash Flood
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Allegany County

Cumberland	07	1845EST			0	0	10K		Lightning
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A lightning strike started a house fire

Allegany County

Cumberland	07	1850EST			0	0			Hail (0.75)
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Allegany County

Cumberland	07	1850EST			0	0	20K		Thunderstorm Wind
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Trees downed on the west side of Cumberland

A thunderstorm producing very heavy rainfall, winds over 55 MPH, large hail, and frequent lightning moved across Allegany County between 7:30 and 8:30 PM EDT. A lightning strike started a house fire on Frederick Street in Cumberland at 7:45 PM EDT. One person was reported injured as a result of the fire. Lightning also struck the 1st Presbyterian Church, damaging electrical equipment. Dime sized hail fell in Cumberland at 7:50 PM EDT. County officials also reported wind gusts downed several trees on the west side of Cumberland around 7:50 PM EDT. Between 1.25 and 2.00 inches of rain fell across the county in less than one hour, causing water levels to rise rapidly. A co-op observer in Cumberland reported 1.15 inches of rain fell in only 10 minutes around 8:00 PM EDT. This deluge of water flooded basements and led to high water closures on several roads in Cumberland and across the county. Several cars were stuck in water at the Virginia Avenue underpass in Cumberland. Green Street and Henderson Avenue were also impassable after the storm. Several manhole covers were blown off by rapidly rising water in both Cumberland and Frostburg. Roads in the western end of the county required maintenance after mud and debris settled on road margins after being washed onto the roadway.

Montgomery

Countywide	24	1300EST			0	0	10K		Thunderstorm Wind
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Several trees and power lines downed

Baltimore City (C)

Countywide	24	1315EST			0	0	20K		Thunderstorm Wind
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Several trees and power lines downed

Howard County

Countywide	24	1315EST			0	0	10K		Thunderstorm Wind
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Several trees and power lines downed

Harford County

Countywide	24	1345EST			0	0	20K		Thunderstorm Wind
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Several trees and power lines downed

A line of thunderstorms moved across North Central Maryland during the early afternoon. These storms produced winds in excess of 55 MPH which felled hundreds of trees and knocked out power to 47,000 customers. The hardest hit counties were Montgomery, Howard, Harford and Southern Baltimore. One tree at the intersection of Holder and Echodale Avenue near Baltimore fell onto a minivan and totaled the vehicle. A second tree that fell onto Route 1 near Sandy Hook Road in Harford County nearly missed hitting a moving car. A third tree on Philadelphia Road in Aberdeen fell onto a truck and car. Heavy downpours that accompanied these storms led to minor flooding and lowered visibility, a contributing factor in two serious automobile accidents. One car on Interstate 495 near Greenbelt in Prince Georges County hydroplaned and overturned, killing the 19 year old driver. Another vehicle, an empty tractor trailer, lost traction on Interstate 95 near Halethorpe in Baltimore County and slid into a jersey barrier. The impact of the crash ruptured the gas tank and the vehicle caught on fire, seriously injuring the 50 year old driver.

MARYLAND, Northeast

MDZ008-012-015- Cecil - Kent - Queen Annes - Talbot - Caroline

01	0000EST				0	0	0		Drought
31	2359EST								

A drought warning remained in effect for the state of Maryland through the month of May. Rainfall totals during the month did not help and were well below normal, especially in southern areas of the Eastern Shore. On a county weighted average, monthly rainfall totals ranged from 0.6 inches in Talbot County (only .7 of an inch in Caroline County) to 2.7 inches in Cecil County. This was only around 15 percent of normal for Talbot and Caroline Counties, 23 percent of normal in Queen Anne's County, 45 percent of normal in Kent County and 66 percent of normal in Cecil County. Below normal rainfall affected the whole state. It was the 14th driest May in 105 years of record for the state of Maryland. Only 50 percent of normal rainfall fell. Streamflow decreased throughout the region and was below normal by the end of the month. Agricultural concerns were also feeling the affect of the dry weather. Herbicides failed because of the dry weather. Corn reportedly stopped growing. Some farmers along the Eastern Shore stopped planting soybeans. Moisture content of topsoil and subsoil levels were rated either very short or short on about 75 percent of all farms in the state.

Storm Data and Unusual Weather Phenomena

May 1999

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

MARYLAND, Northeast

Cecil County

Countywide 24 0751EST
0802EST 0 0 **Thunderstorm Wind (G50)**

A severe thunderstorm knocked down several trees across the county. Heavy rain was also reported.

Cecil County

Hack Pt 24 0755EST 0 0 40K 0 **Lightning**

Lightning struck a two story house in Hacks Point and ignited a fire. Before the fire was extinguished, it killed two dogs. A third dog was rescued. No other injuries occurred. Damage was estimated at \$40,000.

Kent County

Chestertown 24 1040EST 0 1 0 0 **Lightning**

Lightning struck and injured one person in Chestertown.

Cecil County

Perryville 24 1355EST 0 0 **Hail (1.75)**

Cecil County

Perryville to Fair Hill 24 1355EST
1410EST 0 0 **Thunderstorm Wind (G57)**

Cecil County

Elkton 24 1400EST 0 0 25K 0 **Lightning**

A severe thunderstorm produced large hail, damaging winds and frequent lightning across the northern half of Cecil County during the mid afternoon of the 24th. This was the second severe thunderstorm to affect the county this day. Hardest hit were Elkton and North East. In Elkton, a large tree demolished a mobile home. Other large trees were also snapped in the township. Large trees were knocked down in the Perryville town park and in Fair Hill. Fallen wires near a row of three homes off of Maryland State Route 213 in Elkton caused shorts and ignited a fire in one of the three homes. Damage was estimated at \$25,000. Large hail also fell. Half dollar to golf ball size hail fell in Perryville. Penny size hail fell in North East. No injuries were reported. Connectiv Energy reported 40,000 homes and businesses lost power in Delaware and Maryland. All but 150 customers had power restored in Cecil County by 5 p.m. EDT.

MARYLAND, South

Somerset County

Crisfield 24 1300EST 0 0 **Hail (0.75)**

MARYLAND, West

Garrett County

Keyzers Ridge 07 1755EST 0 0 **Hail (0.75)**

MASSACHUSETTS, Central and East

NONE REPORTED.

MASSACHUSETTS, West

Berkshire County

Pittsfield 25 1225EST
1230EST 0 0 12K **Thunderstorm Wind**

A line of thunderstorms, that developed over eastern New York, moved into southern Berkshire county shortly after noon on May 25. This line of storms continued to produce strong gusty winds that brought numerous large trees and power lines down throughout the city of Pittsfield.

MICHIGAN, East

MIZ048-053-061- Bay - Saginaw - Genesee - St. Clair - Livingston - Lenawee

06 1200EST
1600EST 0 0 92K **Wind**

Lapeer County

1.4 NW Clifford to 1.7 NW Clifford 06 1550EST
1551EST 0.3 65 0 0 **Tornado (F0)**

Tuscola County

6.1 SSW Kingston to 4.6 SSW Kingston 06 1552EST
1554EST 1.7 65 0 0 **Tornado (F0)**

Huron County

7 SSE Bad Axe 06 1630EST 0 0 6K **Thunderstorm Wind (G52)**

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>MICHIGAN, East</u>									
A strong low pressure system drifted east across the upper Mississippi Valley during the day. Strong south winds ahead of the low brought warm, moist, and somewhat unstable air into Michigan. These winds were at times enhanced by scattered showers in the area, as well as by a strong cold front that pushed across southeast Michigan late in the afternoon. Sustained winds of 20 to 30 mph were common, with occasional gusts in excess of 40 mph. The gusts were sufficient to down trees in Blissfield, Adrian, Howell, Flint, and Bay City. In St. Clair, a large truck unloading dirt was toppled. The worst damage occurred in the northeast side of the city of Saginaw, where a furniture store was deroofed.									
A band of showers and a few thunderstorms developed ahead of the cold front. One of these storms briefly produced a tornado that crossed from Lapeer into Tuscola County. The tornado moved across open farmland, and did no damage other than throwing some dirt around. However, the tornado was observed by numerous eyewitnesses.									
This thunderstorm continued northeast into Huron County, where it downed trees and power lines in the community of Ubyly.									
Midland County									
Poseyville	17	1500EST			0	0			Hail (0.75)
Bay County									
Kawkawlin	17	1510EST			0	0			Hail (0.75)
Huron County									
Port Hope	17	1520EST			0	0			Hail (1.75)
Huron County									
Port Austin	17	1605EST			0	0			Hail (0.75)
Shiawassee									
Owosso	17	1650EST 1653EST			0	0	10K		Thunderstorm Wind (G61)
Saginaw County									
3 NW Oakley	17	1700EST			0	0	5K		Thunderstorm Wind (G52)
Saginaw County									
3 S Saginaw	17	1722EST			0	0	3K		Thunderstorm Wind (G52)
Washtenaw									
2 S Dexter to 1 W Ann Arbor	17	1750EST 1756EST			0	0	5K		Thunderstorm Wind (G52)
Tuscola County									
Caro	17	1800EST			0	0	2K		Thunderstorm Wind (G50)
Oakland County									
2 NE South Lyon to Novi	17	1805EST 1815EST			0	0	5K		Thunderstorm Wind (G50)
Washtenaw									
Saline to 2 SE Saline	17	1805EST 1806EST			0	0			Hail (1.00)
Sanilac County									
Marlette	17	1810EST			0	0	10K		Thunderstorm Wind (G55)
Genesee County									
Swartz Creek	17	1813EST			0	0			Thunderstorm Wind (G52)
Wayne County									
Northville	17	1815EST			0	0	2K		Thunderstorm Wind (G50)
Oakland County									
Ortonville	17	1822EST			0	0	20K		Thunderstorm Wind (G60)
Oakland County									
Farmington to Southfield	17	1825EST 1838EST			0	0	5K		Thunderstorm Wind (G50)
Sanilac County									
Sandusky to 3 S Sandusky	17	1830EST			0	0	25K		Thunderstorm Wind (G55)
Lapeer County									
Metamora	17	1835EST			0	0	3K		Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MICHIGAN, East									
Oakland County									
Troy	17	1840EST			0	0	3K		Lightning
A lightning strike ignited a house fire in an attic.									
Sanilac County									
Deckerville to 7 E Deckerville	17	1840EST			0	0	50K		Thunderstorm Wind (G78)
Lapeer County									
Attica to 6 N Imlay City	17	1845EST 1851EST			0	0	8K		Thunderstorm Wind (G52)
Sanilac County									
Melvin	17	1904EST			0	0	3K		Thunderstorm Wind (G52)
Macomb County									
Washington	17	1915EST			0	0	3K		Thunderstorm Wind (G52)
Sanilac County									
Deckerville	17	1915EST			0	0	5K		Thunderstorm Wind (G52)
Monroe County									
3 W Luna Pier to 2 NE Luna Pier	17	1935EST 1937EST			0	0	3K		Thunderstorm Wind (G52)
Washtenaw									
Whitmore Lake	17	2005EST			0	0			Hail (0.88)
Oakland County									
South Lyon	17	2025EST			0	0			Hail (0.75)

An unusually warm day for mid-May in southeast Michigan, with temperatures near 90 degrees in many locations. The heat and humidity made the atmosphere very unstable, and allowed thunderstorms to develop in the afternoon. Several of the storms became severe during the late afternoon and evening hours.

The first few severe storms of the day were in the Saginaw Bay area, and produced large hail. The largest hail (golfball sized) fell in Port Hope.

As thunderstorm activity gradually migrated south, large hail reports became less frequent. The largest hail in the southern part of the area was quarter sized near Saline. However, these southern storms produced stronger wind gusts. The highest measured wind gusts were 54 mph at the University of Michigan in Ann Arbor, and 51 mph at the airport in Owosso. However, winds were estimated much higher in some locations. The highest estimated gusts were near 90 mph just east of Deckerville.

The most common effect of the severe wind gusts was to down trees and power lines. Power lines were downed across Interstate 94 near Dexter, closing the freeway for a short while. A few agricultural outbuildings were destroyed just northwest of Oakley, just south of Sandusky, and east of Deckerville. Windows were blown out of a Marlette home, while a home in Northville lost a number of shingles. In Ortonville, the roof was torn off a dugout at a ball field, and a home had a falling tree go through its roof. A tree was felled onto a Sandusky home, heavily damaging a porch; just south of town, a mobile home was shifted off its foundation. East of Deckerville near Lake Huron, a travel trailer was moved by the wind.

Lenawee County

1.5 SW Rome Center to 3.4 NE Rome Center	23	1450EST 1500EST	4.9	35	0	0	15K		Tornado (F1)
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Lapeer County

2.7 NNE Imlay City to 6.5 NNE Imlay City	23	1751EST 1758EST	3.9	17	0	0	45K		Tornado (F1)
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A low pressure system moved northeast across northern lower Michigan late in the day. An associated cold front moved across southeast Michigan in the evening. Numerous showers developed ahead of the cold front in lower Michigan. Even though there was little, if any, thunder, these showers managed to produce two tornadoes in southeast Michigan.

In Lenawee County, a tornado moved northeast across Rome Township. This tornado produced F0 damage along most of its path, but briefly reached F1 intensity about 2 miles northeast of Rome Center. At this point, the tornado destroyed a large metal shed, blowing debris up to a quarter mile away. The tornado also damaged an antique gas pump at the same site. Along the rest of its path, the tornado snapped off a number of trees, and damaged siding and rain gutters to a farmhouse. Just before it lifted, the tornado shifted a barn off its foundation, and partially deroofed two barns.

As an historical note, the path of this tornado coincided almost exactly with a segment of the paths of the Palm Sunday tornadoes of

Storm Data and Unusual Weather Phenomena

May 1999

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

MICHIGAN, East

April 11 1965 - which were the strongest tornadoes in Lenawee County since 1950. In fact, local property owners commented that the structures that were damaged by the 1999 tornado were also damaged (much more heavily) back in 1965!

The second tornado of the day affected Imlay and Goodland Townships in eastern Lapeer County. Just after touchdown, the tornado moved a two story home along Bowers Road off its foundation, resulting in serious structural damage. A barn across the street was partially deroofed, and portions of the walls collapsed. A livestock trailer and a dog pen were also moved, and a large tree was downed nearby.

Damage was comparatively slight in the middle portion of the track. Just before it lifted, however, the tornado struck another home, this one along Shaw Road. This two-year-old home was largely deroofed, with pieces of the roof found a quarter mile away. Several windows were blown out, and substantial tree damage occurred on the property.

The damage near the beginning and the end of the track are both consistent with an F1 tornado.

Midland County

**2.5 N Midland to
4.1 NNE Midland**

31	1738EST 1741EST	1.8	200	0	0	150K	Tornado (F2)
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Warm, moist air blanketed lower Michigan, as a low pressure system moved slowly north along a nearly stationary cold front in Wisconsin. A number of showers and thunderstorms developed in the warm sector. There was only one severe weather event, but that unfortunately was a strong tornado that hit the north side of the city of Midland.

Touchdown occurred at an apartment complex on the west side of Eastman Avenue (which is the US-10 business loop into downtown Midland). Power lines and trees were downed on both sides of Eastman Avenue, although little damage was done to structures. The tornado strengthened as it moved northeast across Woodpark Drive, uprooting trees, blowing out windows, and removing rain gutters and siding. Some trees were downed onto nearby homes.

The tornado reached its maximum intensity as it crossed Wackerly Road. It struck a Holiday Inn Convention Center, located between Wackerly Road and the US-10 freeway. The roof of the convention center was blown off, with some debris blown across the freeway. An air conditioner from the roof was tossed onto a nearby parked car. Several doors to the convention center were blown out. A trash can from the hotel area was blown onto US-10, where it struck a car.

The tornado weakened as it crossed the US-10 freeway. It moved through the parking lot of a Target store, at the southeast corner of Midland Mall. An outdoor shopping cart holder was thrown into a nearby field, and several trees were destroyed. As the tornado continued northeast, it downed a pair of large trees midway between a nursery and a WalMart.

Toward the end of its path, the tornado struck a church on Jefferson Avenue, just south of Letts Road. Large limbs were downed here, and siding was torn off some of the church buildings. A youth center under construction was partially deroofed.

This tornado tied for the strongest to strike Midland County since 1950. The only previous F2 tornado occurred on April 14 1974. The May 31 1999 tornado was the first tornado of any strength to hit Midland County since June 17 1992.

MICHIGAN, Extreme Southwest

Branch County

Coldwater Lake

05	2129EST			0	0		Hail (0.88)
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A warm front extending from Dubuque Iowa to Columbus Ohio became the focus for scattered...strong convection by early evening. 00Z raobs from Lincoln Illinois and Wilmington Ohio revealed marginal instability and wind shear. Storms quickly developed by early evening with pea to marble size hail reported with several of the storms. Additional storms developed over southwestern Allen county, Indiana where a storm split was observed. The left moving storm began to accelerate to the north and exhibited supercell characteristics. This storm was responsible for all of the severe hail reports that evening as it moved from Allen county, Indiana northward to Hillsdale county, Michigan, where it finally dissipated.

Cass County

5 NW Dowagiac

06	1140EST			0	0	15K	Thunderstorm Wind
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Several trees and power lines were blown down.

Berrien County

5 N Berrien Center

06	1200EST			0	0	20K	Thunderstorm Wind
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Several trees were blown down and one barn was damaged.

Cass County

5 E Edwardsburg

17	1425EST			0	0	5K	Thunderstorm Wind
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Power lines reported down.

Berrien County

Countywide

17	1504EST			0	0	5K	Thunderstorm Wind
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Trees reported blown down.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
<u>MICHIGAN, Extreme Southwest</u>										
St. Joseph County										
Mendon	17	1525EST			0	0	1K		Thunderstorm Wind	
Two to 2 1/2 foot diameter trees uprooted.										
Branch County										
Coldwater	17	1615EST			0	0	10K		Thunderstorm Wind	
Utility poles and trees down in Coldwater.										
St. Joseph County										
Mendon	17	1625EST			0	0	2K		Thunderstorm Wind	
Trees reported blown down in Mendon.										
Branch County										
5 N Coldwater	17	1642EST			0	0	2K		Thunderstorm Wind	
Trees reported blown down.										
Hillsdale County										
Litchfield	17	1650EST			0	0	3K		Thunderstorm Wind	
Trees reported blown down.										
Hillsdale County										
3 NW Pittsford	17	1655EST			0	0	4K		Thunderstorm Wind	
Power lines and two trees blown down between Osseo and Pittsford.										
A moist low-level atmosphere and an upper-level trough over the western Great Lakes combined to produce very unstable conditions across the region. Convection formed along a lake breeze boundary southeast of Lake Michigan. With the numerous outflow boundaries from earlier convection the thunderstorms continued to move east throughout the evening.										
<u>MICHIGAN, North</u>										
Roscommon										
10 SW St Helen	06	1520EST			0	0			Thunderstorm Wind (G50)	
Large trees and large limbs down. Numerous storms passed through the area with one storm producing a localized gust of 50 knots.										
<u>MICHIGAN, Upper</u>										
Marquette County										
Republic to Champion	02 07	1400EST 1200EST			0	4	960K	1M	Wild/Forest Fire	
Marquette County										
Gwinn	02	1600EST 2000EST			0	0			Wild/Forest Fire	
Marquette County										
Little Lake	03	1000EST 1400EST			0	0			Wild/Forest Fire	
Marquette County										
Ishpeming	03	1200EST 1600EST			0	0			Wild/Forest Fire	
Hot, dry and windy weather, along with abundant dry fuel left over from winter set the stage and careless campers and an unattended campfire added the spark to start a major wildfire in Michigan's Upper Peninsula. The Tower Lake Fire consumed 5,625 acres before it was extinguished. Firefighters and equipment from Montana, Missouri, Minnesota, Wisconsin and Ontario Canada assisted local fire crews in fighting the blaze. 450 people were evacuated from their homes for the more than four days it took to fight the fire. Four firefighters suffered minor injuries and 15 structures were damaged or destroyed. Ten bridges burned and about a million dollars worth of timber went up in smoke. Costs for fighting the blaze exceed one million dollars. Three much smaller forest fires occurred during the same period the Tower Lake Fire was burning. The fire near Gwinn consumed 46 acres with minor damage to a campground at Anderson Lake. The Ishpeming Fire did some minor damage at a golf course and burned 26 acres, and a fire at Little Lake, set by vandals, scorched another 19 acres.										
Schoolcraft										
Creighton	29	0315EST			0	0			Hail (1.00)	
i inch hail at Worchester Lake										
<u>MICHIGAN, West</u>										
Ottawa County										
Zeeland	16	1800EST			0	0	10K		Thunderstorm Wind	
Trees were downed by strong winds in Zeeland.										
Ottawa County										
Allendale	16	2155EST			0	0			Thunderstorm Wind (G60)	
A 70 mile per hour wind gust was reported in Allendale.										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MICHIGAN, West									
Ottawa County									
Holland	16	2200EST			0	0	20K		Thunderstorm Wind
	Strong winds downed numerous trees and power lines in Holland.								
Allegan County									
Burnips	16	2230EST			0	0	10K		Thunderstorm Wind
	Strong winds downed power lines over a house... resulting in a small fire.								
Kent County									
Grandville	16	2245EST			0	0			Thunderstorm Wind (G56)
	A 65 mile per hour wind gust was recorded in Grandville. A few scattered thunderstorms developed during the evening hours as a result of interaction between lake breeze convergence, and interaction with a warm front. Late in the evening, a line of severe thunderstorms crossed Lake Michigan and produced wind gusts up to 60 to 70 mph across Ottawa County. There were several reports of downed trees and power lines across Allegan and Ottawa counties, and several homes were struck by lightning as well.								
Kent County									
Ada	17	1345EST			0	0			Hail (0.88)
	0.88" diameter hail was observed in Ada.								
Kalamazoo									
Countywide	17	1510EST 1527EST			0	0	50K		Thunderstorm Wind (G52)
	Numerous trees were downed by strong winds across Kalamazoo. A 60 mile per hour wind gust was recorded in Cooper Township in northwest Kalamazoo County.								
Calhoun County									
Countywide	17	1522EST			0	0	100K		Thunderstorm Wind (G100)
	Numerous trees and power lines were downed across the county by strong winds. A 115 mile per hour wind gust was recorded in northwest Newton. Numerous trees were also blown down in Homer, Marshall, and Albion, in some cases causing damage to homes.								
Allegan County									
Allegan	17	1530EST			0	0	50K		Thunderstorm Wind (G52)
	A 60 mile per hour wind gust was recorded in Allegan. Numerous trees were downed including at least one that fell on a home in Allegan, causing roof damage.								
Barry County									
Countywide	17	1530EST 1540EST			0	0	50K		Thunderstorm Wind
	Many trees and power lines were downed by strong winds across Barry County.								
Ottawa County									
Countywide	17	1546EST			0	0	50K		Thunderstorm Wind
	Wind gusts downed numerous trees and power lines. A metal roof was blown off a home in Hudsonville.								
Kent County									
Wyoming	17	1550EST 1600EST			1	1	50K		Thunderstorm Wind (G61)
	Gusty thunderstorm winds flattened a house under construction in Wyoming in Kent County, causing one fatality and injuring another person. A 70 mile per hour wind gust was recorded in Grandville. Numerous trees were downed across the county. A 75 mile per hour wind gust was recorded in Grand Rapids. M21OT								
Eaton County									
Countywide	17	1600EST			0	0	50K		Thunderstorm Wind
	Numerous trees and power lines were downed across the county. A small plane at the Fitch Beach Airport in Charlotte was flipped over by strong winds.								
Ionia County									
Saranac	17	1600EST			0	0	50K		Thunderstorm Wind
	Gusty thunderstorm winds tore the roof off a barn just southwest of Saranac.								
Jackson County									
Parma	17	1600EST			0	0	50K		Hail (0.75)
	0.75" hail was reported in Parma. Numerous trees and power lines were also brought down in the Napoleon and Clark Lake areas.								
Ingham County									
Lansing	17	1620EST 1625EST			0	0	100K		Thunderstorm Wind (G62)
	Wind damage included numerous trees and power lines that were downed. A 70 mile per hour wind gust was recorded in East St. Johns. 0.75" hail was observed in Lansing.								

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>MICHIGAN, West</u>									
Kent County									
Rockford	17	1620EST			0	0	50K		Thunderstorm Wind
Wind damage was reported to a barn and residence. A roof was blown off a golf club house. Numerous trees and power lines were also downed.									
Montcalm County									
Lakeview	17	1620EST			0	0	50K		Thunderstorm Wind
Thunderstorm winds blew down trees and power lines in Lakeview.									
Clinton County									
De Witt	17	1630EST			0	0	50K		Thunderstorm Wind
Two to three foot diameter trees were downed by strong winds at the intersection of I-69 and US-127.									
Isabella County									
Countywide	17	1640EST			0	0	50K		Thunderstorm Wind
Power lines and a few branches were knocked down by thunderstorm wind gusts.									
Grafiot County									
Countywide	17	1645EST			0	0	50K		Thunderstorm Wind
Several trees and limbs were downed.									
Clare County									
Harrison	17	1720EST			0	0	50K		Thunderstorm Wind (G52)
Large trees and some power lines were downed by gusty winds in Harrison. A large severe weather outbreak occurred across southern lower Michigan, featuring numerous reports of wind gusts of 60 to 70 miles per hour that downed numerous trees and power lines. A wind gust caused a home under construction to collapse in Wyoming in Kent County, causing one fatality and injuring another. There was a recorded wind gust to 115 miles per hour in Calhoun County. There were also a few reports of hail 0.75" - 1.00" in diameter. A rotating wall cloud was reported in northern Kalamazoo County, but there were no tornado touchdowns.									
All of this activity developed quickly during the afternoon hours, as the atmosphere rapidly destabilized. A squall line developed along the Michigan and Indiana border during the mid afternoon hours, and moved quickly to the north northeast.									
Ionia County									
Pewamo	23	1400EST			0	0	10K		Thunderstorm Wind
Strong thunderstorm wind gusts ripped the siding off a house in Pewamo.									
<u>MINNESOTA, Central and South Central</u>									
Yellow Medicine									
Granite Falls	04	0305CST			0	0			Hail (0.75)
Yellow Medicine									
Porter	05	1533CST			0	0			Funnel Cloud
Kanabec County									
.5 E Brunswick	06	1436CST			0	1			Thunderstorm Wind (G60)
Mobile home blown over. One person injured.									
Kanabec County									
4 SW Grasston	06	1440CST			0	0			Thunderstorm Wind (G60)
Downburst winds associated with heavy showers/thunderstorms destroyed mobile home and one shed. Other sheds also damaged.									
Faribault County									
3 SW Walters	10	1510CST			0	0			Thunderstorm Wind (G50)
Roof torn off shed. Estimated wind speed.									
Hennepin County									
Golden Vly	10	1729CST			0	0			Thunderstorm Wind (G56)
Trees Down. Wind speed estimated.									
Hennepin County									
Crystal	10	1731CST			0	0			Thunderstorm Wind (G58)
Numerous Large Trees felled. Auto and Home damaged. Fifteen thousand residents were left without power for several hours.									
Hennepin County									
Brooklyn Park	10	1735CST			0	0			Thunderstorm Wind (G56)
Trees Down. Wind Speed Estimated.									

Storm Data and Unusual Weather Phenomena

May 1999

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, Central and South Central</u>									
Hennepin County									
2 W Maple Plain	10	1836CST			0	0			Funnel Cloud
Sherburne County									
2 N Zimmerman	10	1957CST			0	0			Funnel Cloud
Watonwan County									
4 W Madelia	16	1525CST			0	0			Hail (1.00)
Le Sueur County									
3 SW Cleveland	16	1610CST			0	0			Hail (0.75)
Martin County									
4 SE Dunnell	16	1630CST			0	0			Hail (0.88)
Watonwan County									
1 S St James	16	1635CST			0	0			Hail (0.88)
Watonwan County									
4 E St James	16	1645CST			0	0			Hail (0.75)
<u>MINNESOTA, Northeast</u>									
Itasca County									
Countywide	10	1050CST			0	0			Thunderstorm Wind (G55)
Wind damage was reported throughout Itasca county. Numerous large trees were blown down. Powerlines were also blown down, leaving many areas without power. The strong winds raised 5-foot waves on Swan Lake which caused damage to boats and docks. The wind speed is estimated.									
St. Louis County									
(Hib)Hibbing Arprt	10	1052CST			0	0			Thunderstorm Wind (G52)
St. Louis County									
Central Portion	10	1055CST			0	0			Thunderstorm Wind (G60)
Wind damage was reported throughout central St. Louis county, with numerous large trees and powerlines down. Roof damage was also reported. Wind speed is estimated from newspaper accounts.									
St. Louis County									
20 NW Crane Lake	20	1630CST			0	0			Hail (0.75)
<u>MINNESOTA, Northwest</u>									
Otter Tail County									
Fergus Falls	09	1945CST			0	0			Lightning
Lightning ignited a fire that destroyed a garage and damaged a home near Fergus Falls.									
Otter Tail County									
Butler	10	0300CST			0	0	500K		Lightning
A church was destroyed after lightning ignited a fire in the roof.									
Wilkin County									
Breckenridge	30	1400CST			0	0			Hail (0.75)
<u>MINNESOTA, Southeast</u>									
Winona County									
Rollingstone	16	1633CST			0	0			Hail (0.75)
Olmsted County									
Rochester	16	1704CST			0	0			Hail (1.00)
Olmsted County									
Eyota	16	1725CST			0	0			Hail (0.75)
Hail the size of dimes and quarters was reported by law enforcement officials and spotters.									
Olmsted County									
Rochester	16	1930CST			0	0	25K		Lightning
Lightning struck a home in Rochester, blowing a hole in the wall of the kitchen as well as blasting the bark off a tree in the backyard. In addition, the lightning also set off an explosion in a nearby sewer, which damaged three homes and caused a gasoline leak. Several neighborhoods were evacuated.									

Storm Data and Unusual Weather Phenomena

May 1999

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, Southwest</u>									
Jackson County									
Jackson to 3 N Jackson	16	1615CST 1620CST			0	0			Hail (1.75)
<u>MINNESOTA, West</u>									
NONE REPORTED.									
<u>MINNESOTA, West Central</u>									
Traverse County									
Browns Vly	09	1805CST			0	0			Hail (0.88)
Traverse County									
Wheaton	09	1855CST			0	0			Hail (0.75)
Traverse County									
Wheaton	30	1454CST			0	0			Hail (0.75)
<u>MISSISSIPPI, Central</u>									
Hinds County									
Jackson	04	0830CST			0	0			Hail (0.75)
Hinds County									
Jackson	04	0846CST			0	0			Hail (0.75)
Hinds County									
Jackson	04	0850CST			0	0			Hail (0.75)
Rankin County									
Pearl	04	0850CST			0	0			Hail (0.75)
Madison County									
Madison	04	0915CST			0	0			Hail (0.75)
Attala County									
Mc Adams	04	1000CST			0	0			Hail (0.75)
Clarke County									
Quitman	04	1015CST			0	0			Hail (0.88)
Lauderdale									
Meridian	04	1045CST			0	0			Hail (0.88)
Neshoba County									
Laurelhill	04	1100CST			0	0			Hail (0.75)
Lauderdale									
Bailey	04	1105CST			0	0			Hail (0.75)
Neshoba County									
Philadelphia	04	1107CST			0	0			Hail (0.75)
Lauderdale									
Ponta	04	1111CST			0	0			Hail (0.75)
Marion County									
6 N Columbia	04	1545CST 2200CST			0	0			Hail (0.88)
Sunflower County									
Countywide	05	1546CST			0	0			Hail (0.75)
Washington									
Wayside	05	1650CST			0	0			Hail (1.00)
Sunflower County									
Indianola	05	1652CST			0	0			Hail (0.75)
Bolivar County									
Cleveland	05	1705CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Bolivar County									
Pace	05	1715CST			0	0	2K		Thunderstorm Wind
		Several trees were blown down.							
Washington									
3 W Leland	05	1720CST			0	0			Hail (0.75)
Washington									
Leland	05	1720CST			0	0			Hail (0.88)
Issaquena County									
Mayersville	05	1728CST			0	0			Hail (0.88)
Issaquena County									
Mayersville	05	1728CST			0	0	10K		Thunderstorm Wind
		Several power poles were snapped in half.							
Leflore County									
Countywide	05	1730CST			0	0			Hail (0.75)
Sharkey County									
Anguilla	05	1739CST			0	0			Hail (0.75)
Sunflower County									
Countywide	05	1745CST			0	0			Hail (0.75)
Washington									
Hollandale	05	1745CST			0	0	20K		Thunderstorm Wind
		A house received major damage.							
Washington									
Hollandale	05	1754CST			0	0	25K		Thunderstorm Wind
		Several homes received roof damage.							
Yazoo County									
3 N Yazoo City	05	1800CST	1	40	0	0			Tornado (F0)
		This weak tornado moved across an open field and no damage was reported.							
Humphreys									
2 S Belzoni	05	1820CST	1	40	0	0	2K		Tornado (F0)
		This weak tornado blew down several trees along highway 49.							
Leflore County									
5 S Greenwood	05	1820CST 1920CST	1	50	0	0	10K		Tornado (F1)
		This short-lived weak tornado blew a couple of mobile homes over.							
Holmes County									
5 NE Durant	05	1830CST			0	0	2K		Thunderstorm Wind
		Several trees were blown down.							
Carroll County									
Black Hawk	05	1845CST			0	0	1K		Thunderstorm Wind
		Several trees were blown down.							
Montgomery									
4 W Duck Hill to 4 E Duck Hill	05	1850CST 1858CST			0	0	200K		Thunderstorm Wind
		Straight line winds caused widespread tree damage in an area three quarter miles wide and eight miles long. Several homes received damage and a couple of barns were destroyed.							
Carroll County									
Vaiden	05	1900CST			0	0			Hail (1.00)
Montgomery									
Winona	05	1902CST			0	0			Hail (1.00)
Grenada County									
Grenada	05	1904CST			0	0	20K		Thunderstorm Wind
		Trees and power lines were blown down and roofing was torn off of a commercial building.							
Humphreys									
2 N Belzoni	05	1915CST			0	0	20K		Thunderstorm Wind
		Numerous power poles were blown down along highway 49 and two commercial buildings received minor damage.							

Storm Data and Unusual Weather Phenomena

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Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Humphreys									
Belzoni Muni Arpt	05	1915CST			0	0	15K		Thunderstorm Wind
		A couple of planes were overturned and a hangar received minor damage.							
Carroll County									
3 E Carrollton	05	1920CST			0	0	1K		Thunderstorm Wind
		Several trees were blown down.							
Attala County									
7 N Kosciusko	05	1923CST			0	0	15K		Thunderstorm Wind
		Several trees were blown down onto a mobile home.							
Sunflower County									
8 NW Boyer	05	1925CST			0	0	5K		Thunderstorm Wind
		Minor roof damage occurred.							
Holmes County									
Cruger	05	1930CST			0	0	60K		Thunderstorm Wind
		Two homes were destroyed and several trees were blown down.							
Webster County									
Tomnolen	05	1945CST	1	40	0	0			Tornado (F0)
		This weak tornado crossed an open field and no damage was reported.							
Holmes County									
Countywide	05	1950CST 2150CST			0	0	20K		Flash Flood
		Torrential rain flooded numerous roads and a few homes.							
Humphreys									
Countywide	05	1950CST 2150CST			0	0	25K		Flash Flood
		Torrential rain flooded numerous roads and a few homes.							
Montgomery									
Countywide	05	1950CST 2150CST			0	0	20K		Flash Flood
		Torrential rain flooded numerous roads and a few homes.							
Clay County									
Countywide	05	2000CST			0	0			Hail (0.75)
Yazoo County									
5 W Yazoo City	05	2043CST			0	0	25K		Hail (1.75)
		Golfball size hail knocked the windows out of a police car and produced minor damage to other vehicles and homes.							
Yazoo County									
5 W Yazoo City	05	2046CST			0	0	2K		Thunderstorm Wind
		Several trees were blown down.							
Hinds County									
Terry	05	2330CST			0	0			Hail (0.75)
Simpson County									
Magee	12	1420CST			0	0			Hail (0.75)
Simpson County									
Braxton	12	1445CST			0	0	30K		Hail (1.75)
		Golfball size hail caused damage to several homes and vehicles.							
Smith County									
5 S Mize	12	1500CST			0	0			Hail (0.88)
Scott County									
Lake	12	1550CST			0	0			Hail (0.88)
Leake County									
5 N Walnut Grove	12	1640CST			0	0			Hail (1.00)
Newton County									
Little Rock	12	1700CST			0	0	2K		Thunderstorm Wind
		Several trees were blown down.							
Lauderdale									
Collinsville	12	1705CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Leflore County									
Sidon	12	1800CST			0	0			Hail (0.75)
Warren County									
5 S Vicksburg	17	2315CST			0	0	10K		Thunderstorm Wind
Several trees and power lines were blown down.									
Warren County									
Vicksburg	22	1155CST			0	0			Hail (1.00)
Jasper County									
Louin	22	1320CST			0	0			Hail (0.75)
Rankin County									
Florence	22	1320CST			0	0			Hail (0.75)
Claiborne County									
Alcorn	22	1330CST			0	0			Hail (0.75)
Holmes County									
Pickens	22	1710CST			0	2	80K		Thunderstorm Wind
A tree fell down onto a mobile home and injured two persons. Numerous power lines were blown down.									
Forrest County									
Hattiesburg	23	1120CST			0	0			Hail (0.88)
Forrest County									
Hattiesburg	23	1120CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Warren County									
Vicksburg	23	1700CST			0	0	30K		Thunderstorm Wind
The roof of a furniture store was partially peeled off. Several trees were blown down.									
Warren County									
Vicksburg	23	1700CST			0	0			Thunderstorm Wind (G52)
Warren County									
Countywide	23	1715CST			0	0	5K		Thunderstorm Wind
Several trees were blown down throughout the county.									
Hinds County									
Utica	23	1735CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Hinds County									
Edwards	23	1810CST			0	0	3K		Thunderstorm Wind
Several trees were blown down.									
Rankin County									
Brandon	23	1820CST			0	0			Thunderstorm Wind (G52)
Rankin County									
3 SE Florence	23	1835CST			0	0	2K		Thunderstorm Wind
A few trees were blown down across Highway 49.									
Simpson County									
Countywide	23	1859CST			0	0	10K		Thunderstorm Wind
Trees were blown down throughout the county.									
Smith County									
Mize	23	1943CST			0	0	10K		Thunderstorm Wind
Several trees and power lines were blown down.									
Jasper County									
Heidelberg	23	2000CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Lamar County									
Countywide	23	2030CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Lincoln County									
Auburn	23	2046CST			0	0	1K		Thunderstorm Wind
A few trees were blown down.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Clarke County									
8 NE Quitman	26	1215CST			0	0			Hail (1.00)
MISSISSIPPI, North									
De Soto County									
Walls	04	1210CST 1215CST			0	0	0.75K		Hail (1.75)
Yalobusha County									
Coffeeville	05	0920CST 0925CST			0	0	0.01K		Hail (0.75)
Tate County									
Cottonville	05	1700CST 1705CST			0	0	50K		Thunderstorm Wind
A well shed was destroyed. Several cattle were killed when a barn roof collapsed. A couple of homes were damaged. Several trees and power lines were knocked down.									
De Soto County									
South Haven to Olive Branch	05	1710CST 1720CST			0	0	25K		Thunderstorm Wind
Three apartment buildings had roof damage near Olive Branch. Several trees , power lines and power poles were knocked down over much of the county.									
Panola County									
Sardis to 5 S Batesville	05	1715CST 1720CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Tallahatchie									
Countywide	05	1715CST 1730CST			0	0	15K		Thunderstorm Wind
Numerous trees were knocked down across the county. Some of the trees fell on cars.									
Lafayette County									
Oxford	05	1810CST 1815CST			0	0	0.75K		Hail (1.75)
Union County									
Myrtle	05	1820CST 1830CST			0	0	15K		Thunderstorm Wind
A barn lost part of its roof. Several trees and power lines were knocked down.									
Union County									
New Albany	05	1820CST 1830CST			0	0	1.5K		Hail (1.75)
Pontotoc County									
Pontotoc	05	1830CST 1835CST			0	0	5K		Thunderstorm Wind
Several trees were knocked down. One tree landed on a house.									
Tippah County									
Ripley	05	1830CST 1835CST			0	0	0.75K		Hail (1.75)
Lafayette County									
1 S Oxford	05	1835CST 1840CST			0	0	10K		Thunderstorm Wind (G63)
Several trees and power lines were knocked down.									
Tippah County									
Chalybeate to Falkner	05	1840CST 1850CST			0	2	75K		Thunderstorm Wind
Two mobile homes were destroyed and several other homes were damaged in Chalybeate. A church steeple was blown off in Falkner. Numerous trees were blown down as well.									
Alcorn County									
Corinth	05	1845CST			0	1	0		Lightning
One man was injured when he was struck by lightning.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Alcorn County									
Wenasoga	05	1845CST 1855CST			0	0	25K		Thunderstorm Wind
A shop was destroyed. Numerous trees and power lines were blown down.									
Alcorn County									
Corinth	05	1900CST 2200CST			0	0	1K		Urban/Sml Stream Fld
Several roads in the Corinth area were flooded.									
Lee County									
Bethany	05	1905CST 1910CST			0	0	5K		Thunderstorm Wind
A few trees were blown down.									
Lee County									
Baldwyn	05	1945CST 1950CST			0	0	1K		Urban/Sml Stream Fld
A couple of highways were covered with water.									
Panola County									
Batesville	21	1235CST 1240CST			0	0	0.75K		Hail (1.75)
Itawamba County									
Fulton	21	1415CST 1420CST			0	0	15K		Thunderstorm Wind
One home was damaged when a large oak tree landed on the roof. Other trees and power lines were also knocked down.									
Lee County									
Central Portion	21	1515CST 1520CST			0	0	0.01K		Hail (0.75)
Dime size hail fell st the Tombigbee State Park.									
<u>MISSISSIPPI, South</u>									
Jackson County									
Ocean Spgs	28	1510CST			0	0			Hail (0.88)
Nickel size hail was reported from the public on Interstate 10 near Ocean Springs.									
Pearl River									
Savannan	30	1109CST	0.5	30	0	0	0		Tornado (F0)
A tornado was observed by fire department personnel touching down in open country near the community of Savannah. No damage was reported.									
<u>MISSISSIPPI, Southeast</u>									
NONE REPORTED.									
<u>MISSOURI, East</u>									
Callaway County									
Countywide	04	1700CST 2200CST			0	0			Urban/Sml Stream Fld
Cole County									
Countywide	04	1700CST 2200CST			0	0			Urban/Sml Stream Fld
Montgomery									
Countywide	04	1700CST 2200CST			0	0			Urban/Sml Stream Fld
At least 2 inches of rain caused some street and road flooding across the area. In Jefferson City several streets were temporarily impassable due to the depth of the water. Interstate 70 at Kingdom City in northern Callaway County had to be shut down for a short time due to high water.									
Reynolds County									
Ellington	05	1937CST			0	0			Hail (0.75)
The Ellington Police reported 3/4 inch hail.									
Washington									
.5 W Belgrade	16	1042CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

The Belgrade Fire Department reported 3/4 inch hail.

Marion County

Palmyra 16 1615CST 0 0 **Hail (0.75)**

The County Sheriff reported 3/4 inch hail in Palmyra.

Reynolds County

2 N Garwood 17 1244CST 0 0 **Hail (0.75)**

Reynolds County

Garwood 17 1245CST 0 0 **Thunderstorm Wind (G52)**

The County Sheriff reported 3/4 inch hail north of Garwood and some trees down in town from thunderstorm wind gusts.

Madison County

Buckhorn 17 1303CST 0 0 **Hail (1.75)**

The County Sheriff reported golfball size hail in Buckhorn.

MISSOURI, Lower

Dunklin County

Kennett 05 1420CST
1425CST 0 0 0.01K **Hail (0.75)**

Dunklin County

Kennett 05 1440CST
1445CST 0 0 0.01K **Hail (0.75)**

Pemiscot County

**5 SW
Caruthersville to
Caruthersville** 05 1450CST
1505CST 0 0 5K **Thunderstorm Wind (G53)**

Several trees were knocked down.

Dunklin County

Kennett 17 1432CST
1440CST 0 0 0.10K **Hail (1.00)**

MISSOURI, Northwest

MOZ028-032-038- Platte - Chariton - Lafayette - Howard - Cooper - Henry

01 0000CST 0 0 Flood
11 2359CST

Minor to moderate river flooding that began in April continued into May on the South Grand River at Ulrich, the Platte River at Sharps Station and Platte City, the Grand River at Brunswick, and on the Missouri River at Waverly, Glasgow, and Boonville. While most of the streams fell below flood stage on May 1st and 2nd, further heavy rains helped keep the Missouri above flood stage at Waverly through May 11.

Platte County

Weston 03 2250CST 0 0 **Thunderstorm Wind (G60)**

A 3-ft diameter, 60-foot tall tree was downed in Weston. Numerous smaller tree limbs and power lines were also downed by thunderstorm winds.

Jackson County

Lees Summit 03 2324CST 0 0 **Hail (0.75)**

Cass County

3 N Cleveland 03 2330CST 0 0 **Hail (1.00)**

Jackson County

Lees Summit 03 2330CST 0 0 **Hail (1.25)**

Jackson County

**Richards Gebaur
Arpt** 03 2330CST 0 0 **Hail (0.75)**

The same storms that produced wind damage on the Kansas side of the Kansas City metro area moved northeastward into Missouri. While one report of wind damage was received from northwest of Kansas City, the primary threat on the Missouri side was hail.

MOZ020-028>032- Buchanan - Platte - Clay - Ray - Carroll - Chariton - Jackson - Saline - Howard - Johnson -

04 0000CST 0 0 Flood
10 2359CST

A complex of thunderstorms rolled east out of Kansas on the night of May 3, dropping 2 to 3 inches of rain across parts of west-central Missouri. The runoff resulted in extensive river flooding, mainly in west central Missouri. Streams that exceeded flood stage included the Missouri River at Sibley, Glasgow, and Boonville, the Little Blue River at Lake City, Moniteau Creek near Fayette,

Storm Data and Unusual Weather Phenomena

May 1999

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									
the Petite Saline at Boonville, the Lamine River near Otterville, South Grand River at Urich, Big Creek near Blairstown, Crooked River near Richmond, Wakenda Creek near Carrollton, the Blackwater River at Valley City and Blue Lick, Fishing River near Mosby, the Little Platte at Smithville, the Chariton River at Prairie Hill, the Grand River at Sumner and Brunswick, and the Platte River at Agency, Sharps Station, and Platte City.									
Holt County									
1 SW Craig	04	2040CST			0	0			Hail (0.75)
Bates County									
Butler	04	2214CST			0	0			Thunderstorm Wind (G52)
Harrison County									
Bethany	10	1510CST			0	0	5K		Thunderstorm Wind (G61)
Several car windows were blown out by thunderstorm wind gusts estimated at 70 mph.									
MOZ037-043>044	Jackson - Cass - Johnson								
	10	1510CST 1845CST			0	0	20K		High Wind (G45)
Trees were downed by non-thunderstorm winds estimated at 50 mph in Raytown. A line of storms moved across northwestern sections of Missouri. Other thunderstorms approached west-central Missouri, but dissipated, producing wind gusts to 50 mph in and south of the Kansas City area.									
MOZ032-038>039-	Chariton - Lafayette - Saline - Johnson - Cooper - Henry								
	12 31	0000CST 2359CST			0	0			Flood
Modest rainfall amounts of around an inch on May 11 across sections of west-central and central Missouri were sufficient to trigger another round of river flooding. Streams that flooded included the Missouri River at Napoleon, Waverly, Miami, and Boonville, the Blackwater River at Valley City and Blue Lick., Big Creek near Blairstown, the South Grand River at Urich, and the Grand River at Sumner and Brunswick. Further heavy rainfall later in the month kept the Missouri at Napoleon, Waverly, and Miami in flood into the month of June.									
MOZ020-030>032-	Buchanan - Ray - Carroll - Chariton - Jackson - Saline - Howard - Johnson - Henry								
	16 30	0000CST 2359CST			0	0			Flood
Thunderstorms moved across northern and western sections of Missouri on May 15 and 16, dropping 1.5 to 2 inches of rain in many locations and resulting in minor to moderate river flooding. Streams in flood included the Missouri River at St. Joseph, Sibley, and Glasgow, Big Creek near Blairstown, the Crooked River near Richmond, Wakenda Creek at Carrollton, the Blackwater River at Blue Lick and Valley City, and the Grand River at Sumner and Brunswick.									
Clay County									
Nashua	16	2108CST			0	0			Hail (0.75)
Sullivan County									
Milan	16	2201CST			0	0			Hail (1.00)
Sullivan County									
Milan	16	2201CST			0	0			Thunderstorm Wind (G50)
A large tree was downed in a road near Milan									
Chariton County									
5 S Keytesville	17	0000CST			0	0	3K		Hail (1.00)
Quarter size hail dented cars south of Keytesville.									
Jackson County									
4 N Greenwood	17	0100CST			0	0			Thunderstorm Wind (G52)
Tree limbs 6 to 8 inches in diameter were reported downed along Highway 150.									
Cass County									
Archie	17	0129CST			0	3	50K		Thunderstorm Wind
Roofs were torn off 2 houses by thunderstorm wind gusts.									
Johnson County									
6 SW Holden	17	0145CST			0	0	10K		Thunderstorm Wind
A barn was severely damaged by thunderstorm winds southwest of Holden.									
Grundy County									
Trenton	17	0220CST			0	0			Hail (0.75)
Henry County									
Clinton	17	0230CST			0	0			Thunderstorm Wind (G55)
Tree limbs up to 8 inches in diameter, as well as utility poles, were downed.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Lafayette County									
Corder	17	0230CST			0	0	25K		Thunderstorm Wind
A mobile home was destroyed in Corder. A cold front triggered thunderstorm development over Kansas. The storms moved eastward into west-central Missouri, producing widespread damaging winds and large hail.									
MOZ001-020 Atchison - Buchanan									
	21	0000CST			0	0			Flood
	26	2359CST							
A weakening complex of thunderstorms dropped up to 1.5 inches of rain in sections of northwest Missouri on the evening of May 20, resulting in minor river flooding on the Tarkio River near Fairfax and the Missouri River at St. Joseph.									
MOZ040-054 Howard - Henry									
	23	0000CST			0	0			Flood
	25	2359CST							
Yet another heavy rainfall event on May 22, this time focused in west-central Missouri, south of Kansas City, resulted in minor flooding of the South Grand River at Urich and the Missouri River near Glasgow.									
Nodaway County									
7 NE Maryville	30	2010CST			0	0			Hail (0.75)
MOZ020 Buchanan									
	31	0000CST			0	0			Flood
		2359CST							
A rain event on May 30 caused the Missouri River at St. Joseph to exceed flood stage on May 31, and remain above flood stage into June.									
MISSOURI, Southeast									
MOZ076-087-111 Perry - Cape Girardeau - Scott									
	01	0001CST			0	0	10K		Flood
	31	2359CST							
The Mississippi River was above the 32-foot flood stage at Cape Girardeau for almost the entire month. The primary crest of 37.8 feet occurred on the 10th, then the river fell below flood stage for a few days from the 15th to the 18th. The secondary crest of 34.4 feet occurred on the 28th. These levels resulted in minor to moderate flooding, which primarily affected bottomlands and adjacent roads, but no homes. The first floodgates are closed at a level of 35.6 feet at Cape Girardeau.									
Butler County									
3 SE Poplar Bluff	04	1858CST			0	0			Thunderstorm Wind (G52)
Gusts to 60 MPH were estimated near the intersection of Highway 53 and HH Highway.									
Perry County									
Countywide	05	0001CST 0105CST			0	0			Urban/Sml Stream Fld
Thunderstorms with very heavy rains caused minor flooding of poor drainage areas. Water was over portions of low-lying roads.									
Mississippi County									
East Prairie	05	1455CST			0	0			Hail (0.75)
Butler County									
Poplar Bluff	05	1516CST			0	0			Thunderstorm Wind (G52)
Ripley County									
1 N Naylor	05	1520CST			0	0			Hail (1.00)
Butler County									
5 W Poplar Bluff to 5 NW Poplar Bluff	05	1535CST 1540CST			0	0			Hail (1.75)
Walnut to golf ball size hail was reported by the Missouri State Highway Patrol.									
Perry County									
Biehle	05	1600CST			0	0			Thunderstorm Wind (G52)
Scott County									
Lusk	06	0300CST			0	0			Hail (1.00)
Perry County									
Countywide	12	1645CST 1845CST			0	0	5K		Flash Flood
Thunderstorms with very heavy rain persisted long enough to cause some street and highway flooding. Water was reported over T Highway and a couple other roads. Street flooding occurred in Perryville.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
MISSOURI, Southeast									
New Madrid									
New Madrid	12	1659CST			0	0			Hail (0.75)
Carter County									
Van Buren to Ellsinore	17	1245CST 1255CST			0	0	30K		Thunderstorm Wind
A house trailer sustained heavy damage in Ellsinore. Numerous trees were down in Van Buren.									
Wayne County									
Piedmont to Wappapello	17	1253CST			0	0	40K		Thunderstorm Wind (G60)
In Piedmont, a pontoon boat in a parking lot was moved six feet. In Taske, a porch was blown off a house, and a shed was damaged. Trees were down across roadways at scattered locations around the county.									
Ripley County									
3 NE Doniphan	17	1310CST			0	0			Hail (0.75)
Ripley County									
3 NE Doniphan	17	1310CST			0	0	10K		Thunderstorm Wind
Numerous trees were down and a barn was destroyed.									
Stoddard County									
Bloomfield to Advance	17	1340CST 1355CST			0	0	100K		Thunderstorm Wind
In Advance, the roof was blown off a block building, chain link fences were down, and numerous trees were down. On the school grounds in Advance, a dugout at a baseball field collapsed with students inside it. An auto dealership on the south edge of Advance lost its roof and back wall. No injuries were reported. In Bloomfield, large trees were down.									
Perry County									
1 S Perryville	17	1345CST			0	0			Hail (1.00)
Cape Girardeau									
Randles to Cape Girardeau	17	1350CST 1405CST			0	0	150K		Thunderstorm Wind (G61)
Damaging winds, estimated near 70 MPH, affected southern parts of Cape Girardeau County. Near Randles, a mobile home was unroofed and numerous trees were down. In Cape Girardeau, the dome roof of an indoor municipal pool was shredded, and the roof of an armory was torn off. Numerous trees and power lines were down. At the Cape Girardeau Regional Airport, automated equipment measured a gust to 62 MPH. A utility company reported 22,500 customers in the Cape Girardeau area lost power, some for up to 24 hours. A large portion of the utility company's roof was blown off, blocking the entrance to the building. Roofing from a newly remodeled apartment building was blown across a street. About two dozen trees were blown down on the campus of Southeast Missouri State University. A few miles south of Jackson, a fire official witnessed a "gustnado" about 20 feet wide. A gustnado is a tornado-like vortex that forms along the leading edge of a thunderstorm gust front.									
Bollinger County									
Countywide	17	1400CST			0	0	40K		Thunderstorm Wind (G69)
Numerous trees and power lines were down. Trees were blown down across a highway. A shop building blew down with a man inside, but he was not injured. The county emergency management director estimated wind speeds up to 80 MPH.									
Scott County									
Sikeston to Scott City	17	1405CST			0	0	75K		Thunderstorm Wind (G78)
Thunderstorm winds were estimated up to 90 MPH at isolated locations in the county. These winds damaged or destroyed a few smaller buildings. A tractor trailer rig was blown over on Interstate 55 near the Scott City exit. Part of the roof of a school in Scott City was peeled off. The highest gust in Sikeston was 62 MPH. Some of the hardest hit communities included Chaffee, Oran, and Morley. A tree fell on a house in Chaffee, damaging an awning and the roof. In Oran, a tree fell on a house, and another fell on a vehicle.									
New Madrid									
Parma to Matthews	17	1415CST			0	0	10K		Thunderstorm Wind (G52)
Scattered trees and power lines were down, mainly in northern parts of New Madrid County.									
Scott County									
Lusk	17	1423CST			0	0			Hail (1.00)
Mississippi County									
Charleston to Birds Pt	17	1425CST			0	0	20K		Thunderstorm Wind
At Birds Point, an empty trailer was damaged. Scattered trees and limbs were blown down at East Prairie and Charleston.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Jasper County									
Joplin	04	0100CST			0	0	4K		Thunderstorm Wind
		Thunderstorm winds snapped a power poll and downed wires.							
Barton County									
Countywide	04 05	1100CST 0200CST			0	0	40K		Flash Flood
Jasper County									
Countywide	04 05	1100CST 0200CST			0	0	70K		Flash Flood
Newton County									
North Portion	04	1100CST 2100CST			0	0			Flash Flood
Vernon County									
Countywide	04 05	1100CST 0200CST			0	0			Flash Flood
Cedar County									
Countywide	04	1200CST 1800CST			0	0			Flash Flood
Dade County									
Countywide	04	1200CST 1800CST			0	0			Flash Flood
Lawrence County									
Countywide	04	1200CST 1800CST			0	0			Flash Flood
St. Clair County									
Countywide	04	1200CST 1800CST			0	0			Flash Flood
Benton County									
Countywide	04	1500CST 2100CST			0	0			Flash Flood
Camden County									
Countywide	04 05	1500CST 0400CST			1	0			Flash Flood
		F29OT							
Christian County									
West Portion	04	1500CST 2200CST			0	0			Flash Flood
Dallas County									
Countywide	04	1500CST 2000CST			0	0			Flash Flood
Greene County									
Countywide	04	1500CST 2100CST			0	0			Flash Flood
Hickory County									
Countywide	04	1500CST 2200CST			0	0			Flash Flood
Laclede County									
Countywide	04	1500CST 2000CST			0	0			Flash Flood
Morgan County									
Countywide	04	1500CST 2200CST			0	0			Flash Flood
Polk County									
Countywide	04	1500CST 2200CST			0	0			Flash Flood
Stone County									
North Portion	04	1500CST 2000CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
MISSOURI, Southwest										
Barry County										
Countywide	04	1600CST 1900CST			0	0				Flash Flood
Miller County										
Countywide	04	1600CST 2100CST			0	0				Flash Flood
Howell County										
Countywide	04 05	1900CST 0200CST			0	0				Flash Flood
<p>Thunderstorms produced a large area of 2 to 6 inch rainfall over central, south central, and southwest Missouri. The hardest hit areas were along the Kansas state line from Nevada to Joplin where some damage to roads occurred. A few homes in the Carthage and Joplin areas required brief evacuations due to the flooding. About a half dozen homes in Carthage had minor flood damage on the lowest floor. Numerous low lying roads and low water crossings were closed due to the flooding.</p> <p>There was one flash flood related fatality in eastern Camden County on Dry Glaize Creek near Montreal. Early in the morning on May 5th, a women died when she drove into a flooded low water crossing.</p>										
St. Clair County										
2 N Tiffin to 5 N Tiffin	04	1249CST	3	200	0	1	50K			Tornado (F3)
<p>A tornado downed trees just north of Highway 82 near the intersection of OO Highway. The tornado skipped across an open field and increased in intensity just before striking and completely destroying a modular home, spreading debris nearly a mile away. One person in the home was injured.</p>										
St. Clair County										
Osceola	04	1300CST			0	0	0			Thunderstorm Wind
Thunderstorm winds knocked down a few trees.										
Benton County										
1 S Cole Camp	04	1345CST	0.1	50	0	0	5K			Tornado (F0)
A small tornado downed 15 trees, a power line, and buckled over a metal pole. A small shed was moved about 15 feet.										
Jasper County										
Carthage	04	1424CST			0	1				Lightning
<p>A worker was struck by lightning while she was working inside a hotel/motel. The lightning apparently entered through a window. The women was knocked off of her feet and onto a bed. She experienced numbness in her ankles, feet, and arms but was not hurt seriously. She was admitted to a local hospital and soon released.</p>										
Greene County										
Springfield	04	1515CST			0	0	30K			Thunderstorm Wind (G52)
Thunderstorm winds downed trees, power lines, and caused some minor structural damage in and around Springfield. A portion of a furniture store was damaged.										
Christian County										
Highlandville	04	1515CST			0	0	0			Thunderstorm Wind
Thunderstorm winds downed tree limbs.										
Laclede County										
Bennett Spgs	04	1555CST			0	0				Hail (0.75)
Laclede County										
4 E Eldridge	04	1610CST			0	0				Hail (0.75)
Laclede County										
Eldridge	04	1610CST			0	0	0			Thunderstorm Wind (G52)
Laclede County										
2 S Lebanon	04	1620CST			0	0	10K			Thunderstorm Wind
Thunderstorm winds damaged a barn, a trailer, and downed a few trees and power lines.										
Howell County										
2 S Willow Spgs	04	1805CST			0	0	0			Thunderstorm Wind
Thunderstorm winds downed tree limbs.										
Vernon County										
Bronaugh	04	2150CST			0	0	8K			Thunderstorm Wind
Thunderstorm winds downed branches and power lines.										

Storm Data and Unusual Weather Phenomena

May 1999

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									
Vernon County									
Nevada	04	2155CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds downed trees in and around Nevada.						
Vernon County									
Richards	04	2155CST			0	0			Hail (1.00)
Oregon County									
1 NW Jeff	05	1805CST			0	0			Hail (1.75)
Cedar County									
3 W El Dorado Spgs	11	1927CST			0	0			Hail (0.75)
Vernon County									
2 NE Dederick	11	1931CST			0	0			Hail (1.00)
Vernon County									
Countywide	12	0400CST			0	0			Flash Flood
			Thunderstorms produced heavy rain which flooded numerous low water crossings across the county.						
Stone County									
4 W Kimberling City	15	0550CST			0	0			Hail (0.75)
Christian County									
Oldfield	15	0800CST			0	0			Hail (0.75)
Taney County									
1 NW Forsyth	15	1842CST			0	0			Hail (1.00)
Barton County									
1 E Lamar	17	0131CST			0	0	40K		Thunderstorm Wind
			Thunderstorm winds destroyed a hay barn, a garage, and damaged trees and other outbuildings.						
Mcdonald County									
South West City	17	0240CST			0	0			Thunderstorm Wind (G55)
Mcdonald County									
Anderson	17	0240CST			0	0			Thunderstorm Wind (G55)
Barry County									
Cassville	17	0304CST			0	0			Thunderstorm Wind (G52)
Stone County									
Countywide	17	0337CST			0	0	10K		Thunderstorm Wind
			Thunderstorm winds downed trees and power lines across much of the county. The Galena and Reeds Springs areas were hit particularly hard with numerous downed power lines.						
Christian County									
4 N Ozark	17	0345CST			0	0			Hail (0.75)
Laclede County									
5 W Lebanon	17	0420CST			0	0			Hail (1.75)
Taney County									
Ridgedale	17	1120CST			0	0	3K		Thunderstorm Wind
			Thunderstorm winds damaged trees.						
Howell County									
Pottersville	17	1123CST			0	0			Tstm Wind/Hail
			Thunderstorms produced dime sized hail and blew down trees.						
Ozark County									
Bakersfield	17	1135CST			0	0			Hail (0.75)
Howell County									
West Plains	17	1137CST			0	0			Hail (1.00)
Shannon County									
Winona	17	1202CST			0	0			Hail (1.00)
Shannon County									
3 NE Winona	17	1215CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

May 1999

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, Southwest</u>									
Oregon County									
Thomasville	17	1217CST			0	0			Hail (0.75)
Howell County									
South Portion	17	1300CST 1500CST			0	0			Flash Flood
Thunderstorms produced some minor flooding of low lying areas and low water crossings.									
Newton County									
Seneca	17	1343CST			0	0			Hail (0.75)
Jasper County									
Carthage	23	0106CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew over large trees.									
Cedar County									
Stockton	23	0129CST			0	0			Hail (1.00)
<u>MONTANA, Central</u>									
MTZ010 Eastern Glacier / Eastern Pondera / Toole / Liberty									
	07	1300MST 2000MST			0	0			High Wind (G60)
CTB ASOS AT 1600...SWEETGRASS G50KT AT 1300									
MTZ014 Broadwater / Jefferson / Meagher / Central And Southern Lewis And Clark									
	09	1500MST			0	0			Winter Storm
	10	2000MST							
JUST WEST OF CLANCY 11 INCHES									
MTZ015 Gallatin / Madison									
	09	1500MST			0	0			Winter Storm
	10	2000MST							
VIRGINIA CITY 13 INCHES...ALDER 17S 10 INCHES...GALLATIN GATEWAY 8 INCHES									
MTZ009 Rocky Mountain Front									
	09	1800MST			0	0			Winter Storm
	10	1400MST							
PENDROY 18W...HUDSON BAY RANGER STATION...AND BABB 8 INCHES									
MTZ010 Eastern Glacier / Eastern Pondera / Toole / Liberty									
	09	1800MST			0	0			Winter Storm
	10	1400MST							
DUPUYER AND GOLD BUTTE 7N 6 INCHES									
MTZ014 Broadwater / Jefferson / Meagher / Central And Southern Lewis And Clark									
	30	1000MST 2000MST			0	0			Winter Storm
12SSE HLN 10 INCHES...MCDONALD PASS 6 INCHES									
<u>MONTANA, East</u>									
MTZ018>020- Daniels - Sheridan - Roosevelt - Mccone - Richland - Dawson - Prairie - Wibaux									
	05	0530MST 2000MST			0	0			High Wind (G45)
The combination of a strong low pressure system located over South Dakota and high pressure over the Pacific Northwest produced high winds over portions of eastern Montana. Winds were sustained from 40 to 45 miles an hour for much of May 5th. Winds gusts reached to around 50 miles an hour from Glendive to near Scobey.									
MTZ017>020- Valley - Daniels - Sheridan - Roosevelt - Garfield - Mccone - Richland - Dawson - Prairie - Wibaux									
	11	1930MST			0	0			Heavy Snow
	12	1100MST							
A major late season snow storm dropped as much as 18 inches of heavy wet snow over portions of northeast Montana. The snow in combination with strong northwest winds reduced visibilities to less than an mile and caused 3 to 4 foot drifts. Several roads across the area were closed due to the snow and snow drifts. Highway 2 between Brockton and Poplar was limited to emergency travel only and portions of Highways 16 and 200 were also closed during the morning of May 12th. The heaviest snowfalls were reported in western Dawson County near Bloomfield and Richey. 18 inches of snow was reported 11 miles east of Richey. Very heavy snow also fell in Sheridan County along the North Dakota border. 12 inches of snow was reported around Dooley and Comertown.									
Daniels County									
3 NW Whitetail	21	1802MST			0	0			Hail (0.75)
Sheridan County									
3 NW Redstone	21	1905MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>MONTANA, East</u>									
Dawson County									
Glendive	29	1615MST			0	1			Lightning
Prairie County									
5 SE Fallon	29	1630MST			0	0			Hail (0.88)
Daniels County									
12 N Peerless	29	1951MST			0	0			Urban/Sml Stream Fld
	30	0015MST							
Spotters reported 1.5 - 2 inches of rain falling in less than 3 hours. The rain caused local streams to become bankful and ponding of water on area secondary roads.									
<u>MONTANA, South</u>									
MTZ033-036 Fallon - Powder River									
	05	0800MST 1900MST			0	0			High Wind (G58)
An intense low pressure center over the Eastern Dakotas combined with high pressure over Western Montana to produce strong northwest winds across Eastern Montana. Broadus had gusts as high as 67 mph and Baker had sustained winds of 40 mph at 353 pm MDT.									
MTZ028 Wheatland									
	13	0400MST 1600MST			0	0			Heavy Snow
Moisture rotating around an upper low which moved from central Montana to southern Saskatchewan combined with low level upslope flow to produce heavy snow above 7000 feet in the mountains of southern Park County. Cooke City picked up 13 inches of new snow.									
Powder River									
Biddle	13	1800MST			0	0			Hail (0.88)
Nickel size hail reported.									
Carter County									
35 N Alzada	13	1900MST			0	0			Hail (0.75)
A spotter reported dime size hail while driving in open country.									
Musselshell									
1 E Roundup	20	1905MST 1907MST	0.2	30	0	0	25K		Tornado (F0)
Eyewitnesses reported seeing a funnel cloud pass over Roundup, and a tornado touchdown north of US12 1 mile east of Roundup. Several trees were downed, a chicken shed was demolished and several sections of wood fencing were destroyed.									
Carter County									
8 W Ridgeway	21	1215MST			0	0			Funnel Cloud
Public report of four funnel clouds.									
Carter County									
10 NW Alzada	21	1223MST			0	0			Funnel Cloud
Carter County									
Ekalaka	21	1225MST			0	0			Funnel Cloud
Carbon County									
4 N Red Lodge	21	1355MST			0	0			Hail (1.75)
Golf ball size hail was reported by Carbon County Sheriff's dispatch.									
Yellowstone									
Pompeys Pillar	21	1443MST			0	0			Hail (0.88)
MTZ028 Wheatland									
	29	1200MST			0	0			Flood
	30	1900MST							
The road between 9th Street Island and Siebeck Island was closed as water overflowed its banks along the Yellowstone River in Livingston.									
Custer County									
Ismay	29	1619MST			0	0			Hail (0.88)
Nickel size hail was reported in Ismay.									
Carter County									
Ridgeway	29	1635MST			0	0			Hail (0.75)
Dime size hail was reported in Ridgeway.									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
MTZ002 West Glacier Region									
	09	1700MST			0	0			Heavy Snow
	10	1300MST							
Moss Peak at 6780 feet in Lake County 12 inches new snow. Flattop Mountain at 6300 feet in Flathead County 10 inches new snow. Noisy Basin at 6000 feet in Flathead County 10 inches new snow.									
MTZ001-005 Kootenai/Cabinet Region - Missoula / Bitterroot Valleys									
	25	0000MST			0	0			Flood
	28	1200MST							
Warm temperatures caused rapid snowmelt in the mountains with subsequent flooding of local streams and a few rivers in western Montana. The Yaak River near the Yaak Mercantile flooded 5 homes, and the Bitterroot River from Darby to Florence flooded fishing access sites and Osprey, Simpson and Luby Lanes roads near Florence.									
<u>NEBRASKA, Central</u>									
Wheeler County									
12 SSE Bartlett	03	1830CST			0	0			Hail (1.00)
Lincoln County									
10 S North Platte	03	1925CST			0	0			Thunderstorm Wind (G74)
Holt County									
3 SSE Ewing to 6.5 ENE Page	03	1920CST 1945CST	15	100	0	0	750K		Tornado (F1)
Holt County									
Ewing	03	1930CST			0	0	15K		Hail (4.50)
Holt County									
7 ENE Page	03	1940CST			0	0	3K		Hail (1.75)
A severe thunderstorm spawned a tornado in extreme eastern Holt County of north central Nebraska. The tornado touched down 3 miles south southeast of Ewing and travelled along a power line, lifting up and touching down again at least once. The tornado finally ended as it lifted back into the cloud 6 to 7 miles east northeast of page. While the tornado was down, it destroyed twelve center pivot irrigation systems. At one farm, it also destroyed a 40 foot by 60 foot quonset machine shed and heavily damaged the machinery within. Also destroyed were a granary, a barn, and a chicken house. Several farm animals were injured as well, and the dwelling received minor damage. No human injuries were reported and no storm related deaths occurred. The 1.75 inch and 4.50 inch hail were associated with the tornado.									
Boyd County									
11 SW Naper	03	2030CST			0	0			Hail (0.88)
Holt County									
14 NNW Stuart	03	2030CST			0	0			Hail (0.88)
Rock County									
12 N Newport	03	2030CST			0	0			Hail (0.75)
Keya Paha County									
18 E Springview	03	2045CST			0	0			Hail (0.75)
Garfield County									
Southwest Portion to 8 NW Burwell	04	1240CST 1500CST			0	0			Flash Flood
Loup County									
East Portion to 7 NE Taylor	04	1240CST 1500CST			0	0			Flash Flood
Very heavy rain began late in the morning or early afternoon as a nearly stationary line of thunderstorms. Radar estimated rainfall of 6 inches or more fell in a period from 5:30 AM CDT to 4:20 PM CDT in north central Nebraska causing widespread flooding of roads and fields in eastern Loup County and southwest Garfield County.									
Frontier County									
15 WSW Stockville	09	1910CST			0	0	9K		Hail (1.75)
Lincoln County									
8 NNE Sutherland	09	2030CST			0	0			Hail (1.00)
Mcpherson									
Tryon	09	2050CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Hooker County									
18 SSE Mullen	09	2125CST			0	0			Hail (0.75)
Garden County									
11 SW Oshkosh	13	1700CST			0	0			Hail (0.75)
Deuel County									
5 NE Chappell	13	1737CST			0	0			Hail (1.00)
Deuel County									
8 ENE Chappell	13	1740CST			0	0	8K		Hail (1.75)
Deuel County									
Big Spgs	13	1815CST			0	0	50K		Hail (1.75)
Deuel County									
7 NNW Big Spgs	13	1815CST			0	0	8K		Hail (1.75)
Keith County									
5 NW Ogallala	13	1840CST			0	0			Hail (0.75)
Deuel County									
4 NW Big Spgs	13	1910CST			0	0			Hail (0.75)
Keith County									
3 NE Ogallala	13	1940CST			0	0			Hail (0.75)
Chase County									
3 NW Lamar	13	2005CST			0	0			Hail (0.75)
Chase County									
12 W Imperial	13	2030CST			0	0			Hail (1.00)
Lincoln County									
8 NNW Sutherland	13	2125CST			0	0			Hail (0.75)
Thomas County									
8 SSE Thedford	14	0045CST			0	0			Hail (0.75)
Keith County									
8 N Keystone	14	1615CST			0	0			Hail (0.75)
Chase County									
10 SSW Champion	14	1720CST			0	0			Hail (0.88)
Chase County									
4 W Champion	14	1730CST			0	0			Hail (0.88)
Chase County									
Wauneta	14	1750CST			0	0			Hail (1.00)
Frontier County									
8 S Maywood	14	1830CST			0	0			Hail (1.00)
Lincoln County									
7 E Brady	14	1858CST			0	0			Hail (0.88)
Frontier County									
8 S Eustis	14	1930CST			0	0			Hail (0.75)
		Dime-sized hail covered the ground.							
Custer County									
2 WSW Ansley	16	0323CST			0	0			Hail (1.50)
Custer County									
2 S Ansley	16	0330CST			0	0			Hail (0.75)
Lincoln County									
14 NE Wellfleet	19	1830CST			0	0			Hail (0.75)
Cherry County									
18 SSW Cody	19	2300CST			0	0			Hail (0.88)
Custer County									
1.5 SW Arnold to .5 SW Arnold	19	2150CST			0	0	220K		Dry Microburst

A thunderstorm produced damaging wind in western Custer County of central Nebraska. Ten power poles were blown down and a

Storm Data and Unusual Weather Phenomena

May 1999

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									
solar unit blew off a house roof while the same house sustained the loss of a large television antenna. A large tree was blown down. Other damage included grain augers and three center pivot irrigation systems damaged or destroyed. A top blown from a grain bin struck a pickup truck and a house.									
Garden County									
11 SW Oshkosh	21	1920CST			0	0			Hail (0.75)
Deuel County									
7 N Chappell	21	1950CST			0	0			Hail (0.75)
Blaine County									
7 SSE Brewster	22	1230CST			0	0			Hail (0.88)
Rock County									
3 W Rose	22	1300CST			0	0			Hail (0.88)
Loup County									
9 NW Almeria	22	1325CST			0	0			Hail (0.88)
Custer County									
7 W Comstock	22	1330CST			0	0			Hail (1.25)
Cherry County									
4 NNW Elsmere	22	1340CST			0	0			Hail (0.88)
Garfield County									
5 NW Burwell	22	1345CST			0	0	9K		Hail (1.75)
Brown County									
23 S Johnstown	22	1410CST			0	0			Hail (1.00)
Blaine County									
3 NW Brewster	22	1425CST			0	0			Hail (0.75)
Thomas County									
17 SE Thedford	22	1440CST			0	0			Hail (1.25)
Blaine County									
7 SSE Brewster	22	1445CST			0	0			Hail (0.88)
Logan County									
12 N Stapleton	22	1445CST			0	0			Hail (1.00)
Wheeler County									
7 N Ericson	22	1445CST			0	0			Hail (0.75)
Loup County									
1 W Almeria	22	1510CST			0	0			Hail (0.75)
Custer County									
15 NW Merna	22	1540CST			0	0			Hail (1.50)
Custer County									
5 N Broken Bow	22	1602CST			0	0			Hail (0.75)
Frontier County									
18 WSW Stockville	22	1740CST			0	0			Hail (0.75)
Lincoln County									
2 S North Platte	27	1510CST			0	0			Hail (0.75)
Custer County									
2 SE Oconto	27	1610CST			0	0			Hail (0.88)
Custer County									
2 W Anselmo	30	1545CST			0	0			Hail (1.00)
Custer County									
6 WSW Merna	30	1627CST			0	0			Hail (1.00)
Custer County									
7 SW Merna	30	1630CST			0	0	10K		Hail (2.00)
Custer County									
8 W Oconto	30	1740CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Frontier County									
4 W Eustis	30	1910CST			0	0			Hail (0.88)
<u>NEBRASKA, East</u>									
Butler County									
8 E David City	03	1830CST			0	0			Hail (1.50)
Colfax County									
Howells	03	1838CST			0	0			Hail (0.75)
Colfax County									
Rogers	03	1856CST			0	0			Hail (1.50)
Cuming County									
4 SSW Wisner	03	1908CST			0	0			Hail (1.00)
Stanton County									
Stanton	03	1910CST			0	0			Hail (0.75)
Dodge County									
5 NW North Bend	03	1910CST			0	0			Hail (2.00)
Stanton County									
Pilger	03	1918CST			0	0			Hail (1.25)
Antelope County									
2 SSW Orchard to 1 NW Orchard	03	1927CST 1942CST	3	40	0	0	10K		Tornado (F0)
									Metal farm grain bins were destroyed.
Pierce County									
2 NE Pierce	03	1940CST			0	0			Hail (1.00)
Wayne County									
Wayne	03	1945CST			0	0			Hail (0.88)
Knox County									
15 W Creighton to 11 SW Verdigre	03	1951CST 2000CST	6	70	0	0	10K		Tornado (F0)
									Power lines/poles downed.
Knox County									
Bloomfield	03	2016CST			0	0			Hail (1.00)
Knox County									
3 NW Verdigre	03	2024CST	0	20	0	0			Tornado (F0)
									Brief touchdown.
Cedar County									
4 S Belden to 2 W Belden	03	2025CST 2035CST	3.5	40	0	0	15K		Tornado (F0)
									A barn and farm equipment were destroyed.
Knox County									
Verdigre	03	2025CST			0	0			Hail (0.75)
Cedar County									
5 ESE Hartington to 2.5 NE Hartington	03	2026CST 2051CST	4	70	0	0	50K		Tornado (F1)
									Farm buildings were heavily damaged as well as a garage, part of a roof of a house and part of a center irrigation pivot.
Cedar County									
Coleridge	03	2028CST			0	0			Hail (1.50)
Knox County									
6 NW Niobrara	03	2032CST	0	20	0	0			Tornado (F0)
									Brief touchdown.
Knox County									
7 NW Crofton	03	2045CST			0	0			Hail (1.75)
Douglas County									
Elkhorn	04	0635CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Richardson									
Rulo	04	2025CST			0	0			Hail (0.75)
Otoe County									
2 W Nebraska City	04	2150CST			0	0			Hail (1.75)
Cass County									
2 SSW Union	04	2202CST			0	0			Hail (0.75)
Sarpy County									
Bellevue	04	2245CST			0	0			Hail (0.75)
NEZ011									
Knox									
	05	1300CST 1900CST			0	0			Flood
Ponca creek near Verdel briefly flooded, reaching 12.2 feet. Flood stage is 12 feet. The minor flooding was caused by thunderstorms on 5/3/99 and 5/4/99.									
NEZ016									
Antelope									
	07	1830CST			0	0			Flood
	08	2000CST							
Heavy rain in north central Nebraska caused the Elkhorn River at Neligh to reach 10.8 feet at 10 am on 5/8/99, flood stage is 10 feet.									
Butler County									
5 NW Bellwood	15	2210CST			0	0			Hail (1.00)
Covered highway 81 south of Platte River 6 inches deep.									
Platte County									
Columbus	15	2215CST			0	0	7.5M		Hail (2.75)
Numerous hailstones 1 1/4 to 1 1/2 inches with some as large as 2 3/4 inches did damage to over 1500 cars as well as to many roofs and gutters.									
Boone County									
3 NW Primrose	16	0530CST			0	0			Hail (1.75)
Stanton County									
8 S Pilger	16	0615CST			0	0			Hail (0.75)
Cuming County									
6 W Bancroft	16	0615CST			0	0			Hail (0.75)
Cass County									
3 S Plattsmouth	16	1400CST			0	0			Hail (2.75)
Cass County									
6 S Plattsmouth to 5 SE Plattsmouth	16	1403CST 1405CST	1	60	0	0	5K		Tornado (F0)
Some shingle and tree damage was caused near the Beaver Lake area before the tornado crossed the Missouri River near Pacific Junction.									
Washington									
4 N Blair	16	1410CST			0	0			Hail (1.00)
NEZ091									
Nemaha									
	16	1700CST			0	0			Flood
	26	2000CST							
Above normal rainfall for May over eastern Nebraska and southwest Iowa pushed the Missouri River at Brownville above its 32 foot flood stage much of this time period. The river was below flood stage is this time period basically from late on 5/19/99 until 5/20/99 in the afternoon. The river crested at 33.93 feet at 330 pm 5/21/99 and 33.74 feet at 430 pm on 5/17/99.									
Richardson									
Falls City	16	1745CST			0	0			Thunderstorm Wind (G70)
Thunderstorm gust downed power lines and did some tree limb and roof damage.									
Nemaha County									
5 E Julian	16	2036CST			0	0			Hail (0.88)
Nemaha County									
Peru	16	2049CST			0	0			Hail (2.75)
Otoe County									
13 S Nebraska City	16	2136CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
NEBRASKA, East									
NEZ078			Saline						
	17	0300CST			0	0			Flood
	19	1500CST							
	Slow moving thunderstorms on 5/16/99 produced heavy rain which caused Turkey Creek near Wilber to flood. The creek crested at 11.9 feet during the morning hours on 5/18/99. Flood stage is 11 feet.								
NEZ093			Richardson						
	17	0500CST			0	0			Flood
	25	1000CST							
	Above normal May rainfall over eastern Nebraska and southwest Iowa caused the Missouri River at Rulo to be above its 17 foot flood stage much of this time period, except from around late afternoon on 5/19/99 through the early morning hours of 5/21/99. The river crested at 21.2 feet during the evening hours of 5/21/99.								
Jefferson County									
Jansen	20	1619CST			0	0			Hail (1.00)
Jefferson County									
Fairbury	20	1625CST			0	0			Thunderstorm Wind (G52)
	Three trees were uprooted plus numerous large tree limbs were downed. The downed tree limbs knocked the power out to half of Fairbury for nearly an hour.								
Jefferson County									
Fairbury	20	1653CST			0	0			Lightning
	Lightning caused damage to plumbing in a house plus started a small fire in a crawl space in the bathroom.								
Pawnee County									
3 S Burchard	20	1705CST			0	0			Hail (2.00)
Gage County									
2 SE Beatrice	20	1915CST 2130CST			0	0			Flash Flood
	Flooding of many county roads and 100 feet of dirt was washed out under rail road tracks near Beatrice.								
Jefferson County									
4 W Plymouth	20	2000CST 2200CST			0	0			Flash Flood
	Flash flooding covered highway 4 west of Plymouth.								
Nemaha County									
Auburn	20	2200CST			0	0			Flash Flood
	21	0100CST							
	Heavy rain caused flash flooding of roads near Auburn								
NEZ091			Nemaha						
	21	0100CST 1300CST			0	0			Flood
	Heavy rain forced the Little Nemaha River near Auburn out of its banks. The river reached 24.58 feet at 500 am, flood stage is 22 feet, and this high water closed Highway 136 east of Auburn for around 9 hours.								
NEZ089			Gage						
	21	0500CST 1900CST			0	0			Flood
	The Big Blue River at Beatrice rose to 18.7 feet around 1100 am on 5/21/99, flood stage is 16 feet.								
NEZ093			Richardson						
	21	0500CST 1500CST			0	0			Flood
	The Big Nemaha River at Falls City reached 24.52 feet at 930 am 5/21/99. Flood stage is 23 feet.								
Cedar County									
7 SE Hartington	22	1540CST			0	0			Thunderstorm Wind (G52)
	Tree branches downed.								
Cedar County									
Wynot	22	1545CST			0	0			Hail (0.75)
Seward County									
Goehner	22	1740CST			0	0			Thunderstorm Wind (G52)
Butler County									
4 NE Garrison	22	1750CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
NEBRASKA, East									
Lancaster County									
10 W Lincoln	22	1815CST			0	0			Thunderstorm Wind (G52)
			Small branches downed.						
Gage County									
Odell	22	1830CST			0	0			Thunderstorm Wind (G55)
			Winds over 60 mph severely damaged old outbuildings near Odell.						
NEZ092 Pawnee									
	22	1900CST 2000CST			0	0			Flood
			Spotty heavy rain over Pawnee county caused minor flooding...mainly around Burchard and Table Rock...where several county roads were under water for a time.						
Platte County									
.5 N Monroe	27	1830CST 1930CST			0	0			Flash Flood
			Flooding of a small creek brought debris onto a bridge north of Monroe.						
Sarpy County									
5 W Papillion	30	1402CST 1403CST			0	0			Hail (1.00)
Douglas County									
Millard	30	1406CST			0	0			Hail (1.00)
			Near 144th and Q street.						
Douglas County									
6 N Omaha	30	1430CST			0	0			Thunderstorm Wind (G52)
			Large tree limbs down which caused a power outage for some Omaha residents north of I-680.						
Gage County									
11 NW Beatrice	30	1516CST			0	0			Hail (0.75)
Jefferson County									
Plymouth	30	1609CST			0	0			Hail (0.75)
Gage County									
Beatrice	30	1615CST 1800CST			0	0			Flash Flood
			Street flooding in Beatrice plus county roads around town closed as well due to flooding.						
Gage County									
Beatrice	30	1620CST			0	0			Hail (0.75)
Pawnee County									
Table Rock	30	1725CST			0	0			Thunderstorm Wind (G52)
			Large tree limbs downed.						
Pawnee County									
2 NE Du Bois	30	1740CST			0	0			Hail (2.00)
			Hen egg sized hail reported on highway 8.						
Pawnee County									
2 N Table Rock	30	1830CST 2000CST			0	0			Flash Flood
			County road north of Table Rock closed due to flooding.						
Saline County									
7 S Friend	30	1916CST			0	0			Hail (0.75)
Gage County									
6 E Beatrice	30	2108CST 2215CST			0	0			Flash Flood
			County road east of Beatrice closed due to flooding.						
NEZ089 Gage									
	30	2200CST			0	0			Flood
	31	1100CST							
			The Big Blue River at Beatrice rose to 17.75 feet at 730 am on 5/31/99, flood stage is 16 feet.						

NEBRASKA, Extreme Northeast

Dixon County

1 S Newcastle

22

1549CST

0

0

Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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, Extreme Northeast</u>									
Dixon County 3 SW Ponca	22	1556CST 1557CST	0.1	50	0	0			Tornado (F0)
Dixon County 2.5 SW Ponca	22	1556CST 1557CST	0.1	50	0	0			Tornado (F0)
Two small and short lived tornadoes were observed by a trained spotter. The tornadoes caused no known damage.									
Dixon County 3 SW Ponca	22	1558CST			0	0	5K		Thunderstorm Wind (G52)
Thunderstorm winds blew down power lines.									
Dakota County South Sioux City	22	1630CST			0	0			Thunderstorm Wind (G52)
Dixon County 2 W Allen	30	1715CST 1716CST	0.1	50	0	0			Tornado (F0)
A brief tornado observed by a spotter caused no reported damage.									
Dixon County 2 W Allen	30	1718CST			0	0			Thunderstorm Wind (G52)
<u>NEBRASKA, Extreme Southwest</u>									
Red Willow 5 SE Red Willow	09	0652CST			0	0			Hail (1.00)
Hitchcock County Culbertson	09	0715CST			0	0			Hail (0.75)
Red Willow 6 W Mc Cook	09	0800CST			0	0			Hail (1.00)
Dundy County 15 NNE Max	14	1647MST			0	0			Hail (0.88)
Hitchcock County Stratton	14	1759CST			0	0			Hail (1.50)
Hitchcock County 5 SSE Culbertson	14	1832CST			0	0			Hail (0.88)
Red Willow Mc Cook	14	1846CST			0	0			Hail (1.50)
Red Willow 2 ESE Lebanon	14	1950CST			0	0			Hail (0.75)
Dundy County 12 NNW Haigler	19	1540MST			0	0			Hail (1.50)
Dundy County 19 NNW Parks	19	1600MST			0	0			Hail (1.00)
Dundy County 15 NNW Max	19	1625MST			0	0			Hail (0.75)
Hitchcock County 5 SW Trenton	22	1802CST	0.2	20	0	0			Tornado (F0)
Hitchcock County Culbertson	22	1900CST			0	0			Thunderstorm Wind (G60)
Numerous 2 inch tree limbs broken by strong winds.									
<u>NEBRASKA, South Central</u>									
Furnas County 1.5 NW Arapahoe to 2 NW Arapahoe	02	1430CST 1431CST	0.5	15	0	0	15K	0	Tornado (F0)
Gosper County 16 S Elwood to 12 S Elwood	02	1437CST 1447CST	4.5	60	0	0	75K	0	Tornado (F1)

Storm Data and Unusual Weather Phenomena

May 1999

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									
1 W Ragan to 1 NW Ragan	02	1536CST 1537CST	1	15	0	0	0	0	Tornado (F0)
Phelps County									
8 SE Holdrege to 8 E Holdrege	02	1542CST 1548CST	4	50	0	0	100K	0	Tornado (F1)
Phelps County									
Funk	02	1550CST			0	0	0	0	Hail (0.75)
Franklin County									
1.5 NW Macon to 3.5 N Macon	02	1600CST 1605CST	3	35	0	0	200K	0	Tornado (F1)
Kearney County									
Heartwell	02	1625CST			0	0	0	0	Hail (0.75)
Kearney County									
2 E Heartwell to 4 NE Heartwell	02	1703CST 1708CST	2	20	0	0	50K	0	Tornado (F0)
Adams County									
4 SE Kenesaw to 5 N Kenesaw	02	1708CST 1726CST	8	100	0	0	150K	0	Tornado (F1)
Adams County									
5 SW Kenesaw to 1 S Prosser	02	1711CST 1741CST	10	250	0	0	300K	0	Tornado (F2)
Hall County									
8.5 SW Wood River to 6.5 SW Wood River	02	1726CST 1730CST	2	20	0	0	0	0	Tornado (F0)
Adams County									
2 W Juniata to 2 NW Juniata	02	1748CST 1751CST	1.5	15	0	0	0	0	Tornado (F0)
Hall County									
1 NW Wood River to 2 N Wood River	02	1817CST 1820CST	1.5	35	0	0	100K	0	Tornado (F1)
Sherman County									
Loup City	02	1850CST			0	0	5K	0	Hail (1.00)
Merrick County									
1.5 SW Worms to 1 W Worms	02	1906CST 1908CST	0.5	10	0	0	0	0	Tornado (F0)
Howard County									
3 E St Libory to 8 NE St Libory	02	1908CST 1918CST	5	100	0	0	250K	0	Tornado (F2)
Greeley County									
Spalding	02	1917CST			0	0	10K	0	Hail (1.75)

As strong low pressure lifted across Nebraska and Kansas, a series of damaging tornadoes ripped across south-central Nebraska during the late afternoon and evening hours. No less than 10 tornadoes were confirmed across an area from west of Arapahoe to north of Grand Island near St. Libory. Tornado damage began around mid-afternoon near Holbrook. A brief tornado did some damage to a farmstead northwest of town. Another tornado set down in southern Gosper county and damaged or destroyed at least 3 irrigation center pivots. Tornadoes touched down near Ragan and west of Wilcox. Eventually, another twister near Macon hit two farms. With debris flying through the air, one man stood on his front porch as the tornado passed. Outbuildings, center pivots, and grain bins were heavily damaged by this tornado.

Just after 6 pm, the first of three tornadoes in Adams county took aim on the region west of Kenesaw. Shortly thereafter, another tornado set down southeast of Kenesaw and moved northeast. One farm sustained damage southeast of Kenesaw as irrigation pipe littered the fields along the twister's path. Both tornadoes were on the ground at the same time. A third tornado set down west of Juniata but did no damage before lifting.

Around 7 pm, a short lived tornado was observed just northwest of Wood River. This tornado destroyed grain bins, damaged a grain dryer and pulled shingles from a house nearby. Strong winds in the region also downed power lines and poles south of town. Finally, just after 8 pm, the final tornado of the evening set down in extreme western Merrick county and moved north just inside the Howard

Storm Data and Unusual Weather Phenomena

May 1999

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									
county line. This F2, multiple vortex tornado was on the ground for about 5 miles and damaged or destroyed numerous outbuildings and trees along its path.									
Greeley County									
Greeley	03	1817CST			0	0	10K	0	Hail (1.75)
Adams County									
3 E Hastings	04	1434CST			0	0	0	0	Hail (0.75)
Dawson County									
Cozad	09	2105CST			0	0	0	0	Hail (0.75)
Furnas County									
2 N Cambridge	14	1907CST			0	0	10K	0	Thunderstorm Wind (G61)
Furnas County									
Arapahoe	14	1914CST			0	0	15K	0	Thunderstorm Wind (G52)
Gosper County									
8 S Elwood	14	1915CST			0	0	0	0	Hail (0.75)
Gosper County									
7 S Elwood	14	1926CST			0	0	0	0	Hail (0.75)
Furnas County									
Beaver City	14	1950CST			0	0	0	0	Hail (0.75)
Gosper County									
8 S Elwood	14	2000CST			0	0	0	0	Thunderstorm Wind (G50)
Phelps County									
Holdrege	14	2009CST			0	0	2K	0	Hail (1.00)
Phelps County									
Funk	14	2020CST			0	0	5K	100K	Hail (1.75)
Phelps County									
Holdrege	14	2025CST			0	0	75K	0	Hail (1.75)
Kearney County									
Wilcox	14	2032CST			0	0	2K	0	Hail (1.00)
Furnas County									
Arapahoe	14	2034CST			0	0	0	0	Thunderstorm Wind (G50)
Kearney County									
Axtell	14	2038CST			0	0	4K	0	Hail (1.25)
Franklin County									
Hildreth	14	2049CST			0	0	4K	0	Hail (1.25)
Kearney County									
Axtell	14	2053CST			0	0	0	0	Thunderstorm Wind (G52)
Franklin County									
Bloomington	14	2145CST			0	0	0	0	Hail (0.75)
Severe thunderstorms rumbled across south-central Nebraska with high winds and hail. Some of the larger hail was reported in the Holdrege area where minor property damage was noted. A wind gust to at least 60 mph was to blame for a window being blown in of a trained spotter's car near Axtell.									
Fillmore County									
4 S Shickley	15	2125CST			0	0	0	0	Hail (1.00)
Thayer County									
3 NW Carleton	15	2135CST			0	0	0	0	Hail (1.00)
Polk County									
Osceola	15	2158CST			0	0	50K	0	Hail (1.75)
Quick moving thunderstorms dropped large hail in parts of Polk county causing minor damage.									
Valley County									
North Loup	16	0429CST			0	0	5K	0	Hail (1.25)
Greeley County									
Greeley	16	0500CST			0	0	15K	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Franklin County									
Naponee	20	1310CST			0	0	50K	100K	Thunderstorm Wind (G60)
Franklin County									
Franklin	20	1330CST			0	0	50K	100K	Thunderstorm Wind (G63)
Webster County									
Inavale	20	1415CST 1530CST			0	0	20K	500K	Flash Flood
Webster County									
Red Cloud	20	1415CST 1530CST			0	0	15K	0	Flash Flood
Webster County									
Red Cloud	20	1420CST			0	0	50K	100K	Thunderstorm Wind (G62)
Nuckolls County									
Nelson	20	1510CST			0	0	50K	100K	Thunderstorm Wind (G58)
Thayer County									
1 S Hebron	20	1545CST			0	0	50K	100K	Thunderstorm Wind (G52)
Powerful afternoon thunderstorms produced winds that fell ten inch tree limbs and dumped torrential rains as they moved east from the Franklin area to Hebron. Rain amounts of 1 to 2 inches in 20 minutes were common. U.S. Highway 136 was closed for a couple of hours near Inavale due to water running over the road. Water was reported to be several inches deep in the showroom of a farm implement dealer at Red Cloud. Significant soil erosion from the heavy rainfall damaged some of the newly planted corn. The strong winds and downed trees resulted in power loss in most areas in the path of the storms.									
Phelps County									
Atlanta	22	0915CST			0	0	4K	0	Hail (1.75)
Phelps County									
2 SW Atlanta	22	1000CST			0	0	2K	0	Hail (1.00)
A renegade thunderstorm moved across southern Phelps county during the mid-morning hours dumping hail. The storm broke some windows and caused some roof damage to a church near Atlanta.									
Valley County									
Elyria	22	1337CST			0	0	0	0	Hail (0.75)
Valley County									
10 S Ord	22	1555CST			0	0	0	0	Hail (0.88)
Sherman County									
Loup City	22	1605CST			0	0	0	0	Thunderstorm Wind (G52)
Howard County									
St Paul	22	1622CST			0	0	0	0	Hail (0.75)
Dawson County									
Lexington	22	1705CST			0	0	0	0	Hail (0.75)
York County									
12 NW York	22	1713CST			0	0	0	0	Hail (1.00)
Dawson County									
3 W Overton	22	1725CST			0	0	0	0	Hail (0.75)
Gosper County									
Elwood	22	1732CST			0	0	0	0	Thunderstorm Wind (G50)
Phelps County									
Holdrege	22	1758CST 1805CST			0	0	10K	0	Hail (1.00)
Phelps County									
Funk	22	1812CST			0	0	0	0	Hail (0.75)
Clay County									
Fairfield	22	1840CST			0	0	5K	25K	Hail (1.75)
Franklin County									
Franklin	22	1910CST			0	0	0	0	Hail (0.75)
Clay County									
Spring Ranch	22	1912CST			0	0	20K	200K	Hail (4.50)

Storm Data and Unusual Weather Phenomena

May 1999

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

Thayer County

Deshler 22 1928CST 0 0 0 0 Hail (0.75)

Franklin County

5 N Bloomington 22 1942CST 0 0 0 400K Hail (0.75)

Numerous severe thunderstorms, which developed northwest of Grand Island, moved southeast across south-central Nebraska dumping hail, heavy rain and producing strong winds. In most cases, damage was minimal. However, at Spring Ranch, six miles south of Glenvil, softball size hail pummelled crops and severely damaged a Christmas tree farm. Some damage was also noted at a farmstead nearby. Damage to the winter wheat crop near Bloomington was also reported.

Hall County

Cairo 27 2020CST 0 0 0 0 Hail (0.75)

Thayer County

Bruning 30 1610CST 0 0 0 0 Hail (0.88)

Thayer County

Gilead 30 1645CST 0 0 0 0 Hail (0.88)

Thayer County

Alexandria 30 1710CST 0 0 0 0 Hail (0.75)

Dawson County

5 W Eddyville 30 1750CST 0 0 0 0 Hail (0.75)

Dawson County

**7 NW Lexington to
2 NW Lexington** 30 1813CST 5 100 0 0 50K 100K Tornado (F1)
1845CST

Dawson County

Gothenburg 30 1815CST 0 0 0 0 Hail (0.75)

Hamilton County

4 NW Giltner 30 1840CST 0 0 0 0 Hail (0.75)

Hamilton County

Giltner 30 1852CST 0 0 10K 50K Hail (1.00)

Dawson County

5 W Lexington 30 1855CST 0 0 0 50K Hail (1.00)

Hamilton County

6 SW Giltner 30 1855CST 0 0 0 0 Funnel Cloud

Gosper County

8 S Elwood 30 1900CST 0 0 0 0 Thunderstorm Wind (G50)

Phelps County

5 N Loomis 30 1910CST 0 0 20K 200K Hail (1.75)

Clay County

8 N Clay Center 30 1915CST 0 0 20K 250K Hail (1.50)

Phelps County

Loomis 30 1920CST 0 0 10K 50K Hail (1.00)

Phelps County

2 S Loomis 30 1930CST 0 0 10K 150K Hail (1.00)

Thayer County

Hebron 30 1954CST 0 0 0 0 Hail (0.75)

Harlan County

Huntley 30 2010CST 0 0 25K 250K Hail (1.75)

A cold front moving southeast across south-central Nebraska spawned scattered severe thunderstorms. Dime size to golf ball sized hail was reported across the area. A tornado touched down north of Lexington and moved toward town. Several outbuildings and grain bins were damaged or destroyed. Three farm houses had some damage. Luckily, the tornado lifted before making it to town.

NEBRASKA, West

NEZ001>003-

Sioux - Dawes - Box Butte - Scotts Bluff - Banner - Morrill - Kimball - Cheyenne

**06 0630MST 0 0 16K High Wind (G53)
1745MST**

High winds were reported over the Nebraska Panhandle for much of the day. Winds of 35 to 45 mph were common. Winds gusted as high as 61 mph at Scottsbluff, NE, with Alliance and Sidney reporting

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
NEBRASKA, West									
			gusts to 60 mph.						
Scotts Bluff									
Central Portion to Gering	09	1640MST 1653MST			0	0			Hail (1.75)
			Golfball size hail fell southwest of Gering, NE.						
Scotts Bluff									
Scottsbluff	09	1655MST 1700MST			0	0			Hail (0.75)
			3/4 inch hail fell in Scottsbluff						
Scotts Bluff									
Scottsbluff	09	1700MST 1705MST			0	0			Hail (1.00)
			1 inch hail fell 5 miles north of Scottsbluff, NE						
Scotts Bluff									
Scottsbluff	09	1703MST 1706MST			0	0			Hail (0.88)
Scotts Bluff									
Scottsbluff	09	1718MST 1722MST			0	0			Hail (1.00)
Scotts Bluff									
Scottsbluff	09	1727MST 1730MST			0	0			Hail (1.75)
			1.75 inch hail fell 5 miles north of Scottsbluff, NE						
Cheyenne County									
Dalton	13	1445MST 1449MST			0	0			Hail (0.75)
			3/4 inch hail 2 miles northwest of Dalton, NE						
Morrill County									
Broadwater	13	1448MST 1452MST			0	0			Hail (0.75)
			3/4 inch hail covered the ground 8 miles southwest of Broadwater, NE						
Morrill County									
Broadwater	13	1508MST 1511MST			0	0			Hail (0.75)
			Dime size hail fell 3 miles west of Broadwater, NE						
Cheyenne County									
Lodgepole	13	1600MST 1615MST			0	0			Hail (0.75)
			3/4 inch hail accumulated to a depth of 3 inches and stripped trees along a 1/2 mile path.						
Dawes County									
Chadron	15	1725MST 1730MST			0	0			Hail (0.75)
			3/4 inch hail fell 6 miles west of Chadron, NE						
Morrill County									
Bridgeport	19	1945MST 1948MST			0	0			Hail (0.75)
Cheyenne County									
Gurley	21	1518MST 1521MST			0	0			Hail (1.00)
Cheyenne County									
Sidney	21	1526MST 1737MST			0	0			Hail (1.00)
			1 inch hail covered ground 6 miles northwest of Sidney, NE						
Sioux County									
Harrison	21	1535MST 1540MST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds blew down fences 42 miles south of Harrison, NE						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>NEBRASKA, West</u>									
Box Butte County									
Hemingford	21	1700MST 1705MST			0	0			Hail (0.75)
3/4 inch hail fell 12 miles west of Hemingford, NE									
Cheyenne County									
Sidney	21	1717MST 1723MST			0	0			Hail (1.00)
1 inch hail fell 6 miles northwest of Sidney, NE									
Cheyenne County									
Sidney	21	1718MST 1723MST			0	0	150K	100K	Hail (1.75)
1.75 inch hail fell 10 miles northwest of Sidney, NE Golfball size hail fell over a large area in and around Sidney, NE. Many cars were damaged in Sidney with widespread crop damage in Cheyenne county. Many crops were 100% damaged or destroyed.									
Cheyenne County									
Gurley	21	1719MST 1720MST			0	0			Thunderstorm Wind (G52)
Cheyenne County									
Gurley	21	1722MST 1726MST			0	0	20K		Hail (1.75)
Cheyenne County									
Sidney	21	1735MST 1743MST			0	0			Hail (1.00)
Cheyenne County									
Gurley	21	1740MST 1741MST			0	0			Thunderstorm Wind (G59)
68 mph wind gust reported 6 miles northeast of Gurley, NE									
Cheyenne County									
Sidney	21	1750MST 1753MST			0	0			Hail (0.88)
0.88 inch hail fell 8 miles northeast of Sidney, NE									
Cheyenne County									
Sunol	21	1820MST 1823MST			0	0			Hail (1.00)
1 inch hail fell 6 miles south of Sunol, NE									
Kimball County									
Bushnell	30	1405MST 1410MST			0	0			Hail (0.75)
3/4 inch hail accumulated up to two inches deep on highway 30 near Pine Bluffs, WY									
<u>NEVADA, North</u>									
NVZ007									
Northern Elko									
	14	2200PST			0	0			Heavy Snow
	15	0600PST							
8 inches of new snow was reported overnight at Jarbidge.									
Elko County									
Halleck	21	1400PST 1500PST			0	0			Funnel Cloud
Funnel cloud seen by weather spotter between 2-3pm.									
Humboldt County									
3 W Orovada	24	1805PST 1810PST			0	0	3K		Thunderstorm Wind (G70)
Thunderstorm winds estimated to 80 mph hit the Moser Ranch and destroyed one large parking shed. The roof of the shed was blown into a power pole damaging the pole and the transformer. In addition 11 pollination sheds were either severely damaged or destroyed.									

NEVADA, South

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

May 1999

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

NEVADA, West

NVZ003

Greater Reno/Carson City/Minden Area

03 0155PST 0 0 0 High Wind (G65)
Peak wind gust 75 mph recorded 6 miles NE of Gardnerville.

NVZ003

Greater Reno/Carson City/Minden Area

03 0200PST 0 0 0 High Wind (G50)
Peak wind gust of 58 mph recorded in Southwest Reno.

NVZ002

Greater Lake Tahoe Area

03 0200PST 0 0 50K High Wind
1700PST

High winds during the day blew over radio tower atop Slide Mountain near Lake Tahoe. No estimate available on wind speeds.

NEW HAMPSHIRE, North and Central

Strafford County

Dover

10 2100EST 0 0 Lightning

Lightning struck a tall pine tree and ignited a fire that burned several acres of woodland near the Dover/Madbury town line. The fire was discovered the afternoon of the eleventh. Due to remoteness of the area, firefighters had to hand carry pick axes and rakes into the area to fight the fire.

Grafton County

Campton to Plymouth

19 2000EST 0 0 Flood
20 0500EST

Up to 3 inches of rain fell in Grafton County causing flooding of small streams and some road washouts.

NEW HAMPSHIRE, Southern

Cheshire County

Surry

19 1900EST 0 0 Heavy Rain
20 0300EST

A cold front approaching from the west, and low pressure off the mid Atlantic coast, combined to bring a southerly flow of warm and humid air to southwest New Hampshire. Locally heavy rain fell in showers and thunderstorms, especially across higher elevations. Rainfall totals of 2 to 4 inches were common, with as much as 4.02 inches in Surry. Despite the heavy rainfall, recent dry weather helped keep small streams and rivers within their banks, and no flooding was reported.

NEW JERSEY, Northeast

Bergen County

Hackensack

08 1645EST 0 0 Hail (0.75)

As a severe thunderstorm moved northeast, it produced hail 3/4 of an inch in diameter just west of Hackensack.

Bergen County

Countywide

24 0900EST 0 0 Urban/Sml Stream Fld
1100EST

Essex County

Countywide

24 0900EST 0 0 Urban/Sml Stream Fld
1100EST

Hudson County

Countywide

24 0900EST 0 0 Urban/Sml Stream Fld
1100EST

Union County

Countywide

24 0900EST 0 0 Urban/Sml Stream Fld
1100EST

Bergen County

Countywide

24 1530EST 0 0 Urban/Sml Stream Fld
1730EST

Essex County

Countywide

24 1530EST 0 0 Urban/Sml Stream Fld
1730EST

Hudson County

Countywide

24 1530EST 0 0 Urban/Sml Stream Fld
1730EST

Union County

Countywide

24 1530EST 0 0 Urban/Sml Stream Fld
1730EST

Several lines of heavy showers and thunderstorms formed ahead of a slow moving cold front.

Storm Data and Unusual Weather Phenomena

May 1999

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

NEW JERSEY, Northeast

The two most significant lines moved across the region during the late morning and late afternoon. They produced torrential rain that caused flooding of many low-lying and poor drainage areas, including streets. The axis of heaviest rain fell from Eastern Union County northeast across Southeast Essex, Hudson, and Southern Bergen County. Two to three inches of rain fell along this axis. A spotter from Harrison in Hudson County measured 2.55 inches.

NEW JERSEY, South and Northwest

Burlington County

Wading River	01 04	0000EST 1300EST	0	0	0	0	Wild/Forest Fire
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A forest fire caused by an errant missile from the Warren Grove Bombing Range was exacerbated by the unseasonably dry weather during the second half of April as well as the very strong and gusty northeast winds on April 30th. The fire started around 115 p.m. EDT on April 30th in Bass River Township in Burlington County. It was fanned by gusty northeast winds of around 30 mph and moved into the Bass River State Forest in Bass River Township in Burlington County. The fire engulfed a swath of the forest that was seven miles long and three-quarters of a mile wide. In all 11,285 acres were burned. About two dozen people from the Timberline Lake Camping Resort and the Pilgrim Lake Campground in Bass River Township were evacuated. Firefighters halted the forward progress of the fire by lightning backfires on Burlington County Route 679. The fire was contained around 8 p.m. EDT on the 30th, but was not completely under control until 2 p.m. EDT on May 4th. The unseasonably dry second half of April and strong winds helped the fire spread quickly. The fire went from burning 750 acres at 4 p.m. EDT to 10,500 acres at 11 p.m. EDT. The smoke could be seen as far away as Trenton and Atlantic City. No injuries or property damage was reported. The peak wind gust at the Atlantic City International Airport in Pomona on April 30th was 34 mph.

NJZ001-007>010-

Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern

01 31	0000EST 2359EST	0	0	0	Unseasonably Dry
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Unseasonably dry weather returned to most of New Jersey during the month of May, especially in the southeast part of the state. On a county weighted average, only .9 of an inch of rain fell during the month of May in Cape May County. This is 26 percent of normal. Except for Gloucester and Hudson Counties, all other counties in the state received below rainfall. Deficits averaged around .7 of an inch below normal or about 75 percent of normal. Even when heavy rain fell during the month, it was not widespread. The heavy rain that fell on May 19th was localized in the western part of the state. The heavy rain that fell on the 24th was confined to locations right along the Delaware River near Philadelphia. The dry conditions exacerbated forest fires that occurred in the Pine Barrens during the start and end of the month.

Burlington County

Batsto to Crosswicks	19	0700EST 1600EST	0	0	Heavy Rain
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Cumberland

Countywide	19	0700EST 1000EST	0	0	Heavy Rain
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Gloucester County

Countywide	19	0700EST 1000EST	0	0	Heavy Rain
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Hunterdon County

Countywide	19	0700EST 1600EST	0	0	Heavy Rain
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Mercer County

Countywide	19	0700EST 1600EST	0	0	Heavy Rain
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Morris County

Chester to Woodstock	19	0700EST 1600EST	0	0	Heavy Rain
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Somerset County

Countywide	19	0700EST 1600EST	0	0	Heavy Rain
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Sussex County

Countywide	19	0700EST 1600EST	0	0	Heavy Rain
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Warren County

Countywide	19	0700EST 1600EST	0	0	Heavy Rain
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A slow moving cold front helped produce a couple of bands of very heavy rain across the western part of New Jersey on the 19th. Between 8 a.m. and 11 a.m. EDT the first band went through the state and affected most of the counties from Cumberland to Morris Counties westward. During the afternoon a second and heavier band of rain affected the western part of the state from Burlington

Storm Data and Unusual Weather Phenomena

May 1999

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

County northward. Most storm totals averaged between 1.5 and 2.0 inches and caused some poor drainage flooding. No stream flooding was reported.

Storm totals included 2.40 inches in Belvidere (Warren County), 2.10 inches in Somerville (Somerset County), 1.99 inches in West Deptford (Gloucester County), 1.98 inches in Readington Township (Hunterdon County), 1.82 inches in Pequannock (Morris County) and Millville (Cumberland County), 1.74 inches in Blackwells Mills (Somerset County), 1.59 inches in Newton (Sussex County), 1.54 inches in Montague (Sussex County) and White House Station (Hunterdon County), 1.51 inches in Seabrook (Cumberland County) and 1.40 inches in Atsion (Burlington County).

Salem County

Woodstown	24	0822EST			0	0			Hail (0.75)
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Gloucester County

Harrisonville	24	0830EST			0	0			Thunderstorm Wind (G50)
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Gloucester County

Mullica Hill to Almonesson	24	0832EST 0835EST			0	0			Hail (2.00)
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A severe thunderstorm dropped large hail and knocked down a few trees across northwestern Gloucester County. Hen egg size hail (2 inches in diameter) fell in Mullica Hill. Marble to walnut size hail fell in Deptford Township near the Deptford Mall. Penny size hail fell in Verga. A few trees were knocked down in Harrisonville (South Harrison Township).

Burlington County

Mt Laurel	24	0845EST			0	0	0		Lightning
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Lightning struck and knocked down a 13,000 volt power line near New Jersey State Route 73 in Mount Laurel. The downed line ignited an underground gas line and caused a fire. The fire forced the closure of two lanes of Route 73 as well as the nearby exit ramp of the New Jersey Turnpike. About 5,000 homes and businesses lost power in Maple Shade, Moorestown and Mount Laurel.

Camden County

Chews	24	0845EST			0	0			Hail (0.88)
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Nickel size hail fell in Chews Landing. Penny size hail fell in Fairview.

Burlington County

Moorestown	24	0855EST			0	0			Hail (0.75)
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Burlington County

Moorestown to Pemberton	24	0855EST 0910EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm dropped penny size hail in Moorestown. The combination of damaging winds and frequent lightning also took down power lines across the northwest part of the county.

Ocean County

Toms River	24	0930EST			0	0	0		Lightning
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Lightning struck a transformer in Toms River and caused 2,000 homes and businesses to lose power.

Ocean County

Brick Town	24	0940EST			0	0	0	0	Hail (0.75)
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Middlesex County

Countywide	24	0950EST			0	0	0		Lightning
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Monmouth

Countywide	24	0950EST			0	0	0		Lightning
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Thunderstorms with frequent lightning moved through Middlesex and Monmouth Counties during the late morning of the 24th. The frequent lightning caused power outages to 6,000 homes and businesses in Middlesex, Monmouth and Ocean Counties. Hardest hit in Middlesex County was Old Bridge. Also in Middlesex County, a house in Sayreville was struck by lightning. In Monmouth County, in Freehold, lightning struck a tree and caused minor property damage.

Camden County

Northwest Portion	24	1000EST 1200EST			0	0			Flash Flood
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Gloucester County

Northwest Portion	24	1000EST 1200EST			0	0			Flash Flood
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Salem County

West Portion	24	1000EST 1200EST			0	0			Flash Flood
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A pair of thunderstorms brought excessive rain that caused urban and stream flooding in western and northwestern Camden, Gloucester and Salem Counties. During the second thunderstorm around noon EDT widespread flooding occurred. Storm totals for the day exceeded three inches in many locations, most of which fell within three hours. In Salem County, small stream flooding

Storm Data and Unusual Weather Phenomena

May 1999

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

caused road closures, especially in Pennsville Township. In Gloucester County, in addition to the stream flooding, basements were flooded in Gibbstown, West Deptford and Woodbury. The Gloucester County Courthouse's basement filled with water. In Camden County, flooding forced the closure of New Jersey State Route 42. Flooding also forced the closure of a one mile stretch of United States Route 130 between the Collingswood Circle and Collins Avenue and also around the intersection with Admiral Wilson Boulevard.

Storm totals included 4.22 inches in Mount Ephraim (Camden County), 3.82 inches in Verga (Gloucester County), 3.45 inches in West Deptford (Gloucester County), 3.25 inches in Gibbstown (Gloucester County), 2.92 inches in Cherry Hill (Camden County) and 2.90 inches in Pennsauken (Camden County).

Salem County

Carneys Pt	24	1430EST 1435EST			0	0			Thunderstorm Wind (G52)
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A severe thunderstorm knocked down trees and power lines in Carneys Point and Pennsville Townships. In both townships trees fell on and damaged homes. Carneys Point though took the brunt of the storm with trees down on six separate blocks. Numerous trees were also knocked down within Dunn's Park. Connectiv Energy reported 3,300 homes and businesses lost power this day due to the series of thunderstorms. Most power was restored by 6 p.m. EDT.

Gloucester County

Swedesboro to New Sharon	24	1450EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm knocked down several trees and power lines in the western part of Gloucester County mainly to the west of the New Jersey Turnpike. Hardest hit were Westville Borough and Deptford Township. Connectiv Energy reported 3,300 homes and businesses lost power this day due to the series of thunderstorms. Most power was restored by 6 p.m. EDT. No injuries were reported.

Camden County

Brooklawn to Cherry Hill	24	1456EST 1510EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm knocked down several trees and power lines in the northwestern part of Camden County mainly west of the New Jersey Turnpike. Hardest hit were Haddonfield Township and Collingswood Borough. About 7,000 Public Service Electric and Gas Customers lost power in the region. All power was restored by the morning of the 25th. No injuries were reported.

Burlington County

Maple Shade	24	1510EST			0	0	0		Thunderstorm Wind (G50)
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A severe thunderstorm damaged the roof of a truck company in Maple Shade.

Burlington County

Burlington	24	1530EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm knocked down a few trees and power lines in western Burlington County in and around Burlington City. One vehicle within Burlington City was damaged by a fallen tree. About 7,000 Public Service Electric and Gas Customers lost power in the region. All power was restored by the morning of the 25th. No injuries were reported.

Mercer County

Hamilton Square	24	1545EST			0	0			Thunderstorm Wind (G50)
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Mercer County

Hightstown	24	1550EST			0	0	0		Lightning
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A severe thunderstorm knocked down a couple of trees in Hamilton Square. One tree fell through the roof of one house. Lightning from the same thunderstorm struck the ground near a Hightstown house and caused slight damage to the structure. About 7,000 Public Service Electric and Gas Customers lost power in the region. All power was restored by the morning of the 25th. No injuries were reported.

Gloucester County

Williamstown	24	1555EST			0	0			Hail (0.75)
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Atlantic County

Hammonton	24	1600EST			0	0			Hail (0.88)
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An unusually large hail storm caused considerable crop damage in Gloucester and western Atlantic Counties as well as adjacent Camden County. A one mile wide and six mile long swath of large hail fell from Ancora in Camden County through Hammonton in Atlantic County. Nearly all of the 350 acres of peach orchards in Atlantic County were damaged as were 25 acres of peas. Damage in Gloucester County was not concentrated in one area. This was the second severe thunderstorm with large hail to affect Gloucester County today. It was estimated that 5,700 acres on 54 farms in Atlantic, Camden and Gloucester Counties were damaged by the large hail. Sixty percent of the sweet corn and 40 percent of the strawberry crop were damaged in the three county area. The apple fruit was also pockmarked by the hail. Other crops damaged included asparagus, peppers, squash and sweet potatoes. Governor Whitman asked the USDA to declare the region a natural disaster area. Farmers were able to replant the damaged vegetable fields since the large hail occurred early in the growing season.

Storm Data and Unusual Weather Phenomena

May 1999

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

Camden County

Ancora to Elm 24 1600EST 0 0 **Hail (1.00)**

An unusually large hail storm caused considerable crop damage in southern Camden County as well as adjacent Atlantic and Gloucester Counties. A one mile wide and six mile long swath of large hail fell from Ancora in Camden County through Hammonton in Atlantic County. Three quarters of Camden County's vegetable crops were damaged. On one Winslow Township farm alone damage to the cucumber pickle crop was estimated at \$60,000. It was estimated that 5,700 acres on 54 farms in Atlantic, Camden and Gloucester Counties were damaged by the large hail. Sixty percent of the sweet corn and 40 percent of the strawberry crop were damaged in the three county area. The peach and apple fruit were pockmarked by the hail. Other crops damaged included asparagus, peas, peppers, squash and sweet potatoes. Governor Whitman asked the USDA to declare the region a natural disaster area. Farmers were able to replant the damaged vegetable fields since the large hail occurred early in the growing season.

Ocean County

Pt Pleasant 24 1655EST 0 0 **Thunderstorm Wind (G50)**

A severe thunderstorm knocked down a few trees in Point Pleasant Borough.

Mercer County

Central Portion 24 1700EST
1800EST 0 1 0 **Flash Flood**

A series of three thunderstorms brought too much heavy rain for area streams and rivers to handle. During the last thunderstorm at around 6 p.m. EDT, streams started to flood. The Assumpink Creek in Trenton, reached its 7 foot flood stage at 6 p.m. EDT, crested at 7.04 feet at 615 p.m. EDT and was back within bankfull at 7 p.m. EDT. Storm totals averaged between 2 and 3 inches and in addition to the stream flooding, caused considerable highway and poor drainage flooding. One person was injured in Trenton when Murray Street partially collapsed. The road was under renovation, part of it was eroded by the runoff and the vehicle's front tire became stuck in an eroded ditch. Storm totals included 2.56 inches in Trenton, 2.45 inches in Hightstown and 2.06 inches in West Windsor Township.

Morris County

1 SW Morristown 25 1130EST 0 0 0 **Wind**

Strong gusty west winds knocked down several tree branches in Morris Township and set off a chain reaction of events around 1230 p.m. EDT. The downed branches snapped several utility poles and left wires hanging along Mendham Road. One pole was completely knocked down. A car windshield was damaged by a fallen wire. About 2,900 homes and businesses lost power. All power was restored by 530 p.m. EDT. The peak wind gust at Newark International Airport was 40 mph.

NEW MEXICO, Central and North

NMZ026

Guadalupe Mountains Of Chaves County

01 1230MST 7 0 High Wind (G48)

High winds were blamed in a fatal travel trailer-church bus accident in southwest Chaves County that claimed 7 lives. State Police concluded that winds of 50-55 mph swept a truck pulling a travel trailer into the opposing lane and slicing into an on-coming bus filled with teenagers returning from a church retreat. One adult and 6 teenage girls died at the scene with other serious injuries reported.

M60VE, F16VE, F15VE, F15VE, F14VE, F13VE, F13VE

De Baca County

10 N Ft Sumner 01 1421MST
1424MST 0 0 **Hail (0.75)**

De Baca County

10 N Ft Sumner 01 1421MST 0 0 **Hail (0.75)**

Harding County

Yates 01 1506MST 0 0 **Funnel Cloud**

Deputies reported brief funnel near Yates.

Quay County

3 W Logan 01 1615MST 0 0 **Hail (0.75)**

Quay County

5 SE Logan 01 1620MST 0 0 **Hail (1.00)**

Quay County

Tucumcari 01 1630MST 0 0 **Hail (0.88)**

Two storms moved northeast over Quay County with hail up to 1.00 inch.

Quay County

4 W Logan 01 1615MST 0 0 **Hail (0.75)**

Quay County

Logan 01 1620MST 0 0 **Hail (1.00)**

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW MEXICO, Central and North									
Quay County									
Tucumcari	01	1630MST			0	0			Hail (0.88)
Cibola County									
Grants	03	1325MST			0	0			Thunderstorm Wind (G51)
Roosevelt County									
Pep	19	1406MST			0	0			Hail (0.88)
Roosevelt County									
Pep	19	1850MST 1856MST			0	0			Hail (0.88)
Roosevelt County									
2 N Lingo to 1 N Lingo	19	1920MST 1935MST			0	0			Hail (1.00)
A severe storm moved across southern Roosevelt County with nickel to quarter size hail.									
Roosevelt County									
1 N Lingo to 2 N Lingo	19	1930MST			0	0			Hail (1.00)
Roosevelt County									
3 NW Floyd	19	1945MST 2020MST			0	0			Hail (0.75)
Hail accumulated knee-deep in several places wiping out cotton and vegetable plants during a 35 minute period that also produced 3 inches of rain.									
De Baca County									
15 SE Ft Sumner	21	1700MST			0	0			Hail (1.00)
Chaves County									
Roswell	21	1857MST			0	0			Hail (1.75)
Chaves County									
8 NE Elkins	21	1901MST			0	0			Hail (0.75)
Chaves County									
1 S Roswell	21	1954MST			0	0			Hail (0.75)
Chaves County									
15 E Roswell	21	2135MST			0	0			Flash Flood
Several severe storms moved northeast across Chaves County during the evening with large hail and heavy rain. U.S. Highway 380 was closed for about two hours along a 2 mile stretch while water covered the roadway.									
Sandoval County									
36 SW San Ysidro	22	1251MST			0	0			Hail (1.00)
Guadalupe County									
Dilia	22	1420MST			0	0			Hail (0.75)
Bernalillo County									
Albuquerque	22	1452MST			0	0			Thunderstorm Wind (G54)
Chaves County									
Flying H Ranch	22	1515MST			0	0			Hail (1.00)
Union County									
3 NE Clayton	22	1625MST			0	0			Hail (1.00)
Chaves County									
15 E Dunken	22	1640MST			0	0	5K		Hail (2.75)
Large hail broke windshields on Highway 82 in southwest Chaves County.									
Guadalupe County									
6 W Santa Rosa	22	1815MST			0	0			Hail (0.75)
Valencia County									
3 NW Belen	24	1340MST 1345MST			0	0			Thunderstorm Wind (G52)
Valencia County									
Los Lunas	24	1340MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
NEW MEXICO, Central and North									
Valencia County									
Los Chavez to Tome	24	1413MST 1430MST			0	2	1.2M		Thunderstorm Wind (G70)
Valencia County									
6 S Los Lunas	24	1419MST 1435MST			0	0			Hail (1.00)
A severe storm which began near Alamo in northwest Socorro County swept northeast across central Valencia County with high winds and large hail. Heavy wind damage from sustained winds estimated near 80 mph overturned and destroyed about 15 mobile homes and caused damage to about 150 other homes with many small outbuildings and sheds blown down in the area from Los Chavez to Tome Hill between Los Lunas and Belen. Large hail also knocked out numerous windows and broke windshields. Only two relatively minor injuries were reported in the hardest hit area. Residents had 40-60 minutes advanced warning and school officials successfully evacuated numerous portable classroom buildings without incident or injury to students before high winds struck.									
Socorro County									
Bernardo	24	1545MST			0	0			Hail (0.75)
Torrance County									
5 W Encino	24	1615MST 1645MST			0	0	2K		Hail (2.00)
Large hail killed about 25 lambs west of Encino.									
Chaves County									
Roswell	24	1904MST			0	0			Thunderstorm Wind (G52)
Curry County									
Clovis	24	1940MST			0	0			Hail (0.75)
De Baca County									
5 S Ft Sumner	24	1940MST			0	0			Hail (0.75)
Roosevelt County									
Floyd	24	1955MST			0	0			Hail (1.00)
Curry County									
Cannon Afb	24	1959MST			0	0			Hail (0.75)
Roosevelt County									
Portales	24	2015MST			0	0			Hail (1.00)
Chaves County									
Roswell	24	2000MST			0	0			Hail (0.75)
Roosevelt County									
4 S Portales to 10 S Portales	24	2030MST 2110MST			0	0	40K		Thunderstorm Wind (G61)
High winds ripped across the southern Portales area deroofting several barns and downing power poles.									
Chaves County									
6 W Roswell	25	1313MST			0	0			Hail (0.75)
Chaves County									
9 SW Roswell to 10 SW Roswell	25	1426MST 1427MST	0.1	50	0	0			Tornado (F0)
Chaves County									
Hagerman	25	1500MST			0	0			Hail (1.75)
Chaves County									
Dexter	25	1504MST			0	0			Hail (0.75)
A slow moving severe storm which began over northwest Chaves County moved southeast with large hail that passed west of Roswell, but caught both Dexter and Hagerman. The storm also produced a few small funnels and a brief, small rope tornado that was reported by a NWS chase team.									
Sandoval County									
6 W Cuba	25	1319MST	0.1	50	0	0			Tornado (F0)
Deputies reported a rare tornado over the open mesa west of Cuba.									
Chaves County									
Roswell	25	1350MST 1410MST			0	0			Hail (0.75)
Observer reported 20 minutes of dime size hail.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
NEW MEXICO, Central and North										
De Baca County										
5 SE Yeso	25	1400MST 1405MST			0	0				Hail (1.00)
Quay County										
15 NE Logan	25	1617MST	0.1	50	0	0				Tornado (F0)
Deputies reported a brief, small tornado over the open rangeland northeast of Logan.										
San Miguel										
Rowe	25	1650MST 1655MST			0	0				Hail (1.00)
Quay County										
5 S San Jon	25	1706MST			0	0				Funnel Cloud
Brief funnel cloud reported by deputies.										
Quay County										
Glenrio	25	1732MST			0	0				Hail (0.75)
Roosevelt County										
Portales	25	1734MST			0	0				Hail (1.75)
Roosevelt County										
3 W Portales	25	1748MST			0	0				Hail (1.00)
Guadalupe County										
Dilia	25	1750MST			0	0				Hail (0.75)
De Baca County										
5 S Ft Sumner	25	1800MST			0	0				Hail (0.75)
Roosevelt County										
Dora	25	2050MST			0	0				Hail (1.00)
Roosevelt County										
Rogers	25	2110MST			0	0				Hail (2.50)
Roosevelt County										
Causey	25	2120MST			0	0				Hail (1.75)
Roosevelt County										
3 N Dora	25	2100MST			0	0				Funnel Cloud
Small funnels reported near Dora.										
Lincoln County										
Corona	26	1303MST			0	0				Hail (0.88)
Lincoln County										
Picacho	26	1330MST			0	0				Hail (0.75)
Quay County										
Tucumcari	26	1800MST 1815MST			0	0	40K			Thunderstorm Wind (G55)
High winds gusting 60-65 mph in Tucumcari ripped away parts of a motel roof.										
Mora County										
Ocate	28	1430MST			0	0				Hail (1.75)
Torrance County										
Mc Intosh	28	1435MST 1445MST			0	0				Hail (1.75)
Hail ranged from 1.00 inch to 1.75 inch in McIntosh during a 10 minute period.										
Mora County										
Gascon	28	1645MST			0	0				Hail (0.75)
Mora County										
Ocate	28	1900MST			0	0				Hail (0.75)
San Miguel										
Conchas Dam	29	1525MST			0	0				Hail (1.00)
Quay County										
15 E Ragland	29	1900MST			0	0				Hail (2.75)

Storm Data and Unusual Weather Phenomena

May 1999

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										
NMZ031			Southwest Desert Mimbres Basin							
	04	1300MST 1800MST				0	0			Dust Storm
			High winds to near 50 mph mph produced blowing dust which resulted in the closure of Interstate 10 from Las Cruces to Lordsburg. One weather related traffic accident was reported but there were no injuries.							
Dona Ana County										
Las Cruces	24	1534MST 1545MST				0	0			Hail (1.00)
Otero County										
2 S Tularosa	24	1537MST 1540MST				0	0			Hail (1.75)
Dona Ana County										
Picacho	24	1540MST 1550MST				0	0			Hail (1.75)
Otero County										
Tularosa	24	1550MST 1555MST				0	0			Hail (3.00)
Otero County										
5 N Orogrande	24	1700MST 1705MST				0	0			Hail (1.00)
NEW MEXICO, Southeast										
Eddy County										
Hope	22	1630MST				0	0			Hail (0.75)
			This supercell storm had an extremely deviant motion, moving almost straight south in western Eddy County. Much larger hail was indicated by radar west of Hope, but no other reports were received.							
Eddy County										
West Portion	22	1730MST 1900MST				0	0			Flash Flood
			The Hope supercell collided with a multicell cluster in the Guadalupe Mountains and caused minor flooding along State Highway 137.							
Eddy County										
Carlsbad	23	1830MST 1930MST				0	0			Flash Flood
			Heavy rains and small hail flooded several streets in Carlsbad. Two streets were barricaded.							
Lea County										
Northeast Portion	24	0600MST 0800MST				0	0			Flash Flood
			Heavy rains caused flooding on roads east of Crossroads. One family 12 miles east of Crossroads reported 7.6 inches of rain. Water was standing up to the bottom of their pickup truck door.							
Lea County										
5 W Jal	24	1920MST 2100MST				0	0			Flash Flood
			Flash flooding was reported across State Highway 128. This storm developed ahead of a line of storms and moved slowly eastward until it was hit by a westward moving outflow boundary. Thereafter, it moved little until it was swept up by the line of storms.							
Lea County										
7 N Tatum	24	1930MST				0	0	2K		Thunderstorm Wind
			Outflow winds from a young single-cell storm knocked down a transmission power pole.							
Lea County										
10 SW Tatum	24	2000MST				0	0	2K		Thunderstorm Wind
			Another transmission pole was downed as a bow formed in a developing line of storms.							
Lea County										
Hobbs	24	2000MST 2200MST				0	0			Flash Flood
			Street flooding was reported across much of Hobbs from a wide spot in a line of storms moving to the east.							
Lea County										
Eunice	24	2007MST				0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW MEXICO, Southeast									
Lea County									
5 NW Tatum	24	2010MST			0	0			Funnel Cloud
Seen by many spotters and chasers but according to seasoned chasers no touchdown occurred. This small supercell formed north of a developing line of storms. After the wall cloud dissipated the cell merged with the developing line. Storms that cross the Sacramento Mountains grew and eventually merged into a line by the time they crossed into Texas.									
Eddy County									
6 SSW Lakewood	26	1445MST			0	0			Hail (1.00)
Eddy County									
6 SSW Lakewood	26	1500MST			0	0			Hail (1.25)
Eddy County									
Loco Hills	26	1505MST			0	0			Hail (1.00)
Eddy County									
16 ENE Carlsbad	26	1533MST 1539MST			0	0			Hail (0.75)
Deep convection formed on the Sacramento Mountains and moved east, slowly intensifying. the initial severe reports came from a storm that was crossing the Pecos River in the Seven Rivers area. The Loco Hills storm formed to the northeast of the Seven Rivers storm and the final report came from a storm that formed southeast of the Seven rivers storm. Eventually a line of non-severe storms formed by the time the convection crossed into Lea County.									
Eddy County									
4 W Lakewood	28	2024MST			0	0			Hail (0.75)
Eddy County									
North Portion	28	2030MST 2200MST			0	0			Flash Flood
Several roads in and around Artesia were flooded.									
Eddy County									
7 SW Lakewood	28	2033MST			0	0			Hail (1.00)
Eddy County									
5 SW Carlsbad	28	2040MST			0	0			Hail (0.75)
Eddy County									
(Cnm)Carlsbad Arpt	28	2051MST			0	0			Thunderstorm Wind (G50)
Eddy County									
Central Portion	28	2100MST 2300MST			0	0			Flash Flood
Flash flooding was widespread in Carlsbad. Water was reported 1-2 feet deep in some parts of the city. On State Highway 137, 7-8 cars stalled in the high water.									
Lea County									
South Portion	28 29	2245MST 0030MST			0	0			Flash Flood
Several Roads around Jal were flooded. A large area of multicell storms moved eastward into the region from the Sacramento Mountains. Eventually an MCS developed that caused widespread flooding over Southeast New Mexico. The MCS continued into West Texas in the early morning hours of the 29th.									
Eddy County									
15 NW Carlsbad	29	1642MST 1644MST	0.4	70	0	0			Tornado (F0)
Brief dust whirl tornado reported by vacationing NWS Chaser.									
Eddy County									
Lakewood	29	1643MST 1650MST			0	0			Hail (0.75)
Hail falling ahead of tornado path.									
Eddy County									
10 NW Carlsbad	29	1700MST			0	0			Hail (1.00)
Eddy County									
5 NW Carlsbad	29	1715MST			0	0			Hail (1.25)
Eddy County									
Carlsbad	29	1735MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

This supercell storm first formed on the Sacramento Mountains and moved to the southeast into Eddy County. Strong mid-level rotation was indicated by doppler radar.

NEW YORK, Central

Delaware County

Downsville	24	1625EST			0	0			Hail (0.75)
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NEW YORK, Coastal

Putnam County

Countywide	19	1000EST 2000EST			0	0			Heavy Rain
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Westchester

Countywide	19	1000EST 2000EST			0	0			Heavy Rain
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Moisture "converged" north of New York City from a cold front moving slowly east across Pennsylvania and a low pressure system off the Mid-Atlantic Coast. This resulted in a band of heavy rain that fell mainly across Northern Westchester and Southern Putnam Counties. Rainfall amounts generally ranged from 2 to 3 inches, which caused some minor street flooding. In Westchester County, amounts ranged from 2.16 inches at Yorktown Heights to 2.25 inches at White Plains.

NEW YORK, East

Columbia County

Claverack to Copake	25	1150EST 1155EST			0	0	10K		Thunderstorm Wind
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Greene County

Catskill	25	1155EST			0	0	50K		Lightning
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A very unstable atmosphere combined with solar heating and a strong upper level disturbance to trigger a cluster of thunderstorms over Columbia and Greene counties around midday on May 25. This line of storms became locally severe producing strong gusty winds. The result of the wind was trees 2 1/2 feet in diameter blown down along Route 9H in Claverack, Columbia county. Trees were blown down in Ancram along County Route 7. In the town of the Copake, large trees were blown down along Pumpkin Hollow road and County Route 7. In Green County lightning struck Saint Patrick's church in Catskill setting the steeple on fire. The edifice on Bridge Street was heavily damaged but not destroyed.

NEW YORK, North

NONE REPORTED.

NEW YORK, West

NONE REPORTED.

NORTH CAROLINA, Central

Cumberland

Cedar Creek	07	1810EST			0	0			Hail (0.88)
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Sampson County

Roseboro	07	1820EST			0	0			Hail (0.88)
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Wilson County

Sims	07	1900EST			0	0			Hail (0.75)
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Sampson County

Salemberg	07	1905EST			0	0			Thunderstorm Wind (G50)
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Strong thunderstorms winds blew trees down on power lines.

Wayne County

Dudley	07	1915EST			0	0			Thunderstorm Wind (G50)
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Strong thunderstorm winds blew down several trees in Dudley.

Davidson County

Denton	13	1750EST			0	0			Hail (0.75)
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Dime size hail covered the ground.

Vance County

Watkins	13	1906EST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

May 1999

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</u>										
Hoke County										
Raeford	14	1440EST 1600EST			0	0				Flash Flood
Persistent heavy rain flooded many roads . The intersection of Rockfish Creek and US 401 went under water , effectively closing the main highway through town.										
<u>NORTH CAROLINA, Central Coastal</u>										
Duplin County										
Rose Hill	06	1705EST			0	0				Hail (0.75)
Dime size hail reported at Rose Hill										
Duplin County										
Kornegay	07	1740EST			0	0				Hail (1.75)
Golf ball size hail reported by spotter in Kornegay.										
Lenoir County										
Kinston	07	1749EST			0	0				Hail (1.00)
Quarter size hail reported by spotter in Kinston.										
Beaufort County										
Washington	23	1645EST			0	0				Hail (1.00)
Quarter size hail reported in Washington.										
Washington										
8 E Albemarle Beach to Albemarle Beach	24	1545EST			0	0				Waterspout
A waterspout over Albemarle Sound moved on shore and destroyed a shed near the Highway 32 bridge.										
Beaufort County										
Washington	24	1845EST			0	0				Thunderstorm Wind (G55)
911 Center reported trees blown down in Washington.										
<u>NORTH CAROLINA, Extreme Southwest</u>										
Clay County										
Hayesville	06	0330EST			0	0		5K		Thunderstorm Wind
Trees down.										
Cherokee County										
Murphy	07	1405EST			0	0				Hail (1.75)
Cherokee County										
Countywide	07	1415EST 1430EST			0	0	15K	7K		Thunderstorm Wind
Trees and power lines down.										
Cherokee County										
Andrews	07	1800EST 2030EST			0	0				Urban/Sml Stream Fld
Many roads, especially in low-lying areas, had minor flooding problems.										
<u>NORTH CAROLINA, North Coastal</u>										
Chowan County										
Edenton	24	1400EST			0	0	2K			Thunderstorm Wind
Trees and power lines down.										
Pasquotank										
Elizabeth City	24	1700EST			0	0	2K			Thunderstorm Wind
Trees and power lines down.										
Camden County										
Camden	24	1715EST			0	0	3K			Thunderstorm Wind
Trees and power lines down. Tree down on a house.										
<u>NORTH CAROLINA, Northwest and North Central</u>										
Ashe County										
4 NW Lansing	07	1600EST			0	0				Hail (0.75)
Yadkin County										
5 NW Boonville	07	1800EST			0	0				Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>NORTH CAROLINA, Northwest and North Central</u>									
Stokes County									
Lawsonville	07	1855EST			0	0			Hail (1.00)
Stokes County									
3.5 NE Lawsonville	07	1914EST			0	0			Hail (1.00)
Thunderstorms during the late afternoon and early evening of the 7th produced hail up to 1 inch in diameter.									
Watauga County									
Boone	13	1330EST			0	0	60K		Lightning
Lightning during the afternoon of the 13th struck a barn, causing a fire which destroyed the barn, a tractor and other farm equipment.									
Watauga County									
Blowing Rock	18	1935EST			0	0	20K		Lightning
Lightning during the afternoon of the 18th struck a house in Blowing Rock, blowing a hole in the roof, breaking water pipes, and causing damage to the rafters.									
<u>NORTH CAROLINA, South Coastal</u>									
New Hanover									
Carolina Beach to Wilmington	01 02	1220EST 0700EST			0	0			Flash Flood
Brunswick County									
Southport to Shalotte	01 02	1700EST 0700EST			0	0			Flash Flood
A late-season nor'easter caused high wind, rough seas, heavy rains well inland, and temperatures 20 degrees below normal. A low pressure system formed off the SC coast and developed for 4 days, moving out to sea on 5/2. Over the coastal waters, gale warnings for wind at least 34 knots were up for 72 hours, and storm warnings for wind at least 47 knots were up for 44 hours as winds gusted around 60 kts and seas reached 17 feet. Along the coast wind gusts reached 50 mph. A small skiff boat overturned at the mouth of the Cape fear River on 4/29, resulted in a death. With surf reaching 8 feet and a full moon spring tide on 4/30, there was erosion mainly to east-facing beaches, and tides 2 feet above normal caused minor coastal flooding. Rainfall through 4/30 totalled 2 to 6 inches across Northeast SC and Southeast NC, with the heaviest rain from near Cape Romain west across Georgetown, Williamsburg, Clarendon, Sumpter, Lee and Darlington Counties. As the system moved slowly north, heavier rains came ashore at Cape Fear on the 4/30 and especially 5/1, when around 7 inches fell across much of New Hanover, Brunswick, and Eastern Columbus Counties, raising the storm total to 10-13 inches in parts of those counties, resulting in widespread flooding and many road closures. The lake at Carolina beach flooded-out many residents of the area.									
Columbus County									
Delco to Chadbourn	01	1800EST 2200EST			0	0			Flash Flood
Pender County									
Scotts Hill to Burgaw	02	0400EST 0700EST			0	0			Flash Flood
Robeson County									
Fairmont	06	1540EST 1545EST			0	0			Hail (1.75)
Along with large hail, strong thunderstorm winds downed trees in the Fairmont area.									
Columbus County									
Chadbourn to Tabor City	06	1645EST 1650EST			0	0			Hail (0.75)
Along with hail, thunderstorm winds downed trees in the Tabor City area.									
Columbus County									
Bolton	06	1730EST 1735EST			0	0			Thunderstorm Wind (G60)
Thunderstorm winds downed trees and power lines									
Bladen County									
Tobemory	07	1720EST 1725EST			0	0			Hail (1.00)
Robeson County									
1 W Fairmont	13	1825EST 1830EST			0	0			Hail (0.88)
Columbus County									
Cherry Grove	14	1230EST 1235EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

NORTH CAROLINA, South Coastal

Columbus County

Tabor City to 3 NW Tabor City	14	1330EST 1350EST			0	0	25K		Hail (2.00)
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A slow moving thunderstorm dropped large hail in Tabor City and in the Vinegar Hill community. Windshields were broken, and heavy rains caused extensive ponding on roadways.

Robeson County

Fairmont	14	1430EST 1435EST			0	0			Hail (0.88)
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Columbus County

Riegelwood	14	1440EST 1450EST			0	0			Hail (0.75)
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Brunswick County

5 E Supply	14	1524EST 1530EST			0	0			Hail (1.75)
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Brunswick County

Bolivia	14	1543EST 1550EST			0	0			Hail (1.75)
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Brunswick County

Long Beach	14	1559EST 1603EST			0	0			Hail (0.88)
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Brunswick County

Southport	14	1645EST 1650EST			0	0			Hail (1.75)
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A line of thunderstorms moved slowly across Brunswick County, dropping golf ball size hail. No reports of damage or injuries.

NORTH CAROLINA, Southwest

Graham County

Robbinsville to Countywide	05 06	2330EST 0000EST			0	0			Lightning
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Macon County

Highlands	06	0100EST			0	0			Hail (1.00)
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Swain County

8 W Bryson City to 8 S Bryson City	06	0115EST 0129EST			0	0			Thunderstorm Wind (G50)
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Jackson County

Balsam	06	0145EST			0	0			Thunderstorm Wind (G60)
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Haywood County

Waynesville	06	0155EST			0	0			Hail (0.88)
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Haywood County

Waynesville	06	0155EST			0	0			Thunderstorm Wind (G52)
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Macon County

Cowee	06	0400EST			0	0	10K		Thunderstorm Wind (G50)
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Jackson County

Cullowhee to 3 E Sylva	06	0415EST 0425EST			0	0			Hail (0.75)
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Jackson County

Cullowhee to 3 E Sylva	06	0415EST 0425EST			0	0	50K		Thunderstorm Wind (G60)
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Jackson County

Savannah to Gay	06	0415EST 0429EST			0	0			Thunderstorm Wind (G60)
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Buncombe County

Asheville	06	0502EST 0510EST			0	0			Hail (0.75)
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Buncombe County

Asheville	06	0502EST 0510EST	2	440	0	0	250K		Tornado (F1)
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Storm Data and Unusual Weather Phenomena

May 1999

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>									
Buncombe County									
Swannanoa	06	0528EST			0	0			Thunderstorm Wind (G50)
Two lines of strong and severe thunderstorms moved across the mountains during the early morning hours, causing a considerable amount of wind damage. One severe thunderstorm spawned a weak tornado in the city of Asheville around sunrise. Along the 2 mile damage path, 500 trees were downed, many on homes and vehicles. A garage was destroyed, roofs were blown partially off a couple buildings, a school roof was damaged, and some condos were condemned from tree damage. Elsewhere in the mountains, damaging thunderstorm winds of nearly 70 mph at times blew numerous trees down, many on houses and cars. A few thousand people were left without power. In addition to damaging wind, a few reports of dime to quarter size hail were received. Intense lightning in Robbinsville knocked out the Graham county 911 system for the entire day, and wind gusts near 55 mph blew numerous small limbs onto power lines which resulted in additional power outages across the county.									
Graham County									
Robbinsville	07	1436EST			0	0			Hail (0.75)
Swain County									
1 SE Wesser	07	1505EST			0	0			Thunderstorm Wind (G50)
Swain County									
1 W Bryson City	07	1509EST			0	0			Hail (0.75)
Buncombe County									
2 E Leicester	07	1640EST			0	0			Thunderstorm Wind (G50)
Jackson County									
Balsam	07	1650EST			0	0			Thunderstorm Wind (G50)
Buncombe County									
Asheville	07	1822EST			0	0			Hail (0.88)
Buncombe County									
Asheville	07	1826EST			0	0			Hail (1.25)
Buncombe County									
5 E Asheville	07	1829EST			0	0			Hail (1.25)
Caldwell County									
10 NE Patterson	07	1910EST			0	0			Thunderstorm Wind (G50)
Avery County									
Roaring Creek	07	1930EST			0	0	10K		Thunderstorm Wind (G60)
Macon County									
Otto	07	1934EST			0	0			Hail (0.75)
Strong to severe thunderstorms developed for the second day in a row across the mountains and produced more wind damage and large hail. Dime to half dollar size hail was reported. Winds between 58 and 69 mph downed many trees, some across roads. A particularly violent wind gust in Roaring Creek smashed patio furniture, damaged the roof of a home, blew out vents from underpinning, and cracked blocks on the corner of a building. In addition, a mudslide occurred on old US Highway 64, six miles west of Franklin in Macon county.									
Henderson County									
Dana	13	1645EST			0	0			Hail (0.88)
Henderson County									
Hendersonville	13	1648EST			0	0	20K		Thunderstorm Wind (G50)
Henderson County									
Mills River	13	1648EST			0	0			Hail (1.75)
Union County									
Waxhaw	13	1725EST			0	0			Hail (0.75)
Union County									
2.5 S Wingate	13	1725EST			0	0			Hail (1.75)
Union County									
2.5 S Wingate	13	1725EST			0	0			Thunderstorm Wind (G74)
Avery County									
Newland	13	1905EST			0	0			Hail (1.00)
Scattered thunderstorms developed during the afternoon and evening of the 13th and a few pulsed to severe levels. In Henderson county, golf ball size hail covered Highway 280 and a large tree fell onto a house in Hendersonville, causing significant damage to the house and outdoor furniture. Dime to golf ball size hail was reported in Union county along with a measured wind gust to 85 mph. Quarter size hail was reported late in the evening in Avery county. There was a public report of a sighting of a very weak tornado that									

Storm Data and Unusual Weather Phenomena

May 1999

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>									
Sargent County									
4 SW Cogswell	09	1620CST			0	0			Hail (0.75)
Sargent County									
2 S Rutland	09	1640CST			0	0			Hail (0.75)
Sargent County									
2 SW Rutland	09	1700CST			0	0			Hail (0.75)
Richland County									
1 SW Lidgerwood	09	1745CST			0	0			Hail (0.75)
<u>OHIO, East</u>									
NONE REPORTED.									
<u>OHIO, North</u>									
OHZ007>011- Ottawa - Sandusky - Erie - Lorain - Cuyahoga - Hancock - Seneca - Huron - Medina - Wyandot -									
06		0900EST 1700EST			0	0	328K	50K	High Wind (G52)
Trees, large limbs, power lines and signs were downed. In Bettsville (Seneca County), the roof of a business was damaged and roofing material was blown onto vehicles in the parking lot. In Huron County, winds that reached 50 to 60 miles per hour ripped through the Celeryville area Muck farms pulling plants right out of the ground.									
Wood County									
Rossford	17	1722EST			0	0			Thunderstorm Wind (G52)
Lucas County									
Countywide	17	1900EST 2000EST			0	0	30K		Thunderstorm Wind (G59)
Trees and large branches were downed, especially near Berkey. A 68 mile per hour wind gust was reported at Toledo Express Airport.									
Lucas County									
Berkey	17	1914EST			0	0			Hail (0.75)
Wood County									
Perrysburg	17	2008EST			0	0			Hail (0.88)
Lucas County									
Waterville	17	2016EST			0	0			Hail (1.75)
Lucas County									
Richfield Center	17	2050EST			0	0			Hail (0.75)
Large hail fell at Frankfort, four miles southwest of Richfield Center.									
Lucas County									
Countywide	17	2100EST 2130EST			0	0	5K		Thunderstorm Wind
Trees were downed.									
Lucas County									
Neapolis	17	2100EST			0	0	150K		Lightning
Lightning struck a house on Main Street and the resulting fire destroyed the house. Seven other houses in the area were also struck by lightning, and all sustained at least minor damage.									
Wood County									
Perrysburg	17	2115EST			0	0	3K		Thunderstorm Wind
Trees were downed.									
Mahoning County									
Countywide	18	1320EST			0	0	25K		Thunderstorm Wind
Trees were downed, at least one of which fell on a house and damaged the roof.									
Trumbull County									
Countywide	18	1430EST 1500EST			0	0	20K		Thunderstorm Wind
Trees and power lines were downed.									

Storm Data and Unusual Weather Phenomena

May 1999

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

Hancock County

Arcadia	30	2145EST			0	0	50K		Thunderstorm Wind
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A barn was destroyed in the northeast part of the county near the Wood County line.

OHIO, Northwest

Paulding County

Paulding	17	1630EST			0	0			Thunderstorm Wind (G70)
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Trees reported blown down. Paulding County sheriff reported 70 mph thunderstorm wind gust.

Putnam County

5 NW Continental	17	1725EST			0	0	70K		Thunderstorm Wind
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County EMA reported roof torn off of building and an old building destroyed by straight-line winds.

Paulding County

Oakwood	17	1835EST			0	0			Hail (1.50)
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NWS spotter reported 1 1/2 inch diameter hail in Oakwood.

Henry County

Countywide	17	1929EST			0	0	20K		Thunderstorm Wind
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Trees and power lines reported down countywide.

Defiance County

Ayersville	17	2016EST			0	0	10K		Thunderstorm Wind
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Utility poles and power lines blown down.

Defiance County

Defiance	17	2016EST			0	0	10K		Thunderstorm Wind
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Power lines blown down.

Fulton County

Swanton	17	2030EST			0	0			Hail (0.75)
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Three-quarter inch hail reported by NWS spotter at Swanton.

Henry County

3 W Ridgeville Corners	17	2120EST			0	0			Hail (0.75)
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A moist low-level atmosphere and an upper-level trough over the western Great Lakes combined to produce very unstable conditions across the region. Convection formed along a lake breeze boundary southeast of Lake Michigan. With the numerous outflow boundaries from earlier convection the thunderstorms continued to move east throughout the evening.

OHIO, Southeast

OHZ083>087

Jackson - Vinton - Meigs - Gallia - Lawrence

01	0000EST				0	0			Drought
31	2300EST								

After a dry April, drought conditions resurfaced again during May, after being alleviated during the winter months., Total rains during May were only 1.25 to 2.5 inches. The community of Jackson had only 1.3 inches for the entire month, McArthur had 1.5 inches, while South Point measured 1.9 inches.

Jackson County

Jackson	18	1300EST			0	0			Hail (0.88)
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Athens County

Stewart	18	1445EST			0	0			Hail (0.88)
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Washington

Bartlett	18	1450EST			0	0	5K		Thunderstorm Wind
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The tops of trees were blown down onto Route 550. One fallen tree damaged a vehicle.

OHIO, Southwest

Butler County

Oxford to Middletown	06	1205EST 1215EST			0	0	10K		Thunderstorm Wind (G50)
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Large tree branches were broken off, landing on several houses and cars. Several trees were downed.

Hamilton County

Hartwell to Fernald	06	1220EST 1230EST			0	0	8K		Thunderstorm Wind (G57)
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Several trees were knocked down landing on houses and roads, and a power plant measured a 66 mph gust. Large limbs had fallen on a parked car.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OHIO, Southwest									
Clermont County									
Amelia	06	1240EST 1250EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down.							
Montgomery									
Dayton Cox Intl Arpt	06	1243EST 1245EST			0	0	1K		Thunderstorm Wind (G52)
		Measured gust to 60 mph. A roof was partially torn off of a utility building.							
Warren County									
Franklin to Springboro	06	1250EST 1305EST			0	1	13K		Thunderstorm Wind (G52)
		Strong winds took a chair into the air, striking a person. The metal roof from a car wash in Springboro was torn off. Also, scaffolding and several trees were knocked down.							
Greene County									
6 NW Xenia	06	1300EST 1310EST			0	0	3K		Thunderstorm Wind (G50)
		Large tree limbs and power lines were reported down.							
Logan County									
Mc Morran	06	1305EST 1315EST			0	0	4K		Thunderstorm Wind (G52)
		Measured gust to 60 mph. Several trees down across county.							
Brown County									
Countywide	06	1315EST 1330EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down.							
Shelby County									
Sidney	06	1315EST 1325EST			0	0	5K		Thunderstorm Wind (G55)
		Large trees were blown over as well as a semitrailer on Interstates 75 and 274.							
Clinton County									
Wilmington	06	1320EST 1330EST			0	0	4K		Thunderstorm Wind (G50)
		Four light poles on a baseball field were blown down.							
Highland County									
Buford to Highland	06	1320EST 1335EST			0	0	2K		Thunderstorm Wind (G50)
		A tree was blown down across a road, also large limbs were reported down.							
Adams County									
Countywide	06	1330EST 1345EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down.							
Champaign									
Countywide	06	1330EST 1345EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were blown down.							
Clark County									
Selma	06	1330EST 1345EST			0	0	5K		Thunderstorm Wind (G50)
		Trees were blown down across road. A truck was damaged by a falling tree.							
Madison County									
London	06	1330EST 1340EST			0	0	3K		Thunderstorm Wind (G55)
		Measured gust to 63 mph. Several trees down.							
Fayette County									
Washington Court Hou	06	1340EST 1350EST			0	0			Thunderstorm Wind (G50)
		Measured gust to 58 mph.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>OHIO, Southwest</u>									
Pike County									
Countywide	06	1345EST 1400EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were blown down.							
Delaware County									
Countywide	06	1355EST 1405EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were blown down.							
Ross County									
Countywide	06	1400EST 1415EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were blown down.							
Pickaway County									
Commercial Pt to 5 SW Circleville	06	1410EST 1420EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were blown down.							
Franklin County									
Countywide	06	1420EST 1440EST			0	0	14K		Thunderstorm Wind (G56)
		There was an estimated gust to 65 mph, several reports of roof damage to a neighborhood in Hilliard, and trees blown down countywide.							
Fairfield County									
10 SE Lancaster	06	1445EST 1455EST			0	0	2K		Thunderstorm Wind (G50)
		A roof was blown off of a greenhouse.							
Hocking County									
Rockbridge to Logan	06	1500EST 1515EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down.							
Licking County									
Newark to Johnstown	06	1505EST 1520EST			0	0	4K		Thunderstorm Wind (G50)
		Large trees were blown down as well as power lines.							
Preble County									
Eaton	17	2035EST			0	0	6K		Thunderstorm Wind (G52)
		A gust of 60 mph was measured by a trained spotter with wind equipment. Also, several trees were knocked down in Camden.							
Butler County									
Oxford	17	2045EST 2050EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees and power lines were knocked down.							
Darke County									
Pittsburg	17	2045EST 2050EST			0	0	5K		Thunderstorm Wind (G50)
		Several trees were blown down on State Route 49.							
Hamilton County									
3 SE Harrison	17	2105EST 2110EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down in the western part of the county.							
<u>OKLAHOMA, Eastern</u>									
OKZ064>066 Creek - Okfuskee - Okmulgee									
	01 11	0000CST 0800CST			0	0			Flood
		The Deep Fork River at Beggs started the month of May above its flood stage of 18 feet following a crest of 27.1 feet on April 29. The river remained above flood stage until 900 AM CDT on May 11.							
Creek County									
Shamrock	03	2122CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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

Creek County

**3 W Milfay to
1 NW Milfay** **03** **2146CST
2150CST** **2** **150** **0** **0** **2K** **Tornado (F3)**

This tornado started out in central Lincoln County, travelling northeast and passing through the eastern Lincoln County town of Stroud. This tornado caused considerable damage in Stroud, most notably to the Tanger Factory Outlet Center. For more information on the Lincoln County portion of this tornado, refer to the Tornado entry for the Central and Western Oklahoma Storm Data compiled by the National Weather Service Office in Norman. This tornado continued on into Creek County, travelling on the ground for two miles before lifting just northwest of Milfay. This tornado reached F3 strength at its peak in Lincoln County but had started weakening by the time it entered Creek County. The path length listed with this Tornado entry only incorporates that part of the tornado path in Creek County. Fortunately in Creek County, the tornado travelled through an unpopulated rural area and was only responsible for tree damage.

Creek County

Sapulpa **03** **2202CST** **0** **0** **Hail (0.75)**

Okmulgee County

Dewar **03** **2230CST** **0** **0** **Hail (0.75)**

Osage County

10 WNW Hominy **03** **2235CST** **0** **0** **0.50K** **Thunderstorm Wind**

A power pole was blown down between Hominy and Fairfax.

Osage County

10 NW Hominy **03** **2245CST** **0** **0** **0.50K** **Thunderstorm Wind**

A power pole was blown down.

Creek County

**2 WSW Sapulpa to
Sapulpa** **03** **2258CST
2300CST** **2** **50** **0** **0** **40K** **Tornado (F0)**

An F0 tornado moved through Sapulpa's central business district on Dewey Street, causing mostly cosmetic damage in the form of broken storefront windows and glass on the sidewalk.

Creek County

**2 NE Sapulpa to
6 NE Sapulpa** **03** **2308CST
2318CST** **5.5** **150** **0** **0** **6.5M** **Tornado (F1)**

The same system that earlier caused a destructive tornado in Stroud and a less destructive tornado in southwest Creek County produced an F1 tornado which first touched down in the north side of Sapulpa near OK Hwy 97 and Interstate 44. The tornado then skipped through an industrial area before moving across I-44. From there, the tornado travelled northeast parallel to and just south of the New Sapulpa Road (OK Hwy 66), taking out a string of homes and businesses before eventually reaching Tulsa County. This tornado tracked a total of 7 miles, 5.5 miles of which was in Creek County. The Hilton Mobile Home Park was especially hard-hit, where about 15 mobile homes were damaged or destroyed. Twenty-four residents of the mobile home park were treated on the scene for minor injuries, but none required a hospital visit. Needless to say, this tornado also blew down numerous power lines and trees. All in all, along its path in Creek County, this tornado heavily damaged 12 homes and caused light to moderate damage to about 150 others. Twenty mobile homes were heavily damaged, and 25 businesses were damaged. Total property damage in Creek County is estimated at \$5.5 million. For more information on this tornado, see the Tulsa County Tornado entry for information on the last 1.5 miles of its track.

Mayes County

Adair **03** **2315CST** **0** **0** **Hail (0.75)**

Tulsa County

Tulsa **03** **2318CST
2321CST** **1.5** **150** **0** **0** **2M** **Tornado (F1)**

A tornado that originally touched down on the north side of Sapulpa traveled northeast, eventually reaching Tulsa County. This tornado caused considerable damage in several neighborhoods on the southwest side of the city of Tulsa. The majority of the damage was confined to an area roughly bounded on the east by 33rd West Avenue, on the west by 41st West Avenue, on the north by Union Avenue, and on the south by 65th Street South. The most publicized damage occurred at the Carbondale Assembly of God Church (2135 West 51st Street), where the second story of the building was reduced to rubble. Remington Elementary School (2524 W. 53rd Street) was damaged to the point where students had to finish the last two weeks of class elsewhere. The West Regional Library (2224 W. 51st Street) lost about one-third of its roof, and Fire Station #26 sustained minor damage. Four industrial businesses sustained damage, and 70 homes were damaged by the tornado. Damage in Tulsa County is estimated at \$2 million. For more information on the Creek County portion of this tornado, see the Tornado entry for Creek County. The combined path length through Creek and Tulsa Counties is 7 miles.

Okfuskee County

Pharoah **03** **2325CST** **0** **0** **Thunderstorm Wind (G52)**

Okmulgee County

3 W Henryetta **03** **2327CST** **0** **0** **0.50K** **Thunderstorm Wind**

A tree and several tree limbs were blown down.

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					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Rogers County									
6 NE Bushyhead	03 04	2330CST 0030CST			0	0			Urban/Sml Stream Fld
There was street flooding in Chelsea. Water threatened businesses on Main Street in Chelsea.									
Osage County									
2 N Hominy	03	2344CST			0	0			Thunderstorm Wind (G52)
Pawnee County									
Maramec	03 04	2355CST 0005CST			0	0			Hail (1.00)
Tulsa County									
Tulsa Intl Arpt	04	0000CST 2359CST			0	0			Heavy Rain
The daily rainfall total for May 4 of 2.30 inches was the most rainfall ever recorded on May 4 and is therefore a new record daily rainfall for the date.									
Tulsa County									
Tulsa	04	0002CST			0	0			Hail (0.75)
Location: I-44 at the Arkansas River									
Pushmataha									
Dunbar	04	0030CST			0	0			Hail (0.75)
Pushmataha									
Dunbar	04	0030CST			0	0	0.10K		Thunderstorm Wind
Many tree limbs were blown down.									
Osage County									
4 W Hominy	04	0032CST			0	0			Hail (0.75)
Wagoner County									
Coweta	04	0045CST			0	0	2K		Thunderstorm Wind
Numerous trees were blown down.									
Muskogee County									
1 S Boynton	04	0059CST	0.5	50	0	0			Tornado (F0)
There was a brief tornado touchdown south of Boynton.									
Cherokee County									
2.5 WNW Hulbert to 3 N Hulbert	04	0100CST 0101CST	3	100	0	0	35K		Tornado (F1)
An F1 tornado cut a swath through Cherokee County to the north and west of Hulbert. One mile north of OK Hwy 51 at a point two miles west of Hulbert, a house trailer was damaged, and trees and power lines were blown down. Three miles north of Hulbert near Blackbird Hill, numerous trees were uprooted, several sheds were destroyed, a mobile home was damaged, and roofs were torn off of several barns.									
Osage County									
11 SW Skiatook	04	0105CST			0	0	0.10K		Thunderstorm Wind
Two large tree limbs were blown down at the Zink Ranch.									
Okfuskee County									
Weleetka	04	0130CST			0	0	0.10K		Thunderstorm Wind
Several tree limbs were blown down.									
Okmulgee County									
Henryetta to Dewar	04	0130CST 0300CST			0	0	10K		Flash Flood
Several roads in Dewar and Henryetta were closed between 230 AM and 500 AM CDT. Coal Creek overflowed its banks and closed OK Hwy 266 for a time around 1000 to 1030 AM CDT. Seven houses near the tennis courts on Lake Road had to be evacuated. A home on South Fourt in Henryetta was flooded.									
Okmulgee County									
1 W Henryetta	04	0140CST			0	0	2K		Thunderstorm Wind
A newspaper clipping showed a picture of a large tree that fell on a home just west of Henryetta. Otherwise, numerous tree limbs were blown down.									
Okfuskee County									
2 N Clearview	04	0145CST			0	0	10K		Thunderstorm Wind
A barn was about 75 percent destroyed.									

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Cherokee County									
Eldon	04	0200CST			0	0	1K		Thunderstorm Wind
			Several large trees had their tops twisted out.						
Cherokee County									
1 E Tahlequah	04	0200CST			0	0	5K		Lightning
			Lightning blew shingles from a house roof and caused a fire in the home's attic. The time of this event is a gross estimate.						
Wagoner County									
1 SE Wagoner	04	0207CST			0	0			Hail (0.88)
Wagoner County									
Wagoner	04	0207CST			0	0	1K		Thunderstorm Wind
			A sheriff's deputy on patrol on US Hwy 69 near Baker's Catfish Restaurant had his car spun completely around by strong winds. The deputy reported that the car nearly turned over.						
Adair County									
4 NE Proctor	04	0211CST	0.5	50	0	0	1K		Tornado (F1)
			A brief F1 tornado touchdown caused many trees to be uprooted and broken.						
Adair County									
5 N Proctor	04	0215CST			0	0	0.50K		Thunderstorm Wind
			Numerous large tree limbs were blown down.						
Adair County									
Westville	04	0245CST			0	0	2K		Thunderstorm Wind
			There was a swath of tree damage stretching across Adair County from roughly Eldon in Cherokee County to Westville in Adair County.						
Osage County									
4 N Hominy	04	0630CST	0.5	50	0	0			Tornado (F0)
			An amateur radio spotter reported a brief tornado touchdown north of Hominy.						
Latimer County									
2 S Bengal	04	0645CST			0	0	0.10K		Thunderstorm Wind
			A large tree was blown over.						
Le Flore County									
1 S Panama	04	0730CST			0	0			Hail (0.75)
Osage County									
5 W Hominy	04	0812CST			0	0			Thunderstorm Wind (G52)
Osage County									
5 W Hominy	04	0816CST			0	0			Hail (0.75)
Osage County									
1 NE Pawhuska	04	0840CST			0	0	125K		Thunderstorm Wind
			Roofs were blown off houses, windows were knocked out of buildings, four trailers were turned over, porches were knocked off houses, and numerous trees were blown down. Some of the worst damage occurred in Indian Camp.						
Washington									
1 S Copan	04	0900CST			0	0	135K		Thunderstorm Wind
			Significant damage was reported at several farms and residences on the south side of Copan. There were a total of four houses that received chimney and roof damage. Three barns were either heavily damaged or destroyed. A well house was destroyed, and a well's utility pole was broken. Several outbuildings and sheds were either heavily damaged or destroyed, and numerous trees were snapped or uprooted. One tree fell on a pasture fence, destroying it. A travel trailer and pop-up trailer at separate residences were destroyed.						
Pushmataha									
13 W Clayton	04	0950CST	0.5	50	0	0	0.50K		Tornado (F1)
			An F1 tornado touched down briefly near the Pushmataha/Pittsburg County line off of OK Hwy 43 in an unpopulated area 13 miles west of Clayton. After causing some tree damage, the tornado crossed briefly in Pittsburg County before lifting.						
Pittsburg County									
18 S Hartshorne	04	0951CST	0.5	50	0	0	0.50K		Tornado (F1)
			An F1 tornado touched down briefly near the Pittsburg/Pushmataha County line along OK Hwy 43. The tornado crossed the county line in an unpopulated area, causing only tree damage.						
Pittsburg County									
7 S Hartshorne	04	1000CST			0	0			Hail (0.75)
Tulsa County									
Sand Spgs	04	1015CST			0	0			Hail (0.75)

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
OKLAHOMA, Eastern										
Choctaw County										
5 N Messer	04	1020CST			0	0	0.10K		Thunderstorm Wind	Several large tree limbs were blown down.
Latimer County										
4 N Yanush	04	1020CST			0	0	0.50K		Thunderstorm Wind	There was tree damage north of Yanush.
Tulsa County										
Sperry	04	1025CST			0	0			Hail (0.75)	
Creek County										
5 NW Depew	04	1030CST			0	0			Hail (1.00)	
Creek County										
5 NW Depew	04	1030CST			0	0			Thunderstorm Wind (G61)	
Latimer County										
2 S Panola to 7 N Red Oak	04	1030CST 1049CST	13	100	0	0	40K		Tornado (F1)	An F1 tornado touched down south of Panola and moved northeast to the Latimer-Haskell county line. This tornado continued to a point in extreme southern Haskell County about 2 miles south of Lequire. Near Panola, this tornado blew down large trees and power lines, and it caused roof damage. After Panola, the tornado primarily affected sparsely-populated hilly terrain.
Pushmataha										
2 W Cloudy	04	1035CST			0	0	1K		Thunderstorm Wind	Trees and power lines were blown down.
Creek County										
Bristow	04	1037CST			0	0			Hail (0.75)	
Creek County										
2 S Bristow	04	1045CST			0	0	0.50K		Thunderstorm Wind	Trees were blown down.
Haskell County										
3 SSW Lequire to 2 S Lequire	04	1049CST 1050CST	1	100	0	0	1K		Tornado (F1)	An F1 tornado that started in Latimer County 2 miles south of Panola eventually moved across the Haskell-Latimer County line, downing numerous trees 2 miles south of Lequire in extreme southern Haskell County before this tornado lifted.
Haskell County										
2 SW Mc Curtain to 3 S Keota	04	1100CST 1115CST	9	80	0	0	44K		Tornado (F0)	An F0 tornado touched down 2 miles southwest of McCurtain and tracked to south of Keota. Along the way, the tornado heavily damaged several barns, knocked down numerous power lines, and uprooted numerous trees. The McCurtain area was especially hard-hit with numerous downed trees that blocked several roadways.
Creek County										
9 W Sapulpa	04	1105CST			0	0			Hail (0.75)	Location: Heyburn Lake
Rogers County										
Claremore	04	1115CST 1215CST			0	0			Flash Flood	OK Hwy 20 near Claremore was closed with two feet of water over the roadway. In Chelsea, water seeped into businesses and over OK Hwy 66. US Hwy 169 between Talala and Oologah was closed for a time when the roadway became covered by two feet of water. A medical clinic in Oologah had nearly three feet of water inside.
Tulsa County										
Sand Spgs	04	1115CST			0	0			Hail (0.75)	
Le Flore County										
Cowlington	04	1121CST	0.5	75	0	0	110K		Tornado (F1)	An F1 tornado touchdown in Cowlington. The tornado damaged eight single-family homes, destroyed two mobile homes, and damaged two trailers. A mattress was lodged in a tree behind a mobile home in which its roof was peeled back. The tornado also uprooted several trees.
Tulsa County										
Sperry	04	1125CST			0	0			Hail (0.75)	

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
OKLAHOMA, Eastern									
Nowata County									
Nowata	04	1130CST 1230CST			0	0			Flash Flood
Creeks around Nowata ran over some roads.									
Tulsa County									
North Portion	04	1130CST 1230CST			0	0	20K		Flash Flood
In Collinsville, the intersection of 5th and Main Streets had to be closed when two to three feet of water came quickly rushing onto the road. Water was one to two feet deep inside two downtown Collinsville businesses. Several businesses along 146th Street North also closed.									
High water flooded quite a few streets in the city of Tulsa.									
OK Hwy 11 north and south of Skiatook was closed by high water.									
Sequoyah County									
Hanson to 2 S Akins	04	1134CST 1137CST	2	80	0	0	90K		Tornado (F1)
An F1 tornado touchdown south of Akins destroyed several barns, damaged several house roofs, and caused extensive tree damage. One house had half of its roof crushed by a tree, and outbuildings and a tractor shed were destroyed. Another home was damaged by trees and blowing debris, and a mobile home was moved off of its foundation. Another mobile home was crushed by a tree.									
Sequoyah County									
4 W Short to 5 N Short	04	1154CST 1204CST	6.5	175	0	0	7K		Tornado (F3)
A significant long-track tornado first touched down in Sequoyah County 4 miles west of Short, travelling northeast for 39 miles to a point about 7 miles southwest of Fayetteville, AR. This tornado eventually reached its peak as an F3 tornado in extreme southeast Adair County. In Sequoyah County, this tornado travelled across a sparsely-populated part of the county, causing mostly tree damage. Property damage listed with this entry is just for the portion of the tornado in Sequoyah County, while the F-rating reflects the peak strength of the tornado in Adair County.									
Adair County									
13 SSE Stilwell to 10 SE Stilwell	04	1204CST 1216CST	7	175	0	0	7K		Tornado (F3)
A significant long-track tornado first touched down in Sequoyah County 4 miles west of Short, moving northeast for 39 miles to a point about 7 miles southwest of Fayetteville, AR. This tornado clipped the extreme southeast portion of Adair County as the tornado reached its peak strength as an F3 tornado. Fortunately, the tornado travelled across an unpopulated portion of Adair County. However, an aerial survey by NWS personnel over extreme southeast Adair County revealed that every tree in a hardwood forest was completely leveled.									
Cherokee County									
Tahlequah	04	1215CST			0	0	0.20K		Thunderstorm Wind
Several large tree limbs were blown down in Tahlequah, and a large tree was blown down across a road 4 miles east of Tahlequah.									
Muskogee County									
Muskogee	04	1215CST			0	0			Hail (0.88)
Location: on the southwest side of Muskogee									
Pushmataha									
2 W Cloudy	04	1255CST			0	0	1.5K		Thunderstorm Wind
Trees and power lines were blown down.									
Cherokee County									
Tahlequah	04	1300CST 1400CST			0	0			Flash Flood
Several roads in Tahlequah were closed. One house and a day care center near the intersection of Tahlequah-North Wilson each took in about 5 inches of water. Baker Road near OK Hwy 51 was closed for a time.									
Choctaw County									
Ft Towson	04	1300CST			0	0	5K		Thunderstorm Wind
Tree limbs were blown down in Fort Towson. One large tree limb fell on a historical home.									

Storm Data and Unusual Weather Phenomena

May 1999

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

Craig County

Vinita	04	1300CST 2000CST			0	0	4M		Flash Flood
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An estimated 5 to 8 inches of rain in a short time caused Big Cabin Creek on the west side of Vinita and Bull Creek on the east side of Vinita to overflow their banks and enter 54 homes. Water was five feet deep in some homes. 30 homes were evacuated. The hardest-hit areas were located along North Second to North Fourth Streets, near Sequoyah and Tahlequah. According to the police chief, all of the homes around North Second Street were devastated. Later in the evening, water from Bull Creek drained into Big Cabin Creek, flooding out several homes in the Westwood area. Long-time residents say that the last time Bull Creek flooded any homes was in 1961, though they said the flooding this time was much more serious. Property damage was estimated at \$4 million. Swift-moving floodwater from Bull Creek swept a pickup truck off of Eastern State Road.

All four lanes of US Hwy 60 were closed by high water 1/2 mile west of Vinita. There were also reports of flooding around Welch.

Latimer County

Wilburton	04	1300CST 1400CST			0	0			Flash Flood
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There was street flooding, and one street had to be closed.

Mayes County

Adair	04	1300CST 1400CST			0	0			Flash Flood
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Several county roads were flooded.

Mayes County

3 W Langley	04	1300CST			0	0	4K		Thunderstorm Wind
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Windows were blown out of a brick house, a large old tree was uprooted, and a pontoon boat was tossed from its trailer.

Mayes County

1 W Pryor	04	1300CST			0	0	50K		Lightning
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Lightning lit fire to and destroyed a new home in the Grand Prarie Estates west of Pryor. The time in this entry is a very rough estimate.

Ottawa County

Miami	04	1300CST 1400CST			0	0	110K		Flash Flood
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Several homes had water damage in Miami when Tar Creek overflowed its banks. Residents of the Scotty Court area were evacuated after Tar Creek began rising. The baseball diamond at Northeast Oklahoma A&M was badly damaged when 3 feet of water covered the field.

In Commerce, 20 homes and businesses, including city hall, were flooded. In Quapaw, floodwaters entered a nursing home. At Wyandotte, Fairland, and Afton, roads were closed in each of those communities. Up to 20 streets at one time were closed in Miami, particularly north of town.

Pittsburg County

Hartshorne	04	1300CST 1400CST			0	0			Flash Flood
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There was street flooding in Hartshorne.

Sequoyah County

Central Portion	04	1315CST 1430CST			0	0			Flash Flood
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Water covered several county roads.

Wagoner County

Porter	04	1315CST 1415CST			0	0			Flash Flood
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Several roads were closed due to high water.

Latimer County

Bengal	04	1330CST			0	0	0.10K		Thunderstorm Wind
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Several large tree limbs were blown down in Bengal.

Adair County

Baron	04	1400CST 1500CST			0	0			Flash Flood
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Water was over a low-water crossing near Baron and Westville.

Storm Data and Unusual Weather Phenomena

May 1999

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

Delaware County

Grove	04	1400CST 1500CST			0	0			Flash Flood
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Low-water crossings were flooded near Grove.

Le Flore County

Zoe to Page	04	1400CST 1500CST			0	0			Flash Flood
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A bridge in Zoe was completely washed out. Other county roads were flooded near Page.

Washington

2 NE Copan	04	1430CST			0	0	3K		Thunderstorm Wind
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Four power poles and a shed were blown down.

Osage County

Hominy	04	1911CST			0	0			Hail (1.00)
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Osage County

Barnsdall	04	1945CST			0	0			Hail (0.88)
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Washington

Ochelata	04	1952CST			0	0			Hail (0.75)
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Nowata County

6 WNW Nowata	04	2000CST			0	0			Hail (0.75)
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Nowata County

Wann	04	2000CST			0	0	1K		Thunderstorm Wind
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Several large tree limbs were blown down, one of which fell through a porch.

Osage County

Barnsdall	04	2000CST			0	0			Hail (0.75)
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Following a week-long blocking weather pattern, a strong upper level trough finally moved out of the southwestern U.S. Interactions with a dryline in western Oklahoma and a slow-moving cold front brought the largest tornado outbreak in Oklahoma history from the afternoon of May 3 through the afternoon of May 4. Most notable was the F5 tornado that moved through southern parts of the Oklahoma City metro area. While the loss of life and the heaviest property damage was limited to central Oklahoma, eastern Oklahoma got into the act with a significant number of tornadoes.

While there were dozens of individual storms on May 3 and 4, there are two storms in eastern Oklahoma that stand out as outstanding. The first outstanding storm moved northeast along the I-44 corridor on the evening of May 3, causing F3 damage to Stroud in Lincoln County. The storm went on to cause significant F1 damage in Sapulpa and southwestern portions of the city of Tulsa and millions of dollars in damage.

The second outstanding storm got its start in southeast Oklahoma well south of McAlester. This storm moved northeast across Pushmataha, Latimer, Haskell, LeFlore and Sequoyah Counties, producing several damaging tornadoes along the way. The final tornado touched down in Sequoyah County and tracked 39 miles to near Fayetteville, AR, producing F3 damage in an unpopulated forest in Adair County.

Following a very wet April that saturated area grounds, another slow-moving weather system made flash flooding another serious problem to deal with as most rainfall quickly ran off into creeks, streams and mainstem rivers. One flash flood in Vinita caused millions of dollars in damage following the flooding of dozens of homes.

OKZ058

Ottawa

04	0700CST			0	0			Flood
09	0100CST							

The Neosho River at Commerce rose above its flood stage of 15 feet at 800 AM CDT on May 4. The river crested at a level of 20.0 feet at 300 AM CDT on May 6 before falling back below flood stage at 200 AM CDT on May 9.

OKZ058

Ottawa

04	0700CST			0	0			Flood
07	0300CST							

The Spring River at Quapaw rose above its flood stage of 20 feet at 800 AM CDT on May 4. The river crested at a level of 26.2 feet at 100 AM CDT on May 5 before falling back below flood stage at 400 AM CDT on May 7.

OKZ060

Tulsa

04	1100CST			0	0			Flood
06	0700CST							

The Bird Creek at Sperry rose above its flood stage of 21 feet at Noon CDT on May 4. The river crested at a level of 26.8 feet at 300 AM CDT on May 5 before falling back below flood stage at 1200 AM CDT on May 6.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
OKLAHOMA, Eastern										
The Bird Creek at Owasso (Mingo Road) rose above its flood stage of 19 feet at 200 PM CDT on May 4. The river crested at a level of 22.2 feet at 600 PM CDT on May 5 before falling back below flood stage at 800 AM CDT on May 6.										
OKZ055-060>061			Washington - Tulsa - Rogers							
	04	1100CST				0	0			Flood
	07	0100CST								
The Caney River at Ramona rose above its flood stage of 26 feet at 400 PM CDT on May 4. The river crested at a level of 27.4 feet at 400 PM CDT on May 5 before falling back below flood stage at 600 AM CDT on May 6.										
The Caney River at Collinsville rose above its flood stage of 26 feet at Noon CDT on May 4. The river crested at a level of 31.5 feet at 1000 PM CDT on May 4 before falling back below flood stage at 200 AM CDT on May 7.										
OKZ064			Creek							
	04	1200CST				0	0			Flood
	05	1800CST								
The Polecat Creek at Sapulpa rose above its flood stage of 21 feet on the afternoon of May 4. The river crested at a level of 24.4 feet that evening before falling back below flood stage on the evening of May 5.										
OKZ067-070			Wagoner - Muskogee							
	04	1300CST				0	0			Flood
	05	1100CST								
The Arkansas River at Muskogee rose above its flood stage of 28 feet at 200 PM CDT on May 4. The river crested at a level of 28.6 feet at 500 AM CDT on May 5 before falling back below flood stage at Noon CDT on May 5.										
OKZ068			Cherokee							
	04	2200CST				0	0			Flood
	06	1400CST								
The Illinois River at Tahlequah rose above its flood stage of 11 feet at 1100 PM CDT on May 4. The river crested at a level of 12.2 feet at 1000 AM CDT on May 6 before falling back below flood stage at 300 PM CDT on May 6.										
Delaware County										
Grove	05	1600CST				0	0			Hail (0.75)
Choctaw County										
Boswell	05	1830CST				0	0	0.10K		Thunderstorm Wind
Four-inch tree limbs were blown down in Boswell.										
Haskell County										
Kinta	05	1830CST				0	0			Hail (0.75)
The center of an upper-level disturbance, and its associated cold pool aloft, passed across southeast Oklahoma on the evening of May 5. The resulting instability caused isolated storms to develop over central Oklahoma that then moved mostly into southeast Oklahoma. While these storms showed strong rotation on radar, there were only reports of marginally severe wind and hail.										
Creek County										
Bristow	09	2305CST				0	0			Hail (0.75)
Okfuskee County										
Welty	09	2315CST				0	0			Hail (0.88)
Okmulgee County										
Okmulgee	09	2342CST				0	0			Hail (0.88)
Okmulgee County										
Okmulgee	09	2350CST				0	0	1K		Thunderstorm Wind
Tree limbs were blown down across power lines.										
Pittsburg County										
9 W Kiowa	09	2355CST				0	0			Hail (0.75)
Location: on the Pittsburg/Atoka county line										
Mcintosh County										
3 W Onapa	10	0000CST				0	0			Thunderstorm Wind (G52)
Location: Fountainhead State Park										
Tulsa County										
3 SW Broken Arrow	10	0000CST				0	0	0.50K		Thunderstorm Wind (G52)
Several trees were blown down in Broken Arrow near the intersection of 91st and 129th East Avenue.										
Pushmataha										
Clayton	10	0045CST				0	0			Hail (1.00)
Pushmataha										
8 S Clayton	10	0100CST				0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Tulsa County									
Collinsville	10	0200CST			0	0	20K		Thunderstorm Wind
Numerous large trees (two to three feet in diameter) were blown over. Falling trees took several fences as victims. One falling tree caused some roof damage.									
Tulsa County									
5 N Skiatook	10	0200CST			0	0	5K		Thunderstorm Wind
An outbuilding was destroyed, there was shingle and siding damage to a home, and several trees were snapped off.									
Washington									
Vera	10	0200CST			0	0	7K		Thunderstorm Wind
A carport was damaged, and large trees were blown down									
Adair County									
4 N Proctor	10	0211CST	0.5	50	0	0	0.50K		Tornado (F0)
There was a brief tornado touchdown north of Proctor which knocked over many trees.									
Muskogee County									
Ft Gibson	11	0900CST			0	0	1K		Lightning
Lightning struck a tree behind the Church of Christ, travelling through the tree's roots and killing three cows.									
Rogers County									
7 E Claremore	11	1655CST			0	0			Hail (1.75)
Mayes County									
Pryor	11	1721CST 1725CST			0	0			Hail (0.75)
There were several reports of dime-sized hail near Pryor.									
Mayes County									
5 W Pryor to 2 W Pryor	11	1726CST 1740CST			0	0			Hail (2.75)
At 627 PM CDT, there was a report of golfball-sized hail 5 miles west of Pryor. At 635 PM CDT, there was a report of quarter-size (1" diameter) hail 5 miles west of Pryor. At 640 PM CDT, there was a report of baseball-sized hail 2 miles west of Pryor.									
Mayes County									
3 SW Pryor	11	1748CST 1756CST			0	0			Hail (1.00)
There were several reports of dime and quarter-sized hail southwest of Pryor.									
Rogers County									
3 E Inola	11	1750CST			0	0			Hail (0.75)
Mayes County									
3 S Pryor to Pryor	11	1807CST 1813CST			0	0			Hail (0.88)
There was a report of dime-sized hail 3 miles south of Pryor at 707 PM CDT, while there was a report of nickel-sized hail in Pryor at 713 PM CDT.									
Mayes County									
Chouteau	11	1814CST			0	0			Hail (1.75)
Mayes County									
1 NW Chouteau	11	1815CST			0	0	2K		Thunderstorm Wind
Windows were blown out of a home northwest of Chouteau.									
Wagoner County									
Tulahassee	11	1829CST			0	0			Hail (0.88)
Mayes County									
Chouteau	11	1830CST 1900CST			0	0			Flash Flood
There was street flooding in Chouteau.									
Mayes County									
5 W Locust Grove to 2 W Locust Grove	11	1836CST 1841CST			0	0			Funnel Cloud
There were two reports of funnel clouds west of Locust Grove.									
Mayes County									
2 SE Pryor	11	1854CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Mayes County									
5 E Chouteau	11	1858CST			0	0			Thunderstorm Wind (G61)
Location: at the entrance to the western end of the Cherokee Turnpike									
Choctaw County									
Bluff	11	1910CST			0	0			Hail (0.75)
Mayes County									
Chouteau	11	1915CST			0	0			Hail (1.00)
Pittsburg County									
7 W Arpelar	11	1918CST			0	0			Hail (1.75)
Location: at the Atoka/Pittsburg county line									
Pittsburg County									
Savanna	11	1919CST			0	0			Hail (0.75)
Mayes County									
3 S Locust Grove	11	1920CST			0	0			Thunderstorm Wind (G57)
Pittsburg County									
1 S Kiowa to Kiowa	11	1925CST 1930CST			0	0			Hail (1.75)
Cherokee County									
Lost City	11	1930CST			0	0			Hail (0.75)
Choctaw County									
3 N Soper	11	1930CST	1	50	0	0	1K		Tornado (F0)
There was a brief tornado touchdown north of Soper, causing mostly tree damage.									
Muskogee County									
2 E Muskogee	11	1935CST			0	0			Hail (1.75)
Location: on the turnpike south of US Hwy 62									
Cherokee County									
6 S Hulbert	11	1945CST			0	0			Hail (0.75)
Muskogee County									
Ft Gibson	11	1945CST			0	0			Hail (1.00)
Location: near intersection of OK Hwy 10 and US Hwy 62									
Muskogee County									
Ft Gibson	11	1945CST			0	0	15K		Thunderstorm Wind
Winds destroyed a garage in the 1500 block of Sumac Road.									
Muskogee County									
.5 S Braggs	11	2000CST			0	0			Hail (1.75)
Muskogee County									
.5 S Braggs	11	2000CST	0.5	50	0	0	1K		Tornado (F0)
There was a brief tornado touchdown just south of Braggs, causing damage to numerous trees.									
Pushmataha									
3 S Antlers	11	2005CST			0	0			Hail (1.00)
Muskogee County									
4 S Braggs	11	2016CST	0.5	50	0	0	1K		Tornado (F0)
There was a brief tornado touchdown south of Braggs, causing mainly tree damage.									
Cherokee County									
Tahlequah	11	2018CST			0	0			Hail (0.88)
Choctaw County									
Soper	11	2020CST			0	0			Hail (2.00)
Pittsburg County									
3 NW Arpelar	11	2035CST			0	0	8K		Thunderstorm Wind
A home's roof was partially removed.									
Muskogee County									
Braggs	11	2045CST			0	0			Hail (1.75)
Tulsa County									
Jenks	11	2048CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Choctaw County									
9 N Boswell	11	2050CST			0	0			Hail (0.88)
Cherokee County									
5 W Cookson	11	2100CST			0	0			Hail (1.75)
Cherokee County									
Tahlequah	11	2100CST			0	0	30K		Lightning
Lightning struck a home in Tahlequah, starting a fire and destroying appliances in nearby homes.									
Sequoyah County									
4 N Gore	11	2100CST			0	0			Hail (0.75)
Tulsa County									
7 E Tulsa	11	2101CST			0	0			Hail (0.75)
Location: near Admiral and Memorial in Tulsa									
Pushmataha									
Dela	11	2110CST			0	0			Hail (0.75)
Muskogee County									
Braggs	11	2120CST			0	0			Flash Flood
Water covered a road in Braggs.									
Choctaw County									
Central Portion	11 12	2130CST 0100CST			0	0			Flash Flood
About 6 inches of water covered US Hwy 271 about 8 miles northwest of Hugo. US Hwy 70 was closed between Soper and the US Hwy 271 intersection when 5 to 6 feet of water covered the roadway. Several rural bridges in the Twin Oaks area were washed out.									
In Hugo, there was flooding in the 700 block of "E", as well as on "A", 15th, and 12th Streets. A car was pulled from high water at the north end of "A" Street.									
Choctaw County									
Goodland	11	2130CST			0	0	0.50K		Thunderstorm Wind
A 10-foot diameter tree was blown down.									
Sequoyah County									
5 W Blackgum	11	2137CST	0.5	50	0	0	1K		Tornado (F0)
There was a brief tornado touchdown near Aqua Park, causing mainly tree damage.									
Pushmataha									
Darwin	11	2155CST			0	0			Hail (0.88)
Sequoyah County									
Muldrow	11	2206CST			0	0	0.10K		Thunderstorm Wind
Large tree limbs were blown down.									
Pittsburg County									
2 W Mc Alester	11	2225CST			0	0			Hail (0.75)
Muskogee County									
East Portion	12	0205CST 0300CST			0	0	160K		Flash Flood
An estimated 6 inches of rain forced the closing of OK Hwy 10 between Muskogee and Braggs. A county commissioner estimated that 60 percent of the roads in the eastern part of the county were closed at one point. Water was about 7 to 8 feet deep on some roads.									
Three homes in Fort Gibson sustained damage when water came into the homes, which were located in the 300 block of South Avenue. Firefighters had to rescue a family whose minivan was washed into Cooper Creek. At least 7 or 8 other cars had to be pulled out of ditches after the flooding subsided.									
On 4 Mile Road near the Cherokee county line, the force of the water washed a 48-inch drainage pipe 100 yards down a creek and ripped a five-foot wide hole across the road. Water in the Carriage Estates Addition was deep enough to cover the roof of a car that had washed down the road.									
Wagoner County									
Coweta	12	0205CST 0300CST			0	0			Flash Flood
Several county roads were flooded near Coweta.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Cherokee County									
Tahlequah	12	0300CST 0400CST			0	0			Flash Flood
<p>There was street flooding in and around Tahlequah. Numerous severe thunderstorms formed along a slow-moving north-south cold front across eastern Oklahoma on the afternoon and evening of May 11. A cap of warm air in the mid-levels of the atmosphere kept thunderstorm activity suppressed until the first storm formed in Rogers and Mayes County late in the afternoon. This was the largest storm of the day as it showed strong rotation and produced very large hail to the size of baseballs.</p> <p>Many other severe thunderstorms formed and increased in coverage through the evening. With the slow movement of the cold front, many thunderstorms moved over areas already saturated by earlier thunderstorms, leading to localized flash flooding. Several brief tornadoes also formed through the evening, with the largest concentration in the Arkansas River valley between Muskogee and Sallisaw.</p>									
OKZ060									
Tulsa									
	14	2100CST 2130CST			0	0	0.50K		High Wind (G43)
<p>A collapsing non-severe thunderstorm in northern Okmulgee County sent out an outflow boundary that produced local wind gusts to 50 miles an hour in southern Tulsa County. Three trees were blown down in south Broken Arrow near 121st Street South and 145th East Avenue.</p>									
Osage County									
18 W Burbank	16	2230CST			0	0	0.10K		Thunderstorm Wind
<p>Tree limbs were blown down near Ponca City in Osage County.</p>									
Creek County									
Oilton	16	2315CST			0	0			Hail (0.75)
Osage County									
Hominy	16	2319CST			0	0			Thunderstorm Wind (G52)
Osage County									
9 NE Pawhuska	16	2335CST			0	0	0.10K		Thunderstorm Wind
<p>Tree limbs were blown down in the Osage Hills State Park.</p>									
Pawnee County									
Cleveland	16	2344CST			0	0			Hail (0.75)
Tulsa County									
Sperry	16	2350CST			0	0	0.10K		Thunderstorm Wind
<p>Tree branches were blown down in Sperry.</p>									
Tulsa County									
3 N Skiatook	16	2355CST			0	0			Hail (1.00)
Okfuskee County									
Paden	16	2358CST			0	0	5K		Thunderstorm Wind
<p>Winds caused damage to a roof in Paden.</p>									
Washington									
Copan	17	0000CST			0	0	0.20K		Thunderstorm Wind (G61)
<p>Numerous tree limbs were blown down in Copan by winds estimated at 60 to 70 miles an hour.</p>									
Okfuskee County									
Castle	17	0008CST			0	0			Thunderstorm Wind (G61)
Okfuskee County									
Okemah	17	0010CST			0	0	0.20K		Thunderstorm Wind
<p>A tree and several tree branches were blown down in Okemah.</p>									
Pittsburg County									
Ashland	17	0030CST			0	0	0.10K		Thunderstorm Wind
<p>Several large tree limbs were blown down.</p>									
Okmulgee County									
Henryetta	17	0037CST			0	0	45K		Thunderstorm Wind (G61)
<p>Strong winds blew a roof completely off of a muffler shop in the 900 block of North Frisco. The roof hit a power feeder and knocked off power to a large part of the city. One of the businesses's doors was blown off as well. Several businesses reported windows blown out by the storm, and numerous trees and tree limbs were blown down.</p>									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Craig County									
6 E Centralia	17	0055CST			0	0			Thunderstorm Wind (G54)
	Location: Oklahoma mesonet site								
Mcintosh County									
3 W Checotah	17	0105CST			0	0			Thunderstorm Wind (G52)
Muskogee County									
Wainwright	17	0110CST			0	0	95K		Thunderstorm Wind
	A single family dwelling was destroyed, and two mobile homes were damaged. The roof of the local school was lifted up and thrown into a school bus.								
Muskogee County									
Oktaha	17	0115CST			0	3	165K		Thunderstorm Wind
	Strong winds, likely in excess of 75 miles an hour, destroyed five mobile homes and damaged another six mobile homes in the Oktaha Mobile Home Park. There were three injuries serious enough to warrant hospitalization. At least three vehicles were crushed by homes knocked off their foundations. Numerous trees were also blown down.								
Mcintosh County									
Texanna	17	0120CST			0	0			Hail (1.00)
Muskogee County									
Muskogee	17	0120CST			0	0	100K		Thunderstorm Wind
	Two businesses had their roofs blown off. Other buildings had shingles blown off their roofs, while there were numerous trees and tree limbs blown down. The majority of damaged homes were in the east side of town, though the west side had its share of tree damage.								
Haskell County									
Whitefield	17	0130CST			0	0	0.10K		Thunderstorm Wind
	Several large tree limbs were blown down.								
Latimer County									
7 NNW Wilburton	17	0130CST			0	0	0.20K		Thunderstorm Wind
	Numerous tree limbs were blown down in Robbers Cave State Park.								
Wagoner County									
7 ENE Wagoner	17	0135CST			0	0	65K		Thunderstorm Wind
	In the Grand View Addition along White Horn Cove Road, northeast of Wagoner, twelve permanent homes received minor damage. Most residences were damaged when trees were blown onto the homes. However, the winds were also directly responsible for minor roof damage and for blowing several awnings away. One home had a power line resting against it. Other areas in the northeastern portion of Wagoner County had downed tree limbs, including the city of Wagoner.								
Mayes County									
4 N Locust Grove	17	0142CST			0	0	0.10K		Thunderstorm Wind
	A large tree was uprooted.								
Cherokee County									
5 W Hulbert to Hulbert	17	0145CST 0150CST			0	0	10K		Thunderstorm Wind (G52)
	At 245 AM CDT, there was a public report of 60 mph winds 5 miles west of Hulbert. Near Hulbert, a mobile home was knocked off of its foundation.								
	In Sequoyah State Park, winds demolished an old water tower, though park officials had been planning to demolish it anyway. The winds also blew over 30 to 40 famed pine trees lining the entrance to Western Hills Lodge at the park. An uprooted tree damaged thousands of dollars in damage to the state park's new office and visitor's center, which were still under construction.								
Mayes County									
Pryor	17	0145CST			0	0	20K		Thunderstorm Wind (G57)
	Two pickup trucks and a car were totaled when winds blew trees over onto them.								
Sequoyah County									
3 S Sallisaw to Sallisaw	17	0150CST			0	0	10K		Thunderstorm Wind
	South of Sallisaw, a trailer was blown 15 feet into an electric pole. A nearby chicken house suffered serious damage, with 50-60 chickens perishing. Numerous tree limbs were blown down in Sallisaw.								
Cherokee County									
Tahlequah	17	0155CST			0	0	30K		Thunderstorm Wind (G61)
	Numerous trees and tree limbs were blown over throughout Cherokee County, including Tahlequah. Many trees were blown into electrical lines. Strong winds also caused heavy damage to the county's north solid waste transfer station.								

Storm Data and Unusual Weather Phenomena

May 1999

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									
Adair County									
5 WNW Westville to Westville	17	0205CST 0210CST			0	0	25K		Thunderstorm Wind (G61)
			At 305 AM CDT, the Oklahoma mesonet site west of Westville measured a wind gust to 70 miles an hour. These winds then moved east to Westville, blowing down numerous trees and limbs in Westville. On Buffington Road, several limbs blocked traffic during the morning commute time. Numerous trees blew into power lines. Utility officials reported some of the worst damage in the Bell community, where whole oak trees were uprooted and roofs were lost from a number of barns.						
Le Flore County									
Panama	17	0205CST			0	0			Thunderstorm Wind (G52)
Delaware County									
5 N Leach	17	0208CST			0	0	20K		Thunderstorm Wind (G52)
			Winds estimated at 60 miles an hour damaged several structures.						
Craig County									
5 W Vinita	17	0230CST			0	0	0.10K		Thunderstorm Wind
			Tree limbs were blown down west of Vinita.						
Ottawa County									
Miami	17	0245CST			0	0			Hail (0.75)
Tulsa County									
1 SE Broken Arrow	17	0500CST			0	0	50K		Lightning
			Lightning struck a two-story house in the 800 block of East Mason Drive in Broken Arrow, sparking a fire that destroyed the entire second floor of the home.						
Creek County									
Kellyville	17	0721CST			0	0			Hail (0.88)
Tulsa County									
Tulsa	17	0730CST 0830CST			0	0			Urban/Sml Stream Fld
			Several streets in Tulsa were covered with water.						
Tulsa County									
7 SSE Tulsa	17	0745CST			0	0			Hail (1.00)
Tulsa County									
11 SSE Tulsa	17	0805CST			0	0	150K		Lightning
			Lightning struck the roof of a south Tulsa house, sparking a fire that burned the whole roof off. The house was located near 111th Street South between Yale and Sheridan.						
Muskogee County									
Braggs	17	0820CST			0	0	0.50K		Thunderstorm Wind
			Trees were blown down in Braggs.						
Wagoner County									
Okay	17	0832CST			0	0			Hail (0.75)
Haskell County									
2 N Whitefield	17	0907CST			0	0	0.10K		Thunderstorm Wind
			A large tree was blown down north of Whitefield on the Haskell/Muskogee county line.						
Adair County									
5 SE Stilwell	17	0935CST			0	0	0.70K		Thunderstorm Wind
			Several trees were snapped in half, and numerous tree limbs were blown down.						
Sequoyah County									
Sallisaw	17	0945CST			0	0	0.50K		Thunderstorm Wind
			Several 20-foot tall trees were blown over in Sallisaw.						
Haskell County									
Kinta	17	1300CST			0	0			Hail (0.75)
Ottawa County									
Fairland	17	1305CST			0	0			Hail (1.75)
Pushmataha									
6 NW Antlers	17	1350CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Latimer County									
2 W Red Oak	17	1406CST			0	0			Hail (0.75)
Le Flore County									
Talihina	17	1410CST			0	0			Hail (0.88)
Latimer County									
Wilburton	17	1500CST 1600CST			0	0			Flash Flood
Several streets in Wilburton were closed by high water.									
Le Flore County									
Poteau	17	1600CST 1700CST			0	0			Flash Flood
A street in Poteau was closed by high water.									
A cluster of thunderstorms formed on the evening of May 16 over western Oklahoma. This cluster of storms started moving quickly east and formed into a large bow echo, a radar signature indicative of damaging winds. Indeed, damaging winds swept across nearly all of eastern Oklahoma late on the evening of May 16 and early on the morning of May 17. The apex of the bow, or the area of strongest winds, moved from near Okemah through Muskogee County and on to Westville. While there were numerous reports of wind damage, Muskogee County saw the most serious damage, including several injuries when winds toppled mobile homes. Marginally severe hail also accompanied this line of storms.									
After sunrise, another round of more widely scattered thunderstorms moved east out of central Oklahoma and moved across the eastern third of the state. These storms produced more damaging winds and marginally severe hail.									
During the afternoon, an outflow boundary turned up stationary across southeast Oklahoma and was the focus for more thunderstorm development. The afternoon storms mainly produced marginally severe hail. In addition, the stationary movement of the outflow boundary allowed thunderstorm cells to train behind each other, leading to locally heavy rainfall.									
OKZ076									
Le Flore									
	17	2200CST			0	0			Flood
	19	1700CST							
The Poteau River at Panama rose above its flood stage of 29 feet at 1100 PM CDT on May 17. The river crested at a level of 33.3 feet at 600 PM CDT on May 18 before falling back below flood stage at 600 PM CDT on May 19.									
OKZ058									
Ottawa									
	19	1600CST			0	0			Flood
The Neosho River at Commerce briefly reached its flood stage of 15 feet at 500 PM CDT on May 19.									
Osage County									
3 N Sand Spgs	21	0200CST			0	0			Thunderstorm Wind (G52)
Tulsa County									
4 S Tulsa	21	0210CST			0	0	0.10K		Thunderstorm Wind (G52)
A spotter at 51st and Riverside in Tulsa estimated winds to gust as high as 60 miles an hour. A large tree was blown down at 39th and Riverside, partially blocking the roadway.									
Wagoner County									
2 NW Oneta	21	0230CST			0	0	0.10K		Thunderstorm Wind
Large tree branches were blown down.									
Cherokee County									
8 N Moodys	21	0320CST			0	0			Thunderstorm Wind (G61)
Wagoner County									
Coweta	21	0500CST 0600CST			0	0			Flash Flood
Several city streets in Coweta were closed by high water.									
Pittsburg County									
Arpelar	21	0645CST			0	0			Hail (0.75)
Le Flore County									
Arkoma	21	0730CST 0800CST			0	0			Flash Flood
There was street flooding in Arkoma.									
A line of thunderstorms moved east-southeast across eastern Oklahoma early on the morning of May 21. These storms gradually weakened as they moved along, producing reports of marginally severe wind.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
1 W Shidler to Shidler	22	1315CST 1325CST			0	0			Hail (2.50)
There was a report of quarter-sized hail one mile west of Shidler at 215 PM CDT, then there was a report of tennis ball-sized hail in Shidler at 225 PM CDT.									
Washington									
Dewey	22	1321CST			0	0			Hail (1.00)
Osage County									
Wynona to 2 SE Wynona	22	1423CST 1430CST			0	0			Hail (1.75)
There were reports of golfball-sized hail in Wynona at 323 and 328 PM CDT. There was another report of nickel-sized hail 2 miles southeast of Wynona at 330 PM CDT.									
Delaware County									
Kansas to 1 S Kansas	22	1451CST 1503CST			0	0			Hail (1.75)
There was a report of golfball-sized hail in Kansas at 351 PM CDT. There was another report of dime-sized hail 1 mile south of Kansas at 403 PM CDT.									
Pawnee County									
Terlton	22	1451CST			0	0			Hail (0.75)
Creek County									
Sapulpa	22	1500CST 1505CST			0	0			Hail (0.88)
There was a report of dime-sized hail in Sapulpa at 400 PM CDT. There was another report of nickel-sized hail at 81st and New Sapulpa Road at 405 PM CDT.									
Delaware County									
3 NW Grove	22	1503CST			0	0			Hail (0.75)
Tulsa County									
6 SSW Tulsa to 6 S Tulsa	22	1515CST 1532CST			0	0			Hail (2.50)
There were numerous reports of dime to quarter-sized hail, and one report of tennis ball-sized hail, in southwest Tulsa and north Jenks from 415 to 432 PM CDT. Most of the hail was confined to the north by 45th Street South, to the south by 81st Street South, to the east by Lewis Avenue, and to the west by the Creek County line. The following is a list of individual hail reports:									
		Time (CDT)	Location						Hail Size (Diameter)
		415 PM	61st and 33rd W. Ave.	0.88"					
		417 PM	71st and US Hwy 75	0.88"					
		418 PM	61st and 33rd W. Ave.	0.88"					
		420 PM	63rd and Peoria	1.75"					
		422 PM	61st and 49th W. Ave.	1.00"					
		423 PM	I-44 and US Hwy 75	1.00"					
		424 PM	71st and Lewis	1.00"					
		429 PM	49th btwn Havard/Lewis	0.75"					
		430 PM	57th and Riverside	1.00"					
		432 PM	71st and Riverside	2.50"					
Adair County									
Westville	22	1540CST			0	0			Hail (0.75)
Osage County									
Barnsdall	22	1630CST			0	0			Hail (1.00)
Pawnee County									
Maramec	22	1630CST			0	0			Hail (1.00)
Pawnee County									
Maramec	22	1630CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1999

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

OKLAHOMA, Eastern

Tulsa County

**Tulsa to
2 E Tulsa**

**22 1630CST
1650CST 0 0 Hail (1.00)**

There were several reports of dime to quarter-sized hail stretching from downtown Tulsa to near I-244 and Utica in Tulsa. The following are a collection of individual reports received by the NWS:

Time (CDT)	Location	Hail Size (Diameter)
530 PM	Downtown (Ch. 6 studio)	0.75"
535 PM	41st and Peoria	0.75"
540 PM	Downtown	1.00"
543 PM	I-244 and Utica	0.75"

Washington

Vera

22 1630CST 0 0 Hail (0.88)

Pawnee County

Hallett

22 1637CST 0 0 Hail (0.88)

Tulsa County

**Jenks to
7 SE Tulsa**

**22 1641CST
1710CST 0 0 Hail (2.00)**

There were numerous reports of dime to quarter-sized hail and a report of 2-inch diameter hail covering the ground in an area stretching from Jenks through south Tulsa as far east as US Hwy 169 between 61st and 101st Street South. Here is a summary of reports:

Time (CDT)	Location	Diameter
541 PM	91st and Elm (Jenks)	1"
544 PM	91st and Delaware (S. Tulsa)	1"
548 PM	91st and Yale	1"
552 PM	68th and Lewis	1"
555 PM	91st and Memorial	0.88"
557 PM	61st and US Hwy 169	1"
602 PM	81st and Memorial	1.25"
602 PM	61st and Memorial	1.25"
607 PM	101st and Sheridan	0.75"
616 PM	81st and Yale	2" (on the ground)

Osage County

1 NW Tulsa

22 1658CST 0 0 Hail (0.75)

Location: Tulsa Country Club

Osage County

3 W Tulsa

**22 1700CST
1800CST 0 0 Urban/Sml Stream Fld**

Heavy rains caused flooding that temporarily closed West Edison Street, which runs along the Osage/Tulsa County line, west of downtown Tulsa. Several vehicles stalled out in the high water.

Tulsa County

6 SE Tulsa

22 1710CST 0 0 Thunderstorm Wind (G61)

Location: 51st Street South and Memorial

Creek County

Sapulpa

22 1725CST 0 0 Hail (1.00)

Creek County

Sapulpa

22 1725CST 0 0 0.10K Thunderstorm Wind

Several 6-inch diameter tree limbs were blown down.

Tulsa County

4 S Tulsa

22 1735CST 0 0 Thunderstorm Wind (G57)

Location: I-44 at the Arkansas River

Creek County

Kellyville

22 1740CST 0 0 50K Hail (4.00)

Four-inch diameter hail dented several cars and caused roof damage in Kellyville.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Creek County									
Kellyville	22	1740CST			0	0	10K		Thunderstorm Wind
Several large trees were blown down in Kellyville, blocking several streets. A shop roof was also blown off.									
Delaware County									
Colcord	22	1742CST			0	0			Thunderstorm Wind (G52)
Creek County									
Kiefer	22	1747CST			0	0			Hail (1.25)
Creek County									
Kiefer	22	1747CST			0	0	3K		Thunderstorm Wind (G57)
Winds estimated at 65 miles an hour blew down trees and power lines in Kiefer.									
Creek County									
Bristow	22	1755CST			0	0			Thunderstorm Wind (G52)
Okmulgee County									
2 N Beggs	22	1755CST			0	0			Hail (1.00)
Tulsa County									
7 S Tulsa	22	1800CST 1830CST			0	0			Urban/Sml Stream Fld
There was street flooding in south Tulsa, and water covered Sheridan Road at 96th Street.									
Mayes County									
1 N Pryor	22	1805CST			0	0	0.50K		Thunderstorm Wind
Trees were blown down in north Pryor.									
Cherokee County									
3 N Moodys	22	1815CST			0	0			Hail (0.75)
Delaware County									
West Siloam Spgs	22	1815CST			0	0			Hail (0.88)
Okmulgee County									
Beggs	22	1815CST			0	0			Hail (0.88)
Okfuskee County									
Boley	22	1830CST			0	0			Hail (0.75)
Muskogee County									
3 SE Jamesville	22	1838CST			0	0	5K		Thunderstorm Wind
Part of the roof of a barn was blown off.									
Muskogee County									
Haskell to 5 SSE Haskell	22	1852CST 1855CST			0	0	0.10K		Thunderstorm Wind (G57)
At 752 PM CDT, several 6-inch diameter tree limbs were blown down. At 755 PM CDT, the Oklahoma mesonet site south-southeast of Haskell measured a 65 mph wind gust.									
Sequoyah County									
Sallisaw	22	1853CST			0	0			Thunderstorm Wind (G52)
Muskogee County									
Muskogee	22	1900CST 2000CST			0	0	8K		Urban/Sml Stream Fld
There was street flooding, mainly on the west side of Muskogee. The water level crept toward the doorsteps of some homes near Williams and 30th Streets, but the water receded just in time. A car became stranded in high water in the same vicinity.									
Okfuskee County									
Castle	22	1900CST			0	0			Hail (0.75)
Okfuskee County									
Okemah	22	1900CST			0	0			Hail (1.00)
Okmulgee County									
6 S Okmulgee	22	1905CST			0	0	20K		Thunderstorm Wind (G61)
A wind gust estimated at 70 miles an hour damaged a race car south of Okmulgee.									
Le Flore County									
1 S Spiro	22	1925CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Mayes County									
Locust Grove	22	1930CST			0	0	60K		Lightning
			A lightning strike started a fire that completely gutted a small church on OK Hwy 82.						
Le Flore County									
1 W Spiro	22	1940CST			0	0			Hail (0.75)
Le Flore County									
1 W Spiro	22	1940CST			0	0			Thunderstorm Wind (G52)
Le Flore County									
Heavener	22	2000CST			0	0	11K		Thunderstorm Wind
			A building next door to the Heavener Police Department lost its roof. The roof fell onto two patrol cars, causing minor damage to the vehicles. Elsewhere in Heavener, large tree limbs were blown down.						
Le Flore County									
1 S Heavener	22	2004CST			0	0			Hail (0.88)
Le Flore County									
Hodgen	22	2030CST			0	0			Hail (0.75)
			A slow-moving cold front kicked off clusters of severe thunderstorms on the afternoon and evening of May 22. Most of the thunderstorms that formed moved very slowly at first, causing severe weather to last a bit longer at a given location than usual. The first thunderstorms of the day formed over northeast Oklahoma, producing hail as large as golfballs. The severe weather emphasis gradually shifted south, and the numero of wind reports increased during the evening as earlier storms in the Tulsa area gusted out and produced outflow boundaries that spread south.						
Washington									
Dewey	23	0045CST			0	0	2K		Thunderstorm Wind
			Power lines were blown down in Dewey.						
Osage County									
10 NE Pawhuska	23	0100CST			0	0			Thunderstorm Wind (G52)
Osage County									
10 W Pawhuska	23	0102CST			0	0			Hail (0.75)
Ottawa County									
Fairland	23	0125CST			0	0	0.50K		Thunderstorm Wind
			Several trees were blown down in Fairland.						
Ottawa County									
Afton	23	0135CST			0	0	0.10K		Thunderstorm Wind
			Several tree limbs were blown down near Afton.						
Delaware County									
Bernice	23	0140CST			0	0			Hail (0.88)
Pawnee County									
Terlton	23	0140CST			0	0			Thunderstorm Wind (G54)
Osage County									
1 NW Tulsa	23	0145CST			0	0	0.10K		Thunderstorm Wind
			Several tree limbs were blown down at the Tulsa Country Club.						
Rogers County									
Claremore	23	0145CST			0	0	0.50K		Thunderstorm Wind
			Several trees were blown down in Claremore.						
Wagoner County									
Wagoner	23	0200CST			0	0	0.10K		Thunderstorm Wind
			Scattered tree limbs were blown down in Wagoner.						
Tulsa County									
3 E Tulsa	23	0207CST			0	0			Hail (0.88)
			Location: Admiral and Lewis in Tulsa						
Mayes County									
Pryor	23	0215CST			0	0	0.10K		Thunderstorm Wind
			Several tree limbs were blown down in Pryor.						
Rogers County									
Inola	23	0215CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Creek County									
Shamrock	23	0225CST			0	0			Thunderstorm Wind (G52)
Tulsa County									
4 E Tulsa	23	0230CST			0	0	8K		Urban/Sml Stream Fld
A car got trapped in high water in the 5900 block of 11th Street South in Tulsa. The Tulsa International Airport had one inch of rain in the 20 minutes between 300 and 320 AM CDT.									
Wagoner County									
Wagoner	23	0245CST			0	0	2.5K		Thunderstorm Wind
Tree limbs and power lines were blown down in Wagoner during a second round of storms for this event.									
Okmulgee County									
Beggs	23	0300CST			0	0	2.5K		Thunderstorm Wind
Power lines and large tree limbs were blown down in Beggs.									
Tulsa County									
Bixby	23	0300CST			0	0	0.50K		Thunderstorm Wind
Several trees were blown down near Mingo and 117th Street in Mingo.									
Muskogee County									
5 E Ft Gibson	23	0315CST			0	0	0.50K		Thunderstorm Wind
Several trees were blown down east of Fort Gibson.									
Mcintosh County									
Eufaula	23	0330CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down in Eufaula.									
Cherokee County									
7 WSW Tahlequah	23	0400CST 0500CST			0	0	10K		Flash Flood
A road was washed out.									
Okmulgee County									
Countywide	23	0400CST 0500CST			0	0			Flash Flood
OK Hwy 16 and US Hwy 75 were closed by water that was 3-4 feet deep on the roadways. A nocturnal "bow echo" MCS moved south out of Kansas early on the morning of May 23. As with most bow echoes, strong winds were the primary threat with this system, though there was some marginally severe hail with the most intense thunderstorms in the leading line of storms. This line of storms gradually weakened as it moved southward and had mostly dropped below severe limits by the time it moved south of I-40.									
OKZ060									
Tulsa									
23		0900CST			0	0			Flood
24		0500CST							
The Bird Creek at Sperry rose above its flood stage of 21 feet at 1000 AM CDT on May 23. The river crested at a level of 23.3 feet at 600 PM CDT before falling back below flood stage at 600 AM CDT on May 24.									
OKZ067-070									
Wagoner - Muskogee									
23		1000CST			0	0			Flood
24		1200CST							
The Arkansas River at Muskogee rose above its flood stage of 28 feet at 1100 AM CDT on May 23. The river crested at a level of 28.8 feet at 1100 PM CDT before falling back below flood stage at 100 PM CDT on May 24.									
OKZ064									
Creek									
23		1200CST			0	0			Flood
24		0600CST							
The Polecat Creek at Sapulpa rose above its flood stage of 21 feet on the afternoon of May 23. The river crested at a level of 24.8 feet that evening before falling back below flood stage on the morning of May 24.									
Osage County									
Foraker	31	0145CST			0	0	0.10K		Thunderstorm Wind
Tree limbs were blown down in Foraker.									
Washington									
Dewey	31	0315CST			0	0			Hail (0.75)
Nowata County									
Lenapah	31	0330CST			0	0	0.10K		Thunderstorm Wind
Several 3-inch tree limbs were blown down.									
Osage County									
Hominy	31	0340CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Tulsa County									
Collinsville to Owasso	31	0353CST 0358CST			0	0	12K		Thunderstorm Wind
In Collinsville, a 150-year old tree was blown onto a house, leaving a large hole in the roof. In Owasso, tree limbs were blown down, and the roof was blown off of a metal shed.									
Osage County									
7 W Skiatook to 2 W Skiatook	31	0400CST			0	0	8K		Thunderstorm Wind
Part of the roof of a daycare center located 2 miles west of Skiatook was blown off. Just north of Skiatook Lake, a home had several shingles blown off, and several 3-inch diameter tree limbs were blown down.									
Tulsa County									
Owasso	31	0410CST			0	0			Hail (0.75)
Rogers County									
5 E Catoosa	31	0415CST			0	0			Thunderstorm Wind (G61)
Wind gusts estimated near 70 miles an hour caused tree damage east of Catoosa.									
Tulsa County									
9 E Tulsa	31	0415CST			0	0	0.50K		Thunderstorm Wind
Several trees (3-4 inch tree trunks, 6-8 feet tall) were blown down in the median of 11th Street South near Memorial Drive in Tulsa. A large road sign was blown down onto I-244 near US Hwy 169 in Tulsa.									
Tulsa County									
Broken Arrow	31	0425CST 0430CST			0	0	0.10K		Thunderstorm Wind (G52)
Several large tree limbs were blown down in Wedgewood Park (near 81st and 145th East Avenue) by winds estimated at 60 miles an hour. Throughout Tulsa County, between 15,000 and 20,000 electric customers lost power when the storm caused tree limbs to fall onto power lines, lightning to hit transformers and wind gusts to blow down power lines.									
Rogers County									
Inola	31	0440CST			0	0	0.10K		Thunderstorm Wind
Tree limbs were blown down in Inola.									
Wagoner County									
Coweta	31	0450CST			0	0	0.10K		Thunderstorm Wind
Tree limbs were blown down in Coweta.									
Mayes County									
3 E Locust Grove	31	0500CST			0	0	3K		Thunderstorm Wind
Trees and power lines were blown down east of Locust Grove.									
Wagoner County									
2 E Redbird	31	0510CST			0	0	0.50K		Thunderstorm Wind
Several large trees were blown down east of Redbird at the Hilltop Golf Course.									
Adair County									
Westville	31	0550CST			0	0	0.10K		Thunderstorm Wind
Several 4-inch diameter tree limbs were blown down in Westville.									
Mcintosh County									
Eufaula	31	0605CST			0	0			Thunderstorm Wind (G54)
Latimer County									
Gowen	31	0645CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down in Gowen.									
Pittsburg County									
Hartshorne	31	0645CST			0	0	0.10K		Thunderstorm Wind
Several 6 to 8-inch tree limbs were blown down in Hartshorne.									
Latimer County									
Red Oak	31	0700CST			0	0	0.10K		Thunderstorm Wind
Several 4 to 5-inch tree limbs were blown down in Red Oak.									
Pushmataha									
Clayton	31	0715CST			0	0	0.50K		Thunderstorm Wind
Several trees were uprooted in Clayton. A line of severe thunderstorms moved southward out of Kansas early on the morning of Memorial Day, May 31. This line quickly swept southward through all of eastern Oklahoma before finally weakening below severe limits in far southeast Oklahoma. These storms mainly produced damaging winds.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Caddo County									
2.5 S Anadarko	03	1554CST			0	0			Hail (0.75)
Comanche County									
3 W Elgin	03	1555CST	0.1	25	0	0	0		Tornado (F0)
Tornado A2. See summary at end of May 3rd storm reports.									
Comanche County									
Lake Ellsworth	03	1555CST			0	0			Hail (1.00)
Jackson County									
Altus	03	1555CST			0	0			Hail (0.88)
Caddo County									
4 S Anadarko	03	1556CST			0	0			Hail (1.00)
Caddo County									
4 S Anadarko	03	1556CST			0	0			Hail (1.00)
Caddo County									
4 S Anadarko	03	1556CST			0	0			Hail (1.00)
Caddo County									
2 S Apache	03	1557CST			0	0			Hail (1.75)
Comanche County									
Lake Ellsworth	03	1557CST			0	0			Hail (1.75)
Caddo County									
Anadarko	03	1558CST			0	0			Hail (0.75)
Comanche County									
4 W Elgin	03	1558CST			0	0			Hail (2.00)
Comanche County									
4 W Elgin	03	1558CST			0	0			Hail (2.00)
Comanche County									
4 W Elgin	03	1558CST			0	0			Hail (2.00)
Caddo County									
2 W Cyril	03	1605CST			0	0			Hail (1.00)
Caddo County									
2 W Cyril	03	1605CST			0	0			Hail (1.00)
Jackson County									
2 S Altus	03	1605CST			0	0			Hail (1.00)
Jackson County									
2 S Altus	03	1605CST			0	0			Hail (1.00)
Caddo County									
2 W Cyril	03	1611CST			0	0			Hail (1.75)
Jackson County									
5 N Altus	03	1613CST			0	0	800K		Hail (4.50)
Jackson County									
3 N Altus	03	1613CST			0	0	2K		Thunderstorm Wind
Jackson County									
1 E Blair	03	1615CST			0	0	0.50K		Thunderstorm Wind
Caddo County									
3 E Apache to 2 NE Stecker	03	1620CST 1635CST	6	100	0	3	50K		Tornado (F3)
Tornado A3. See summary at end of May 3rd storm reports.									
Caddo County									
4 S Anadarko	03	1623CST 1632CST			0	0			Hail (1.75)
Caddo County									
3 NW Cyril	03	1626CST	0.1	25	0	0	0		Tornado (F0)
Tornado A4. See summary at end of May 3rd storm reports.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
OKLAHOMA, Western, Central and Southeast										
Kiowa County										
Hobart	03	1626CST			0	0				Hail (0.88)
Kiowa County										
3 S Roosevelt	03	1636CST	0.1	25	0	0	0			Tornado (F0)
										Tornado B1. See summary at end of May 3rd storm reports.
Caddo County										
2 S Anadarko	03	1638CST	0.1	25	0	0	0			Tornado (F0)
										Tornado A5. See summary at end of May 3rd storm reports.
Custer County										
1 N Clinton	03	1643CST			0	0				Hail (0.88)
Caddo County										
3 NNE Cement to 5 NE Cement	03	1646CST 1652CST	2	880	0	0	75K			Tornado (F2)
										Tornado A6 (Caddo County portion). See summary at end of May 3rd storm reports.
Kiowa County										
3 E Cooperton	03	1650CST			0	0				Hail (0.88)
Grady County										
Laverty to 2.5 WNW Chickasha	03	1652CST 1710CST	7	880	0	4	75K			Tornado (F3)
										Tornado A6 (Grady County portion). See summary at end of May 3rd storm reports.
Blaine County										
Gearly	03	1700CST			0	0				Hail (0.88)
Grady County										
5 W Chickasha	03	1707CST 1708CST	1	75	0	0	0			Tornado (F0)
										Tornado A7. See summary at end of May 3rd storm reports.
Grady County										
2 W Chickasha	03	1709CST			0	0				Hail (1.75)
Grady County										
2.5 NW Chickasha to 4 NNE Chickasha	03	1712CST 1721CST	4	500	0	4	500K			Tornado (F2)
										Tornado A8. See summary at end of May 3rd storm reports.
Caddo County										
12 WNW Apache	03	1720CST 1724CST	2	25	0	0	0			Tornado (F0)
										Tornado B2. See summary at end of May 3rd storm reports.
Custer County										
Weatherford	03	1720CST			0	0	10K			Hail (2.75)
Custer County										
Weatherford	03	1720CST			0	0	50K			Thunderstorm Wind
Grady County										
2 SSW Amber to 8 ESE Tuttle	03	1723CST 1800CST	15	1760	12	39	90M			Tornado (F5)
										Tornado A9 (Grady County portion). See summary at end of May 3rd storm reports. F55MH, F44PH, F1PH, F53PH, F59MH, M73MH, F73MH, M50MH, F59MH, F25MH, F41MH, M39MH
Grady County										
5 S Minco	03	1724CST			0	0				Hail (4.50)
Canadian County										
7 N Calumet	03	1730CST			0	0				Thunderstorm Wind (G52)
Grady County										
3 N Amber	03	1730CST			0	0				Hail (1.00)
Caddo County										
8 S Ft Cobb to 1 W Washita	03	1738CST 1759CST	7	150	0	0	20K			Tornado (F1)
										Tornado B3. See summary at end of May 3rd storm reports.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
OKLAHOMA, Western, Central and Southeast									
Caddo County									
5 W Anadarko	03	1756CST	0.1	25	0	0	0		Tornado (F0)
	Tornado B4. See summary at end of May 3rd storm reports.								
Canadian County									
1.5 W Okarche	03	1758CST	0.1	100	0	0	5K		Tornado (F0)
	Tornado C1 (Canadian County portion). See summary at end of May 3rd storm reports.								
Kingfisher County									
9 SSW Kingfisher to 5 SW Kingfisher	03	1758CST 1807CST	4	100	0	0	5K		Tornado (F0)
	Tornado C1 (Kingfisher County portion). See summary at end of May 3rd storm reports.								
Canadian County									
Okarche	03	1800CST	0.1	25	0	0	0		Tornado (F0)
	Tornado C2 (Canadian County portion). See summary at end of May 3rd storm reports.								
Kingfisher County									
9 SSW Kingfisher	03	1800CST	0.1	25	0	0	0		Tornado (F0)
	Tornado C2 (Kingfisher County portion). See summary at end of May 3rd storm reports.								
McClain County									
8 N Blanchard to 4 NE Newcastle	03	1800CST 1812CST	5	1320	1	17	10M		Tornado (F4)
	Tornado A9 (McClain County portion). See summary at end of May 3rd storm reports. F40OU								
Oklahoma County									
Oklahoma City	03	1800CST			0	0			Hail (2.75)
	Hail was reported near the intersection of Reno and Sooner.								
Caddo County									
Washita	03	1804CST			0	0			Hail (2.75)
Caddo County									
Washita	03	1804CST			0	0			Hail (2.75)
McClain County									
3 N Newcastle	03	1810CST	0.2	20	0	0	0		Tornado (F0)
	Tornado A10. See summary at end of May 3rd storm reports.								
Caddo County									
4 NNW Anadarko to 5 NNW Anadarko	03	1812CST 1813CST	1	25	0	0	0		Tornado (F0)
	Tornado B5. See summary at end of May 3rd storm reports.								
Cleveland County									
6 WSW Moore to 4 NE Moore	03	1812CST 1830CST	10	1320	11	293	450M		Tornado (F5)
	Tornado A9 (Cleveland County portion). See summary at end of May 3rd storm reports. M26PH, M24PH, F94PH, M33PH, F30PH, M28PH, F89PH, F4PH, F36PH, M36PH, F26OU								
Cleveland County									
4 W Moore	03	1815CST			0	0			Hail (2.75)
Oklahoma County									
Oklahoma City	03	1815CST			0	0			Hail (2.75)
	Hail was reported near the intersection of 134th and Penn.								
Caddo County									
4 ESE Gracemont	03	1820CST	0.1	25	0	0	0		Tornado (F0)
	Tornado B6. See summary at end of May 3rd storm reports.								
Oklahoma County									
Oklahoma City	03	1824CST			0	0			Hail (2.50)
	Hail was reported near the intersection of SW 89th and Penn.								
Cleveland County									
2 NE Moore	03	1828CST			0	0			Hail (3.00)
Oklahoma County									
Oklahoma City	03	1828CST			0	0			Hail (3.00)
	Hail was reported near the intersection of SW 104th and Sante Fe.								

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
OKLAHOMA, Western, Central and Southeast										
Alfalfa County										
3 WSW Helena	03	1830CST			0	0				Hail (1.75)
Garfield County										
3 NE Drummond	03	1830CST			0	0				Hail (0.75)
Oklahoma County										
4 S Del City to 2 W Midwest City	03	1830CST 1848CST	7	1320	12	234	450M			Tornado (F4)
Tornado A9 (Oklahoma County portion). See summary at end of May 3rd storm reports. M67PH, F75PH, F49PH, M80PH, F60PH, M86PH, F43PH, M62PH, M0PH, F50PH, M37BU, M52BU										
Oklahoma County										
4 S Midwest City to 3.5 S Midwest City	03	1831CST 1832CST	0.5	60	0	0	3K			Tornado (F0)
Tornado A11. See summary at end of May 3rd storm reports.										
Caddo County										
9 E Gracemont to 10 ENE Gracemont	03	1834CST 1835CST	0.5	25	0	0	0			Tornado (F0)
Tornado B7. See summary at end of May 3rd storm reports.										
Oklahoma County										
Tinker Afb	03	1836CST			0	0				Hail (1.00)
Caddo County										
5 S Cogar to 1 E Cogar	03	1837CST 1848CST	5	50	0	0	1K			Tornado (F1)
Tornado B9. See summary at end of May 3rd storm reports.										
Grady County										
8 WSW Minco to 6 WSW Minco	03	1837CST 1840CST	2	300	0	0	1K			Tornado (F1)
Tornado B8. See summary at end of May 3rd storm reports.										
Oklahoma County										
Tinker Afb	03	1843CST			0	0				Hail (1.75)
Grady County										
5 W Minco to 4 NW Minco	03	1847CST 1900CST	4	60	0	0	20K			Tornado (F1)
Tornado B10. See summary at end of May 3rd storm reports.										
Oklahoma County										
3 SW Choctaw to 3 NE Choctaw	03	1853CST 1907CST	7	220	0	4	3.2M			Tornado (F2)
Tornado A12. See summary at end of May 3rd storm reports.										
Grady County										
5 SW Minco	03	1855CST	0.1	50	0	0	15K			Tornado (F1)
Tornado B11. See summary at end of May 3rd storm reports.										
Canadian County										
2.5 WNW Union City	03	1903CST	0.1	25	0	0	0			Tornado (F0)
Tornado B12. See summary at end of May 3rd storm reports.										
Oklahoma County										
4 ESE Jones to 3 E Jones	03	1909CST 1915CST	2	50	0	0	10K			Tornado (F0)
Tornado A13. See summary at end of May 3rd storm reports.										
Canadian County										
2 NNE Union City	03	1913CST 1914CST	0.8	100	0	0	0			Tornado (F0)
Tornado B13. See summary at end of May 3rd storm reports.										
Canadian County										
4 NNE Union City to 5 NNE Union City	03	1916CST 1918CST	1	75	0	0	0			Tornado (F0)
Tornado B14. See summary at end of May 3rd storm reports.										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
OKLAHOMA, Western, Central and Southeast										
Oklahoma County										
3 ENE Jones to 6 NE Jones	03	1917CST 1925CST	4	50	0	0	60K		Tornado (F1)	
Tornado A14. See summary at end of May 3rd storm reports.										
Blaine County										
3 W Geary	03	1921CST	0.1	25	0	0	0		Tornado (F0)	
Tornado E1. See summary at end of May 3rd storm reports.										
Comanche County										
2 N Sterling	03	1924CST			0	0			Hail (0.75)	
Canadian County										
3 ESE El Reno	03	1925CST	0.1	25	0	0	0		Tornado (F0)	
Tornado B15. See summary at end of May 3rd storm reports.										
Canadian County										
10 WNW Calumet to 10 NW Calumet	03	1929CST 1935CST	4	150	0	0	10K		Tornado (F1)	
Tornado E2 (Canadian County portion). See summary at end of May 3rd storm reports.										
Oklahoma County										
Choctaw	03	1930CST			0	0			Hail (2.75)	
Canadian County										
6 WNW Yukon to 3 W Piedmont	03	1934CST 1946CST	6	150	0	0	50K		Tornado (F1)	
Tornado B16. See summary at end of May 3rd storm reports.										
Cleveland County										
15 ESE Norman to 16 E Norman	03	1934CST 1941CST	4	30	0	0	1K		Tornado (F0)	
Tornado D1 (Cleveland County portion). See summary at end of May 3rd storm reports.										
Blaine County										
12 SE Watonga to 13 ESE Watonga	03	1935CST 1937CST	2	150	0	0	5K		Tornado (F1)	
Tornado E2 (Blaine County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
8 S Omega to 7 SSE Omega	03	1936CST 1941CST	3	150	0	0	2K		Tornado (F1)	
Tornado E2 (Kingfisher County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
7 SSE Omega to 7 WNW Kingfisher	03	1941CST 2006CST	12	450	0	4	300K		Tornado (F3)	
Tornado E3. See summary at end of May 3rd storm reports.										
Pottawatomie										
3 SSE Pink to 3 NE Pink	03	1941CST 1952CST	5	30	0	0	75K		Tornado (F1)	
Tornado D1 (Pottawatomie County portion). See summary at end of May 3rd storm reports.										
Garfield County										
Waukomis	03	1944CST			0	0			Hail (1.75)	
Garfield County										
Waukomis	03	1944CST			0	0			Hail (1.75)	
Canadian County										
1.5 W Piedmont to 5 NNW Piedmont	03	1948CST 2000CST	8	200	0	0	50K		Tornado (F2)	
Tornado B17 (Canadian County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
6 W Kingfisher	03	1955CST 1956CST	0.5	50	0	0	0		Tornado (F0)	
Tornado E4. See summary at end of May 3rd storm reports.										
Canadian County										
4 NNE Piedmont to 5 NNE Piedmont	03	1958CST 2001CST	1	150	0	0	2K		Tornado (F1)	
Tornado B18 (Canadian County portion). See summary at end of May 3rd storm reports.										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
OKLAHOMA, Western, Central and Southeast										
Kingfisher County										
12 SE Kingfisher	03	2000CST	0.1	200	0	0	2K		Tornado (F1)	
Tornado B17 (Kingfisher County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
6 SW Cashion to 4 NW Cashion	03	2001CST 2022CST	9	150	0	0	5K		Tornado (F1)	
Tornado B18 (Kingfisher County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
6 WNW Kingfisher	03	2003CST	0.1	25	0	0	0		Tornado (F0)	
Tornado E5. See summary at end of May 3rd storm reports.										
Pottawatomie										
5 WNW Shawnee to 7 E Mc Loud	03	2005CST 2020CST	7	250	1	10	500K		Tornado (F2)	
Tornado D2. See summary at end of May 3rd storm reports. F41MH										
Kingfisher County										
4 SSW Dover to 7 ESE Hennessey	03	2010CST 2038CST	15	880	1	11	2.5M		Tornado (F4)	
Tornado E6. See summary at end of May 3rd storm reports. F46PH										
Logan County										
12 SSW Crescent to 11 SSW Crescent	03	2010CST 2012CST	1	100	0	0	2K		Tornado (F1)	
Tornado B19. See summary at end of May 3rd storm reports.										
Pottawatomie										
6 NNW Shawnee to 9 N Shawnee	03	2020CST 2028CST	3	100	0	0	200K		Tornado (F1)	
Tornado D3 (Pottawatomie County portion). See summary at end of May 3rd storm reports.										
Kingfisher County										
2 ESE Omega to 2 E Omega	03	2022CST 2024CST	0.8	50	0	0	0		Tornado (F0)	
Tornado H1. See summary at end of May 3rd storm reports.										
Logan County										
7 SW Crescent to 1 NE Mulhall	03	2025CST 2112CST	20	1760	1	13	10M		Tornado (F4)	
Tornado B20. See summary at end of May 3rd storm reports. F76PH										
Lincoln County										
2 S Meeker to 4 NE Meeker	03	2028CST 2045CST	8	100	0	0	50K		Tornado (F1)	
Tornado D3 (Lincoln County portion). See summary at end of May 3rd storm reports.										
Comanche County										
Lawton	03	2030CST			0	0			Hail (0.75)	
Kingfisher County										
3 NE Dover to 4 SE Hennessey	03	2030CST 2037CST	4	440	0	0	10K		Tornado (F1)	
Tornado E7. See summary at end of May 3rd storm reports.										
Comanche County										
Lawton	03	2032CST			0	0			Hail (1.00)	
Canadian County										
Oklahoma City	03	2036CST			0	0			Thunderstorm Wind (G61)	
70 mph winds were reported near the intersection of Britton and the N. Canadian River.										
Murray County										
2 S Davis	03	2036CST			0	0			Hail (0.75)	
Oklahoma County										
Oklahoma City	03	2036CST			0	0			Hail (1.00)	
Hail was reported near the intersection of Northwest Expressway and Classen Blvd.										
Oklahoma County										
Oklahoma City	03	2036CST			0	0			Hail (0.75)	
Hail was reported at Will Rogers World Airport.										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Kingfisher County									
3 NW Dover	03	2050CST	0.2	30	0	0	0.10K		Tornado (F0)
		Tornado H2. See summary at end of May 3rd storm reports.							
Canadian County									
3 SW El Reno to 2 SW El Reno	03	2056CST 2058CST	1	50	0	0	25K		Tornado (F0)
		Tornado G1. See summary at end of May 3rd storm reports.							
Kingfisher County									
1 ESE Hennessey	03	2057CST 2102CST	1	150	0	0	30K		Tornado (F2)
		Tornado H3. See summary at end of May 3rd storm reports.							
Canadian County									
1 NNE El Reno to 14 NNE El Reno	03	2103CST 2127CST	16	350	0	0	125K		Tornado (F2)
		Tornado G2 (Canadian County portion). See summary at end of May 3rd storm reports.							
Tillman County									
Frederick	03	2108CST			0	0			Thunderstorm Wind (G60)
Tillman County									
Frederick	03	2108CST			0	0			Thunderstorm Wind (G60)
Lincoln County									
3 NNE Sparks to 4 NE Stroud	03	2110CST 2146CST	14	750	0	13	60M		Tornado (F3)
		Tornado D4 (Lincoln County portion). See summary at end of May 3rd storm reports.							
Tillman County									
Frederick	03	2110CST			0	0			Hail (0.88)
Kingfisher County									
10 ENE Hennessey to 11 ENE Hennessey	03	2116CST 2118CST			0	0	5K		Thunderstorm Wind
Logan County									
3 SW Marshall to 2 ENE Marshall	03	2118CST 2124CST	5	440	0	0	10K		Tornado (F2)
		Tornado H4 (Logan County portion). See summary at end of May 3rd storm reports.							
Logan County									
3 NE Mulhall to 5 NE Mulhall	03	2118CST 2120CST	2	220	0	0	10K		Tornado (F0)
		Tornado B21 (Logan County portion). See summary at end of May 3rd storm reports.							
Logan County									
3 SE Marshall	03	2120CST			0	0			Thunderstorm Wind (G55)
Payne County									
15 W Stillwater to 13 WNW Stillwater	03	2120CST 2127CST	5	880	1	3	100K		Tornado (F2)
		Tornado B21 (Payne County portion). See summary at end of May 3rd storm reports. M45VE							
Garfield County									
9 S Covington to 9 SSE Covington	03	2124CST 2128CST	3	440	0	0	25K		Tornado (F2)
		Tornado H4 (Garfield County portion). See summary at end of May 3rd storm reports.							
Kingfisher County									
9 SSE Kingfisher to 8 SE Kingfisher	03	2127CST 2137CST	6	350	0	0	50K		Tornado (F3)
		Tornado G2 (Kingfisher County portion). See summary at end of May 3rd storm reports.							
Noble County									
8 S Perry to 3 ENE Perry	03	2127CST 2145CST	8	880	0	10	3M		Tornado (F2)
		Tornado B21 (Noble County portion). See summary at end of May 3rd storm reports.							
Major County									
6 S Ringwood	03	2128CST 2130CST	1	200	0	0	5K		Tornado (F1)
		Tornado I1. See summary at end of May 3rd storm reports.							

Storm Data and Unusual Weather Phenomena

May 1999

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									
Logan County									
3 SSE Marshall	03	2130CST			0	0			Thunderstorm Wind (G55)
Kingfisher County									
2 SW Cashion to .5 N Cashion	03	2138CST 2144CST	3	150	0	0	0.50K		Tornado (F0)
Tornado G3 (Kingfisher County portion). See summary at end of May 3rd storm reports.									
Kingfisher County									
8 E Kingfisher	03	2140CST 2141CST	0.5	50	0	0	4K		Tornado (F0)
Tornado G4. See summary at end of May 3rd storm reports.									
Logan County									
9 SW Crescent	03	2144CST	0.1	150	0	0	0.50K		Tornado (F0)
Tornado G3 (Logan County portion). See summary at end of May 3rd storm reports.									
Jackson County									
5 ESE Elmer	03	2145CST			0	0	0.01K		Thunderstorm Wind
Logan County									
2.5 S Crescent to 4 SW Mulhall	03	2150CST 2240CST	13	880	0	13	10M		Tornado (F3)
Tornado G5. See summary at end of May 3rd storm reports.									
Tillman County									
3 NW Grandfield	03	2150CST			0	0			Thunderstorm Wind (G59)
Tillman County									
3 WNW Grandfield	03	2150CST			0	0			Thunderstorm Wind (G59)
Noble County									
5 E Perry	03	2155CST			0	0	2K		Thunderstorm Wind
Comanche County									
3 W Medicine Park	03	2225CST			0	0			Thunderstorm Wind (G57)
Comanche County									
Medicine Park	03	2230CST			0	0			Thunderstorm Wind (G59)
Comanche County									
3 W Medicine Park	03	2230CST			0	0			Thunderstorm Wind (G57)
Logan County									
3 SSW Mulhall to 2 S Mulhall	03	2233CST 2236CST	2	440	0	0	50K		Tornado (F2)
Tornado G6. See summary at end of May 3rd storm reports.									
Comanche County									
3 W Medicine Park	03	2235CST			0	0			Thunderstorm Wind (G53)
Pontotoc County									
10 NW Ada	03	2335CST			0	0			Hail (0.75)
Seminole County									
Seminole	03	2344CST			0	0			Hail (1.75)

A record outbreak of tornadoes struck Oklahoma from late afternoon of May 3, 1999, through early morning of May 4, 1999. To date, 59 tornadoes have been recorded across portions of western and central Oklahoma. Additional tornadoes were reported across eastern Oklahoma from late evening of May 3rd through the early morning of May 4th, and are listed under the eastern Oklahoma portion of Storm Data, provided by the National Weather Service Office in Tulsa, Oklahoma. All direct fatalities (40) and all direct injuries (675) occurred in the Norman National Weather Service warning area. The most notable tornado was rated F5 and formed over Grady County near Amber and tracked northeast for 37 miles eventually into the Oklahoma City metropolitan area. Bridge Creek, Oklahoma City, Moore, Del City, and Midwest City suffered tremendous damage. Thirty-six direct fatalities and 583 direct injuries were recorded. There were many other significant tornadoes as well, including F4 tornadoes in Kingfisher and Logan Counties, and F3 tornadoes in Caddo, Grady, Kingfisher, Logan, and Lincoln Counties. Due to the magnitude of the tornado outbreak, and for easier reference, each tornado has received its own identification. There were 8 tornadic producing thunderstorms, called supercells, and most of them spawned numerous tornadoes, one after another. Occasionally, these thunderstorms spawned tornadoes at the same time. The first tornado producing thunderstorm of the day was labeled storm A, while the last tornado producing thunderstorm of the day was labeled storm I. Tornadoes produced by the same supercell thunderstorm have the same letter and were then numbered chronologically. For example, the 3rd tornado produced by storm B was labeled B3.

Storm A produced 14 tornadoes over a period of about 7 hours and was eventually responsible for the F5 tornado that struck Bridge

Storm Data and Unusual Weather Phenomena

May 1999

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

OKLAHOMA, Western, Central and Southeast

Creek, Oklahoma City and Moore. The 1st tornado of the outbreak, A1, touched down on US 62, 2 miles north of Interstate 44 in Comanche County at 1641 CST. No damage is believed to have occurred (F0). The 2nd tornado, A2, formed approximately 3 miles west of Elgin in Comanche County. Several witnesses confirmed this tornado, however no damage was observed (F0). The 3rd tornado, A3, touched down in a rural area 3 miles east of Apache in Caddo County. As the tornado moved northward to near Anadarko, one house was destroyed near the town of Stecker, with its roof ripped off and several walls knocked down (F3). Three persons inside the house were injured. Several witnesses reported the 4th tornado, A4, 3 miles northwest of Cyril in Caddo County just west of SH 8. No damage was reported (F0). The 5th tornado, A5, formed 2 miles south of Anadarko in Caddo County. Two witnesses reported the tornado to be brief, and no damage was observed (F0).

The 6th tornado, A6, developed about 3 miles north-northeast of Cement near the Caddo/Grady County border, and quickly intensified to a strong tornado with associated damage rated at the high end of the F3 scale. The tornado tracked northeast for 9 miles before dissipating 2.5 miles west-northwest of downtown Chickasha. Two homes had just a few interior walls standing (F3), one located near US 62 on the northwest side of Chickasha, and several wooden high tension power lines were downed. Several persons were injured south of Verden near the Caddo/Grady County border. The 7th tornado, A7, has been referred to as a satellite tornado, and rotated around A6 for a short period of time, 5 miles west of Chickasha in Grady County. Damage from this satellite tornado was not discovered and was therefore rated F0. The 8th tornado, A8, developed 2.5 miles northwest of downtown Chickasha just north of US 62, and tracked northeast, striking the Chickasha Municipal Airport, resulting in high-end F2 damage to two hangar buildings and destroying several aircraft. An aircraft wing, believed to have originated from this airport was eventually carried airborne approximately 45 miles and dropped in southwest Oklahoma City. Approximately 20 mobile homes near the airport were either damaged or destroyed with several persons injured. The tornado then crossed US 81 about 2 miles north of its intersection with US 62 destroying a large building, then dissipated 4 miles north-northeast of downtown Chickasha.

The 9th tornado, A9, was a violent and long-tracked tornado, and eventually produced F5 damage in Bridge Creek, Oklahoma City, and Moore. This tornado developed in Grady County about two miles south-southwest of Amber, and quickly intensified as it crossed State Highway 92. F4 damage was first discovered about 4 miles east-northeast of Amber and extended for 6 1/2 miles, as the tornado continued to move northeast. Two areas of F5 damage were observed. The first was in the Willow Lake Addition, a rural subdivision of mobile homes and some concrete slab homes, in Bridge Creek in far eastern Grady County. Two homes were completely swept from their concrete slabs, and about one dozen automobiles were carried about 1/4 of a mile. All mobile homes in this area in the direct path of the tornado were obliterated, resulting in a high concentration of fatalities. Asphalt pavement about 1-inch thick was also peeled from a section of rural road EW125. The second area of F5 damage was observed about 1 mile west of the Grady/McClain County line and consisted of a cleanly swept slab home with foundation anchor bolts and another vehicle lofted 1/4 of a mile. The maximum width of damage in Bridge Creek was estimated to be 1 mile. Approximately 200 mobile homes/houses were destroyed, and hundreds of other structures were damaged. The Ridgecrest Baptist Church in Bridge Creek was also destroyed. Twelve persons died in Bridge Creek, nine in mobile homes, and all fatalities and the majority of injuries were concentrated in the Willow Lake Addition, Southern Hills Addition, and Bridge Creek Estates, consisting mostly of mobile homes. Compared to sections of Oklahoma and Cleveland Counties, other counties in the path of this tornado which are more densely populated, eastern Grady County including the Bridge Creek area, is rural and sparsely populated.

The tornado maintained a nearly straight path to the northeast paralleling Interstate 44, as it entered McClain County, except when it made a slight jog to the right and moved directly over the 16th Street overpass in Newcastle where a woman was killed when she was blown out from under the overpass. The tornado continued into northern sections of rural Newcastle and crossed the interstate again just north of the US 62 Newcastle interchange. While this tornado was moving through the northern portion of Newcastle, a satellite tornado (A10) touched down in a field in rural north Newcastle, and caused no damage (F0). Two areas of F4 damage were observed in McClain County, all associated with tornado A9. The first area overlapped the Grady/McClain County line and extended to about 3 miles northwest of Newcastle, ending just west of the 16th St. overpass on Interstate 44, while the other area was observed 2 miles northwest of Newcastle. Thirty-eight homes and 2 businesses were destroyed in McClain County, and 40 homes were damaged. Damage then diminished to F2 intensity as the tornado crossed the South Canadian River into northern Cleveland County.

The tornado entered Cleveland County between Portland and May and between SW 164th and SW 179th in south Oklahoma City. Damage was rated F2 in this area with a path width averaging 1/2 of a mile. The first major housing development to be struck in Cleveland County was Country Place Estates located just west of Pennsylvania Ave. where about 50 homes were damaged, with 1 dozen of these homes receiving F4 damage. One slab home was cleanly swept from its foundation, and several vehicles were picked up from the subdivision and tossed across Pennsylvania Ave, a distance of approximately 1/4 of a mile. One vehicle was found under a bridge just east of the intersection of Pennsylvania and SW 134th. This particular area of damage has been rated high F4/low F5. Oklahoma City Police indicated that part of an airplane wing, believed to have originated from Chickasha Municipal Airport in Grady County, landed in this area. The tornado then tracked through Eastlake Estates, a densely populated housing development, located north of SW 134th and between Pennsylvania and Western, where 3 fatalities occurred. Entire rows of homes were virtually flattened to piles of rubble. Four adjacent homes on one street were virtually cleaned off their foundations leaving only concrete slabs, which earned an F5 rating. Three other homes in this housing division also received F5 damage, with the remaining destruction rated high F4. Three persons also died in the 600-unit Emerald Springs Apartments on Western Ave. located across the street from Eastlake Estates. One 2-story apartment building on the north end of the apartment complex was virtually flattened, and received an F5 rating. Westmoore High School, located just north of Eastlake Estates, was also heavily damaged. Although a well-attended awards ceremony was being held at the school during the tornado, no one was injured, however dozens of vehicles in the school parking lot were either damaged or destroyed. F4 damage continued northeast into another residential area east of Western Ave. and south of

Storm Data and Unusual Weather Phenomena

May 1999

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

OKLAHOMA, Western, Central and Southeast

119th St. The tornado then entered the western city limits of Moore (Cleveland County) along Santa Fe and near NW 12th, and produced damage between 1/2 and 3/4 of a mile wide. Maximum damage, rated high F4/low F5, extended northeast to near Janeway with several large groups of homes flattened. Four persons died in this residential area. F4 damage continued to South Shields just north of the junction with Interstate 35. A woman was also killed when she was blown out from under the Shields overpass of Interstate 35. The tornado appeared to weaken just slightly after crossing interstate 35, however it remained a formidable storm with widespread high F3/low F4 damage observed in Highland Park, a residential area, south of the First Baptist Church on 27th St. in Moore. Escaping with relatively minor damage, and being located near the halfway point of the tornado path, the First Baptist Church in Moore eventually served as the primary coordination center for most tornado relief efforts. The tornado then continued northeast and entered the southern portion of a sparsely populated industrial district. F4 damage continued through this area, to near SE 89th St., the Cleveland/Oklahoma County border.

Moving into Oklahoma County, the tornado curved northward, through the remaining industrial district north of Interstate 240 where 2 businesses were destroyed, with the damage rated F4. Two persons were also killed at a trucking company near the intersection of S. Bryant Ave. and Interstate 240. A freight car, with an approximate weight of 18 tons, was picked up intermittently and blown 3/4 of a mile across an open field, with the body of the freight car being deposited southeast of the intersection of S. Sunnyslane Rd. and SE 59th. Gouge marks were observed in the field every 50 to 100 yards, suggesting the freight car had been airborne for at least a short distance. While tornado A9 was moving through southeast Oklahoma City, another tornado (A11) touched down briefly about 1/2 mile south of Interstate 240 (Oklahoma County), near the intersection of SE 80th and Sooner Rd. Damage from tornado A11, rated F0, included fences being blown down and minor roof damage inflicted to a couple of houses. Tornado A9 then entered residential neighborhoods between SE 59th and SE 44th where 1 woman was killed in her house. Crossing SE 44th into Del City (Oklahoma County) the tornado moved through the highly populated Del Aire housing addition killing 6 persons and damaging or destroying hundreds of homes, many with F3/F4 damage. The tornado then crossed Sooner Rd., damaged an entry gate and several costly structures at Tinker Air Force Base, then crossed 29th St. into Midwest City (Oklahoma County), destroying 1 building in the Boeing Complex and damaging 2 others. Widespread F3/F4 damage continued as the tornado moved across Interstate 40 affecting a large business district. Approximately 800 vehicles were damaged at Hudiburg Auto Group, located just south of Interstate 40. Hundreds of the vehicles were moved from their original location, and dozens of vehicles were picked up and tossed northward across Interstate 40 into several motels, a distance of approximately 2 tenths of a mile. Numerous motels and other businesses including Hampton Inn, Comfort Inn, Inn Suites, Clarion Inn, Cracker Barrel, and portions of Rose State College, were destroyed. Some of the damage through this area was rated high F4, however low F5 was considered. The tornado then continued into another residential area located between SE 15th and Reno Ave. where 3 fatalities occurred. High F4 damage was inflicted to 4 homes in this area. Two of these homes were located between SE 12th and SE 11th, near Buena Vista, and the other 2 homes were located on Will Rogers Rd. just south of SE 15th. Damage then diminished rapidly to F0/F1 as the tornado crossed Reno Ave. before dissipating 3 blocks north of Reno Ave. between Sooner Rd. and Air Depot Blvd.

The Oklahoma State Department of Health in Oklahoma City recorded 36 direct fatalities. In addition, 5 persons died of illness or accident during or shortly after the tornado and were not considered in the direct fatality total. Five hundred eighty-three injuries were estimated based on numbers provided from the Department of Health, which were then adjusted to account for persons assumed to be unaccounted for. Injuries which resulted from removing debris, conducting search and rescue efforts, and taking shelter from the tornado, were not considered in the injury total. An estimated 1800 homes were destroyed, and 2500 homes were damaged, resulting in approximately 1 billion dollars in damage.

The 12th tornado, A12, formed about 3 miles southwest of Choctaw in Oklahoma County and produced F2 damage to two homes and lesser damage to many others in the southwest part of Choctaw. The tornado moved into the center of town where a car was thrown over the canopy at a drive-in-restaurant. The business strip located on the north side of NE 23rd was especially affected with several businesses destroyed, including Pizza Hut, Sonic, and Tri-City Youth and Family Shelter. Damage was mainly F1 as it moved northeast, except for F2 damage at a nursing home where one woman was injured. The tornado continued to weaken in rural areas and dissipated near the intersection of NE 50th and Triple XXX Road. In total, damage estimates are near 3.2 million dollars, with 8 businesses destroyed, 130 businesses damaged, 14 homes destroyed, and 23 homes damaged. The 13th tornado, A13, formed about 4 miles east-southeast of Jones in Oklahoma County near the intersection of NE 63rd and Triple XXX Rd., and was captured on video. Only minor damage (F0), was observed as the tornado tracked northward along Triple XXX Rd. for 2 miles before dissipating near Britton. The 14th and final tornado (A14) produced by storm A, formed about 3 miles east-northeast of Jones in Oklahoma County just west of Triple XXX Rd and between Hefner and 122nd, then tracked northward for 4 miles before dissipating near Interstate 44. A ground survey concluded F1 damage occurred to several homes south of the intersection of Memorial and Triple XXX Rd.

Storm B was responsible for producing 21 tornadoes in 5 hours. One of these tornadoes, rated F4, caused 1 fatality, and produced a damage path 20 miles long and 1 mile wide in Logan County. The first tornado, B1, formed about 3 miles south of Roosevelt in Kiowa County near Tom Steed Lake. Touchdown was brief with no damage reported (F0). The 2nd tornado, B2, formed in southwest Caddo County about 12 miles west-northwest of Apache. The tornado was captured on video and remained on the ground for approximately 4 minutes before dissipating. No damage was reported (F0). The 3rd tornado, B3, formed about 8 miles south of Fort Cobb and remained on the ground for 21 minutes covering a distance of 7 miles. Damage, mainly F1, consisted of a destroyed barn 7 miles south of Fort Cobb, a stock trailer which was thrown about 100 yards and a destroyed house garage 6 miles south-southeast of Fort Cobb, and sporadic areas of downed trees and power lines. The 4th tornado, B4, was short-lived and developed about 5 miles west of Anadarko in Caddo County. No significant damage was observed (F0). The 5th tornado, B5, was also short-lived and formed about 4 miles north-northwest of Anadarko in Caddo County. No significant damage was observed (F0). A storm chaser observed the

Storm Data and Unusual Weather Phenomena

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

OKLAHOMA, Western, Central and Southeast

6th tornado, B6, about 4 miles east-southeast of Gracemont in Caddo County. Touchdown was brief with no significant damage (F0). The 7th tornado, B7, was also reported by a storm chaser, and formed about 9 miles east-southeast of Gracemont in Caddo County. The tornado was brief and produced no significant damage (F0). The 8th and 9th tornadoes, B8 and B9, formed nearly simultaneously. Tornado B8 developed about 8 miles west-southwest of Minco in Grady County and was approximately 300 yards wide. The tornado tracked northeast for 2 miles before dissipating. Tornado B9 formed 5 miles south of Cogar in Caddo County and tracked northward for 5 miles. Tornadoes B8 and B9 moved over rural areas with only extensive tree damage observed, and thus were both rated F1. The 10th tornado, B10, was captured on video and formed about 5 miles west of Minco and tracked northeast for 4 miles before dissipating. Maximum damage, rated F1, consisted of small house moved slightly off its foundation with most of its roof blown off. Trees and road signs were also damaged near the end of the tornado track.

The 11th tornado, B11, formed about 5 miles southwest of Minco in Grady County and was observed by off-duty Storm Prediction Center forecasters. The roof was ripped off a house, which would normally warrant an F2 rating, however the structure was considered somewhat unstable, so an F1 rating was assigned. The 12th tornado, B12, formed about 2.5 miles west-northwest of Union City in Canadian County and was captured on video. No significant damage was observed and thus was rated F0. The 13th tornado, B13, formed about 2 miles north-northeast of Union City in Canadian County and was captured on video. No significant damage was reported (F0). The 14th tornado, B14, formed about 4 miles north-northeast of Union City in Canadian County and was also captured on video. No significant damage was reported (F0). The 15th tornado, B15, was also captured on video as it formed about 3 miles east-southeast of El Reno in Canadian County. No significant damage was reported (F0). The 16th tornado, B16, developed about 6 miles west-northwest of Yukon (Canadian County) and tracked northward for 6 miles before dissipating near Piedmont, also in Canadian County. Two witnesses caught this tornado on video. The majority of damage consisted of mangled and downed trees and downed power poles, however 2 mobile homes sustained heavy damage (F1); a barn was destroyed, and 1 cow was killed. The 17th tornado, B17, developed about 1.5 miles west of Piedmont in Canadian County and tracked northward for 8 miles in a zigzag pattern, ending in far south Kingfisher County. Again the majority of damage consisted of downed trees and power poles, however F2 damage was observed about 4 miles northwest of Piedmont where a garage, attached to the house, was destroyed, and a barn and mobile home were completely demolished with debris from the mobile home, mostly corrugated metal, scattered along a 2-mile stretch of road. F1 damage, consisting of large downed trees and leaning power poles, was observed in southern Kingfisher County. The 18th tornado, B18, developed about 4 miles north-northeast of Piedmont in northeast Canadian County and tracked northward for 10 miles before dissipating about 4 miles northwest of Cashion in Kingfisher County. F1 damage was observed in northeast Canadian County, where large trees were uprooted, and numerous power poles were felled or were leaning. F1 damage was also observed 2 miles west of Cashion in Kingfisher County where telephone/utility poles were downed for approximately 100 feet, and an oil storage tank was knocked off its mount. The 19th tornado, B19, formed about 12 miles south-southwest of Crescent in Logan County and was confirmed by an aerial survey. Damage, rated high F0/low F1, was observed for a distance of 1 mile and consisted mostly of downed power poles and strewn about bales of hay.

A very unusual event took place in Logan County where 2 tornadoes, B20 and G5, produced by different thunderstorms, affected much of the same area between Crescent and Mulhall in Logan County. Assessment of damage from the individual tornadoes was difficult and in some areas nearly impossible due to overlapping damage paths. The 1st tornado, B20, formed about 7 miles southwest of Crescent and tracked northeast for 20 miles before dissipating 1 mile northeast of Mulhall. The 2nd tornado, G5, formed about 2 1/2 miles south of Crescent and tracked northeast for 13 miles before dissipating 4 miles southwest of Mulhall. Damage paths were nearly parallel with damage from the 2nd tornado displaced 1/2 mile or less to the north of damage from the 1st tornado. Damage from B20 was first observed about 2 miles west of the intersection of SH33 and SH74 near Twin Lakes Rd., where 2 homes and other businesses were damaged. The width of damage is believed to have increased to nearly 1 mile as it tracked east of Crescent where numerous homes suffered major damage. Damage to 1 brick residence 3 miles east-southeast of Crescent was rated F4. All walls were knocked down, and part of the foundation was removed. The tornado then tracked through the small community of Abell (6 miles southwest of Mulhall), where 1 woman was killed in her home, and 6 persons were injured, and then finally through Mulhall. Approximately 60-70% of Mulhall's 130 homes were severely damaged or destroyed. In addition, Mulhall's primary water source, a water tower, and the Mulhall/Orlando Elementary School were destroyed. The 2nd tornado, G5, occurred about 1 hour and 20 minutes after tornado B20, and also produced widespread damage. Twenty-five homes were destroyed near Crescent, and 30 homes were damaged (F3). Damage here is believed to have been produced by both tornadoes, and near the end of this tornado track, along portions of EW68 Rd. and EW69 Rd., another house received significant roof damage.

The 21st and last tornado produced by storm B formed about 3 miles northeast of Mulhall in northeast Logan County and tracked northeast for 15 miles before dissipating 3 miles east-northeast of Pery in Noble County. Damage was minimal in Logan County, F0, and consisted of tombstones and a fence blown over at a cemetery about 1/2 mile west of the Logan/Payne County border. Along Interstate 35 in northwest Payne County, a semi-truck trailer was overturned, and 2 cars were flipped. The driver of one of the cars was killed when his vehicle, parked under the Interstate 35 overpass at mile-marker 176.5, was picked up and dropped on its top. The worst damage associated with this tornado occurred in Noble County and was observed in the Boonsboro Addition, a mobile home park located along State Highway 86, 6 miles south of Pery. Approximately 20 mobile homes were destroyed and dozens of others were damaged. Damage continued northward to a location 3 miles east of Pery, where 3 homes suffered major damage on US 64 and 1 critical injury was reported. In total, approximately 25 homes were destroyed, and 50 homes were damaged.

Storm C spawned just 2 tornadoes. Both produced minimal damage in Canadian and Kingfisher Counties. The first tornado, C1, formed about 1.5 miles east of Okarche near the Canadian/Kingfisher County border and stayed on the ground for approximately 4 miles moving north-northeast. One barn was destroyed, while another was damaged. The structural integrity of the known destroyed

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

OKLAHOMA, Western, Central and Southeast

barn warranted only an F0 rating. Tornado C2 touched down within the town of Okarche, which is on the Canadian/Kingfisher County border, and was photographed by Okarche residents. No damage was reported (F0).

Storm D produced 4 tornadoes in the Norman National Weather Service warning area, however several tornadoes also formed from this thunderstorm in the Tulsa National Weather Service warning area. The 1st tornado, D1, formed 1 mile north of the community of Etowah (15 miles south-southeast of Norman) in eastern Cleveland County and moved to the north-northeast damaging primarily trees (F0). The tornado then moved into Pottawatomie County and struck the community of Pink where the Pink Baptist Church, located on the south side of State Highway 9, 1.5 miles to the east of the Cleveland/Pottawatomie County line, was significantly damaged. The roof was taken off a new portion of the church, while the roof collapsed on the south side of the older portion of the church over the sanctuary leading to significant water damage. The church was primarily of a cinder block construction with a brick exterior. An F1 rating was applied at the church. A detached large, metal "gymnasium" building to the south of the church was also damaged with the southwest corner of the building caved in and support beams bent. The tornado continued to the northeast before dissipating just inside the city limits of Bethel Acres near Stevens Road, between Waco Road and Hardesty Road. With the exception of the church buildings, damage was limited to trees and power lines. The 2nd tornado, D2, formed in rural Pottawatomie County near Independence Road and Drummond Road or about 6 miles west-northwest of Downtown Shawnee. A few trees were damaged as the tornado moved northeast into the Clarks Heights addition along US-270, just south of Interstate 40. At 45th Street, a portion of a roof was blown off; a nursery was damaged; awnings were destroyed, and trees were downed. As the tornado crossed US-270, the air conditioner was taken off the roof of the El Charro restaurant. Continuing northeast into the West Gate neighborhood, fifteen homes suffered significant damage. Three homes were completely unroofed, warranting an F2 rating, and a number of others were partially unroofed. Other homes suffered shingle damage; a number of large trees were downed, and a garage was collapsed. Signs were also downed along the interstate adjacent to this neighborhood. The next area of significant damage was along the 38800 block of Garrett's Lake Road where a mobile home was destroyed, with the frame of the home blown 50 to 75 yards to the northwest. The disintegration of the mobile home indicated a high F1 or borderline F2 intensity in this area. A few hundred yards to the northeast, the warehouse of Shawnee Light Systems was damaged; one large metal storage building was unroofed, and other buildings were damaged. The tornado crossed Acme Road and struck a number of double-wide mobile homes along Valley View Drive, where one fatality and one serious injury occurred in the same home. The mobile homes most heavily damaged in this area were destroyed, but not disintegrated. To the north, a barn was destroyed, and trees were damaged as the tornado crossed Wolverine Road. The tornado then curved to the north-northwest crossing Acme Road damaging more trees before dissipating.

The 3rd tornado, D3, touched down about a mile southeast of where D2 dissipated, or along Wolverine Road and 1/2 mile east of Acme Road just outside the Shawnee city limits in Pottawatomie County, where it destroyed an outbuilding and damaged trees. The tornado then moved northeast continuing to damage large trees before striking the Country Meadow housing addition in far north Shawnee. A number of homes in this neighborhood were damaged, two partially unroofed. The homes in this neighborhood appeared to be well-constructed and were approximately two to five years old. Damage here was consistent with high-end F1 damage. The tornado continued northeast downing power lines as it moved into Lincoln County 3 miles south-southwest of Meeker. At a point two miles south-southwest of Meeker, a double-wide mobile home was destroyed; a fifth wheel was tossed, and a large apple tree and a very large black jack oak tree were destroyed. The tornado then moved northeast into the eastern sections of Meeker. Along US Highway 62 a couple of buildings suffered shingle and roof damage; a business sign was destroyed; a shed was destroyed and carried north over the adjacent house, and trees were downed. Scattered tree damage continued to a point four miles northeast of Meeker. Damage in Lincoln County was also rated F1.

The final tornado (D4) produced by storm D formed 3 miles north-northeast of Sparks in Lincoln County. From this point extending north-northeast toward Davenport, only sporadic tree damage was observed. The tornado then inflicted scattered and mostly minor damage to houses and businesses in southeast portions of Davenport consistent with a high F0/low F1 rating, however a house just south of Davenport did lose more than half its roof. The tornado then continued northeastward toward Stroud remaining nearly parallel with Interstate 44 and State Route 66. In Stroud, the three largest employers of Stroud were heavily damaged. On the west side of Stroud along State Highway 66, the tornado hit the Sygma food distribution warehouse. The southeast section of the warehouse, a large free-span structure, suffered significant damage. Three semi-trucks at the warehouse were overturned. Some of the girders and siding from the warehouse were thrown to the northwest across State Highway 66. Farther east along State Highway 66 the Stroud Municipal Hospital suffered significant roof damage, which then caused significant water damage within the hospital. The pattern of the trees that were felled adjacent to the hospital suggested a multiple-vortex structure to the tornado at this point. Damage is estimated to be F2 along State Highway 66. As the tornado continued to move northeast along the turnpike, a McDonald's received minor damage, while an adjacent gas station had all its windows blown out. Semi-trucks parked in the gas station parking lot were also destroyed. On the north side of the turnpike on Old Stroud Road, a group of seven mobile homes was completely destroyed, three of which were lived in, however none were occupied when the tornado struck. The degree of destruction of these mobile homes indicated an F2 rating in this area. To the north, a large house being built (although most of the exterior of the house was completed) suffered roof and siding damage, especially on the east side. Much of the newly-laid interior wood flooring was destroyed by water. A number of homes in a neighborhood on the south side of the turnpike were damaged. At least two houses lost roofs with more minor roof and siding damage to others. Some of the worst damage, rated F3, occurred near the Tanger Outlet Mall, which was hit next by the tornado. Almost all of the stores suffered at least roof damage, however a section of 7 storefronts was destroyed. This section included four stores: Dress Barn, Corning, Mikasa, and a housewares store. At the eastern most section of the building, the exterior walls of the Levi's store collapsed inward. This store was a couple of hundred yards away from the other destroyed section. Local officials from Stroud had evacuated the mall before the tornado struck (approximately 2139 CST), and thus there were no fatalities or injuries in this area. Just south of the outlet mall, a Best Western motel lost part of its roof, and a Wendy's restaurant suffered a

Storm Data and Unusual Weather Phenomena

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

OKLAHOMA, Western, Central and Southeast

partially collapsed roof and broken windows. North of the outlet mall, a number of homes were damaged or destroyed in the Midway mobile home park. As the tornado moved northeast out of Stroud, a number of high-tension electrical towers were downed, and a few trees were downed before the tornado moved into Creek County (Tulsa National Weather Service warning area) about one mile north of the turnpike, dissipating south of Stroud Lake.

Storm E produced 7 tornadoes, including an F4 tornado, that caused extensive damage to Dover in Kingfisher County. The 1st tornado, E1, was very brief and caused no damage (F0), as it formed about 3 miles west of Geary in Blaine County. The 2nd tornado, E2, formed in extreme northwest Canadian County and tracked northeast for 11 miles, clipping the southeast corner of Blaine County, before entering southwest Kingfisher County, eventually dissipating 7 miles south-southeast of Omega. Structural damage was confined mainly to outbuildings and roofs of a mobile home and house, however extensive tree damage with some large uprooted trees occurred along much of the tornado path, warranting an F1 rating in each county. The 3rd tornado, E3, formed 7 miles south-southeast of Omega in Kingfisher County and tracked northeast for 12 miles before dissipating 7 miles northwest of Kingfisher. Extensive tree damage and damage to 1 farmstead occurred during the first 2.5 miles of its path. The tornado then reached its maximum width of about 1/4 of a mile, 5 miles west-northwest of Kingfisher where a large, well-built brick home was severely damaged. Although anchored to the foundation, half the walls were collapsed or missing, and the roof was gone, warranting an F3 rating. Along the remainder of the path, a handful of other homes had minor damage, and 7 mobile homes and numerous outbuildings were destroyed or severely damaged. There was also damage to trees, telephone poles, and farm equipment. The 4th tornado, E4, was short-lived and small, and has been referred to as a satellite tornado, and formed about 6 miles west of Kingfisher while tornado E3 was most intense. This tornado rotated around E3 for a short period of time before dissipating. No damage was observed (F0). Another satellite tornado, E5, formed 6 miles west-northwest of Kingfisher and also rotated briefly around E3. Its life-span was short, and there was no damage (F0).

The 6th tornado, E6, produced a damage path 15 miles long and 1/2 mile wide as it tracked through Kingfisher County. The city of Dover took a direct hit. About one-third of Dover's structures were destroyed. The tornado formed 4 miles south-southwest of Dover, and traveled north-northeast crossing route 81 on the north side of Dover, dissipating about 7 miles east-southeast of Hennessey. F4 damage was observed on the west side of Dover where a steel-reinforced concrete building only had a few walls remaining; large vehicles were rendered apart; mobile homes frames were wrapped around tree trunks; and trees lost all their branches and most of their bark. One woman was killed inside a large frame home that collapsed. Approximately 34 mobile homes and houses were either damaged or destroyed in Dover. Outside of Dover, damage was rated primarily F1 and was confined to trees, telephone poles, farm equipment, and outbuildings. While tornado E6 continued moving northeast of Dover, another tornado, E7, formed about 3 miles northeast of Dover. This tornado formed near tornado E6 and tracked north-northeast for 4 miles over open county. F1 damage to trees, telephone poles, farm equipment, and outbuildings was observed.

To avoid confusion with F-scale ratings, no storm F was assigned. The fifth tornadic supercell, storm G, produced 6 tornadoes, 2 which produced F3 damage. The 1st tornado, G1, formed near the southwest edge of El Reno in Canadian County just southwest of Interstate 40 and County Club Rd. Minor damage, rated F0, was confined to trees, ballfield equipment at Redlands Community College, and a few roofs. The 2nd tornado, G2, formed about 1 mile northeast of El Reno in Canadian County and tracked north for 22 miles, varying in width from 100 to 500 yards, before dissipating 8 miles south-southwest of Kingfisher in Kingfisher County. Two mobile homes were destroyed, and 3 other homes received F1 damage. The remainder of damage was confined to telephone poles, trees, and outbuildings. About 2.5 miles into the path of the tornado, F2 damage occurred, and the top of a 500 ft. transmission tower was blown off. Near the end of the tornado path, F3 damage occurred about 9 miles southeast of Kingfisher, where a 3000 pound oil storage tank was moved for 1/2 of a mile. While the tank rolled for some distance, it was clear the tank was airborne. Trees in this area were also partially debarked. The 3rd tornado, G3, formed 2 miles southwest of Cashion in Kingfisher County and produced only minor damage, F0, as it tracked northeast for 3 miles to near the Kingfisher/Logan County border. The 4th tornado, G4, was very short-lived and formed about 8 miles east of Kingfisher in Kingfisher County. The tornado was less than 50 yards wide and damaged outbuildings and trees (F0) as it moved northeast across Highway 33. A description of the 5th tornado, G5, was listed above with tornado B20. Tornado G5 tracked over nearly the same portion of Logan County as tornado B20. At times, damage caused by tornado B20 was indistinguishable from damage caused by tornado G5. The 6th and final tornado (G6) produced by storm G, formed about 3 miles south-southwest of Mulhall in Logan County, just south of the damage track produced by another tornado (B20) that moved through Mulhall earlier in the evening. Although somewhat difficult to determine, due to possible damage from tornado B20, the most extensive damage (F2) from this tornado is believed to have consisted of major structural damage to a brick house near the intersection of Highway 77 and EW 68, where the majority of the roof was ripped off, and one exterior wall was partially knocked down. Additional damage occurred to a railroad crossing, trees, and power poles.

Storm H spawned 4 tornadoes. The first tornado, H1, formed 2 miles east-southeast of Omega in Kingfisher County and was reported by a storm chaser. No significant damage is believed to have occurred (F0). The 2nd tornado, H2, formed about 3 miles northwest of Dover in Kingfisher County and was determined from storm chaser accounts and a damage survey. Damage, rated F0, consisted of snapped and uprooted trees. The 3rd tornado, H3, formed about 1 mile east-southeast of Hennessey in Kingfisher County and moved to the east-southeast for 1 mile. Major damage, rated high-end F2, was inflicted to one farm house and an old abandoned house near the beginning of the tornado track, and a handful of outbuildings were completely destroyed. Additionally, heavy farm equipment was moved several hundred yards, and trees sustained major damage. The 4th and final tornado, H4, formed 3 miles southwest of Marshall in Logan County and tracked over mostly rural land, affecting 2 residences before dissipating in southeast Garfield County. An old, abandoned house near Marshall in northwest Logan County was completely destroyed (F2). Damage at another residence in southeast Garfield County included 3 destroyed grain bins, 1 which was tossed about a 1/2 mile. A pole barn was also destroyed with

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

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the remnants strewn about a 150 yard wide area, and an addition to a house was ripped off. Massive trees some with trunk diameters the size of a small car where also ripped completely out of the ground and tossed up to 200 yards. This tree damage occurred over an area covering several miles and overlapped the Logan/Garfield County border.

The final tornado producing thunderstorm, storm I, produced just one tornado. This tornado, II, formed 6 miles south of Ringwood in Major County and unroofed an office building of a feed lot, while also damaging an irrigation system. Damage caused by this tornado was rated F1.

There were also numerous reports of large hail and damaging straight-line winds during the tornado outbreak. Hail to the size of softballs (4.5 inches) smashed hundreds of vehicles and damaged many buildings 5 miles north of Altus in Jackson County. At least 400 individual claims were received by local insurance offices with total damage near \$800,000, and in Weatherford in Custer County, hail to the size of baseballs (2.75 inches) dented vehicles and broke many windows. Straight-line winds blew the roof off an apartment complex in the 100 block of McCormick in the Western Hills area of Weatherford in Custer County, ripped the roof off a barn 3 miles north of Altus in Jackson County, and blew out windows of a trailer 1 mile east of Blair in Jackson County. Straight-line winds also caused widespread tree damage 10 miles northeast of Hennessey in Kingfisher County, blew down power poles 5 miles east of Perry in Noble County, and knocked down large tree limbs 5 miles east-southeast of Elmer in Jackson County.

Cleveland County

7 NNE Norman to 9 NNE Norman	04	0600CST 0603CST	2	50	0	0	1K	Tornado (F0)
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Cleveland County

Norman	04	0600CST			0	0	2K	Thunderstorm Wind
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Kay County

Ponca City	04	0600CST			0	0	10K	Lightning
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Kay County

Ponca City	04	0600CST			0	0	1K	Thunderstorm Wind
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Oklahoma County

Midwest City	04	0615CST			0	0		Hail (0.88)
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Canadian County

1 SE Union City	04	0620CST			0	0		Hail (1.00)
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Jackson County

Friendship	04	0645CST			0	0		Hail (0.88)
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Kay County

3 E Ponca City	04	0655CST			0	0	0.50K	Thunderstorm Wind
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Kay County

Ponca City	04	0655CST			0	0	0.10K	Thunderstorm Wind
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Lincoln County

Agra	04	0707CST			0	0	0.10K	Thunderstorm Wind
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Oklahoma County

Oklahoma City	04	0710CST			0	0		Hail (1.00)
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Hail was reported about 1 mile south of Wiley Post Airport.

Payne County

Yale	04	0730CST			0	0	20K	Lightning
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Garvin County

Pauls Valley	04	0800CST			0	0	0.50K	Thunderstorm Wind
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Comanche County

3 S Elgin	04	0845CST			0	0		Hail (0.88)
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Atoka County

Atoka	04	0930CST			0	0		Thunderstorm Wind (G52)
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Oklahoma County

4 N Bethany	04	0930CST			0	0		Hail (1.00)
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Pontotoc County

Allen	04	1138CST			0	0		Hail (1.00)
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Stephens County

Duncan	04	1420CST			0	0	0.10K	Thunderstorm Wind
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Severe thunderstorms affected parts of southwest and central Oklahoma from early morning through mid-afternoon of the 4th. One tornado, rated F0, was observed by 2 persons about 7 miles north-northeast of Norman in Cleveland County, near Stanley Draper

Storm Data and Unusual Weather Phenomena

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

OKLAHOMA, Western, Central and Southeast

Lake. The only known damage occurred to fences, which were blown down near the intersection of Midwest Blvd. and SE 149th. There were also numerous reports of straight-line wind damage associated with other severe thunderstorms. Several trees were blown down at 0600 CST on Pecan Rd. and Kyme Rd. in Ponca City in Kay County. Trees were reported down again in Ponca City at 0655 CST, and power lines were downed 3 miles east of Ponca City. The last report of damage from Kay County involved a lightning strike. Lightning struck the roof of a house on North 5th St. in Ponca City, causing a large fire. Lightning also struck a barn in Yale in Payne County, setting it on fire, which then spread to a nearby barn. Other reports of damage included a blown down fence at the Postal Service Training Center in Norman in Cleveland County, large tree limbs blown down in Agra in Lincoln County, large tree limbs and power lines downed in Pauls Valley in Garvin County, and a large tree blown down at Elks Country Club in Duncan in Stephens County.

OKZ016

Custer

04	1200CST		0	3	15K	High Wind
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High winds, not associated with a thunderstorm, blew a trailer over on Interstate 40 just west of Clinton. Three persons in the trailer were injured.

Kingfisher County

10 SSE Omega	04	1730CST	0	0	Thunderstorm Wind (G52)
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Logan County

Orlando	04	1800CST	0	0	Hail (1.00)
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Logan County

1 S Orlando	04	1800CST	0	0	Hail (0.75)
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Bryan County

Durant	05	0555CST	0	0	0.10K	Thunderstorm Wind (G57)
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Bryan County

Bokchito	05	0620CST	0	0	0.10K	Thunderstorm Wind
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An isolated severe thunderstorm developed over Bryan County during the early morning of the 5th, resulting in numerous downed trees in Durant and Bokchito.

Beckham County

4 ESE Erick	09	1655CST	0	0	15K	Thunderstorm Wind (G58)
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Ellis County

5 E Arnett	09	1708CST	0	0	0.01K	Thunderstorm Wind
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Winds were estimated between 60 mph and 80 mph.

Dewey County

4 WNW Camargo	09	1725CST	0	0	Thunderstorm Wind (G50)
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Washita County

3 W Canute	09	1725CST	0	0	Hail (0.75)
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Woodward

Woodward	09	1734CST	0	0	Thunderstorm Wind (G55)
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Beckham County

7 SW Elk City	09	1745CST	0	0	15K	Thunderstorm Wind
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Kiowa County

12 NW Lone Wolf	09	1748CST	0	0	Thunderstorm Wind (G50)
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Custer County

5 W Custer City	09	1750CST	0	0	Thunderstorm Wind (G56)
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Dewey County

3 N Putnam	09	1750CST	0	0	Thunderstorm Wind (G50)
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Harper County

15 SE Selman	09	1800CST	0	0	Thunderstorm Wind (G52)
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Woods County

Freedom	09	1805CST	0	0	Thunderstorm Wind (G54)
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Greer County

10 W Mangum	09	1811CST	0	0	Hail (0.75)
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Kiowa County

6 SSW Lone Wolf	09	1811CST	0	0	Hail (0.75)
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Blaine County

Canton	09	1815CST	0	0	20K	Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

May 1999

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									
Blaine County									
Watonga	09	1815CST			0	0			Thunderstorm Wind (G52)
Custer County									
5 NE Thomas	09	1815CST			0	0			Thunderstorm Wind (G52)
Woodward									
6 N Mooreland	09	1815CST			0	0			Thunderstorm Wind (G52)
Kiowa County									
3 SE Cooperton	09	1827CST			0	0			Hail (0.88)
Kiowa County									
Gotebo	09	1841CST			0	0			Hail (0.75)
Alfalfa County									
Ingersoll	09	1850CST			0	0	25K		Thunderstorm Wind
Major County									
4 S Ringwood	09	1853CST			0	0			Hail (0.75)
Jackson County									
9 S Altus	09	1914CST			0	0			Thunderstorm Wind (G50)
Tillman County									
4 S Tipton	09	1925CST			0	0			Thunderstorm Wind (G59)
Kiowa County									
Roosevelt	09	1930CST			0	0			Hail (0.75)
Caddo County									
8 S Carnegie	09	2000CST			0	0			Hail (0.75)
Comanche County									
Fletcher	09	2034CST			0	0			Hail (1.00)
Caddo County									
1 NE Cyril	09	2036CST			0	0			Hail (1.00)
Grady County									
8 N Verden	09	2040CST			0	0			Hail (1.00)
Tillman County									
3 WNW Grandfield	09	2055CST			0	0			Thunderstorm Wind (G59)
Stephens County									
2 NE Marlow	09	2105CST			0	0			Thunderstorm Wind (G63)
Cleveland County									
Norman	09	2135CST			0	0			Hail (0.88)
			Hail was reported near the intersection of NE 12th and Rock Creek.						
Johnston County									
Tishomingo	09	2339CST			0	0			Hail (0.88)
Atoka County									
5 E Stringtown	10	0015CST			0	0			Hail (0.88)
Bryan County									
Colbert	10	0110CST			0	0			Hail (0.75)
			Severe thunderstorms affected a large part of western Oklahoma and a small portion of central Oklahoma from late afternoon through the evening of the 9th. In addition to numerous reports of 60 mph winds and large hail, a mobile home was blown over 4 miles east-southeast of Erick in Beckham County; the roof of a mobile home was blown off 7 miles southwest of Erick, also in Beckham County; the steeple was blown off of Canton Christian Church in Canton in Blaine County; and large tree limbs were downed 5 miles east of Arnett in Ellis County. The final report of damage came from Alfalfa County where a roof was ripped off a mobile home, a storage trailer was blown over, and signs were downed.						
Atoka County									
Atoka	11	1905CST			0	0			Hail (0.75)
Kiowa County									
.5 S Hobart	15	1857CST			0	0			Hail (0.88)
Kiowa County									
.5 S Hobart	15	1910CST			0	0			Hail (0.88)

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	
OKLAHOMA, Western, Central and Southeast									
Kiowa County									
7 S Hobart	15	1910CST			0	0			Hail (1.00)
Kiowa County									
4 SW Hobart	15	1915CST			0	0			Hail (1.00)
Beckham County									
Erick	16	1827CST			0	0			Hail (1.75)
Beckham County									
Erick	16	1829CST			0	0			Hail (0.75)
Woods County									
Waynoka	16	1830CST			0	0			Hail (1.00)
Dewey County									
Seiling	16	1835CST			0	0			Hail (1.75)
Dewey County									
Seiling	16	1835CST			0	0	0.50K		Thunderstorm Wind
Greer County									
15 NW Willow	16	1840CST			0	0			Thunderstorm Wind (G52)
Beckham County									
Sayre	16	1900CST			0	0	20K		Thunderstorm Wind
Jackson County									
Altus	16	1900CST			0	0	0.20K		Lightning
Roger Mills									
7 N Cheyenne	16	1900CST			0	0			Hail (0.75)
Roger Mills									
1 NW Cheyenne	16	1900CST			0	0			Thunderstorm Wind (G51)
Beckham County									
5 N Carter	16	1920CST			0	0			Thunderstorm Wind (G52)
Woodward									
3 S Sharon	16	1927CST			0	0			Hail (2.50)
Greer County									
Mangum	16	1930CST			0	0	3K		Thunderstorm Wind
Dewey County									
Camargo	16	1932CST			0	0			Hail (0.75)
Beckham County									
Elk City	16	1945CST			0	0	40K		Thunderstorm Wind
Custer County									
5 SW Butler	16	1945CST			0	0			Thunderstorm Wind (G50)
Woods County									
14 NE Camp Houston	16	1945CST			0	0			Hail (1.00)
Washita County									
3 W Canute	16	1950CST			0	0			Thunderstorm Wind (G61)
Blaine County									
Watonga	16	2000CST			0	0	0.50K		Thunderstorm Wind
Custer County									
Arapaho	16	2030CST			0	0			Thunderstorm Wind (G61)
Woods County									
18 NW Lookout	16	2030CST			0	0			Hail (1.25)
Woodward									
15 N Mooreland	16	2030CST			0	0			Hail (1.00)
Tillman County									
Frederick	16	2045CST			0	0	2K		Thunderstorm Wind

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	
OKLAHOMA, Western, Central and Southeast									
Woods County									
8 NE Lookout	16	2045CST			0	0			Thunderstorm Wind (G52)
Tillman County									
2 W Hollister	16	2055CST			0	0			Thunderstorm Wind (G52)
Kingfisher County									
Loyal	16	2110CST			0	0			Thunderstorm Wind (G56)
Comanche County									
Faxon	16	2115CST			0	0			Hail (0.88)
Cotton County									
15 N Walters	16	2120CST			0	0			Thunderstorm Wind (G52)
Garfield County									
Drummond	16	2124CST			0	0			Thunderstorm Wind (G52)
Garfield County									
Garber	16	2128CST			0	0	5K		Thunderstorm Wind
Major County									
Oriente	16	2130CST			0	0	25K		Thunderstorm Wind
Major County									
Fairview	16	2135CST			0	0	2K		Lightning
Major County									
Ames	16	2145CST			0	0	2K		Thunderstorm Wind
Garfield County									
Enid	16	2154CST			0	0	55K		Lightning
Stephens County									
1 W Marlow	16	2155CST			0	0			Hail (0.88)
Stephens County									
1 W Marlow	16	2159CST			0	0			Hail (1.00)
Stephens County									
1 W Marlow	16	2207CST			0	0			Thunderstorm Wind (G50)
Stephens County									
Duncan	16	2210CST			0	0	35K		Thunderstorm Wind
Stephens County									
6 SW Marlow	16	2210CST			0	0	2K		Thunderstorm Wind
Grady County									
6 SE Rush Spgs	16	2215CST			0	0			Hail (0.88)
Kay County									
8 E Ponca City	16	2245CST			0	0	5K		Thunderstorm Wind
Stephens County									
5 E Bray	16	2245CST			0	0	1K		Thunderstorm Wind
Cotton County									
5 N Randlett	16	2300CST			0	0			Hail (1.00)
Garvin County									
Maysville	16	2340CST			0	0	15K		Thunderstorm Wind
Garvin County									
Pauls Valley	16	2345CST			0	0	0.10K		Thunderstorm Wind
Seminole County									
1.5 S Seminole to 1 N Seminole	16	2348CST 2358CST			0	0	200K		Thunderstorm Wind (G61)
Seminole County									
4 E Seminole	17	0003CST			0	0	5K		Thunderstorm Wind
Blaine County									
Geary	17	0100CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Blaine County									
Watonga	17	0100CST			0	0	1K		Lightning
Cleveland County									
Norman	17	0129CST			0	0			Hail (1.75)
Hail was reported on the University of Oklahoma campus.									
McClain County									
Goldsby	17	0130CST			0	0			Hail (1.75)
McClain County									
Goldsby	17	0130CST			0	0			Thunderstorm Wind (G56)
Kingfisher County									
3 S Kingfisher	17	0150CST			0	0			Hail (0.88)
Canadian County									
8 E Okarche	17	0200CST			0	0			Hail (0.75)
Garfield County									
3 S Fairmont	17	0300CST			0	0			Hail (0.75)
<p>Severe thunderstorms formed over portions of western Oklahoma during the evening of the 16th, and moved into portions of central Oklahoma during the early morning of the 17th. In Beckham County, several trees and a mobile home were blown over in Sayre, and in Elk City, two barns were blown down; trees were uprooted, and the Grandview Assembly of God Church was damaged. A trampoline was destroyed at Sander Sporting Goods and ATVs in Seiling in Dewey County. A power pole was blown over onto a small building in Mangum in Greer County. Numerous trees were downed in Watonga in Blaine County. Large tree limbs and a fence were blown down at the intersection of 14th and Hermosa in Frederick in Tillman County. The roof of Garber High School was damaged in Garber in Garfield County. One mobile home was destroyed, and 1 mobile home was damaged in Orienta in Major County, and the roof of a barn was blown off in Ames in Major County. In Stephens County, a barn was destroyed 6 miles southwest of Marlow; several trees were downed on State Highway 29, and a dog was killed 5 miles east of Bray, while in Duncan, also in Stephens County, the roof and doors were ripped off a storage building at Duncan Industrial Authority; another storage trailer was blown over; power poles were downed, and minor structural damage occurred to the Gatlin Baptist Church. Another barn was destroyed 8 miles east of Ponca City in Kay County, numerous trees downed in Pauls Valley in Garvin County, while in Maysville, also in Garvin County, trees were downed onto 2 vehicles; a barn was damaged; and a dog kennel was destroyed. Across Seminole County, outhouses and trees were damaged 4 miles east of Seminole, and major straight-line wind damage was reported from 1.5 miles south of Seminole to 1 mile north of Seminole. This damage included roof damage to Van Sanford Apartments, National Guard Amory, Medicus, and a motor pool. In addition, a bus hood was destroyed at Lincoln School; portable bleachers were damaged at a little league park and softball park; a dugout was damaged at a ballpark; a garden center at WalMart was damaged; the roof and windows at Happy Foods were damaged; numerous vehicles were damaged; signs were downed, and many trees were blown down.</p> <p>Lightning strikes were responsible for some damage as well. Lightning struck a power pole on Veteran's Drive in Altus in Jackson County, knocking out power to several businesses for several hours. Lightning struck a barn in Fairview in Major County, setting it on fire, and lightning struck the roof of a house on Cellardoor Lane in Enid in Garfield County, causing a major fire that destroyed the house. The final report of a lightning strike came from Watonga in Blaine County, where lightning struck the control box of a warning alarm system for Watonga, destroying it and setting off numerous false alarms.</p>									
Oklahoma County									
Oklahoma City	20	1422CST			0	0			Hail (0.75)
Hail was reported at a north Oklahoma City television station.									
Harper County									
7 WNW Laverne	20	1755CST 1800CST			0	0			Hail (0.75)
Ellis County									
3 N Catesby	20	1835CST			0	0			Thunderstorm Wind (G61)
Ellis County									
9 NE Catesby	20	1847CST			0	0			Thunderstorm Wind (G52)
Ellis County									
10 N Gage	20	1910CST			0	0			Thunderstorm Wind (G52)
Ellis County									
9 N Gage	20	1914CST			0	0			Hail (0.75)
Woodward									
4 NW Tangier	20	1920CST			0	0			Thunderstorm Wind (G52)
Jackson County									
9 W Eldorado	20	2055CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Jackson County									
Eldorado	20	2110CST			0	0			Hail (1.00)
Greer County									
Granite	20	2120CST			0	0			Hail (0.75)
Alfalfa County									
9 NE Amorita	20	2130CST			0	0			Hail (1.75)
Kiowa County									
2 S Lone Wolf	20	2135CST			0	0			Hail (0.88)
Alfalfa County									
10 E Byron	20	2145CST 2155CST			0	0			Hail (1.00)
Grant County									
10 W Wakita	20	2145CST 2155CST			0	0			Hail (1.00)
Grant County									
9 W Wakita	20	2215CST			0	0			Hail (0.88)
Major County									
Fairview	20	2243CST			0	0			Hail (0.75)
Garfield County									
5 W Bison	20	2330CST			0	0			Hail (1.00)
Garfield County									
5 W Bison	20	2330CST			0	0			Thunderstorm Wind (G52)
Payne County									
Stillwater	21	0045CST			0	0			Thunderstorm Wind (G52)
Payne County									
4 W Stillwater	21	0047CST			0	0			Hail (0.88)
Payne County									
1 NE Perkins	21	0100CST			0	0			Hail (1.00)
Carter County									
Wilson	21	0315CST			0	0			Hail (0.75)
Carter County									
Wilson	21	0315CST			0	0			Thunderstorm Wind (G52)
Harper County									
Buffalo	22	0450CST			0	0			Hail (0.75)
Alfalfa County									
1 N Carmen	22	1153CST			0	0			Hail (0.75)
Kay County									
8 NE Newkirk	22	1223CST			0	0			Hail (0.88)
Noble County									
7 W Red Rock	22	1437CST			0	0			Hail (1.00)
Noble County									
Red Rock	22	1502CST			0	0			Hail (0.88)
Noble County									
Red Rock	22	1515CST			0	0			Hail (1.00)
Kay County									
Ponca City	22	1542CST			0	0			Hail (1.75)
Kay County									
Ponca City	22	1550CST			0	0			Thunderstorm Wind (G52)
Kay County									
East Portion	22	1610CST			0	0	0		Flood
Payne County									
3 SE Glencoe	22	1655CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Payne County									
Yale	22	1725CST			0	0			Hail (1.25)
Payne County									
6 N Cushing	22	1728CST			0	0			Hail (1.00)
Severe thunderstorms affected portions of northern Oklahoma during the afternoon and early evening of the 22nd, resulting in many reports of large hail and flooding across portions of eastern Kay County, where many roads were reported to be flooded.									
Kay County									
Newkirk	23	0130CST			0	0	0		Flood
Kay County									
Ponca City	23	0130CST			0	0	0		Flood
Oklahoma County									
Tinker Afb	23	0130CST			0	0			Hail (0.75)
Isolated thunderstorms developed over portions of central Oklahoma during the early morning of the 23rd. Flooding was reported in Newkirk in Kay County at the intersection of County Shed Road and Peckham Road, and in Ponca City, also in Kay County, where many streets were flooded.									
Harmon County									
4 NE Madge	25	1700CST			0	0			Hail (0.75)
Harmon County									
5 N Madge	25	1715CST	0.1	25	0	0	0		Tornado (F0)
Harmon County									
6 E Vinson	25	1731CST	0.2	25	0	0	0		Tornado (F0)
Greer County									
11 W Mangum	25	1751CST	0.1	25	0	0	0		Tornado (F0)
Greer County									
1 SW Russell	25	1804CST	0.2	25	0	0	0		Tornado (F0)
Greer County									
6 SW Mangum	25	1805CST			0	0			Hail (1.25)
Greer County									
2 SSW Mangum	25	1811CST			0	0	100K		Hail (2.75)
Jackson County									
Martha	25	1834CST			0	0			Hail (1.00)
Jackson County									
3 W Altus Afb to 3 SW Altus Afb	25	1835CST 1841CST	1.5	50	0	0	0		Tornado (F0)
Jackson County									
Altus	25	1838CST			0	0			Hail (1.75)
Jackson County									
Altus	25	1840CST			0	0			Hail (2.75)
Jackson County									
Altus	25	1850CST			0	0	500K	100K	Hail (4.50)
Jackson County									
Altus	25	1855CST			0	0			Hail (1.50)
Jackson County									
6 E Altus	25	1910CST			0	0			Hail (1.00)
Tillman County									
11 WSW Manitou to 9 SW Manitou	25	1916CST 1922CST	1.5	50	0	0	0		Tornado (F0)
Tillman County									
4 S Tipton	25	1930CST			0	0			Thunderstorm Wind (G57)
Tillman County									
2 W Frederick	25	1937CST			0	0			Hail (1.25)
Tillman County									
Frederick	25	1945CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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

Tillman County

Frederick 25 1945CST 0 0 **Thunderstorm Wind (G52)**

Jackson County

Altus 25 2021CST 0 0 **Thunderstorm Wind (G56)**

Severe thunderstorms spawned 6 tornadoes and produced very large hail over portions of western Oklahoma during the evening of the 25th. Fortunately, all of the tornadoes touched down in sparsely populated areas with no known damage. Thus, all were rated F0. The first tornado formed 5 miles north of Madge in Harmon County and was on the ground for only a short period of time. The 2nd tornado was reported by an amateur radio operator 6 miles east of Vinson in Harmon County. The tornado touched down in an open field with no known damage. The 3rd tornado was also witnessed by an amateur radio operator and formed 11 miles west of Mangum in Greer County. The tornado was on the ground for only a short period of time before dissipating. The 4th tornado was reported by Altus EOC in Jackson County, touching down briefly in an open field with no known damage. The 5th tornado was seen about 3 miles west of Altus Air Force Base, also in Jackson County, and dissipated 6 minutes later with no damage. The 6th tornado was observed by a reserve deputy in Manitou in Tillman County, touching down west of Manitou with no known damage. In Altus in Jackson county, hundreds of homes, numerous businesses, and the Altus High School Vo-tech center suffered major damage due to giant hail, occasionally to the size of softballs (4.5 inches in diameter). Significant damage also occurred to wheat and cotton crop in Altus and in Greer County, 2 miles south-southwest of Mangum.

Greer County

1 E Mangum 27 1312CST 0 0 **Flash Flood**

Tillman County

Frederick 27 1930CST 0 0 60K **Flash Flood**

Slow moving thunderstorms formed over portions of southwest Oklahoma during the afternoon and evening of the 27th, resulting in flooding. Several houses were reported to be flooded in Frederick in Tillman County, and 2 homes needed to be evacuated. Portions of State Route 36, and State Route 5 in Tillman County were also reported to be covered by water. In Greer County, water was reported to be covering portions of State Highway 283, 1 mile east of Mangum.

Marshall County

Willis 29 0130CST 0 0 **Flash Flood**

Several roads, including Powell Road, were reported closed due to high water just northwest of the town of Willis.

Kay County

3 W Blackwell 31 0555CST 0 0 **Flash Flood**

Kay County

Ponca City 31 0555CST 0 0 **Flash Flood**

Grant County

Renfrow 31 0730CST 0 0 **Flash Flood**

Thunderstorms formed over parts of north central Oklahoma during the early morning of the 31st, resulting in flooding across portions of Kay and Grant Counties. In Kay County, 3 miles west of Blackwell, portions of State Route 11 were reported to be covered by water, and in Ponca City, several roads were covered by high water. In Grant County, State Highway 81 was closed from Renfrow to the Kansas state line due to high water.

Jackson County

2 W Duke 31 1622CST 0 0 **Hail (1.75)**

Jackson County

7 W Duke 31 1625CST 0 0 **Hail (2.00)**

Jackson County

3 W Duke 31 1629CST 0 0 **Hail (1.25)**

Jackson County

8 S Duke 31 1634CST 0 0 **Hail (1.75)**

Greer County

Mangum 31 1643CST 0 0 **Hail (0.88)**

Jackson County

4 E Duke 31 1647CST 0 0 **Hail (2.50)**

Jackson County

5 E Duke 31 1649CST 0 0 **Hail (2.75)**

Greer County

Mangum 31 1650CST 0 0 **Hail (1.75)**

Jackson County

5 W Altus 31 1700CST 0 0 **Hail (1.75)**

Storm Data and Unusual Weather Phenomena

May 1999

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									
Greer County									
Granite	31	1701CST			0	0			Hail (1.75)
Jackson County									
Altus	31	1708CST			0	0			Hail (1.75)
Kiowa County									
Lone Wolf	31	1708CST			0	0			Hail (0.75)
Jackson County									
Martha	31	1715CST			0	0			Hail (1.00)
Beckham County									
3 SE Texola	31	1735CST			0	0			Hail (3.00)
Roger Mills									
Cheyenne	31	1740CST			0	0			Hail (2.50)
Beckham County									
9 S Erick	31	1758CST	0.1	25	0	0	0		Tornado (F0)
Woodward									
5 E Mutual	31	1800CST			0	0			Hail (0.88)
Beckham County									
Erick	31	1805CST			0	0			Hail (1.75)
Dewey County									
4 N Lenora	31	1815CST			0	0			Hail (1.25)
Beckham County									
8 SE Erick to 8.5 SE Erick	31	1818CST 1820CST	0.5	50	0	0	0		Tornado (F0)
Kiowa County									
Lone Wolf	31	1825CST			0	0			Hail (1.25)
Kiowa County									
3 W Lone Wolf	31	1825CST			0	0			Hail (2.00)
Dewey County									
12 W Taloga	31	1833CST			0	0			Hail (1.75)
Roger Mills									
2 S Cheyenne	31	1835CST			0	0			Thunderstorm Wind (G52)
Greer County									
Jester	31	1841CST			0	0			Hail (1.25)
Kiowa County									
Hobart	31	1847CST			0	0			Hail (0.88)
Dewey County									
Seiling	31	1850CST			0	0			Hail (1.25)
Major County									
2 SE Chester	31	1855CST			0	0			Hail (1.00)
Greer County									
3 SW Brinkman to 3 SSW Brinkman	31	1857CST 1901CST	1	200	0	0	0		Tornado (F0)
Woods County									
Alva	31	1901CST			0	0	200K		Hail (4.50)
Tillman County									
Frederick	31	1907CST			0	0			Hail (1.75)
Tillman County									
2 S Manitou	31	1920CST			0	0			Hail (1.00)
Greer County									
3 SSW Hester to 4.5 SSE Hester	31	1924CST 1929CST	1.5	100	0	0	5K		Tornado (F1)
Beckham County									
2 SW Delhi	31	1925CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

May 1999

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									
Tillman County									
7 E Frederick	31	1926CST			0	0			Hail (1.00)
Greer County									
12 ESE Mangum	31	1928CST			0	0			Hail (1.75)
Greer County									
12 ESE Mangum	31	1928CST			0	0			Hail (1.25)
Jackson County									
2 W Martha to 1 SW Martha	31	1929CST 1932CST	1	100	0	0	0		Tornado (F0)
Woods County									
Alva	31	1930CST			0	0			Hail (1.75)
Greer County									
5 SE Mangum	31	1935CST			0	0			Thunderstorm Wind (G79)
Jackson County									
3 S Blair	31	1935CST			0	0			Thunderstorm Wind (G52)
Jackson County									
5 NE Altus	31	1937CST	0.2	50	0	0	0		Tornado (F0)
Jackson County									
Altus Muni Arpt	31	1937CST			0	0	1.2M		Thunderstorm Wind
Jackson County									
Blair	31	1940CST			0	0	20K		Thunderstorm Wind
Kiowa County									
Hobart	31	1950CST 1954CST			0	0			Thunderstorm Wind (G52)
Kiowa County									
9 SW Roosevelt to 7 SW Roosevelt	31	1951CST 1954CST	2	440	0	0	0		Tornado (F0)
Garfield County									
Enid	31	1954CST			0	0	2.5K		Lightning
Kiowa County									
Mountain View	31	1955CST			0	0			Thunderstorm Wind (G61)
Kiowa County									
Hobart	31	1958CST			0	0			Thunderstorm Wind (G61)
Jackson County									
4 E Friendship	31	2004CST			0	0			Thunderstorm Wind (G52)
Kiowa County									
Tom Steed Res to 5 E Snyder	31	2010CST 2030CST			0	0	200K	100K	Thunderstorm Wind
Kiowa County									
2 S Roosevelt	31	2012CST			0	0			Hail (1.00)
Kiowa County									
4 S Roosevelt	31	2015CST			0	0			Hail (1.75)
Woods County									
16 NE Freedom	31	2015CST			0	0			Thunderstorm Wind (G68)
Kiowa County									
Roosevelt	31	2020CST			0	0			Hail (0.88)
Kiowa County									
1 S Snyder	31	2020CST			0	0			Hail (1.50)
Woods County									
16 NE Freedom	31	2020CST			0	0			Thunderstorm Wind (G74)
Kiowa County									
Mountain Park	31	2022CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Snyder	31	2022CST			0	0			Hail (1.75)
Caddo County									
2 W Cyril	31	2023CST			0	0			Thunderstorm Wind (G61)
Woods County									
14 NE Camp Houston	31	2025CST			0	0			Hail (1.00)
Comanche County									
4 W Indiahoma to Lawton	31	2030CST 2100CST			0	3	5M		Thunderstorm Wind
Kiowa County									
6 E Snyder	31	2030CST			0	0			Hail (2.00)
Kiowa County									
5 N Snyder	31	2030CST			0	0			Hail (1.75)
Kiowa County									
Tom Steed Res	31	2030CST			0	0	30K		Thunderstorm Wind (G69)
Woods County									
16 NE Freedom	31	2030CST			0	0			Thunderstorm Wind (G57)
Kiowa County									
9 E Snyder	31	2033CST			0	0			Hail (2.00)
Kiowa County									
Roosevelt	31	2036CST			0	0			Flash Flood
Kiowa County									
3 W Mountain Park	31	2037CST			0	0			Hail (1.75)
Comanche County									
Indiahoma	31	2040CST			0	0			Hail (2.00)
Comanche County									
3 W Medicine Park	31	2040CST			0	0			Thunderstorm Wind (G52)
Comanche County									
Cache	31	2048CST			0	0			Hail (2.75)
Comanche County									
Ft Sill Aaf	31	2055CST			0	0			Thunderstorm Wind (G81)
Cotton County									
3 N Walters	31	2055CST			0	0			Hail (1.00)
Kiowa County									
Mountain View	31	2058CST			0	0	5K		Thunderstorm Wind
Comanche County									
Lawton	31	2110CST			0	0			Hail (1.75)
Grady County									
Ninnekah	31	2115CST			0	0			Thunderstorm Wind (G56)
Alfalfa County									
Byron	31	2126CST			0	0			Hail (1.75)
Alfalfa County									
2 N Cherokee	31	2145CST			0	0	2K		Thunderstorm Wind
Stephens County									
Duncan	31	2145CST			0	0	1K		Thunderstorm Wind
Stephens County									
Marlow	31	2145CST			0	0	1.1K		Thunderstorm Wind
Grady County									
1.5 W Rush Spgs	31	2200CST			0	0	20K		Lightning

Storm Data and Unusual Weather Phenomena

May 1999

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

Alfalfa County

3 W Jet to 1.5 N Jet	31	2207CST 2210CST	2	75	0	0	2K		Tornado (F0)
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Grady County

Rush Spgs	31	2215CST			0	0	0.10K		Thunderstorm Wind
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Garfield County

3 E Hunter	31	2305CST			0	0	40K		Thunderstorm Wind
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Severe thunderstorms affected much of western Oklahoma and portions of central Oklahoma during the afternoon and evening of May 31st, and the early morning of June 1st. Although 7 tornadoes were confirmed across western Oklahoma, all on the 31st, only 2 of them caused damage. The most extensive damage during this severe weather outbreak was caused by straight-line winds and occurred across southern Kiowa and western Comanche Counties during the evening of the 31st. A very large swath of damaging straight-line winds developed on the west side of Tom Steed Lake in southern Kiowa County and expanded in coverage as it moved through all of southern Kiowa County, at times 10 to 15 miles wide. Power poles and power lines were downed, and a house received 2 broken windows and minor roof damage 3 miles west of Mountain Park. Power lines were downed 4 miles south of Roosevelt. Several trees were downed, and windows were broken at a lumber yard in Snyder, and power lines were reported down on Highway 183 between Snyder and Roosevelt. Major damage was also reported to wheat and cotton crop. Winds across southern Kiowa County were estimated between 80 and 100 mph. This 10-15 mile-wide area of damaging winds continued to move east out of southern Kiowa County and across much of western and central Comanche County. Winds were mostly in the 80 to 100 mph range, however in the Pecan Valley Subdivision located just outside of the northwest Lawton city limits, winds are believed to have reached 110 mph to 130 mph. As the thunderstorm winds spread east across Lawton and Fort Sill, they gradually decreased, but still caused tree, power line, and roof damage. In total, across Comanche County, 5 single family homes were destroyed; 4 single family homes under construction were destroyed; 58 single family homes and 8 businesses sustained major damage; and 150 single family homes sustained minor damage. Damage was estimated at 5 million dollars. Three injuries were also reported.

The 1st tornado was reported by the Beckham County Emergency Manager doing no damage (F0) 9 miles south of Erick in Beckham County. The 2nd tornado was reported by a storm chaser 8 miles southeast of Erick in Beckham County and was captured on video. No damage was reported (F0). The 3rd tornado was witnessed by several persons and formed 3 miles southwest of Brinkman in Greer County, however no damage was observed (F0). The 4th tornado was reported by Greer County Emergency Management 3 miles south-southwest of Hester in Greer County. In Hester, a porch roof was ripped off from a house; house siding was blown off, and trees and power lines were downed. No damage was associated with the tornado as it moved into Jackson County and dissipated 1 mile southwest of Martha. This tornado was rated F1 in Greer County and F0 in Jackson County. Two storm chasers observed the 5th tornado as it formed in an open field, 5 miles northeast of Altus in Jackson County. No damage was reported (F0). The 6th tornado was captured on video as it formed about 1/2 mile south of Highway 19 near the North Red River in Kiowa County, or about 9 miles southwest of Roosevelt. Although this tornado was reported to be 1/4 of a mile wide, no structures or trees were affected, so it was rated F0. The last tornado, the 7th of the outbreak, was confirmed by a post-storm damage survey, performed by local law enforcement officials from Alfalfa County. They determined a weak tornado (F0), touched down 3 miles west of Jet. Trees were knocked down from 2 miles west of Jet to 1.5 miles north of Jet, while in a local cemetery, trees were downed, and marble headstones were moved 30 to 40 feet across the street.

Straight-line winds were responsible for blowing over 5 aircraft and blowing off 11 hangar doors at Altus Municipal Airport in Jackson County. In addition, 2 barns near the airport were destroyed, and roof damage was reported to several buildings. Also in Jackson County, 1 vehicle sustained major damage in Blair, while several barns were destroyed. In Kiowa County, 3 campers were overturned, and several outbuilding were destroyed near Tom Steed Reservoir, while in Mountain View, a small building was destroyed, and some tree damage was reported. In Stephens County, several power poles were downed in Duncan, and several trees and power lines were downed in Marlow. A shop was destroyed, and several trees were uprooted 3 miles east of Hunter in Garfield County; 2 power poles were blown down 2 miles north of Cherokee in Alfalfa County, and large tree limbs were downed in Rush Springs in Grady County. Hail to the size of softballs (4.5 inches in diameter) damaged hundreds of homes and vehicles in Alva in Woods County. Lightning struck the back of a 2-story residence in Enid in Garfield County, setting it on fire. Lightning also struck 2 oil tank batteries, 1.5 miles west of Rush Springs in Grady County, setting them on fire. Finally, flooding was reported across portions of Kiowa and Beckham Counties. In Beckham County, a road 2 miles southwest of Delhi was flooded by fast-moving, high water, while in Kiowa County, street flooding was reported in Roosevelt.

Only a few reports of large hail occurred during the morning of June 1st, and the specifics can be accessed in June Storm Data.

OREGON, Central and East

ORZ019

Northeast Oregon

02		2000PST			0	0			Heavy Snow
03		1030PST							

Up to 5 inches of snow fell overnight in Tollgate (5100 feet elevation). The wind also caused blowing snow and reduced visibility.

Union County

Elgin	06	2100PST 2230PST			0	0	0	0	Winds
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Strong gusty winds knocked out power to about 550 residences in Elgin for around 1 1/2 hours.

Storm Data and Unusual Weather Phenomena

May 1999

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

OREGON, Southwest

Sprague River ORZ015 32 16 -16

Klamath County

**5 SE Dehlinger to
Olene**

**28 1628PST
1658PST** **0 0** **Tstm Wind/Hail**

A spotter in Merrill reported half-dollar size hail and very heavy rain at 1625 LDT.

A weak upper trough moved into the Pacific Northwest during this afternoon. The cooling aloft combined with surface heating led to the formation of thunderstorms. The Warning for this storm was based on the spotter report. The warning times are listed above.

Klamath County

Bly

**28 1720PST
1805PST** **0 0** **Tstm Wind/Hail**

WSR-88D radar reports indicated this storm was probably severe, so the warning was issued on that basis.

A weak trough moved into the Pacific Northwest on this afternoon. Cooling aloft combined with afternoon surface heating led to the formation of thunderstorms, a few of which became severe. The warning for this storm was issued at the times listed above, and was based on WSR-88D reports.

PACIFIC

NONE REPORTED.

PENNSYLVANIA, Central

Clinton County

Lock Haven

08 1600EST **0 0 30K** **Thunderstorm Wind**

A number of trees were blown down and a roof was partially removed from a church.

Union County

White Deer

08 1640EST **0 0 5K** **Thunderstorm Wind**

Trees down.

Lycoming County

Montgomery

08 1645EST **0 0** **Hail (0.75)**

Dime size hail fell in Montgomery.

Huntingdon

Shirleysburg

12 1740EST **0 0** **Hail (0.75)**

Huntingdon

Shirleysburg

12 1750EST **0 0** **Hail (0.75)**

Dime size hail fell across the Shirleysburg area beginning around 6:45pm EDT and ending just northeast of the area around 6:50pm EDT.

Adams County

Gettysburg

12 1900EST **0 0 10K** **Thunderstorm Wind**

Trees were downed in Gettysburg and nearby Fairfield.

Clearfield County

Grampian

24 1150EST **0 0 10K** **Thunderstorm Wind**

Trees were blown down in Grampian and in DuBois. A tree fell on a car in DuBois, but no one was injured.

Centre County

State College

24 1230EST **0 0 20K** **Thunderstorm Wind**

Trees and limbs were down in State College. A weather service employee's car was damaged by falling limbs.

Clinton County

Renovo

24 1240EST **0 0 10K** **Thunderstorm Wind**

Trees and wires were down on the west side of Renovo.

Lycoming County

Williamsport

24 1343EST **0 0 20K** **Thunderstorm Wind**

Trees and wires were down on vehicles on Depot Street in Williamsport.

Union County

Hartleton

24 1355EST **0 0 5K** **Thunderstorm Wind**

Trees down on Route 45.

Northumberland

Montandon

24 1400EST **0 0 10K** **Thunderstorm Wind**

Trees were down on Route 405.

Storm Data and Unusual Weather Phenomena

May 1999

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

Philadelphia

Countywide	24	1450EST 1515EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm knocked down around 20 trees throughout the city of Philadelphia. The series of thunderstorms caused about 26,000 homes and businesses to lose power during the day within the city. Throughout PECO Energy's service area 82,000 homes and businesses lost power, half of the outages were caused by direct lightning hits and about 20 percent of the outages were caused by the wind. There were still 27,500 homes and businesses without power throughout the area at 9 p.m. EDT that evening. Most power was restored the next day.

PENNSYLVANIA, Northeast

Bradford County

Troy to Wyalusing	24	1405EST 1445EST			0	0	15K		Thunderstorm Wind
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Trees and powerlines knocked down from Troy to Wyalusing during this time with one tree landing on an automobile in the town of Milan at 3:45 pm.

Wyoming County

Laceyville to Center Moreland	24	1445EST 1500EST			0	0	10K		Thunderstorm Wind
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Several trees and powerlines blown down. Three-quarter inch hail reported at 3:45 pm in Laceyville.

Luzerne County

Lehman	24	1510EST			0	0	2K		Thunderstorm Wind
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A tree was uprooted in Lehman.

Susquehanna

Countywide	24	1520EST 1530EST			0	0	35K		Thunderstorm Wind
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Numerous trees uprooted from southwest to northeast across the county, with damage reported to a house in New Milford at 4:30 pm.

A strong cold front driven by moderate jet stream winds interacted with a warm and humid airmass over northeast Pennsylvania during the mid afternoon. These features spawned scattered thunderstorms which tracked east and northeast through several counties. A few storms became severe and provided brief bouts of damaging wind gusts and hail between 3:00 and 4:30 p.m. where numerous trees and some powerlines were downed over the region. One tree found it's way onto an automobile in Bradford county and another toppled into a house in Susquehanna county.

PENNSYLVANIA, Northwest

Crawford County

Meadville	18	1454EST			0	0	20K		Thunderstorm Wind
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Numerous trees and power lines were downed.

PENNSYLVANIA, West

Washington

Marianna	18	1530EST			0	0	3K		Thunderstorm Wind (G50)
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Thunderstorm winds downed several trees.

Greene County

Waynesburg	18	1725EST			0	0	1K		Thunderstorm Wind (G50)
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Thunderstorm winds downed a large tree.

Allegheny County

White Oak	18	1750EST			0	0			Hail (0.75)
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Allegheny County

East Portion	18 19	1756EST 0100EST			0	0	100K		Flash Flood
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Torrential thunderstorm rains fell across eastern portions of Allegheny County, with up to four inches of rain measured in the Braddock area. North Braddock officials reported that Electric Avenue was flooded, with the water high enough to float a dumpster down the street. In Forest Hills, emergency workers reported that 20 people were evacuated from 10 homes along Kenmore Avenue. Turtle Creek officials reported a section of Route 130 was closed between Pitcairn and Turtle Creek after a mudslide. Flooded basements and power outages were reported in Turtle Creek, Munhall and McKeesport. Also in McKeesport, the W.D. Mansfield Bridge was shut down for several hours as approaches to the bridge were flooded by waters as deep as four feet. Minor street flooding was also reported in the nearby communities of Glassport and Port Vue. An area 911 dispatcher said "There are 33 fire and emergency medical service companies in the Mon Valley and they are all busy."

Allegheny County

Glenshaw	24	1005EST			0	0	1K		Thunderstorm Wind (G52)
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Thunderstorm winds estimated at 60 MPH downed power lines on Volner Drive.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, West</u>									
Armstrong County									
Slate Lick	24	1027EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees and power lines.
Armstrong County									
Ford City	24	1048EST			0	0	1K		Thunderstorm Wind (G50)
									Thunderstorm winds downed a large tree.
Westmoreland									
Lower Burrell	24	1104EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees.
Indiana County									
Homer City	24	1115EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees.
Jefferson County									
Punxsutawney	24	1115EST			0	0	5K		Thunderstorm Wind (G50)
									Thunderstorm winds downed a large tree onto a parked car.
Indiana County									
Hillsdale	24	1118EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees.
Armstrong County									
Clinton	24	1120EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees and power lines.
Indiana County									
Home	24	1120EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees.
<u>PUERTO RICO</u>									
San Juan									
San Juan	06	1400AST 1600AST			0	0			Urban/Sml Stream Fld
									A T.V. Meteorologist indicated that a small stream in San Juan went out of its banks. Several streets were flooded in Caparra, San Patricio, Buchanan and Puerto Nuevo sectors. Few cars stalled on Kennedy Avenue.
Aguadilla									
Isabela to Aguadilla	07	1500AST 1700AST			0	0			Urban/Sml Stream Fld
									State Civil Defence indicated street flooding due to heavy rainfall in parts of Isabela and Aguadilla.
Humacao									
Rio Grande	08	1600AST 1800AST			0	0			Flash Flood
									Civil Defence indicated that a river in El Verde sector in Rio Grande went out of its banks due to heavy rainfall flooding adjacent areas.
Humacao									
Fajardo	22	1750AST 1800AST			0	0			Waterspout
									A Weather Service Employee sighted a waterspout near Palomino island just east of Fajardo.
Aguadilla									
West Portion	26 27	2300AST 0100AST			0	0			Flood
									Civil Defense indicated that river Culebrinas went out of its banks flooding Palmar sector in Aguadilla, Tablonar sector in Aguada and road 115.
Aguadilla									
West Portion	28 29	2300AST 0100AST			0	0			Flood
									Civil Defense indicated that Culebrinas river went out of its banks flooding Palmar sector in Aguadilla, Tablonar sector in Aguada and road 115.
Arecibo									
Lares	30	1400AST 2200AST			1	0			Heavy Rain
									Very heavy rain occurred over the northern slopes of Puerto Rico during the afternoon. Doppler Radar indicated around three inches or rain over parts of the northwest Puerto Rico. This rainfall produced a rush of water of an underground river in Lares trapping

Storm Data and Unusual Weather Phenomena

May 1999

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

eighteen people in a cave. One person drowned during the rush of water. They were rescued the next morning. M34IW

Arecibo

Lares	31	1400AST 2000AST			0	0	Heavy Rain
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Heavy rainfall over the northwest Puerto Rico produced a rush of water in a underground river in Lares trapping six people in a cave. They were rescued a few hours later.

RHODE ISLAND

Bristol County

Bristol	23 24	1700EST 2100EST			0	0	Heavy Rain
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Kent County

Warwick	23 24	1700EST 2100EST			0	0	Heavy Rain
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Newport County

Newport	23 24	1700EST 2100EST			0	0	Heavy Rain
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Washington

Charlestown	23 24	1700EST 2100EST			0	0	Heavy Rain
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Showers and thunderstorms, ahead of an approaching cold front, brought torrential rainfall to much of central and southern Rhode Island. Totals of 2 to 3 inches were common, with as much as 3.15 inches in Charlestown. In Warwick, the heavy rains loosened a weakened retaining wall on a building in a shopping complex on Route 2, and caused the wall to fall through a roof. Part of the roof then fell off the building onto several nearby cars. No injuries were reported.

SOUTH CAROLINA, Central

Edgefield County

5 W Edgefield	06	1305EST 1310EST			0	0	0 Thunderstorm Wind (G55)
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EOC reported trees and powerlines down.

Mccormick

Plum Branch to Parksville	06	1310EST 1315EST			0	0	0 Thunderstorm Wind (G55)
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Sheriff reported trees down.

Mccormick

Modoc to Clarks Hill	06	1320EST			0	0	0 Thunderstorm Wind (G55)
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Sheriff and damage survey found trees down across lower McCormick county.

Edgefield County

Edgefield to Trenton	06	1324EST			0	0	0 Thunderstorm Wind (G55)
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Spotter reported trees down hwy 25 between Edgefield and Trenton. Roof blow off mobile home.

Edgefield County

3 S Trenton	06	1328EST			0	0	0 Thunderstorm Wind (G55)
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EOC reported trees down.

Saluda County

7 W Saluda	06	1330EST			0	0	Hail (1.00)
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Sheriff reported quarter size hail on hwy 178 west of Saluda.

Lancaster County

Heath Spgs	06	1335EST			0	0	Hail (0.88)
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Police reported nickel size hail.

Lee County

Bishopville	06	1335EST			0	0	Hail (1.00)
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Sheriff reported quarter size hail.

Aiken County

New Holland to New Ellenton	06	1355EST			0	0	0 Thunderstorm Wind (G55)
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Sheriff reported trees down and damage to homes and mobile homes in New Holland and at hwys 694/695.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
SOUTH CAROLINA, Central									
Lexington County									
Batesburg to West Columbia	06	1410EST 1435EST			0	6		0	Thunderstorm Wind (G60)
									Sheriff reported trees down throughout county and damage to homes and buildings, including Airport High School where several students and faculty were injured by flying debris.
Newberry County									
Prosperity	06	1417EST			0	0		0	Thunderstorm Wind (G55)
									Sheriff reported trees down.
Lexington County									
Columbia Arpt	06	1426EST			0	0		0	Thunderstorm Wind (G52)
									Official obs had G52kt. Trees down at airport.
Richland County									
Columbia to Forest Acres	06	1435EST 1455EST			0	0		0	Thunderstorm Wind (G55)
									Sheriff reported trees and powerlines down throughout the county. Several homes and business were damaged.
Calhoun County									
10 WNW St Matthews to 8 WNW St Matthews	06	1440EST			0	0		0	Thunderstorm Wind (G50)
									Sheriff reported trees down at Sandy Run.
Kershaw County									
1 SW Lugoff to 1 SE Lugoff	06	1440EST 1450EST			0	12		0	Thunderstorm Wind (G80)
									Sheriff and damage survey found extensive damage from an intense microburst. Two metal frame buisnesses were flattened. Three brick buildings had walls blown out. Several homes and mobile homes had moderate damage.
Orangeburg									
North to Neeses	06	1445EST			0	0		0	Thunderstorm Wind (G50)
									EOC reported trees down in North and Neeses.
Chesterfield									
Chesterfield	06	1455EST			0	0		0	Thunderstorm Wind (G50)
									Police reported trees down.
Sumter County									
Countywide	06	1505EST 1525EST			0	0		0	Thunderstorm Wind (G55)
									Sheriff reported trees down countywide.
Lee County									
Bishopville	06	1515EST			0	0			Hail (0.88)
									Sheriff reported nickel size hail.
Lee County									
Bishopville	06	1515EST			0	1		0	Thunderstorm Wind (G50)
									NWS employee and sheriff reported trees down in and around the Bishopville area. One persone was injured when a tree fell on their car.
Kershaw County									
Camden	06	1530EST 1550EST			0	0		0	Thunderstorm Wind (G50)
									NWS employee found trees down along I-20 in the Camden area.
Clarendon County									
Paxville	06	1535EST			0	0		0	Thunderstorm Wind (G50)
									Sheriff reported trees down in Paxville.
Chesterfield									
Mc Bee	06	1550EST			0	0		0	Thunderstorm Wind (G50)
									Sheriff reported trees down.
Chesterfield									
Patrick	06	1558EST			0	0		0	Thunderstorm Wind (G50)
									Sheriff reported trees down. The May 6th event caused widespread damage. According to the SC Insurance industry, 6.5 million in damage occurred across the state, most of it in the midlands.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
<u>SOUTH CAROLINA, Central</u>										
Mccormick										
15 NW Mc Cormick	13	1500EST			0	0				Hail (0.88)
		Sheriff reported nickel size hail.								
Orangeburg										
Cope	13	1558EST			0	0				Hail (0.88)
		1600EST								
		Post Office reported nickel size hail.								
Richland County										
Eastover	13	1607EST			0	0				Hail (0.88)
		Post Office reported nickel size hail.								
Sumter County										
Pinewood	13	1650EST			0	0	0			Hail (0.75)
		1700EST								
		Post Office and EOC reported dime size hail in Pinewood area.								
Richland County										
Gadsden	13	2012EST			0	0				Hail (0.88)
		Post Office reported nickel size hail.								
Orangeburg										
2 W Ellore	14	1422EST			0	0	0			Hail (0.75)
		Highway dept. reported 3/4 inch hail between Santee and Ellorree.								
Clarendon County										
2 N Manning	14	1535EST			0	0	0			Hail (0.75)
		EPD reported dime size hail.								
Lexington County										
South Congaree	22	1640EST			0	0				Hail (0.75)
		Off duty NWS employee reported 3/4 inch hail.								
Fairfield County										
4 W Winnsboro	22	1700EST			0	0		0		Thunderstorm Wind (G50)
		EPD director reported trees down west of Winnsboro on hwy 34.								
Richland County										
Ft Jackson	23	1710EST			0	0		0		Thunderstorm Wind (G50)
		Officials reported some trees down on Ft Jackson.								
Aiken County										
Couchton	23	1715EST			0	0		0		Thunderstorm Wind (G55)
		Public reported trees and powerlines down.								
Sumter County										
9 N Sumter	23	1729EST			0	0		0		Thunderstorm Wind (G50)
		EPD director reported trees and powerlines down.								
<u>SOUTH CAROLINA, North Coastal</u>										
Darlington County										
3 NW Darlington	06	1430EST			0	0				Hail (0.75)
		1435EST								
Florence County										
Florence Arpt	06	1446EST			0	0				Thunderstorm Wind (G55)
Darlington County										
Hartsville	06	1525EST			0	0				Thunderstorm Wind (G70)
		1530EST								
Darlington County										
Darlington Co Arpt	06	1540EST	0.2	20	0	0	80K			Tornado (F1)
Florence County										
New Hope	06	1545EST	0.1	20	0	0	60K			Tornado (F1)
Florence County										
Pamplico	06	1553EST			0	0				Thunderstorm Wind (G65)
		1556EST								

Storm Data and Unusual Weather Phenomena

May 1999

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

SOUTH CAROLINA, Northwest

Anderson County

10 NW Anderson 13 1315EST 0 0 Hail (0.75)

Spartanburg

Lyman 13 1355EST 0 0 Hail (1.00)

Spartanburg

Duncan 13 1404EST 0 0 Hail (1.50)

Spartanburg

Spartanburg 13 1420EST 0 0 Thunderstorm Wind (G50)

Union County

4 NW Jonesville 13 1455EST 0 0 Hail (1.00)

Laurens County

Hickory Tavern 13 1605EST 0 0 Hail (0.75)

Spartanburg

Inman to Boiling Spgs 13 1830EST
1833EST 0 0 Hail (0.75)

Spartanburg

Inman to Boiling Spgs 13 1830EST
1833EST 0 0 Thunderstorm Wind (G50)

Thunderstorms developed by mid-afternoon and continued into the evening. Some of the thunderstorms became severe producing large hail and couple damaging wind gusts. A tree was blown onto a car in Spartanburg and a 5 foot in diameter tree was blown down near Inman. Dime to ping pong ball size hail was reported.

Greenville County

Greer 18 2100EST 0 0 20K Lightning

Lightning struck a house and ignited a fire which burned one end of the house.

SOUTH CAROLINA, South Coastal

Jasper County

7 S Ridgeland 06 1420EST 0 0 Thunderstorm Wind (G50)
Power lines down.

Beaufort County

Beaufort 06 1445EST
1450EST 0 0 Hail (0.75)

Beaufort County

Beaufort 12 1415EST
1445EST 0 0 Flood

Berkeley County

Goose Creek 12 1430EST
1500EST 0 0 Flood

Charleston County

Charleston 12 1430EST
1515EST 0 0 Flood

Colleton County

Jacksonboro 12 1435EST
1500EST 0 0 Flood

A line of nearly stationary thunderstorms stalled along the afternoon seabreeze front and produce 2 to 3 inches of rainfall in some areas, causing flooding of streets and low-lying areas and ponding of water on roads.

SOUTH DAKOTA, Central and North

SDZ006-018

Brown - Spink

01 0000CST 0 0 Flood
31 2359CST

The James River continued to flood throughout May. One mile south of Columbia where flood stage is 13 feet, the James rose to 17.7 feet on May 17th. Eight miles southwest of Stratford where flood stage is 14 feet, the James rose from a little over 16 feet at the beginning of May to over 17 feet by the end of May. At Ashton where flood stage is 13 feet, the James went above flood stage on the 9th and rose to 16.5 feet on the 18th. The flooding on the James consumed many more acres of agricultural land and a few roads.

Dewey County

La Plant 03 1730CST 0 0 Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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

Dewey County

15 S La Plant to La Plant 03 1930CST
2130CST 0 0 **Flash Flood**

Two to four inches of rain fell across southeast Dewey county causing flash flooding south of La Plant mainly on Willow Creek. As a result of the flash flooding, several roads were underwater. Highway 212 just south of La Plant was flooded for a few hours along with Highway 8, 15 miles south of La Plant. The flash flooding resulted in some road and bridge damage.

SDZ003>004-009- **Corson - Campbell - Walworth - Dewey - Potter - Stanley - Sully - Hughes - Hyde - Jones - Lyman**

06 0600CST
2000CST 0 0 **High Wind (G53)**

High winds of 35 to 50 mph gusting over 60 mph blew across central and north central South Dakota from the early morning to the late evening hours causing some damage. In Pierre, the high winds blew a large tree down and tore loose a piece of the sheet metal cornice atop a downtown building. At the Legion Memorial Park in Mobridge, the high winds knocked the centerfield lights to the ground. In Jones County, a semi tractor trailer was blown over and damaged. The fishing tournament on Lake Oahe had to be postponed as result of the high winds. There was also a lot of tree branches downed across the area.

Codington County

Watertown 09 1650CST 0 0 **Hail (0.88)**

Grant County

6 N Revillo 09 1720CST 0 0 **Thunderstorm Wind (G61)**

Winds gusting to 70 mph knocked over a 4000 bushel holding bin. The holding bin smashed a propane tank and damaged a smaller grain bin.

Roberts County

Wilmot 09 1749CST 0 0 **Hail (1.00)**

Grant County

4 W Twin Brooks 09 1800CST 0 0 **Hail (0.75)**

Roberts County

4 NE Victor 09 1805CST 0 0 **Hail (1.00)**

Lyman County

Presho 09 1923CST 0 0 **Hail (1.00)**

Lyman County

6 SE Kennebec 09 1930CST
1935CST 0 0 **Hail (1.50)**

Lyman County

6 SE Kennebec 09 1935CST
2015CST 0 0 **Hail (1.00)**

Hughes County

Blunt 09 1945CST 0 0 **Hail (1.00)**

Lyman County

Kennebec 09 2040CST 0 0 **Hail (0.88)**

Lyman County

Kennebec 09 2043CST 0 0 **Thunderstorm Wind (G56)**

Lyman County

3 S Reliance 09 2045CST
2046CST 0.1 10 0 0 **Tornado (F0)**

A weak tornado touched down briefly three miles south of Reliance with no damage reported. Path length and width were estimated.

Buffalo County

6 SW Gann Vly 09 2145CST 0 0 **Thunderstorm Wind (G70)**

Winds gusting to 80 mph blew over and damaged several grain bins and snapped off several trees.

Lyman County

15 NE Kennebec to Kennebec 09 2100CST
10 0200CST 0 0 **Flash Flood**

Heavy rains of 2 to 5 inches fell in Lyman county during the late evening hours which caused flash flooding on Medicine Creek. The KOA Campgrounds near Kennebec were flooded including the main facility. Several roads were also flooded and damaged along Medicine Creek.

SOUTH DAKOTA, Southeast

Gregory County

13 S Gregory 03 2015CST 0 0 **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

May 1999

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									
Yankton County									
Lesterville	03	2055CST			0	0			Hail (1.00)
Bon Homme									
2 NW Springfield	03	2100CST 2101CST	0.1	50	0	0			Tornado (F0)
Charles Mix									
7 S Dante	03	2100CST			0	0	2K		Thunderstorm Wind (G61)
Thunderstorm winds blew over several large cottonwood trees.									
Bon Homme									
Tabor	03	2102CST			0	0			Hail (1.00)
Charles Mix									
10 SE Greenwood	03	2103CST 2104CST	0.1	50	0	0			Tornado (F0)
Yankton County									
10 W Yankton	03	2107CST			0	0			Hail (0.88)
Charles Mix									
Platte	03	2110CST			0	0			Hail (0.75)
Yankton County									
14 W Yankton	03	2114CST			0	0			Hail (0.88)
Yankton County									
Lesterville	03	2130CST			0	0			Hail (1.00)
Hutchinson									
Menno	03	2130CST			0	0			Hail (0.75)
Hutchinson									
Menno	03	2130CST			0	0			Thunderstorm Wind (G54)
Douglas County									
6 NW Delmont	03	2135CST			0	0			Hail (1.00)
Turner County									
Viborg	03	2205CST			0	0			Hail (1.75)
Minnehaha									
10 W Sioux Falls	03	2242CST			0	0			Hail (0.75)
Minnehaha									
2 NW Hartford	03	2255CST			0	0			Hail (0.75)
Minnehaha									
7 W Sioux Falls	05	1300CST			0	0			Hail (0.88)
SDZ038-053- Beadle - Sanborn - Davison - Hanson - Hutchinson - Yankton									
	09	0600CST			0	0			Flood
	31	2359CST							
Minor to moderate flooding occurred on the lower and middle portions of the James River...following generally heavy rains in the middle and upper portions of the basin from the end of April through the 10th of May. Crests at the gaging stations were 2 to 3 feet above flood stage. Significant damage was not reported other than flooded cropland and other lowland near the river. Damage due to the inability to plant crops could not be determined.									
Brule County									
Chamberlain	09	2156CST			0	0			Hail (0.88)
Gregory County									
Bonesteel	10	0100CST			0	0			Hail (1.00)
Charles Mix									
16 NW Platte	10	0200CST			0	0			Hail (0.75)
Charles Mix									
2 N Academy	10	0210CST			0	0			Hail (1.00)
Gregory County									
Lucas	10	0210CST			0	0			Hail (1.75)
Brule County									
3 W Bijou Hills	10	0230CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
Charles Mix									
14 N Platte	10	0230CST			0	0			Hail (0.75)
Yankton County									
3 S Gayville	16	0737CST			0	0			Hail (1.75)
Yankton County									
1 S Gayville	16	0740CST			0	0			Hail (0.75)
Clay County									
3 NW Meckling	16	0740CST			0	0			Hail (1.00)
		Hail covered the ground.							
Clay County									
Hub City	16	0805CST			0	0			Hail (0.75)
Charles Mix									
Platte	22	1320CST			0	0			Hail (0.75)
		Hail damaged crops near Platte. The amount of damage was not known.							
Douglas County									
New Holland	22	1330CST			0	0			Hail (0.75)
Union County									
North Sioux City	22	1630CST			0	0	5K		Thunderstorm Wind (G52)
		Thunderstorm winds damaged windows in mobile homes.							
Minnehaha									
Ellis	30	1300CST			0	0			Hail (1.25)
<u>SOUTH DAKOTA, West</u>									
SDZ001>002-									
		Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills -							
	05	0800MST			0	0			High Wind (G74)
	06	1600MST							
		A slow moving low pressure system moved across western South Dakota and deepened as it moved into the eastern portions of the state while high pressure pushed in over the Rocky Mountains. Very strong northwest winds developed in western South Dakota and continued for nearly 48 hours. Numerous businesses had large signs blown down and billboards on the interstate were broken at their bases. Airlines cancelled flights into and out of Rapid City due to the high winds. Numerous power outages were also reported due to trees falling across the power lines.							
Bennett County									
Martin	09	1700MST 1800MST			0	0			Hail (1.75)
Tripp County									
12 NW Winner	09	1732MST	0.1	1	0	0			Tornado (F0)
		Brief Touchdown. Tornado path and width estimated							
Tripp County									
6 NW Hamill	09	1745MST	1	10	0	0			Tornado (F0)
		A new barn had a portion of the roof torn off and thrown a quarter mile away, tree branches were snapped off and ground wires for power lines were snapped. A calving shed was also destroyed.							
Todd County									
3 NE Parmelee	09	1812MST	0.1	1	0	0			Tornado (F0)
		Brief Touchdown. Tornado path and width estimated							
Mellette County									
2 N White River	09	1825MST	0.1	1	0	0			Tornado (F0)
		Brief Touchdown. Tornado path and width estimated							
Mellette County									
2 SW White River	09	1825MST	0.1	1	0	0			Tornado (F0)
		Brief Touchdown. Tornado path and width estimated							
Todd County									
8 W Mission	09	1842MST	0.1	1	0	0			Tornado (F0)
		Brief Touchdown. Tornado path and width estimated							
Tripp County									
4 E Winner	09	1920MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Todd County									
Mission	09	1926MST	0.1	1	0	0			Tornado (F0)
			Brief Touchdown. Tornado path and width estimated						
Todd County									
4 SW Mission	09	1929MST	0.1	1	0	0			Tornado (F0)
			Brief Touchdown. Tornado path and width estimated						
Mellette County									
Countywide	09 10	1930MST 0700MST			0	0			Flood
			1 foot of water over Highway 63 after 2-4 inches of rain fell over the region. Numerous other county roads had water covering them also.						
Todd County									
Countywide	09 10	1950MST 0700MST			0	0			Flood
			Numerous roads in the county were flooded over after 2 to 4 inches of rain fell. Several creeks were overflowing thier banks.						
Todd County									
Mission	09	1950MST			0	0			Hail (1.75)
Todd County									
St Francis	09	2020MST			0	0			Hail (1.00)
			Several windows broken						
Pennington									
Wall	09	2030MST			0	0			Hail (1.00)
Tripp County									
Countywide	09 10	2145MST 0700MST			0	0			Flood
			Numerous roads were underwater and several were washed out after thunderstorms dropped 2 to 4 inches of rain in over the area. White River at Oacoma reached 20.75 feet...flood stage is 15 feet.						
Pennington									
8 NE Hill City to Hill City	15	1540MST			0	0			Hail (1.00)
Butte County									
12 SW Belle Fourche to 9 SW Belle Fourche	15	1543MST 1553MST	2	10	0	0			Tornado (F0)
			Stayed in open country...moved from Lawrence County into Butte County.						
Pennington									
3 NW Hisega to Hisega	15	1600MST			0	0			Hail (0.75)
Meade County									
Tilford	21	1330MST 1340MST			0	1			Hail (1.50)
			1" to 1.5" hail...up to 6 inches deep on Interstate 90. A 5 car pile up left one person injured after several vehicles slid through the hail.						
Meade County									
Ellsworth Afb	21	1505MST			0	0			Hail (1.75)
Meade County									
Ellsworth Afb	21	1507MST 1516MST			0	0			Funnel Cloud
Harding County									
Redig	21	1509MST			0	0			Hail (0.75)
Pennington									
Boxelder	21	1510MST			0	0			Hail (1.75)
Pennington									
Rapid City Arprt to Caputa	21	1510MST 1535MST			0	0			Funnel Cloud
			Several funnel clouds reported						
Custer County									
5 N Dewey	21	1620MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
8 SW Hill City to Hill City	21	1645MST			0	0			Hail (0.75)
Custer County									
1 N Custer	22	0521MST			0	0			Hail (1.00)
Custer County									
Fairburn	22	0555MST			0	0			Hail (1.00)
Custer County									
5 S Custer	22	0625MST			0	0			Hail (0.75)
Shannon County									
2 N Rockyford	22	0700MST			0	0			Hail (0.88)
Tripp County									
Winner	22	0920MST			0	0			Hail (0.75)
Tripp County									
8 S Winner	22	0930MST 0940MST			0	0			Hail (1.00)
Todd County									
Parmelee	22	1000MST			0	0			Hail (1.25)
Lawrence County									
Lead	26	1347MST 1359MST			0	0			Hail (1.00)
Meade County									
Sturgis	26	1442MST 1450MST			0	0			Hail (0.75)
Ziebach County									
5 SE Glad Vly	26	1630MST			0	0			Hail (0.75)
<u>TENNESSEE, Central</u>									
Houston County									
East Portion	05	0224CST			0	0	31K		Thunderstorm Wind (G50)
Few trees down in east portion of county. TEMA reported \$31,000 cost was to restore utility service.									
Decatur County									
Parsons	05	1913CST 1914CST			0	0	100K		Thunderstorm Wind (G50)
Strong thunderstorm winds damaged roofs, signs, storage buildings and windows to several businesses in Parsons. A large pecan tree fell on 4 cars.									
Trousdale County									
2.2 W Hartsville	05	1914CST			0	0	25K		Thunderstorm Wind (G50)
Severe damage to home on Hwy 25 and Sulfur College Rd.									
Maury County									
Columbia	05 06	1920CST 0200CST			0	0			Flood
Sheriff's office reported many streets were flooded.									
Wayne County									
Clifton	05	1920CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were down.									
Benton County									
South Portion	05	1925CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees down in southern part of county.									
Lewis County									
Countywide	05	1930CST			0	0			Thunderstorm Wind (G50)
EMA reported large trees were down countywide.									
Wayne County									
Collinwood	05	1930CST			0	0			Thunderstorm Wind (G50)
Spotter reported trees were blown down.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, Central									
Macon County									
West Portion	05	1945CST			0	0	10K		Thunderstorm Wind
			Trailer home overturned.						
Lawrence County									
6 W Lawrenceburg	05	1947CST			0	0			Hail (1.00)
			SKYWARN spotter reported quarter size hail.						
Lawrence County									
4 NNW Lawrenceburg	05	1954CST			0	0	97K		Thunderstorm Wind (G50)
			Spotter reported trees and power lines down 1 mile south of U.S. Highway 64 and S.R. 241. TEMA reported main expense was to restore utility service.						
Maury County									
Culleoka	05	1959CST			0	0			Thunderstorm Wind (G50)
			Several large trees were blown down.						
Hickman County									
North Portion	05	2000CST			0	0	20K		Thunderstorm Wind
			EMA reported 2 trailers destroyed on Mill Creek Road in the northern part of the county.						
Dickson County									
Dickson	05	2010CST			0	0	230K		Thunderstorm Wind
			EMA reported trees down and trailer home split in half by fallen tree. TEMA reported main cost was for the restoration of utility service.						
Lawrence County									
Ethridge	05	2015CST			0	0			Thunderstorm Wind (G50)
			Large oak tree fell on a house.						
Lawrence County									
Lawrenceburg	05	2015CST			0	1	10K		Thunderstorm Wind
			Vehicle blown off road in downtown Lawrenceburg. Driver had arm broken.						
Lawrence County									
1 E Lawrenceburg	05	2015CST			0	0	5K		Thunderstorm Wind
			Wind damage to trailer home.						
Lawrence County									
3 E Lawrenceburg	05	2015CST			0	0	5K		Thunderstorm Wind
			Roof was blown off a house.						
Williamson									
Fairview	05	2017CST			0	0	476K		Thunderstorm Wind
			Small trees were across the road. Some homes received damage to chimneys and roofs.						
Robertson County									
Countywide	05	2024CST			0	0	20K		Thunderstorm Wind (G50)
			Widespread trees and power lines down around the county. 20 to 25 percent of the roads in Robertson county were blocked due to downed trees. At one point during the storm, 65% of the people were without power in Springfield. A tree fell on a house in Springfield.						
Marshall County									
Lewisburg	05	2029CST			0	0			Hail (0.75)
			EMA reported dime size hail.						
Bedford County									
Countywide	05	2030CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported widespread trees and power lines down around the county. Most of a roof was taken off the Sanford Pencil Co. in Shelbyville. Also, a shed blew down on a vehicle in Bell Buckle.						
Hickman County									
Centerville	05	2030CST			0	2	190K		Thunderstorm Wind
			Police department reported 2 mobile homes destroyed, several buildings damaged, and trees and power lines were down. There were 2 injuries.						
Cheatham County									
Ashland City	05	2034CST			0	0	10K		Thunderstorm Wind (G52)
			Spotter reported 60 mph wind gust. A large tree fell on a mobile home in Kingston Springs.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Davidson County									
Bellevue	05	2034CST			0	0			Thunderstorm Wind (G52)
Spotter reported 60 mph wind gust.									
Davidson County									
Nashville	05	2034CST			0	0	5K		Thunderstorm Wind
EMA reported roof off a house on 10th and Monroe.									
Davidson County									
Bellevue	05	2035CST			0	0			Thunderstorm Wind (G61)
Spotter reported 70 mph wind gust.									
Giles County									
North Portion	05	2035CST			0	0	50K		Thunderstorm Wind (G50)
Wide spread trees and power lines were blown down in the northern part of the county. 2 homes were damaged from fallen trees in Lynnville.									
Davidson County									
Nashville	05	2040CST			0	0			Thunderstorm Wind (G70)
Spotter reported 80 mph wind gust in the Fessler's Lane and Murfreesboro Road area of Nashville.									
Davidson County									
Nashville Metro Arpt	05	2045CST			0	0	2.7M		Thunderstorm Wind (G86)
FAA wind equipment clocked a 99 mph wind gust in the strong thunderstorm downdrafts. 70 planes were damaged, and 2 hangars were destroyed. Many trees and power lines were down around the county. Debris and jet fuel was scattered across the runway. The airport was closed for several hours. The hardest hit area in Davidson county were Pennington Bend, Elysian Fields, Antioch, Old Hickory, east Nashville and Radnor lake. Part of a roof was lifted off Stratford H.S. Metro schools were cancelled on May 6 so crews could restore power and clean up debris around the county.									
Davidson County									
West Portion	05	2045CST			0	0			Thunderstorm Wind (G50)
Widespread trees were blown down across the western part of the county.									
Wilson County									
Countywide	05	2051CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees were blown down around the county.									
Davidson County									
Joelton	05	2057CST			0	0			Thunderstorm Wind (G50)
Tree fell on top of a car.									
Cannon County									
6 SSE Woodbury	05	2105CST 2107CST			0	0			Thunderstorm Wind (G50)
A large tree fell on a small frame house on 1295 Bullpen Rd. The house was totally destroyed. Also, the roof of a large shed was blown off at Red Hill, located in the southeast part of the county.									
Davidson County									
Goodlettsville	05	2105CST			0	0			Thunderstorm Wind (G50)
Large trees were uprooted.									
Cheatham County									
Pleasant View	05	2107CST			0	0			Thunderstorm Wind (G52)
Spotter reported 60 mph wind gust.									
Rutherford									
South Portion	05	2111CST			0	3	5K		Thunderstorm Wind
Mobile home damaged by strong thunderstorm winds.									
Trousdale County									
8.7 SW Hartsville	05	2114CST			0	0			Thunderstorm Wind (G50)
Damage to bridge and home around U.S. Highway 231.									
Lewis County									
Hohenwald	05	2130CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Macon County									
West Portion	05	2131CST			0	0	10K		Thunderstorm Wind
Trees and power lines were down in the western part of the county. Some homes had roof damage.									
Warren County									
Rock Is	05	2134CST			0	0			Hail (0.88)
Public reported nickel size hail.									
Warren County									
Countywide	05	2135CST			0	0			Thunderstorm Wind (G50)
EMA reported extensive trees and power lines were down around the county.									
Sumner County									
Gallatin	05	2136CST			0	0			Thunderstorm Wind (G80)
Tractor trailer overtuned on S.R. Highway 109 Bypass.									
Jackson County									
Gainesboro	05	2145CST			0	0			Thunderstorm Wind (G50)
EMA reported many trees and power lines were down. The hardest hit area was North Springs.									
Clay County									
Countywide	05	2155CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were down countywide. There was damage to a trailer house.									
Putnam County									
Bloomington Spgs	05	2155CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees down on S.R. Highway 56.									
Van Buren County									
Bone Cave	05	2155CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees and power lines down.									
Montgomery									
Clarksville	05 06	2200CST 0100CST			0	0	50K		Flash Flood
Flooding was reported around Mallard Drive and Minor Drive off Tiny Town Road. Some homes and cars were flooded. There was also flooding at Dunbar Cave Road and S.R. 374, along U.S. Hwy 41-A near Ft. Campbell, on Trenton Road and Power Street.									
White County									
Sparta	05	2200CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported widespread trees and power lines down around the county.									
Van Buren County									
Spencer	05	2205CST			0	0			Thunderstorm Wind (G50)
Extensive trees and power line damage reported by sheriff's office.									
White County									
Sparta	05	2205CST			0	0	50K		Thunderstorm Wind
Wind damage to a roof of a church. A large tree nearly split a house on Cummings Chapel Rd. Many trees were blown down around the Sparta Country Club.									
Cumberland									
Crossville	05	2220CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees were blown down.									
Cumberland									
Crossville	05	2220CST			0	0			Urban/Sml Stream Fld
Local law enforcement reported street flooding.									
Fentress County									
Wilder	05	2220CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were down.									
Overton County									
Hanging Limb	05	2220CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported trees and power lines blown down.									
Cumberland									
Isoline	05	2225CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported 2 large trees down in the center of town.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, Central									
Pickett County									
8 S Byrdstown	05	2225CST			0	0			Thunderstorm Wind (G50)
		Sheriff's office reported trees blown down.							
Fentress County									
East Jamestown	05	2240CST			0	0			Thunderstorm Wind (G50)
		Trees and power lines were down.							
Franklin County									
Countywide	05 06	2300CST 0200CST			0	0			Flash Flood
		Sheriff's office reported water covering several roads around the county. High water briefly entered the lower level of Winchester City Hall.							
Fentress County									
Jamestown	05	2308CST			0	0			Thunderstorm Wind (G50)
		Trees were down along with power outages just north of Jamestown.							
Grundy County									
10 W Altamont	06 09	0130CST 0300CST			0	0			Flash Flood
		Sheriff's office reported 2 feet of water covering Highway 108 near Owl Mountain.							
Stewart County									
Cumberland City to .5 NE Cumberland City	05	1745CST 1746CST	0.5	100	0	0			Tornado (F0)
		Tornado reported by local law enforcement near Highway 149.							
Montgomery									
7 SW Clarksville to 6.5 SW Clarksville	05	1758CST 1759CST	0.5	100	0	0			Tornado (F0)
		Spotter reported tornado near Highway 149 in Montgomery county.							
Perry County									
5 SW Linden to 1 NE Linden	05	1920CST 1928CST	6	580	3	0	295K		Tornado (F4)
		An F4 tornado struck the town of Linden, located about 70 miles southwest of Nashville. The tornado damaged many homes, schools and businesses and churches. There were 3 fatalities. A 14 year old girl was sucked out of her home by the tornado as she, her father, and her mother were headed to the basement. Her dad was also sucked out of the home, but was found unharmed in the yard. The 14 year old girl was found 5 hours later in the rumble of their home. Hollis Hinson, 47 year old male and Perry County Trustee, was killed in his home. His girlfriend, 47 year old school teacher Patti Haston, was also killed in Mr. Hinson's house. The home was lifted off the foundation and flung into the woods and down a nearby hill. Both had gone to the bathroom to escape the tornado's fury. Ms. Hinson was found dead in a bathtub. F14PH, F47PH, M47PH							
Davidson County									
3.3 NNE Nashville Cornelia F to 3.4 NNE Nashville Cornelia F	05	2045CST 2046CST	0.1	100	0	0	5K		Tornado (F1)
		A weak tornado caused some roof damage to a few homes at a subdivision in Neely's Bend area of Davidson county.							
Davidson County									
1.1 E Lickton to 1.2 E Lickton	05	2058CST	0.1	100	0	0	1K		Tornado (F1)
		A weak tornado caused some roof damage to a home on Shaw Rd.							
Sumner County									
1 SW Gallatin to .3 SW Gallatin	05	2136CST 2137CST	0.7	220	0	17	1M		Tornado (F2)
		The tornado touched down and struck the Rucker Stewart M.S. in the Gallatin city limits, continued northeast and hit the Greenwood Apartments and finally the Gallatin Post Office. The damage to the school and the post office was mainly roof damage. However, the Greenwood Apartments were the hardest hit. 40 families or 100 people were temporarily homeless. 3 apartment buildings were condemned. 17 people were treated at the Sumner Regional Medical Center and released. There were no serious injuries.							
Davidson County									
Nashville	09	1725CST			0	0			Hail (0.88)
		WTVF-TV Channel 5 reported nickel size hail.							
Davidson County									
Nashville	09	1730CST			0	0			Hail (0.75)
		Public reported dime size hail at Thompson Lane and Murfreesboro Road.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>TENNESSEE, Central</u>									
Warren County									
Rowland	11	1800CST			0	0			Hail (0.75)
		Spotter reported dime size hail covering the ground.							
Van Buren County									
1 SE Spencer	13	1420CST			0	0			Hail (0.75)
		SKYWARN Spotter reported dime size hail covering the ground.							
Davidson County									
Goodlettsville	13	1430CST			0	0			Hail (0.75)
		SKYWARN Spotter reported dime size hail.							
Davidson County									
Goodlettsville	13	1435CST			0	0			Hail (0.88)
		EMA reported nickel size hail.							
Cumberland									
Crab Orchard	13	1436CST 1437CST			0	4			Hail (1.75)
		EMA reported marble to golf ball size hail covering the ground at a 3 inch depth on I-40. Over a half dozen wreckers were sent to clear the accidents on the interstate. Traffic was backed up for 12 miles to the Roane county line. There were 4 injuries. Snow plows were used to clear the hail off the interstate. At a Godsey residence on Hwy 70 E in Crab Orchard, hailstones measured 7 inches deep in his garden.							
Wilson County									
Lebanon	23	1346CST			0	0			Thunderstorm Wind (G50)
		Sheriff's office reported trees blown down just east of Lebanon.							
Smith County									
North Portion	23	1435CST			0	0			Thunderstorm Wind (G50)
		Spotter reported trees and power lines down across the northern part of the county.							
Smith County									
1 E Gordonsville	23	1638CST			0	0			Thunderstorm Wind (G50)
		Trees and a few power lines were blown down.							
Wilson County									
1 NE Lebanon	23	1643CST			0	0			Thunderstorm Wind (G50)
		Public reported numerous trees were down on Henley Drive, about 1 mile northeast of Lebanon.							
Smith County									
Lancaster	23	1645CST			0	0			Thunderstorm Wind (G50)
		Trees and power lines were down.							
Putnam County									
Silver Pt	23	1720CST			0	0			Thunderstorm Wind (G50)
		Trees were blown down.							
<u>TENNESSEE, East</u>									
Bledsoe County									
5 NW Pikeville	05	2205CST			0	0	5K		Thunderstorm Wind
		Trees down on Highway 30 on Cumberland Mountain.							
Marion County									
Whitwell	05 06	2230CST 2230CST			0	0	10K		Thunderstorm Wind
		Trees down.							
Roane County									
Kingston	05	2330EST			0	0	5K		Thunderstorm Wind
		Trees down on Highway 72 and 58 junction near Kingston.							
Blount County									
Friendsville	05	2340EST			0	0	12K		Thunderstorm Wind
		Trees down.							
Loudon County									
Loudon	05 06	2345EST 2345EST			0	0	4K		Thunderstorm Wind
		Trees down on north side of town.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, East									
Morgan County									
Wartburg	05	2350EST			0	0		9K	Thunderstorm Wind
		Trees down on power lines.							
Rhea County									
Dayton	05	2350EST			0	0		11K	Thunderstorm Wind
		Trees down on north side of town.							
Knox County									
Countywide	06	0001EST			0	0		19K	Thunderstorm Wind
		Trees down.							
Sequatchie County									
1 S Dunlap	06	0001EST			0	0		2K	Thunderstorm Wind
		Trees down on John Burch Road.							
Bledsoe County									
5 W Pikeville	06	0001CST			0	0	50K		Urban/Sml Stream Fld
		Numerous secondary roads washed out.							
Scott County									
5 SW Huntsville to Robbins	06	0001EST			0	0		3K	Thunderstorm Wind
		Twelve trees down.							
Meigs County									
2 NW Decatur	06	0010EST			0	0		4K	Thunderstorm Wind
		Trees down on River Road.							
Campbell County									
Caryville	06	0010EST			0	0		8K	Thunderstorm Wind
		Trees down.							
Hamilton County									
Countywide	06	0015EST			0	0	20K	7K	Thunderstorm Wind
		Tree limbs on power lines throughout county.							
Anderson County									
Oak Ridge	06	0015EST			0	0		9K	Thunderstorm Wind
		Trees down.							
Blount County									
Maryville	06	0030EST			0	0		8K	Thunderstorm Wind
		Trees down.							
Knox County									
Knoxville	06	0030EST			0	0		11K	Thunderstorm Wind
		Trees down.							
Mcminn County									
Etowah	06	0040EST			0	0	15K	3K	Thunderstorm Wind
		Large tree limbs down on power lines.							
Monroe County									
Tellico Plains	06	0045EST			0	0		3K	Thunderstorm Wind
		Trees down.							
Hamilton County									
Ooltewah	06	0045EST			0	0		5K	Thunderstorm Wind
		Trees down.							
Union County									
5 NW Maynardville	06	0045EST			0	0		6K	Thunderstorm Wind
		Trees down near Sharps Chapel.							
Sevier County									
Kodak	06	0050EST			0	0		2K	Thunderstorm Wind
		Trees down.							
Bradley County									
Cleveland	06	0050EST			0	0		5K	Thunderstorm Wind
		Trees down.							

Storm Data and Unusual Weather Phenomena

May 1999

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									
Claiborne County									
3 NE Tazewell	06	0050EST			0	0	5K		Thunderstorm Wind
									Trees down.
Polk County									
Benton	06	0055EST			0	0	6K		Thunderstorm Wind
									Trees down.
Hamblen County									
Morristown	06	0100EST			0	0	1K		Thunderstorm Wind
									Large tree limbs down on McGinnis Road.
Bradley County									
Cleveland	06	0100EST			0	0			Urban/Sml Stream Fld
									Poor Drainage and heavy rains caused water to run into four Cleveland schools-Arnold and Blythe Avenue elementary schools, the Teen Learning Center and Cleveland Middle.
Jefferson County									
4 SE Jefferson City	06	0100EST			0	0	4K		Thunderstorm Wind
									Trees down on Dumplin Valley Road.
Grainger County									
Bean Station	06	0100EST			0	0	5K		Thunderstorm Wind
									Trees down.
Bradley County									
3 N Cleveland	06	0105EST			0	0	4K		Thunderstorm Wind
									Trees down.
Monroe County									
2 E Tellico Plains	06	0105EST			0	0	2K		Thunderstorm Wind
									Trees down.
Polk County									
Reliance	06	0200EST			0	0	2K		Thunderstorm Wind
									Trees down on Highway 30.
Sevier County									
Pigeon Forge	06	0930EST			0	0			Urban/Sml Stream Fld
									River Divide Road under water and temporarily closed.
Hamblen County									
Morristown	07	1415EST			0	0			Hail (0.75)
									Reported at West High School.
Jefferson County									
New Market	07	1415EST			0	0			Hail (0.75)
Grainger County									
Central Pt	07	1430EST			0	0			Hail (1.00)
Sevier County									
Kodak	07	1500EST			0	0	5K		Thunderstorm Wind
									Trees down.
Knox County									
Countywide	07	1500EST			0	0	20K	15K	Thunderstorm Wind
									Numerous trees and power lines down throughout county. At least 9000 homes were without power for a time.
Hancock County									
7 SW Sneedville	07	1505EST			0	0	10K		Thunderstorm Wind
									Trees down in Rhea Hollow. Also, a tree fell on and damaged a car.
Blount County									
(Tys)Meghee Tyson Kn	07	1508EST			0	0			Hail (1.25)
									52 mph winds also recorded at this time. Reported by observer.
Blount County									
Clover Hill	07	1508EST			0	0			Hail (0.75)
Washington									
3 S Garber	07	1530EST			0	0			Hail (1.00)
									Hail near and along Highway 81 near Unicoi County border.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Hancock County									
Sneedville	07	1530EST			0	0	15K		Thunderstorm Wind
			Numerous trees down, with several blocked roads.						
Johnson County									
Mountain City	07	1550EST			0	0			Hail (0.75)
Johnson County									
Mountain City	07	1615EST			0	0			Hail (0.75)
Union County									
3 SW Maynardville	07	1620EST			0	0			Hail (1.75)
			Hail reported near and along Route 33 between Maynardville and Knox County line.						
Bradley County									
Mc Donald	07	1620EST			0	0			Hail (0.75)
Carter County									
Hampton	07	1625EST			0	0			Hail (0.75)
			Hail near and south of town.						
Carter County									
Roan Mtn	07	1625EST			0	0			Hail (0.75)
Anderson County									
Claxton	07	1740EST			0	0			Thunderstorm Wind (G100)
Anderson County									
1 S Clinton	07	1740EST			0	0	5K		Thunderstorm Wind
			Trees down in and south of town.						
Knox County									
10 SW Knoxville to 4 SW Knoxville	07	1740EST			0	0			Hail (1.00)
			Hail reported near and along Pellissippi Parkway.						
Bledsoe County									
Pikeville	11	1545CST			0	0			Hail (0.75)
Mcminn County									
Niota	11	1905EST			0	0			Urban/Sml Stream Fld
			Locally heavy rain caused some street flooding.						
Anderson County									
Andersonville	13	1315EST			0	0			Hail (0.75)
Bradley County									
Black Fox	13	1330EST			0	0			Hail (0.75)
Bradley County									
2 S Charleston	13	1345EST			0	0			Hail (1.00)
Rhea County									
Evensville	13	1400EST			0	0			Hail (0.75)
Hamilton County									
3 N East Ridge	13	1415EST			0	0			Hail (1.00)
Loudon County									
Lenoir City	13	1450EST			0	0			Hail (0.75)
Morgan County									
3 N Wartburg	13	1500EST			0	0			Hail (1.75)
Bledsoe County									
Pikeville	13	1515EST			0	0			Hail (1.00)
Scott County									
Smoky Jct	13	1520EST			0	0			Hail (0.75)
Rhea County									
1 SE Spring City	13	1529EST			0	0			Hail (1.75)
Knox County									
Knoxville	13	1545EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Roane County									
10 S Kingston	13	1555EST			0	0		12K	Thunderstorm Wind
Trees down across power lines in the southern part of the county.									
Meigs County									
Decatur	13	1600EST			0	0			Hail (0.75)
Sevier County									
Countywide	13	1610EST			0	0			Hail (0.75)
Rhea County									
Spring City	13	1615EST			0	0		15K	Thunderstorm Wind
Trees down in central and northern part of county.									
Rhea County									
Spring City	13	1615EST			0	0			Hail (0.75)
Hail reported in central and northern parts of the county.									
Jefferson County									
White Pine	13	1620EST			0	0			Hail (1.75)
Meigs County									
Decatur	13	1630EST			0	0			Hail (1.00)
Rhea County									
Evensville	13	1630EST			0	0			Hail (1.00)
Hamblen County									
2 NW Morristown	13	1635EST			0	0			Hail (0.75)
Cocke County									
Bybee	13	1640EST			0	0		5K	Thunderstorm Wind
Trees down.									
Jefferson County									
White Pine	13	1655EST			0	0	50K	10K	Thunderstorm Wind
Damage was confined to the area of Highway 113 and Nina Road. Two barns were completely destroyed. Harvest Temple Baptist Church sustained roof damage. Twelve mobile homes in the Spring Park mobile home park sustained damage to their underpinnings. Several trees were also blown down in this area. A storm survey shortly after the event estimated the winds at 80 to 100 mph.									
Greene County									
Mosheim	13	1700EST			0	0		15K	Thunderstorm Wind
Numerous trees down.									
Meigs County									
Decatur	13	1730EST			0	0			Hail (1.00)
Hawkins County									
Rogersville	13	1735EST			0	0			Hail (0.88)
Bradley County									
5 S Cleveland	13	1810EST			0	0			Hail (1.75)
Large hail throughout the southern part of the county.									
Bradley County									
Cleveland	13	1810EST			0	0			Hail (1.00)
Polk County									
5 N Benton	13	1830EST			0	0			Hail (1.00)
Sevier County									
Pittman Center	18	1820EST			0	0			Urban/Sml Stream Fld
Webbs Creek flooded part of Cobblers Knob golf course.									
Cocke County									
Cosby	18	1845EST			0	0			Urban/Sml Stream Fld
Middle Creek flooded out Cosby Highway. The road was covered in debris and closed.									
Sequatchie County									
Mt Airy	23	1340CST			0	0	5K	5K	Thunderstorm Wind
A few trees and power lines down off Highway 127 near Mt. Airy and near the Bledsoe county line.									
Bledsoe County									
Brayton	23	1350CST 1450CST			0	0	10K	5K	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>TENNESSEE, East</u>									
Several trees downed. One power pole and numerous power lines downed.									
Rhea County									
Dayton	23	1500EST			0	0	5K		Thunderstorm Wind
Power pole downed.									
Blount County									
Maryville	23	1730EST			0	0	6M		Lightning
Lightning started a fire at Fayerweather Hall at Maryville College. The fire gutted the entire third floor of the 100 year-old structure. Smoke and water damaged the remainder of the building. Up to 100 firefighters were involved in the two hour effort to extinguish the blaze.									
Knox County									
10 W Knoxville	23	2310EST			0	0	10K	5K	Thunderstorm Wind
Trees and power lines down off Yarnell Road near Hines Valley Baptist Church.									
<u>TENNESSEE, West</u>									
Shelby County									
Memphis	05	0011CST 0020CST			0	0	0.10K		Hail (1.00)
Shelby County									
Countywide	05	0015CST 0030CST			0	0	10K		Thunderstorm Wind
Many trees were blown down across the county.									
Fayette County									
Somerville	05	0045CST 0050CST			0	0	5K		Thunderstorm Wind
Several trees were knocked down.									
Hardeman County									
Bolivar	05	0110CST 0120CST			0	0	5K		Thunderstorm Wind
Some trees were blown down.									
Shelby County									
Millington	05	1520CST 1530CST			0	0	0.06K		Hail (0.88)
Tipton County									
Atoka	05	1540CST 1545CST			0	0	0.10K		Hail (1.00)
Lauderdale									
Ashport	05	1545CST 1550CST			0	0	5K		Thunderstorm Wind
A few trees were knocked down along Route 19.									
Shelby County									
Millington	05	1550CST 1700CST			0	0	1K		Urban/Sml Stream Fld
A few streets suffered minor street flooding.									
Haywood County									
Brownsville	05	1615CST 1620CST			0	0	0.01K		Hail (0.75)
Haywood County									
Brownsville	05	1615CST 1620CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Crockett County									
Bells	05	1630CST 1635CST			0	0	5K		Thunderstorm Wind
Some trees were knocked down.									
Shelby County									
2 E Memphis Intl Arpt to Memphis Intl Arpt	05	1630CST 1635CST			0	0	0.01K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, West									
Gibson County									
Humboldt	05	1635CST 1640CST			0	0	7.5K		Hail (2.75)
Fayette County									
Piperton	05	1720CST 1725CST			0	0	5K		Thunderstorm Wind
Some large trees were knocked down.									
Gibson County									
Milan	05	1720CST 1725CST			0	0	0.01K		Hail (0.75)
Shelby County									
5 SE Memphis to Germantown	05	1730CST 1745CST			0	0	25K		Thunderstorm Wind
A gas station had its awning blown down on top of a car. One house lost part of its siding. Several trees were knocked down.									
Henderson County									
Lexington	05	1750CST 1755CST			0	0	0.01K		Hail (0.75)
Shelby County									
Germantown to Bartlett	05	1750CST 1900CST			0	0	1K		Urban/Sml Stream Fld
Several streets were flooded in Germantown and Bartlett with as much as 12 inches of water on the road.									
Shelby County									
Germantown	05	1800CST 1805CST			0	0	5K		Thunderstorm Wind
A few trees were blown down.									
Hardeman County									
Cloverport	05	1825CST 1830CST			0	0	10K		Thunderstorm Wind
Several trees were knocked down with some of the trees falling on some cars.									
Henderson County									
Lexington	05	1825CST 1840CST			0	0	1M		Thunderstorm Wind
Over 300 homes and businesses were damaged or destroyed in and around the city of Lexington. Some trees were blown down.									
Chester County									
Henderson	05	1845CST 1915CST			0	1	100K		Thunderstorm Wind
Nearly forty houses and mobile homes were damaged. Some trees and power lines were knocked down.,									
Mcnairy County									
Ramer	05	1845CST 1850CST			0	0	15K		Thunderstorm Wind
Some structures were damaged. A few trees and power lines were blown down.									
Carroll County									
Mc Kenzie	05	1900CST 2100CST			0	0	10K		Flash Flood
Two businesses were flooded.									
Dyer County									
Dyersburg	05	1900CST 2200CST			0	0	10K		Flash Flood
Three homes were evacuated because of flooding.									
Hardin County									
Crump to Savannah	05	1900CST 1915CST			0	0	250K		Thunderstorm Wind
Over fifty homes and buildings were damaged or destroyed. Several trees and power lines were also knocked down.									
Mcnairy County									
Selmer	05	1900CST 2200CST			0	0	1K		Urban/Sml Stream Fld
Several streets were flooded. Some driveway culverts were washed out.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TENNESSEE, West									
Henderson County									
Lexington	05	1905CST 1915CST			0	0	20K		Thunderstorm Wind
A few structures were damaged trapping people in two homes. Numerous trees and power lines were blown down.									
Mcnairy County									
Selmer	05	1910CST 1915CST			0	0	250K		Thunderstorm Wind
More than 40 homes were damaged and a dozen mobile homes were damaged or destroyed. Several trees were blown down.									
Hardeman County									
2 S Bolivar	05	1915CST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were knocked down.									
Henderson County									
Lexington	05	1925CST 1930CST			0	0	0.01K		Hail (0.75)
Madison County									
Medon	05	1927CST 1935CST			0	0	1K		Thunderstorm Wind
A large tree was knocked down on a road in Medon. A driver hit the downed tree with their car and was killed.									
Mcnairy County									
Adamsville	05	1955CST 2000CST			0	0	10K		Thunderstorm Wind
Several trees and power lines were blown down.									
Haywood County									
Stanton	12	2040CST 2045CST			0	0	0.01K		Hail (0.75)
Shelby County									
Memphis	17	1950CST 1955CST			0	0	1K		Thunderstorm Wind (G51)
Madison County									
Jackson	21	1420CST 1425CST			0	0	0.01K		Hail (0.75)
Mcnairy County									
Countywide	21	1500CST 1520CST			0	0	0.10K		Hail (0.75)
Mcnairy County									
Countywide	21	1500CST 1520CST			0	0	10K		Thunderstorm Wind
Trees and power lines were knocked down across the county.									
TEXAS, Central									
Sterling County									
13 W Sterling City	03	1850CST			0	0			Hail (1.75)
Nolan County									
2 W Maryneal	03	1908CST	0.1	10	0	0			Tornado (F0)
A tornado briefly touched down near the community of Maryneal.									
Fisher County									
Rotan	03	1915CST			0	0			Hail (1.00)
Sterling County									
7 W Sterling City	03	1917CST			0	0			Hail (1.75)
Sterling County									
9 NW Sterling City	03	1930CST			0	0			Hail (4.00)
Hail up to the size of grapefruit was reported northwest of Sterling City.									
Coke County									
2 W Edith	03	1940CST			0	0			Hail (1.75)
Sterling County									
Sterling City	03	2015CST			0	0			Hail (1.75)
Taylor County									
8 SW Abilene	03	2020CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops		
TEXAS, Central										
Sterling County										
Broome	03	2035CST			0	0				Hail (1.00)
Taylor County										
Buffalo Gap	03	2040CST			0	0				Thunderstorm Wind (G52)
A spotter estimated winds at 60 mph.										
Coke County										
Robert Lee	03	2045CST			0	0				Hail (1.75)
Coke County										
1 S Robert Lee	03	2102CST			0	0				Hail (1.00)
Taylor County										
Lawn	03	2137CST			0	0				Hail (1.75)
Coke County										
1 N Bronte	03	2205CST			0	0				Hail (0.75)
Runnels County										
Drasco	03	2245CST			0	0				Hail (2.50)
Hail up to the size of tennis balls fell near Drasco in northern Runnels County.										
Schleicher County										
10 NW Eldorado to 10 NE Eldorado	04	0155CST 0315CST	23	250	0	0	10K			Tornado (F2)
A slow moving tornado skipped across a 23 mile long path just north of Eldorado in northern Schleicher County. Eleven power poles were snapped, trees uprooted, and at least 2 barns lost their roofs as the tornado passed. Other outbuildings along the path of the tornado were also damaged.										
Schleicher County										
12 N Eldorado	04	0240CST			0	0				Hail (0.75)
Menard County										
2 S Hext	04	0515CST			0	0				Hail (0.75)
Severe storms developed across much of West Central Texas during the evening of the 3rd and continued into the early morning hours of the 4th. A brief tornado was reported near Maryneal in Nolan County, while hail up to the size of grapefruit was reported northwest of Sterling City. Hail up to tennis ball size was reported in Drasco in northern Runnels County, while golf ball size hail fell in Sterling City, Robert Lee, and Lawn.										
Coke County										
Robert Lee	09	2008CST			0	0	5K			Thunderstorm Wind
Several homes in Robert Lee suffered roof damage as high winds blew through the town. Two mobile homes were also lightly damaged.										
Tom Green										
5 SE San Angelo	09	2105CST			0	0	1K			Thunderstorm Wind
An amateur radio tower was blown down southeast of San Angelo.										
Mcculloch County										
Doole	09	2127CST			0	0				Hail (0.75)
Brown County										
Brownwood	09	2200CST			0	0				Hail (1.00)
Brown County										
Brownwood	09 10	2230CST 0030CST			0	0				Flash Flood
Several homes suffered minor water damage as streets filled with water and then backed up into the homes. Many underpasses throughout the city were flooded and impassable.										
An area of strong to severe thunderstorms moved through the Concho Valley and Heartland during the evening hours of the 9th. Wind damage was reported in Robert Lee, where several homes were slightly damaged.										
Runnels County										
Hatchel	10	0500CST			0	0				Hail (1.00)
Brown County										
Bangs	10	0810CST			0	0				Hail (1.75)
Brown County										
Brownwood	10	0830CST			0	0				Hail (0.75)
Severe storms redeveloped across the Heartland and the eastern Concho Valley during the morning hours of the 10th. Hail up to the size of golf balls fell in Bangs in eastern Brown County.										

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central									
Shackelford									
4 N Albany	10	1556CST			0	0			Hail (1.75)
An isolated severe thunderstorm produced golf ball size hail north of Albany in northern Shackelford County.									
Brown County									
Winchell	11	1505CST			0	0			Hail (1.00)
Brown County									
12 S Brownwood	11	1510CST			0	0			Hail (0.75)
San Saba County									
Elm Grove	11	1518CST	0.2	50	0	0			Tornado (F0)
A brief tornado touchdown was reported in northern San Saba County near the community of Elm Grove.									
Brown County									
Thrifty	11	1610CST			0	0			Hail (1.00)
Brown County									
Bangs	11	1630CST			0	0			Hail (1.00)
San Saba County									
5 N San Saba	11	1630CST 1830CST			0	0			Flash Flood
Areas of flooding were reported just north of the town of San Saba.									
San Saba County									
2 NW San Saba	11	1657CST	0.2	20	0	0			Tornado (F0)
A barn was slightly damaged during a brief tornado touchdown.									
Mason County									
9 NW Loyal Vly	11	1705CST			0	0			Hail (1.75)
Mason County									
9 NW Loyal Vly to 5 N Loyal Vly	11	1705CST 1745CST	7	1400	1	6	750K	250K	Tornado (F4)
A large multiple-vortex tornado ripped through eastern Mason County during the late afternoon hours. The slow moving tornado first touched down near the Llano River 9 miles northwest of Loyal Valley and then travelled a 7-mile long path, finally dissipating 5 miles north of Loyal Valley. This tornado, whose width would reach three-quarters of a mile wide at times, caused widespread devastation. Two homes were completely destroyed, with debris scattered over great distances. Large pieces of a pick-up truck were located three-quarters of a mile away from the house where it had been left. Tragically, one person was killed and 5 others were injured when that same house was destroyed. The people had sought refuge in a car in a stone garage, but as the tornado tore across the garage, debris smashed through the car, killing one man and injuring the remaining occupants. Sixteen other houses were damaged, along with additional barns and outbuildings. Numerous head of cattle and deer were also killed as the tornado passed. When the tornado crossed Farm-to-Market Road 152, a stretch of asphalt 720 feet wide was ripped off of the road surface. M75PH A series of supercell thunderstorms ripped across the Heartland and Northwest Hill Country on the afternoon of the 11th. Three tornadoes would touch down, including a devastating F4 tornado north of Loyal Valley in eastern Mason County. One person was killed and 6 others injured as the three-quarters of a mile tornado tracked a 7 mile long path.									
Jones County									
2 S Hamlin	15	1710CST			0	0			Hail (1.75)
Golf ball size hail cracked a car windshield just north of Hamlin.									
Haskell County									
2 W Haskell	15	1742CST			0	0			Hail (0.75)
An isolated severe thunderstorm dropped large hail across the northern Big Country as it moved from from near Hamlin northward to near Haskell. Hail up to the size of golf balls was reported in northern Jones County.									
Concho County									
Millersview	17	1420CST			0	0			Hail (0.75)
Concho County									
Eden	17	1520CST			0	0			Hail (1.75)
Menard County									
5 N Menard	17	1620CST			0	0			Hail (1.00)
Brown County									
Brownwood	17	1630CST			0	0			Hail (0.75)
Menard County									
Menard	17	1631CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Sutton County									
Sonora	17	1720CST			0	0			Hail (0.75)
Sutton County									
9 S Sonora	17	1806CST			0	0			Hail (1.00)
Sutton County									
10 W Sonora	17	1835CST	0.1	10	0	0			Tornado (F0)
A tornado briefly touched down west of Sonora in western Sutton County.									
Sutton County									
Sonora	17	1840CST			0	0			Hail (0.75)
Severe thunderstorms developed during the late afternoon across the eastern sections of the Concho Valley, and then moved slowly southward into the Northern Edwards Plateau. A tornado briefly touched down west of Sonora in western Sutton County, while hail up to the size of golf balls was reported in both Eden and Menard.									
Nolan County									
5 SE Sweetwater	23	1645CST			0	0	5K		Thunderstorm Wind
Thunderstorm winds estimated at 70 to 80 mph severely damaged a carport and broke large limbs off of trees in the Lake Sweetwater area. One house also suffered minor roof damage.									
Concho County									
12 E Paint Rock	23	1815CST			0	0	3K		Thunderstorm Wind
An apparent microburst ripped part of a tin roof off of a mobile home near the O.H. Ivie Reservoir in northeast Concho County.									
Mcculloch County									
8 NNE Brady	24	1725CST			0	0			Hail (1.75)
Hail up to the size of golf balls broke windows and damaged a skylight at a residence north of Brady.									
Mcculloch County									
5 NE Brady	24	1727CST			0	0			Hail (1.50)
San Saba County									
15 S Richland Spgs	24	1815CST			0	0			Hail (1.50)
Irion County									
12 N Mertzon	24	2015CST 2345CST			0	1	15K		Flood
Four cars attempting to cross a flooded low water crossing in northern Irion County were swept away by the swiftly flowing floodwaters. Heavy rains had swelled the Mid-Concho River, flooding the low water crossing along Farm-to-Market Road 853. All of the occupants were accounted for, although one person was treated for hypothermia.									
Scattered strong to severe thunderstorms produced hail up to the size of golf balls across the Heartland during the evening hours of the 24th. However, the most life-threatening weather occurred in Irion County, where a slow moving thunderstorm dumped excessive rainfall across basin of the Mid-Concho River. Water levels quickly rose, inundating low water crossings. Three cars attempting to cross at one of the low water crossings were swept downstream. Although all four occupants of the cars were rescued, one person was treated for hypothermia.									
Coke County									
6 S Blackwell	25	1654CST			0	0			Hail (2.75)
Baseball size hail reported south of Blackwell.									
Fisher County									
Sylvester	25	1655CST			0	0			Hail (0.75)
Coke County									
4 N Bronte	25	1709CST			0	0			Hail (1.75)
Taylor County									
Buffalo Gap	25	1730CST			0	0			Hail (1.75)
Taylor County									
Buffalo Gap	25	1732CST			0	0			Thunderstorm Wind (G52)
Winds gusting to 60 mph reported in southern Taylor County.									
Taylor County									
Buffalo Gap	25	1738CST			0	0			Hail (2.00)
Hail up to the size of tennis balls falling in southern Taylor County.									
Taylor County									
Buffalo Gap	25	1738CST	0.1	10	0	0			Tornado (F0)
A tornado touched down briefly near Buffalo Gap in southern Taylor County.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
TEXAS, Central										
Runnels County										
2 W Ballinger	25	1800CST	0.1	10	0	0				Tornado (F0)
A brief tornado was reported just west of Ballinger.										
Runnels County										
Ballinger	25	1804CST			0	0				Hail (0.88)
Callahan County										
Oplin	25	1815CST			0	0				Hail (2.75)
Hail up to the size of baseballs reported in Oplin in southwest Callahan County.										
Haskell County										
Rule	25	1815CST			0	0				Hail (0.75)
Callahan County										
Oplin	25	1820CST			0	0				Hail (1.75)
Haskell County										
Rule	25	1824CST			0	0				Hail (1.00)
Haskell County										
2 W Rule	25	1825CST			0	0				Hail (1.75)
Runnels County										
2 N Ballinger	25	1825CST			0	0				Hail (1.75)
Hail up to the size of golf balls covered the ground to a depth of 6 inches just north of Ballinger.										
Runnels County										
Ballinger	25	1825CST			0	0	1K			Thunderstorm Wind
A carport in Ballinger was destroyed by high winds.										
Haskell County										
Sagerton	25	1853CST			0	0	10K			Hail (1.75)
Large hail brought damage to the small community of Sagerton in northern Haskell County. Windows were broken across the town, while a church reported that 2 of its stained glass windows were also broken.										
Coleman County										
Echo	25	1918CST			0	0				Hail (0.75)
Jones County										
1 W Hamlin	25	1940CST	0.1	10	0	0				Tornado (F0)
A tornado briefly touched down just west of Hamlin in northwest Jones County.										
Mcculloch County										
Placid	25	2020CST			0	0				Hail (1.75)
Fisher County										
Rotan	25	2035CST			0	0				Hail (0.75)
Haskell County										
Weinert	26	0116CST			0	0				Thunderstorm Wind (G61)
Wind gusts to 70 mph reported in Weinert.										
Haskell County										
Weinert	26	0118CST			0	0				Hail (1.25)
Throckmorton										
Elbert	26	0225CST			0	0	80K			Thunderstorm Wind
Damaging winds destroyed 2 large grain elevator and downed trees in the small community of Elbert.										
Scattered supercell thunderstorms produced very large hail, damaging winds, and a few tornadoes across the northern half of the area during the evening of the 25th. Although no damage was noted, brief tornado touchdowns were reported near Ballinger, Buffalo Gap, and Hamlin. Hail up to the size of baseballs also fell just south of Blackwell and near Oplin, while large hail and high winds damaged windows throughout the community of Sagerton. A line of storms that developed across West Texas moved across the northern Big Country during the early morning hours of the 26th. Damaging winds of up to 70 mph were reported across sections of Haskell and Throckmorton counties.										
Mcculloch County										
Brady	26	1300CST 1430CST			0	0				Flash Flood
Streets were flooded and impassable across the town of Brady.										
Mcculloch County										
Brady	26	1341CST			0	0				Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Concho County									
Millersview	26	1630CST			0	0			Hail (1.75)
Menard County									
8 NE Menard	26	1652CST			0	0			Hail (0.75)
Kimble County									
5 N Junction	26	1730CST			0	0			Hail (0.75)
Kimble County									
5 N Junction	26	1730CST			0	0	0.20K		Thunderstorm Wind
High winds downed a pecan tree just north of Junction. Severe storms produced hail up to the size of golf balls across the southern Concho Valley and Northwest Hill Country on the afternoon of the 26th.									
Coke County									
6 N Robert Lee	26	2233CST			0	0			Thunderstorm Wind (G52)
Winds gusting to 60 mph.									
Fisher County									
Hobbs	26	2310CST			0	0			Hail (0.75)
Menard County									
5 S Menard	27	0125CST			0	0			Thunderstorm Wind (G52)
A line of thunderstorms produced sporadic reports of severe weather as it moved through West Central Texas during the late evening hours of the 26th and early morning hours of the 27th.									
Callahan County									
Clyde	28	1625CST			0	0			Hail (1.00)
Coke County									
Robert Lee	28	1708CST			0	0			Hail (0.88)
Coke County									
Robert Lee	28	1710CST			0	0			Hail (1.75)
Coke County									
Robert Lee	28	1735CST 1835CST			0	0			Flash Flood
Minor street flooding reported in Robert Lee.									
Tom Green									
San Angelo	28	2324CST			0	0			Hail (1.00)
Tom Green									
San Angelo	29	0000CST 0200CST			0	0			Flash Flood
Minor street flooding reported throughout the city of San Angelo.									
Throckmorton									
Throckmorton	29	1900CST			0	0			Hail (1.00)
Sterling County									
10 W Sterling City	30	1845CST			0	0			Hail (0.75)
Mitchell County									
Loraine	30	1903CST			0	0			Hail (0.88)
Mitchell County									
Loraine	30	1909CST			0	0			Hail (1.75)
Nolan County									
Roscoe	30	1924CST			0	0			Hail (1.75)
Nolan County									
Sweetwater	30	1940CST			0	0			Hail (1.75)
Nolan County									
Sweetwater	30	1949CST			0	0			Hail (2.75)
Hail up to the size of baseballs broke windshields out as it fell along Interstate-20.									
Nolan County									
Sweetwater	30	1949CST			0	0			Thunderstorm Wind (G52)
Winds up to 60 mph.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
TEXAS, Central									
Taylor County									
Trent	30	2016CST			0	0			Hail (2.75)
									Baseball size hail.
Jones County									
5 S Noodle	30	2040CST			0	0			Hail (1.00)
Haskell County									
Stamford	30	2145CST			0	0			Hail (2.75)
									Baseball size hail fell in the town of Stamford, along the Jones and Haskell County line.
Jones County									
Stamford	30	2145CST			0	0			Hail (2.75)
									Baseball size hail.
									Scattered severe thunderstorms produced very large hail across the Big Country during the evening of the 30th. One storm that developed near Colorado City tracked along Interstate-20, dropping golf ball to baseball size hail. The city of Sweetwater took the brunt of the storm, where the large hail combined with 60 mph winds to break windows and car windshields across the city. A second storm that developed across southern Haskell County produced baseball size hail in the community of Stamford.
Throckmorton									
10 S Throckmorton	31	1645CST			0	0			Hail (0.75)
Throckmorton									
15 S Throckmorton	31	1705CST			0	0			Hail (0.88)
Throckmorton									
17 S Throckmorton	31	1738CST			0	0	0.50K		Hail (2.75)
									Baseball size hail broke the windshield out of a Throckmorton County Sheriff's officer's car.
Sterling County									
10 W Sterling City	31	1830CST	0.1	10	0	0			Tornado (F0)
									A brief tornado touched down west of Sterling City.
Haskell County									
1 S Rochester	31	1834CST			0	0			Hail (0.75)
Haskell County									
5 S Rochester	31	1840CST			0	0			Hail (1.75)
Sterling County									
5 NW Sterling City	31	1840CST			0	0	5K		Hail (2.75)
									Baseball size hail broke an estimated 40 to 50 windows in residences just northwest of Sterling City.
Sterling County									
5 NW Sterling City	31	1840CST			0	0	5K		Thunderstorm Wind
									Severe thunderstorm winds downed trees and destroyed a carport just northwest of Sterling City.
Nolan County									
1 W Maryneal	31	1915CST			0	0			Hail (4.50)
									Hail up to the size of softballs was reported near Maryneal in central Nolan County.
Nolan County									
4 N Maryneal	31	1920CST			0	0			Hail (1.75)
Nolan County									
Maryneal	31	1931CST			0	0			Hail (2.50)
									Tennis ball size hail reported in Maryneal.
Nolan County									
6 NW Nolan	31	1931CST			0	0			Hail (2.75)
									Baseball size hail reported.
Fisher County									
4 SE Rotan	31	2001CST			0	0			Hail (2.75)
									Baseball size hail reported halfway between Rotan and Roby.
Taylor County									
Merkel	31	2005CST			0	0			Hail (2.75)
									Baseball size hail fell in Merkel in western Taylor County.
Fisher County									
Royston	31	2010CST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

May 1999

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, Central</u>									
Taylor County									
5 S Merkel	31	2020CST			0	0	3K		Thunderstorm Wind
			High winds toppled 9 power poles south of Merkel.						
Throckmorton									
8 N Throckmorton	31	2027CST			0	0			Hail (0.75)
Haskell County									
12 S Haskell	31	2038CST			0	0			Hail (1.75)
Haskell County									
6 S Haskell	31	2039CST			0	0			Hail (1.00)
Jones County									
Anson	31	2048CST			0	0			Hail (0.75)
Throckmorton									
5 W Throckmorton	31	2106CST			0	0			Hail (1.00)
			Severe storms pounded the Big Country and northern Concho Valley once again during the evening of the 31st. Although a brief tornado did touch down west of Sterling City, the only damage was caused when a combination of strong winds and baseball size hail broke 40 to 50 windows at residences just northwest of Sterling City. The winds also destroyed a carport and downed trees. In addition, softball size hail was reported near Maryneal in central Nolan County, with baseball size hail falling near Throckmorton, Merkel, and Rotan.						
<u>TEXAS, Central Southeast</u>									
Jackson County									
Cordele	02	1655CST			0	0	25K		Hail (1.25)
Houston County									
Lovelady	02	1710CST			0	0	15K		Hail (1.00)
Trinity County									
Apple Spgs	02	1716CST			0	0	40K		Hail (1.75)
Trinity County									
Glendale	02	1724CST			0	0	15K		Hail (1.00)
Wharton County									
Louise	02	1725CST			0	0	40K		Hail (1.75)
Wharton County									
Danevang	02	1755CST			0	0	40K		Hail (1.75)
Polk County									
Corrigan	02	1800CST			0	0	15K		Hail (1.00)
Matagorda									
Bay City	02	1835CST			0	0	10K		Hail (0.88)
Matagorda									
Sargent	02	1905CST			0	0	10K		Hail (0.88)
Fort Bend County									
5 S Clodine	10	0505CST			0	0	15K		Thunderstorm Wind
			Trees down in Cinco Ranch area.						
Harris County									
Katy	10	0505CST			0	0	100K		Thunderstorm Wind
			Power poles down along Clay Rd., roof damage at Taylor H.S., and traffic signals damaged along Mason Rd. and Fry Rd.						
Harris County									
Alief	10	0515CST			0	0	15K		Hail (0.88)
Harris County									
Houston	10	0515CST 0530CST			0	0	500K		Thunderstorm Wind

Bow echo tracked across center of Houston from Katy to downtown Houston to Channelview. Widespread reports of trees and power lines down including in the Memorial Area, along Loop 610 near Airline Dr., and in the La Strada area. Roofs damaged in the Memorial area, at an apartment complex along Westlayan, at Oates Elementary, at the Hyatt Regency Houston, and at the Yorktown Apartments. Windows blown out of several buildings in downtown Houston with computers blown out of the buildings by the wind. Winds estimated at 60-70 mph in most areas.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Harris County									
Channelview	10	0530CST			0	0	100K		Thunderstorm Wind
			School roof damaged and trees down in area.						
Brazoria County									
3 N Alvin	10	0540CST 0545CST			0	1	200K		Thunderstorm Wind
			One mobile home destroyed and several mobile homes damaged at Pine Colony subdivision. Car overturned along CR 296.						
Harris County									
Baytown	10	0540CST 0545CST			0	0	300K		Thunderstorm Wind
			Bow echo tracked across Baytown area. Roof damaged at Sterling H.S., with roof damage at apartments in Cloverleaf area and at parking garage on Texas Ave. Tractor-trailer blown over at I-10 and Thompson Road. Widespread reports of large trees, fences, and portable signs blown down and windows blown out in Baytown area.						
Fort Bend County									
Sugarland	10	0545CST			0	0	15K		Hail (0.88)
Montgomery									
New Caney	10	0545CST			0	0	25K		Thunderstorm Wind
			Trees and power lines down in New Caney.						
Harris County									
Sheldon	10	0550CST			0	0	25K		Thunderstorm Wind
			Power lines blown down at intersection of Beltway 8 and US 90.						
Harris County									
Deer Park	10	0600CST			0	0	50K		Thunderstorm Wind
			Trees blown onto house and power poles down.						
Liberty County									
Cleveland	10	0600CST			0	0	15K		Thunderstorm Wind
			Several large trees down south of FM 2025 near US 59.						
Brazoria County									
Iowa Colony	10	0605CST			0	0	50K		Thunderstorm Wind
			High winds damaged water well system in Iowa Colony						
Galveston County									
Dickinson	10	0605CST			0	0	15K		Thunderstorm Wind (G52)
			Large tree blown down and wind gust to 60 mph.						
Harris County									
La Porte	10	0610CST			0	0	10K		Hail (0.88)
Harris County									
La Porte	10	0610CST			0	0	10K		Thunderstorm Wind (G52)
			Wind gust of 60 mph at Baytown-La Porte bridge.						
Harris County									
Deer Park	10	0615CST			0	0	25K		Thunderstorm Wind
			Signs blown down near Ship Channel.						
Liberty County									
Liberty	10	0615CST			0	0	40K		Thunderstorm Wind
			Home damaged and numerous trees and power lines down.						
Galveston County									
Galveston	10	0630CST			0	0	50K		Thunderstorm Wind
			Portion of convenience store on Broadway destroyed. Fence blown down at Gulf Health Care Center						
Fort Bend County									
Guy	10	1700CST			0	0	15K		Hail (1.00)
			Quarter-sized hail along FM 1994.						
Fort Bend County									
Guy	10	1700CST			0	0	15K		Thunderstorm Wind
			Trees down.						
Galveston County									
Santa Fe	10	1835CST			0	0	50K		Thunderstorm Wind
			49 railroad cars blown off tracks by high winds.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Galveston County									
Galveston	10	2000CST 2010CST			0	0	150K		Thunderstorm Wind
Numerous power poles, street signs and traffic signs blown down between 61st and 71st Streets near Harborside Drive. Roof of home torn off and 2-ton boat blown into car along Channelview Drive. Numerous reports of trees and power lines down across island.									
Burleson County									
Cooks Pt	11	2205CST			0	0	60K		Hail (1.75)
Damage to windows in home due to hail.									
Harris County									
Houston	12	0106CST			0	0	15K		Thunderstorm Wind
Trees down in 500 block of Gulf Bank.									
San Jacinto									
Coldspring	12	0530CST			0	0	10K		Hail (0.75)
San Jacinto									
Shepherd	12	0535CST			0	0	10K		Hail (0.75)
San Jacinto									
Shepherd	12	0535CST			0	0	15K		Thunderstorm Wind
Tree down.									
Austin County									
Bellville	12	0622CST			0	0	10K		Hail (0.75)
Dime-sized hail in Piney Creek.									
Waller County									
Hempstead	12	0702CST			0	0	40K		Hail (1.75)
Montgomery									
Montgomery	12	0730CST			0	0	15K		Thunderstorm Wind
Tree down on Old Dobbin Rd.									
Harris County									
Pasadena	12	0925CST			0	0	25K		Thunderstorm Wind
Metal roof torn off at Crown Petroleum.									
Galveston County									
League City	12	1035CST			0	0	15K		Thunderstorm Wind
Power pole down.									
Houston County									
Grapeland	17	1910CST			0	0	15K		Thunderstorm Wind
Trees down.									
Trinity County									
Groveton to Apple Spgs	17	2000CST			0	0	15K		Thunderstorm Wind
Trees down along Hwy 94E and FM 357.									
Walker County									
Huntsville	17	2005CST			0	0	15K		Thunderstorm Wind
Trees down along Ave J.									
San Jacinto									
Coldspring	17	2024CST			0	0	15K		Thunderstorm Wind (G52)
Trees down along CR 1127.									
Polk County									
2 W Livingston	17	2035CST			0	0	25K		Thunderstorm Wind
Car swept off road near Livingston.									
Polk County									
4 W Livingston	17	2040CST			0	0	60K		Thunderstorm Wind
Porch torn off house near FM 3126 and FM 350 south. Trees down along Hwys. 62, 352, and 3126 west of Livingston.									
Burleson County									
Deanville	17	2050CST			0	0	15K		Thunderstorm Wind
Trees down.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Montgomery									
Conroe	17	2100CST			0	0	15K		Thunderstorm Wind
		Trees down on Loop 336.							
Montgomery									
Granger	17	2105CST			0	0	25K		Thunderstorm Wind
		Power lines down near FM 1314.							
Liberty County									
Liberty	17	2120CST			0	0	15K		Thunderstorm Wind
		Numerous reports of trees down across northern portion of county.							
Chambers County									
Hankamer	17	2200CST			0	0	15K		Thunderstorm Wind
		Tree down on Hwy. 61.							
Galveston County									
Galveston	17	2245CST			0	0	25K		Thunderstorm Wind
		Awning torn off building along 81st St. near Scholes Field.							
Galveston County									
San Leon	26	1200CST			0	0	75K		Waterspout
		Boat destroyed by waterspout at Eagle Point.							
Trinity County									
5 NE Apple Spgs	27	1532CST			0	0	25K		Hail (1.75)
		Golfball-sized hail along Hwy. 94 in northeast portion of county.							
Trinity County									
5 NE Apple Spgs	27	1532CST			0	0	15K		Thunderstorm Wind
		Trees down along Hwy. 94 in northeast portion of county.							
Montgomery									
Conroe	27	1629CST			0	0	40K		Hail (1.75)
		Golfball-sized hail reported in Waldwood subdivision.							
Harris County									
Aldine	27	1712CST			0	0	10K		Hail (0.75)
Harris County									
Houston	27	1725CST			0	0	10K		Hail (0.75)
		Dime-sized hail reported at intersection of Beltway 8 & TX 249.							
Harris County									
Addicks	27	1755CST			0	0	10K		Hail (0.75)
Montgomery									
Shenandoah	27	1845CST			0	0	40K		Hail (1.75)
Montgomery									
Shenandoah	27	1854CST			0	0	40K		Hail (1.75)
Harris County									
Houston	27	1904CST			0	0	10K		Hail (0.75)
		Dime-sized hail reported at intersection of Beltway 8 and Westheimer.							
Harris County									
Alief	27	1910CST			0	0	30K		Hail (1.00)
		Quarter-sized hail reported at intersection of Fondren and Richmond.							
Harris County									
Lake Houston	27	2005CST			0	0	75K		Hail (1.75)
		Golfball-sized hail reported on FM 1960 bridge over Lake Houston.							
Jackson County									
Cordele	28	1741CST			0	0	25K		Thunderstorm Wind (G52)
Harris County									
Houston	30	1420CST			0	0	10K		Hail (0.75)
		Dime-sized hail reported at intersection of Beltway 8 & I-10.							
Harris County									
Bellaire	30	1435CST			0	0	30K		Hail (1.00)
		Quarter-sized hail reported at intersection of Bellaire and Westlayan.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Harris County									
Houston	30	1439CST			0	0	10K		Hail (0.75)
			Dime-sized hail reported at intersection of Chimney Rock and US 59.						
Fort Bend County									
Arcola	30	1455CST			0	0	80K		Hail (2.75)
			Baseball-sized hail at intersection of FM 521 and Hwy. 6.						
Fort Bend County									
Arcola	30	1501CST			0	0	40K		Hail (1.75)
Fort Bend County									
2 E Arcola	30	1513CST			0	0	80K		Hail (2.75)
			Baseball-sized hail along Hwy. 6 just west of Brazoria county line.						
San Jacinto									
Pointblank	30	1515CST			0	0	10K		Hail (0.75)
Harris County									
Bellaire	30	1550CST			0	0	30K		Hail (1.00)
			Quarter-sized hail in Meyerland area.						
Harris County									
Houston	30	1552CST			0	0	10K		Hail (0.75)
			Dime-sized hail reported at intersection of Westheimer and Beltway 8.						
Brazoria County									
Pearland	30	1615CST			0	0	15K		Hail (0.88)
Fort Bend County									
5 W Clodine	30	1615CST			0	0	10K		Hail (0.75)
			Dime-sized hail reported at intersection of FM 1093 and Grand Parkway.						
Fort Bend County									
Fairchild	30	1730CST 1733CST	1	100	0	0	100K		Tornado (F1)
			Tornado along FM 361 near Fairchild about 2 miles west of intersection of FM 1994 and FM 1852. Power lines and power poles downed, barn damaged and trees uprooted.						
Fort Bend County									
8 N Guy	30	1752CST			0	0	10K		Hail (0.75)
Fort Bend County									
Countywide	30	1754CST 1845CST			0	0	50K		Flash Flood
			Waist-deep water reported in Mayfield.						
Austin County									
8 W Sealy	30	1804CST			0	0	30K		Hail (2.00)
Colorado County									
5 NE Columbus	30	1912CST			0	0	40K		Hail (1.75)
			Golfball-sized hail in Shaws Bend.						
Colorado County									
Glidden	30	1924CST			0	0	40K		Hail (1.75)
			Golfball-sized hail in Glidden						
Colorado County									
Sheridan to Columbus	30	1945CST			0	0	100K		Hail (2.75)
			Numerous reports of baseball-sized hail between Sheridan and Columbus.						
Colorado County									
Columbus	30	2015CST			0	0	50K		Thunderstorm Wind
			Barn destroyed along I-10 near Columbus						

TEXAS, Extreme West

Hudspeth County

6 E Dell City 22 1800MST
1805MST 0 0 Thunderstorm Wind (G52)

Thunderstorm wind gusts around 60 mph blew a tarp off a roof and bent metal retaining poles.

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Extreme West									
Hudspeth County									
Dell City	28	1725MST 1730MST			0	0			Thunderstorm Wind (G65)
TEXAS, Mid - South									
Duval County									
Freer	10	1930CST			0	0			Tstm Wind/Hail
Sheriff report of dime sized hail along with damaging thunderstorm wind which downed power poles.									
Duval County									
12 SE Benavides	10	2010CST			0	0			Hail (1.00)
La Salle County									
Cotulla	12	0145CST			0	0			Hail (0.75)
Mcmullen County									
14 S Tilden	12	0215CST			0	0			Thunderstorm Wind (G50)
Duval County									
Freer	12	0325CST			0	0			Thunderstorm Wind (G50)
Bee County									
Beeville	12	0400CST			0	0			Thunderstorm Wind (G50)
Refugio County									
Refugio	12	0440CST			0	0			Hail (0.75)
Refugio County									
Refugio	12	0445CST			0	0			Thunderstorm Wind (G50)
San Patricio									
Portland	12	0500CST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm wind blew off two roofs near County Road 83.									
Nueces County									
Corpus Christi	12	0510CST			0	0			Thunderstorm Wind (G50)
Kleberg County									
Kingsville	12	0515CST			0	0			Thunderstorm Wind (G50)
Nueces County									
Corpus Christi	12	0520CST			0	0			Thunderstorm Wind (G50)
Aransas County									
Lamar	12	0536CST			0	0			Thunderstorm Wind (G50)
Strong thunderstorm wind blew billboard sign on to car.									
Victoria County									
Victoria	17	2355CST			0	0			Hail (0.75)
Victoria County									
10 SW Victoria	18	0020CST			0	0			Thunderstorm Wind (G60)
Strong thunderstorm wind gust downed a 65 foot HAM radio tower.									
Goliad County									
15 N Goliad	18	0025CST			0	0			Thunderstorm Wind (G50)
Bee County									
Normanna	18	0030CST			0	0			Hail (0.75)
La Salle County									
Cotulla	18	0050CST			0	0			Thunderstorm Wind (G50)
Thunderstorm wind gust downed numerous large trees and destroyed a roof.									
Refugio County									
Refugio	18	0100CST			0	0			Thunderstorm Wind (G50)
Refugio County									
10 N Refugio	18	0140CST			0	0			Thunderstorm Wind (G60)
Aransas County									
Rockport	18	0150CST			0	0			Thunderstorm Wind (G65)
Aransas County									
Rockport	18	0200CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1999

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, Mid - South</u>									
Nueces County									
Corpus Christi	18	0200CST			0	0			Thunderstorm Wind (G55)
Nueces County									
5 NW Corpus Christi	18	0200CST			0	0			Thunderstorm Wind (G60)
			70 mph thunderstorm wind blew a small shed away.						
Webb County									
Laredo	18	0200CST			0	0			Thunderstorm Wind (G50)
Webb County									
Laredo	18	0230CST			0	0			Thunderstorm Wind (G50)
			60 mph thunderstorm wind gust destroyed a storage building.						
Webb County									
Laredo Intl Arpt	26	1850CST			0	0			Thunderstorm Wind (G50)
Webb County									
Laredo	26	1900CST			0	0			Tstm Wind/Hail
			58 mph thunderstorm wind gust, along with dime sized hail reported by NWS spotter.						
Duval County									
Freer	26	1945CST			0	0			Thunderstorm Wind (G60)
			Damaging thunderstorm wind gusts destroyed 2 trailers.						
Duval County									
Benavides	26	2010CST			0	0			Thunderstorm Wind (G60)
			Damaging thunderstorm wind gusts blew the roof off a school.						
Jim Wells County									
Premont	26	2050CST			0	0			Thunderstorm Wind (G50)
<u>TEXAS, North</u>									
Dallas County									
Dallas	02	0730CST			0	0	100K		Lightning
			Lightning started a fire that destroyed a house.						
Dallas County									
Irving	02	0800CST			0	0	150K		Lightning
			Lightning started a fire that destroyed two apartment units.						
Dallas County									
Dallas	02	0820CST			0	0	1.2M		Lightning
			Lightning started a fire that destroyed a home.						
Mclennan County									
Lorena	02	1225CST			0	0			Hail (0.75)
Leon County									
Marquez	02	1458CST			0	0			Hail (0.75)
Montague County									
Nocona	04	1045CST			0	0			Hail (0.75)
Montague County									
Nocona	04	1045CST			0	0	2K		Thunderstorm Wind
			Trees and power lines were blown down and an awning was blown off a storefront by thunderstorm winds.						
Montague County									
Montague	04	1048CST			0	0			Thunderstorm Wind (G52)
			Trees were blown down by thunderstorm winds.						
Parker County									
Anneta	04	1130CST			0	0			Hail (1.00)
Wise County									
Slidell	04	1131CST			0	0			Hail (1.00)
Tarrant County									
Benbrook Lake	04	1140CST			0	0			Hail (1.00)
Parker County									
Aledo	04	1145CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Denton County									
1 W Sanger	04	1158CST			0	0	0.50K		Thunderstorm Wind
			Shingles were blown off a roof by thunderstorm winds.						
Hood County									
Cresson	04	1158CST			0	0			Hail (1.00)
Tarrant County									
Ft Worth	04	1158CST			0	0			Hail (1.00)
Collin County									
Weston	04	1210CST			0	0			Hail (1.00)
Wise County									
Slidell	04	1210CST			0	0	25K		Thunderstorm Wind
			The wall of a school was blown down by thunderstorm winds.						
Tarrant County									
Ft Worth	04	1221CST			0	0			Thunderstorm Wind (G52)
			A car was blown off the road by thunderstorm winds.						
Tarrant County									
Ft Worth	04	1224CST			0	0			Hail (1.00)
Denton County									
Justin	04	1230CST			0	0	0.40K		Thunderstorm Wind
			Power lines were blown down by thunderstorm winds.						
Tarrant County									
Arlington	04	1235CST			0	0			Hail (0.75)
			The hail fell near Lake Arlington.						
Tarrant County									
Mansfield	04	1245CST			0	0			Hail (2.75)
Tarrant County									
3 S Crowley	04	1256CST			0	0			Hail (1.00)
Tarrant County									
Arlington	04	1305CST			0	0			Hail (2.00)
Dallas County									
1 W Cedar Hill	04	1311CST			0	0			Hail (3.00)
			Hail fell near Joe Pool Lake.						
Tarrant County									
5 E Mansfield	04	1311CST			0	0			Hail (3.00)
			Hail fell near Joe Pool Lake.						
Fannin County									
Bonham	04	1320CST			0	0			Hail (0.88)
Fannin County									
Randolph	04	1330CST			0	0			Hail (0.88)
Dallas County									
Grand Prairie	04	1336CST			0	0			Hail (1.25)
Dallas County									
De Soto	04	1338CST			0	0			Hail (0.75)
Dallas County									
Dallas	04	1346CST			0	0			Hail (1.00)
			Hail fell in Southwest Dallas.						
Lamar County									
1 E Blossom	04	1401CST			0	0			Hail (0.75)
Dallas County									
Dallas	04	1405CST			0	0			Hail (0.88)
			Hail fell at the intersection of I-20 and I-45.						
Lamar County									
Paris	04	1427CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Kaufman County									
10 NE Terrell	04	1430CST			0	0			Hail (1.75)
Hunt County									
1 S Quinlan	04	1435CST			0	0			Hail (1.00)
Hunt County									
Quinlan	04	1445CST			0	0			Hail (0.75)
Rains County									
Ginger	04	1450CST			0	0			Hail (0.75)
Van Zandt County									
4 NW Edgewood	04	1450CST			0	0			Hail (0.75)
Hopkins County									
5 S Como	04	1505CST			0	0			Hail (0.75)
Van Zandt County									
1 S Wills Pt	04	1505CST			0	0			Thunderstorm Wind (G61)
Kaufman County									
Kemp	04	1555CST			0	0			Hail (0.75)
Van Zandt County									
Grand Saline	04	1600CST	0.2	15	0	0			Tornado (F0)
A tornado briefly touched down in Grand Saline. No damage was reported.									
Rains County									
1 S Emory	04	1605CST			0	0	0.30K		Thunderstorm Wind
Trees were uprooted by high thunderstorm winds.									
Ellis County									
1 E Ennis	04	1615CST			0	0			Hail (0.75)
Henderson County									
7 NW Tool	04	1615CST			0	0	2K		Thunderstorm Wind
Thunderstorm winds blew the roof off a carport.									
Freestone County									
8 NE Streetman	04	1619CST			0	0			Hail (0.75)
Hail fell 1 mile east of Winkler.									
Henderson County									
6 NW Tool	04	1620CST	0.2	10	0	0			Tornado (F0)
A tornado briefly touched down 4 miles west of Seven Points. No damage was reported.									
Kaufman County									
Kemp	04	1635CST			0	0			Hail (1.25)
Navarro County									
Richland	04	1717CST			0	0			Hail (0.75)
Van Zandt County									
Canton	04	1730CST			0	0			Hail (0.75)
Anderson County									
Tennessee Colony	04	1738CST	1	150	0	4	300K		Tornado (F1)
Four houses were destroyed and three houses were damaged by a tornado. The tornado also damaged the prison barracks and caused 4 minor injuries.									
Anderson County									
3 N Palestine	04	1814CST	0.2	10	0	0			Tornado (F0)
A tornado briefly touched down north of Palestine. No damage was reported.									
Comanche County									
Newburg	09	2315CST			0	0	25K		Thunderstorm Wind
A mobile home was blown over by high thunderstorm winds.									
Collin County									
Celina	09	2340CST			0	0	0.40K		Thunderstorm Wind
Large trees were blown down by thunderstorm winds.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Mc Kinney	09	2340CST			0	0	0.10K		Thunderstorm Wind
			Thunderstorm winds damaged some fences.						
Collin County									
Plano	09	2345CST			0	0	0.10K		Thunderstorm Wind
			Fences were damaged by thunderstorm winds.						
Denton County									
Sanger	09	2345CST			0	0	0.10K		Thunderstorm Wind
			Large tree limbs were blown down by thunderstorm winds.						
Montague County									
Nocona	10	0000CST			0	0	0.10K		Thunderstorm Wind (G75)
			A large tree was blown down by thunderstorm winds.						
Hood County									
Tolar	10	0015CST			0	0	0.10K		Thunderstorm Wind
			Thunderstorm winds blew down large tree limbs.						
Montague County									
Nocona	10	0044CST			0	0			Flash Flood
			Heavy rain from thunderstorms caused street flooding in the town of Nacona.						
Denton County									
Denton	10	0100CST			0	0	5K		Thunderstorm Wind
			Fences were blown down on the west side of town.						
Montague County									
Nocona Arpt	10	0234CST			0	0			Flash Flood
			Heavy rain caused flooding at the Grayson County Airport. Water was also reported over a bridge.						
Freestone County									
Teague	10	0330CST			0	0	0.40K		Thunderstorm Wind (G52)
			Trees and power lines were blown down by thunderstorm winds.						
Anderson County									
Palestine	10	0410CST			0	0			Thunderstorm Wind (G52)
			Trees were blown down by thunderstorm winds.						
Mills County									
Goldthwaite	10	0737CST			0	0			Hail (1.00)
Lampasas County									
8 NW Lampasas	10	0845CST			0	0			Hail (1.75)
Bell County									
1 E Holland	10	0935CST			0	0	0.10K		Thunderstorm Wind
			Trees were blown down by thunderstorm winds.						
Mills County									
10 W Goldthwaite	11	1525CST			0	0			Hail (1.00)
Mills County									
Goldthwaite	11	1556CST			0	0			Hail (1.00)
Eastland County									
Gorman	11	1640CST 1650CST			0	0			Hail (1.00)
Erath County									
Thurber	11	1735CST			0	0			Hail (0.88)
Eastland County									
Eastland	11	1754CST			0	0			Hail (1.50)
Eastland County									
Olden	11	1803CST			0	0			Hail (1.75)
Lampasas County									
5 NW Lampasas	11	1810CST			0	0			Thunderstorm Wind (G61)
Eastland County									
Ranger	11	1812CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
TEXAS, North										
Eastland County										
Ranger	11	1812CST			0	0	25K		Thunderstorm Wind	
A house roof was damaged by thunderstorm winds. Airport hangars were also damaged by the wind.										
Coryell County										
5 E Gatesville	11	1840CST			0	0	0.10K		Thunderstorm Wind	
Thunderstorm winds blew down trees.										
Parker County										
Whitt	11	1850CST 1855CST			0	0			Hail (2.00)	
McLennan County										
Bellmead	11	1915CST			0	0			Hail (0.75)	
McLennan County										
Waco	11	1916CST			0	0			Thunderstorm Wind (G52)	
Wise County										
Cottdale	11	1926CST			0	0			Hail (0.75)	
Freestone County										
Streetman	11	1937CST			0	0			Hail (1.75)	
Dallas County										
Grapevine	11	1955CST			0	0			Hail (0.75)	
Freestone County										
Teague	11	2000CST			0	0			Hail (0.75)	
Freestone County										
Wortham	11	2000CST			0	0			Hail (0.75)	
Grayson County										
Sherman	11	2000CST			0	0			Hail (1.75)	
Grayson County										
1 W Gunter	11	2001CST			0	0			Hail (1.00)	
Denton County										
8 SW Lewisville	11	2005CST			0	0			Hail (0.88)	
Hail fell in Flower Mound.										
Erath County										
Stephenville	11	2005CST			0	0			Flash Flood	
Heavy rain from thunderstorms caused water to cover city streets and roads.										
Navarro County										
10 E Corsicana	11	2005CST			0	0			Thunderstorm Wind (G61)	
Dallas County										
Dallas	11	2014CST			0	0	0.60K		Thunderstorm Wind	
Power lines were blown down in East Dallas.										
Grayson County										
Gunter	11	2015CST			0	0	50K		Hail (4.00)	
Ellis County										
Ferris	11	2018CST			0	0			Hail (0.75)	
Henderson County										
Trinidad	11	2020CST			0	0	0.20K		Thunderstorm Wind	
Thunderstorm winds blew down large tree limbs.										
Erath County										
Stephenville	11	2023CST			0	0			Hail (0.88)	
Eastland County										
2 SE Eastland	11	2030CST			0	0			Hail (1.75)	
Delta County										
Klondike	11	2035CST			0	0			Hail (0.75)	
Hopkins County										
Miller Grove	11	2036CST			0	0			Hail (1.75)	

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Anderson County									
3 N Tucker	11	2100CST			0	0	4K		Thunderstorm Wind (G52)
			A barn was destroyed by high thunderstorm winds.						
Milam County									
Rockdale	11	2100CST			0	0	0.20K		Thunderstorm Wind
			Trees were blown down by thunderstorm winds.						
Leon County									
Centerville	11	2120CST			0	0			Thunderstorm Wind (G52)
			Large trees were blown down.						
Leon County									
Oakwood	11	2120CST			0	0			Thunderstorm Wind (G52)
			Power lines were blown down.						
Van Zandt County									
2 NE Wills Pt	11	2120CST			0	0	3K		Thunderstorm Wind
			A shed was destroyed and windows were blown out by high thunderstorm winds.						
Hunt County									
10 W Greenville	11	2134CST			0	0			Hail (1.75)
Anderson County									
Tennessee Colony	11	2135CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds destroyed a barn and shingles were blown off houses.						
Kaufman County									
1 S Elmo	11	2135CST			0	0			Hail (0.75)
Fannin County									
Leonard	11	2145CST			0	0			Hail (0.75)
Fannin County									
Leonard	11	2145CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm winds blew down power lines.						
Hopkins County									
Sulphur Spgs	11	2210CST			0	0	0.30K		Thunderstorm Wind
			Trees and power lines were blown down by thunderstorm winds.						
Parker County									
Aledo	17	1019CST			0	0			Hail (0.88)
Tarrant County									
White Settlement	17	1030CST			0	0			Hail (1.00)
Tarrant County									
Benbrook	17	1040CST			0	0			Hail (1.00)
Tarrant County									
Westover Hills	17	1044CST			0	0			Hail (0.88)
Tarrant County									
Ft Worth	17	1048CST			0	0			Hail (0.75)
Tarrant County									
Ft Worth	17	1102CST			0	0			Hail (1.75)
Tarrant County									
North Richland Hills	17	1108CST			0	0			Hail (1.00)
Tarrant County									
Haltom City	17	1111CST			0	0			Hail (1.75)
Grayson County									
Sherman	17	1119CST			0	0			Hail (0.88)
Denton County									
Argyle	17	1120CST			0	0			Hail (0.75)
Dallas County									
Irving	17	1135CST			0	0			Hail (0.75)
Tarrant County									
Eules	17	1139CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Bosque County									
Cranfills Gap	17	1153CST			0	0			Hail (0.75)
Bosque County									
Clifton	17	1247CST			0	0			Hail (0.88)
Hunt County									
Commerce	17	1315CST			0	0			Hail (0.75)
Hopkins County									
Sulphur Spgs	17	1325CST			0	0			Hail (0.75)
Rains County									
Emory	17	1338CST			0	0			Hail (1.75)
Palo Pinto County									
Palo Pinto	17	1342CST			0	0			Hail (0.75)
Hopkins County									
Sulphur Spgs	17	1355CST			0	0			Hail (0.75)
Palo Pinto County									
2 N Mineral Wells	17	1357CST			0	0			Hail (1.75)
Kaufman County									
Forney	17	1402CST			0	0			Thunderstorm Wind (G52)
									A high profile vehicle was blown off the road by thunderstorm winds.
Wise County									
Bridgeport	17	1411CST			0	0			Hail (1.75)
Rockwall County									
Rockwall	17	1430CST			0	0			Hail (1.00)
Eastland County									
Ranger	17	1437CST			0	0			Hail (0.75)
Parker County									
Weatherford	17	1440CST			0	0			Hail (1.00)
Hunt County									
Celeste	17	1442CST			0	0			Hail (0.75)
Hopkins County									
Sulphur Spgs	17	1500CST 1600CST			0	0			Flash Flood
									Twenty seven streets were closed due to flooding and thirty cars were stalled by the high water from thunderstorms.
Parker County									
Millsap	17	1506CST			0	0			Hail (0.75)
Hunt County									
Countywide	17	1507CST			0	0			Flash Flood
									Very heavy rains from thunderstorms flooded numerous roads across the county.
Erath County									
Huckabay	17	1521CST			0	0			Hail (0.75)
Parker County									
2 W Weatherford	17	1525CST			0	0			Hail (1.00)
Tarrant County									
Mansfield	17	1532CST			0	0			Hail (0.75)
Collin County									
Lavon	17	1533CST			0	0			Flash Flood
									Heavy rain from thunderstorms caused the intersection of Farm Market 2755 and State Highway 78 to be closed due to high water.
Fannin County									
Leonard	17	1540CST			0	0			Hail (1.00)
Comanche County									
De Leon	17	1543CST			0	0			Hail (1.00)
Hopkins County									
Sulphur Spgs	17	1545CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Dallas	17	1550CST			0	0			Hail (0.75)
Erath County									
Dublin	17	1550CST			0	0			Hail (0.75)
Hopkins County									
8 E Sulphur Spgs	17	1555CST			0	0			Thunderstorm Wind (G73)
Comanche County									
De Leon	17	1600CST			0	0			Hail (1.00)
Johnson County									
Joshua	17	1602CST			0	0			Hail (1.00)
Dallas County									
Grand Prairie	17	1613CST			0	1	10K		Flash Flood
									Heavy rain from thunderstorms caused a 50 foot by 150 foot roof section of the Poly America Building to collapse. One person was injured.
Rockwall County									
Countywide	17	1615CST 1735CST			0	0			Flash Flood
									Slow moving thunderstorms, with very heavy rain, caused major flooding on county roads. Some homes in Rockwall had two feet of water inside.
Tarrant County									
Ft Worth	17	1615CST			0	0			Flash Flood
									The intersection of Camp Bowie and Horne was flooded by thunderstorm rains.
Wise County									
Decatur	17	1615CST			0	0			Flash Flood
									Heavy rain from thunderstorms flooded several streets in town.
Bosque County									
Iredell	17	1619CST			0	0			Hail (0.75)
Dallas County									
De Soto	17	1620CST			0	0	2K		Thunderstorm Wind
									A roof was damaged at Barracuda Technologies.
Dallas County									
Wilmer	17	1635CST			0	0			Flash Flood
									Major flooding was reported across city streets. The flooding was from heavy thunderstorm rain.
Dallas County									
Wilmer	17	1635CST			0	0			Hail (1.00)
Ellis County									
Ovilla	17	1640CST			0	0			Thunderstorm Wind (G69)
Ellis County									
Red Oak	17	1640CST			0	0	100K		Thunderstorm Wind
									Widespread wind damaged was caused by thunderstorms.
Rockwall County									
Heath	17	1640CST			0	0			Hail (1.00)
Hunt County									
Quinlan	17	1650CST			0	0			Flash Flood
									Thunderstorms caused major flooding in the city.
Van Zandt County									
Wills Pt	17	1655CST			0	0			Hail (1.00)
Comanche County									
Comanche	17	1700CST			0	0			Hail (0.75)
Dallas County									
Rowlett	17	1700CST			0	0			Flash Flood
									Heavy rain from thunderstorms caused widespread flooding in several housing subdivisions.
Hunt County									
Union Vly	17	1700CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Kaufman County									
Peeltown	17	1700CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm winds blew down trees.						
Kaufman County									
Rosser	17	1700CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm winds blew down trees.						
Kaufman County									
Scurry	17	1700CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm winds blew down trees.						
Kaufman County									
Kemp	17	1714CST			0	0			Hail (1.00)
Henderson County									
8 NW Eustace	17	1715CST			0	0	0.50K		Thunderstorm Wind
			Trees and power lines were blown down, by thunderstorm winds, in Gun Barrel City.						
Kaufman County									
Mabank	17	1715CST			0	0			Hail (0.75)
Van Zandt County									
Grand Saline	17	1715CST			0	0			Hail (0.88)
Van Zandt County									
Grand Saline	17	1715CST			0	0	0.20K		Thunderstorm Wind
			Trees were blown down by thunderstorm winds.						
Navarro County									
Rice	17	1719CST			0	0			Hail (0.75)
Hunt County									
Lone Oak	17	1720CST			0	0			Hail (1.00)
Hunt County									
Lone Oak	17	1720CST			0	0			Thunderstorm Wind (G52)
Bosque County									
Iredell	17	1730CST			0	0			Hail (1.00)
Van Zandt County									
Countywide	17	1730CST			0	0	0.50K		Thunderstorm Wind
			Numerous trees were blown down across the county by thunderstorm winds.						
Kaufman County									
Kaufman	17	1732CST			0	0			Flash Flood
			Several streets were barricaded due to high water from thunderstorm rains.						
Kaufman County									
Terrell	17	1732CST			0	0			Flash Flood
			Water was reported over State Highway 205, northwest of Terrell. The high water came from thunderstorm rains.						
Henderson County									
Brownsboro	17	1735CST			0	0	0.50K		Thunderstorm Wind
			Trees and power lines were blown down by thunderstorm winds.						
Rains County									
2 W Emory	17	1738CST			0	0			Flash Flood
			Flooding was reported six miles east of Lake Tawakoni.						
Henderson County									
Athens	17	1740CST			0	0	0.50K		Thunderstorm Wind
			Trees and power lines were blown down by thunderstorm winds.						
Rains County									
8 E Emory	17	1740CST			0	0	0.30K		Thunderstorm Wind
			Trees were blown down by thunderstorm winds along Lake Fork.						
Navarro County									
Rice	17	1744CST			0	0	0.40K		Thunderstorm Wind
			Power lines were blown down by thunderstorm winds.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Ellis County									
Countywide	17	1745CST			0	0			Flash Flood
	Thunderstorms produced very heavy rains and flooded Interstate 35. Interstate 35 and State Highway 395 were barricaded due to the high water.								
Rains County									
Countywide	17	1750CST			0	0			Flash Flood
	Water was reported over Farm Market 3274 and Farm Market 2795. The water came from heavy thunderstorm rains.								
Hill County									
Hillsboro	17	1800CST			0	0			Flash Flood
	Street flooding was reported from thunderstorm rains.								
Henderson County									
Trinidad	17	1802CST			0	0	0.20K		Thunderstorm Wind
	Thunderstorm winds blew down some trees.								
Mclennan County									
Axtell	17	1802CST			0	0			Hail (0.75)
Bosque County									
Valley Mills	17	1803CST			0	0			Hail (0.75)
Limestone County									
Mexia	17	1810CST			0	0			Hail (0.75)
Limestone County									
Mexia	17	1810CST			0	0	0.30K		Thunderstorm Wind
	Thunderstorm winds blew down trees.								
Freestone County									
Fairfield	17	1815CST			0	0	0.20K		Thunderstorm Wind
	Trees were blown down on Highway 19 , between Fairfield and Kirvin.								
Hopkins County									
Sulphur Spgs	17	1820CST			0	0	2K		Thunderstorm Wind (G52)
	The rood of an office was blown off by high thunderstorm winds.								
Coryell County									
Turnersville	17	1825CST			0	0			Hail (1.00)
Mclennan County									
Lacy Lakeview	17	1825CST			0	0			Hail (0.75)
Anderson County									
Neches	17	1830CST			0	0			Thunderstorm Wind (G52)
	Trees were blown down.								
Freestone County									
Teague	17	1835CST			0	0	0.20K		Thunderstorm Wind
	Trees were blown down by thunderstorm winds.								
Milam County									
San Gabriel	17	1854CST			0	0	1K		Thunderstorm Wind (G62)
	The roof of a mobile home was damaged by thunderstorm winds.								
Bell County									
Temple	17	1856CST			0	0			Hail (1.75)
Bell County									
Killeen	17	1920CST			0	0			Hail (1.75)
Coryell County									
Ft Hood Aaf	17	1920CST			0	0			Hail (1.75)
Bell County									
Temple	17	1940CST			0	0			Hail (0.75)
Leon County									
Buffalo	17	1945CST			0	0	0.20K		Thunderstorm Wind
	Thunderstorm winds blew down trees.								
Leon County									
Jewett	17	1950CST			0	0	0.20K		Thunderstorm Wind
	Thunderstorm winds blew down trees and power lines.								

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Leon County									
Oakwood	17	1950CST			0	0	0.20K		Thunderstorm Wind
			Trees were blown down on Highway 79.						
Milam County									
Davilla	17	2005CST			0	0	0.20K		Thunderstorm Wind
			Trees were blown down by thunderstorm winds.						
Henderson County									
Malakoff	25	1655CST			0	0			Hail (1.75)
Tarrant County									
Haltom City	25	1655CST			0	0			Hail (0.88)
Dallas County									
Sachse	25	1804CST			0	0			Hail (1.00)
Collin County									
Wylie	25	1818CST			0	0			Hail (1.00)
Van Zandt County									
Wills Pt	25	1905CST			0	0			Hail (0.75)
Stephens County									
Gunsight	25	1933CST			0	0	0.40K		Thunderstorm Wind
			Power lines were blown down by thunderstorm winds.						
Rains County									
Emory	25	1937CST			0	0			Hail (0.75)
Palo Pinto County									
Strawn	25	2000CST			0	0			Hail (1.75)
Palo Pinto County									
Strawn	25	2008CST			0	0			Hail (2.75)
Dallas County									
Dallas	25	2100CST			0	0			Hail (1.25)
Henderson County									
Murchison	25	2110CST			0	0			Hail (0.88)
Van Zandt County									
Jackson	25	2130CST			0	0			Flash Flood
			County Road 1651 was flooded by thunderstorm rains.						
Rockwall County									
Rockwall	25	2140CST			0	0			Hail (0.75)
Young County									
Newcastle	26	0245CST			0	0			Hail (0.75)
Young County									
Newcastle	26	0245CST			0	0			Thunderstorm Wind (G52)
			Large tree limbs were blown down.						
Young County									
South Bend	26	0254CST			0	0			Hail (0.75)
Parker County									
Aledo	26	0400CST			0	0	0.10K		Thunderstorm Wind
			A large tree was blown down onto Farm Market 1187.						
Tarrant County									
Ft Worth	26	0430CST			0	0	0.20K		Thunderstorm Wind
			Thunderstorm winds blew down large tree limbs at Altamesa and Westcreek.						
Denton County									
8 W Lewisville	26	0500CST			0	0	10K		Lightning
			Lightning started a fire that did 10,000 dollars worth of damage to a home under construction in Flower Mound.						
Tarrant County									
Arlington	26	0505CST			0	0	5K		Lightning
			Lightning started a fire at an apartment complex. Damage was estimated at around 5,000 dollars.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Dallas County									
Dallas	26	0538CST			0	0			Flash Flood
			Heavy thunderstorm rains caused widespread street flooding.						
Kaufman County									
Elmo	26	0903CST			0	0			Flash Flood
			Thunderstorms caused water to cover the road at Interstate 20 and College Mound.						
Dallas County									
Dallas	26	1130CST			0	0			Flash Flood
			Street flooding was caused by thunderstorm rains.						
Henderson County									
Brownsboro	26	2005CST			0	0			Flash Flood
			A low water crossing around Lake Palestine was under water and County Road 3163 was also under water from thunderstorm rains.						
Palo Pinto County									
Strawn	26	2015CST			0	0			Hail (2.75)
Young County									
Newcastle	27	0905CST			0	0			Hail (0.75)
Young County									
Newcastle	27	0905CST			0	0	0.10K		Thunderstorm Wind
			Large tree limbs were blown down by thunderstorm winds.						
Parker County									
3 SW Springtown	27	1825CST			0	0			Hail (0.88)
Hood County									
Granbury	27	1830CST 1855CST			0	0	5M		Hail (4.50)
			Numerous windows and car windshields were shattered.						
Parker County									
5 W Weatherford	27	1902CST			0	0			Hail (0.88)
Hill County									
Blum	27	2015CST			0	0			Hail (0.88)
Johnson County									
Burleson	27	2030CST			0	0			Hail (2.00)
			Hail covered the ground just south of town.						
Hill County									
3 N Whitney	27	2034CST			0	0			Hail (0.75)
Bosque County									
Meridian	27	2125CST			0	0			Hail (1.00)
Hamilton County									
3 W Hamilton	27	2311CST			0	0			Hail (1.00)
Tarrant County									
Grapevine	28	1445CST			0	0			Hail (0.88)
Tarrant County									
Grapevine	28	1447CST			0	0			Hail (1.00)
			Hail was reported just west of D/FW Airport.						
Tarrant County									
Ft Worth	29	2229CST			0	0			Flash Flood
			Flash flooding was reported at Campus Drive and Interstate 20. Flooding was also reported at Texas Christian University (TCU) and along Hulen Street.						
Rockwall County									
7 S Rockwall	30	0930CST			0	0	25K		Flash Flood
			A bridge at State Highway 205 collapsed from the pressure of debris against the structure. Some of the debris collected from heavy rains that also fell the previous day.						
Lamar County									
Pat Mayse Lake	31	0820CST			0	0			Thunderstorm Wind (G52)
			Tents were blown down by thunderstorm winds.						

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North									
Lamar County									
4 NW Paris	31	0850CST			0	0	0.40K		Thunderstorm Wind
					Trees and power lines were blown down onto Farm Market 79.				
Lamar County									
Paris	31	0850CST			0	0	0.60K		Thunderstorm Wind
					Thunderstorm winds blew down trees and power lines.				
Lamar County									
Paris Cox Fld	31	0855CST			0	0			Thunderstorm Wind (G51)
Lamar County									
1 NW Paris Flyng Tgr Arpt	31	0900CST			0	0	0.20K		Thunderstorm Wind
					A tree was blown down 3/4 of a mile west of U.S. 82 on Farm Market 1510.				
Hunt County									
Commerce	31	0945CST			0	0	0.10K		Thunderstorm Wind
					Thunderstorm winds blew down trees.				
Hopkins County									
Martin Spgs	31	2210CST			0	0	0.20K		Thunderstorm Wind
					Trees were blown down by thunderstorm winds.				
Hopkins County									
2 SE Pine Forest	31	2210CST			0	0	0.20K		Thunderstorm Wind
					Thunderstorm winds blew down trees.				
Hopkins County									
Como	31	2215CST			0	0	0.30K		Thunderstorm Wind
					Power lines were blown down by thunderstorm winds.				
TEXAS, North Panhandle									
TXZ018									
Armstrong									
01		0400CST			0	0			Flood
02		0000CST							
					The USGS river gage on the Prairie Town Fork of the Red River thirteen miles northeast of Wayside crested just slightly above the flood stage at ten and sixteen hundredths of a foot at 2300 CST.				
Hartley County									
35 SW Dalhart	01	1710CST			0	0			Hail (1.00)
Hartley County									
35 SW Dalhart	01	1800CST			0	0			Hail (0.88)
Randall County									
Canyon	01	1835CST			0	0			Hail (1.00)
Potter County									
Amarillo	01	1900CST			0	0			Flash Flood
					Water was reported up to car doors at Tenth Street and Nelson Street in northeast Amarillo.				
Randall County									
12 S Amarillo	01	1900CST			0	0			Flash Flood
					The intersection of Western Street and McCormick Road was reported under water with cars stranded in extreme southern Amarillo.				
Randall County									
5 SSW Amarillo	01	1900CST			0	0			Hail (0.75)
Hartley County									
3 S Romero	01	1907CST	0.1	50	0	0			Tornado (F0)
Oldham County									
4 W Adrian	01	1952CST			0	0			Hail (0.88)
					Hail reported to be covering the ground up to two inches deep along Interstate 40.				
Hartley County									
Channing	01	2054CST			0	0			Hail (0.75)
Randall County									
8 E Canyon	01	2136CST			0	0			Flash Flood
					Water reported to be five feet high at first low water crossing in Palo Duro Canyon State Park. A strong low pressure system in the upper atmosphere over the Arizona and New Mexico state line moved into southern Colorado				

Storm Data and Unusual Weather Phenomena

May 1999

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									
during the nighttime hours. A strong and moist upslope flow at the surface combined with this upper low produced thunderstorms with flooding rains, hail, and even an isolated tornado across the western and central sections of the Texas panhandle. The tornado track was reported by a local television station meteorologist. All of the river flooding occurred as this system was lifting out over and away from the panhandles.									
Gray County Pampa	04	1410CST			0	0			Hail (0.75)
Gray County 1 W Pampa	04	1410CST			0	0			Hail (1.00)
Gray County 5 E Pampa	04	1425CST			0	0			Hail (1.75)
Roberts County 5 W Codman	04	1430CST			0	0			Hail (0.75)
Wheeler County 9 NW Wheeler	04	1500CST			0	0			Hail (0.75)
Wheeler County Wheeler	04	1512CST			0	0			Hail (0.75)
Severe thunderstorms with hail developed during the afternoon hours across the eastern Texas panhandle in response to a low pressure system in the upper atmosphere over northeastern New Mexico along with daytime heating and sufficient low level moisture off the caprock.									
Randall County 8 S Canyon	09	1350CST			0	0			Hail (1.75)
Armstrong County Washburn	09	1420CST			0	0			Hail (0.75)
Armstrong County Wayside	09	1430CST			0	0			Hail (0.75)
Carson County Groom	09	1430CST			0	0			Hail (0.75)
Donley County 6 NW Clarendon	09	1530CST			0	0			Hail (0.75)
Lipscomb County 1 N Darrrouzett	09	1530CST			0	0			Hail (0.75)
Lipscomb County 5.5 S Follett	09	1530CST			0	0			Hail (1.00)
Lipscomb County 6.5 SW Lipscomb	09	1555CST			0	0			Hail (0.88)
Lipscomb County Lipscomb	09	1607CST			0	0			Hail (0.88)
Lipscomb County Lipscomb	09	1608CST			0	0			Hail (0.75)
Collingsworth 6 E Samnorwood	09	1627CST			0	0			Thunderstorm Wind (G52)
Lipscomb County Lipscomb	09	1648CST			0	0			Hail (0.88)
A low pressure system in the upper atmosphere over southwestern New Mexico approached west Texas during the afternoon and evening hours. A dryline over the western Texas and Oklahoma panhandles pushed very slowly eastward into the central sections of the panhandles by mid afternoon. The combination of the upper low and the moist, unstable air mass ahead of the dryline helped trigger scattered severe thunderstorms across the central and eastern sections of the Texas panhandle. Mainly large hail and high winds occurred from the severe storms, however no damage was reported.									
Donley County 1 E Hedley	16	1744CST			0	0			Hail (1.00)
Donley County 4 NE Clarendon	16	1748CST			0	0			Hail (1.00)
Collingsworth Wellington	16	1800CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
A dryline over the eastern Texas panhandle and daytime heating triggered severe thunderstorms with large hail across the southeastern Texas panhandle during the early evening hours.									
Gray County 5 W Pampa	20	1546CST			0	0			Hail (2.00)
Gray County Pampa	20	1621CST			0	0			Hail (2.00)
Gray County 1 S Pampa	20	1625CST			0	0			Hail (1.75)
Gray County 15 S Pampa	20	1704CST 1706CST	0.1	25	0	0			Tornado (F0)
Reported at the intersection of Highway 70 and Farm to Market Road 749.									
Gray County 8 W Alanreed	20	1719CST 1720CST	0.1	25	0	0			Tornado (F0)
Gray County 7 W Alanreed	20	1738CST			0	0			Hail (4.00)
Gray County 8 W Alanreed to 8 WSW Alanreed	20	1739CST			0	0			Hail (1.25)
Reported at Interstate 40 and Lake McClellan.									
Gray County 14 W Alanreed to 13 WSW Alanreed	20	1739CST			0	0			Hail (1.75)
Reported at the intersection of Highway 70 and Interstate 40.									
Donley County 20 N Clarendon	20	1744CST			0	0			Hail (1.75)
Donley County 18 N Clarendon to 18 NNW Clarendon	20	1744CST 1748CST	0.5	50	0	0			Tornado (F0)
Gray County 14 W Alanreed to 14 WSW Alanreed	20	1744CST			0	0			Hail (3.00)
Reported at the intersection of Interstate 40 and Highway 70.									
Donley County 19 N Clarendon	20	1745CST			0	0			Hail (4.00)
Reported at Highway 70 and one mile south of Interstate 40.									
Donley County 19 N Clarendon	20	1745CST			0	0			Thunderstorm Wind (G61)
Reported at Highway 70 and one mile south of Interstate 40.									
Lipscomb County 3 W Darrouzett	20	1747CST			0	0			Hail (0.88)
Lipscomb County Lipscomb	20	1803CST			0	0			Hail (1.25)
Roberts County 8 N Miami	20	1842CST			0	0			Hail (0.88)
Donley County Hedley	20	1846CST			0	0			Hail (1.75)
Collingsworth Quail	20	1901CST			0	0			Hail (1.00)
Donley County 7 E Hedley	20	1902CST 1903CST	0.1	25	0	0			Tornado (F0)
Reported near the Donley and Collingsworth county line.									

Storm Data and Unusual Weather Phenomena

May 1999

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									
Collingsworth									
11 W Wellington	20	1912CST			0	0			Hail (4.00)
Collingsworth									
5 SW Wellington	20	1920CST 1929CST			0	0			Hail (1.75)
A cold front moving through the northwest sections of the Texas panhandle with the dry line located across the extreme western Texas panhandle along with plenty of low level moisture combined to produce scattered severe thunderstorms over the eastern third of the Texas panhandle. The storms produced mainly large hail with some isolated tornadoes. All tornado tracks were estimated.									
Potter County									
5 E Amarillo	22	2144CST			0	0			Hail (0.88)
Roberts County									
12 WSW Miami	23	0020CST			0	0			Thunderstorm Wind (G57)
Large tree limbs were reported blown down. A moist upslope flow at the surface behind a cold front and daytime heating triggered severe thunderstorms with hail and high winds across the southern and eastern Texas panhandle during the night.									
Roberts County									
Miami	25	1602CST			0	0			Hail (0.88)
Donley County									
5 S Clarendon	25	1624CST			0	0			Hail (0.75)
Wheeler County									
New Mobeetie	25	1634CST			0	0			Hail (0.75)
Wheeler County									
New Mobeetie	25	1636CST			0	0			Hail (1.00)
Moore County									
Dumas	25	1640CST			0	0			Hail (0.88)
Randall County									
Buffalo Lake	25	1644CST			0	0			Hail (0.75)
Collingsworth									
3 W Samnorwood	25	1645CST			0	0			Hail (0.88)
Randall County									
Buffalo Lake	25	1655CST			0	0			Hail (1.75)
Reported at Highway 60 and Farm to Market Road 168.									
Randall County									
5 W Canyon	25	1658CST	0.3	25	0	0			Tornado (F0)
Randall County									
5 SW Amarillo to 4 SW Amarillo	25	1700CST 1707CST			0	0	1M		Hail (2.75)
Large hail damaged a total of eight hundred and fifty automobiles at Gene Messer Ford in southwest Amarillo and Westgate Chevrolet on the west side of Amarillo causing a total of two and a half million dollars. The rest of the damage was to other people's cars , roof damage, windows of homes and sky lights.									
Hartley County									
Channing	25	1701CST			0	0			Hail (0.88)
Potter County									
6 W Amarillo	25	1702CST			0	0			Hail (1.00)
Randall County									
8 NW Canyon to 8 NNW Canyon	25	1705CST 1708CST	1	25	0	0	10K		Tornado (F0)
The tornado damaged an out building and the track was estimated.									
Potter County									
5 W Amarillo to 4 W Amarillo	25	1707CST 1715CST			0	0	5.7M		Hail (2.75)
Large hail damaged a total of eight hundred and fifty automobiles at Gene Messer Ford in southwest Amarillo and Westgate Chevrolet on the west side of Amarillo causing a total of two and a half million dollars. The rest of the damage was to other people's cars, roof damage, windows of homes and sky lights.									
Randall County									
3 N Canyon	25	1710CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
1 N Canyon	25	1712CST			0	0			Hail (0.75)
Randall County									
2 N Canyon	25	1712CST			0	0			Hail (1.00)
Wheeler County									
Twitty	25	1716CST			0	0			Thunderstorm Wind (G61)
Randall County									
7 SW Amarillo	25	1719CST			0	0			Hail (1.75)
Randall County									
6 SW Amarillo	25	1720CST			0	0			Hail (1.00)
Wheeler County									
Wheeler	25	1723CST			0	0			Hail (1.00)
Oldham County									
Boys Ranch	25	1725CST			0	0			Hail (0.88)
Randall County									
6 SW Amarillo	25	1725CST			0	0	2.5M		Hail (2.75)
Large hail damaged siding and broke windows in homes and also caused roof damage in south and southwest Amarillo.									
Potter County									
6 N Amarillo	25	1727CST			0	0			Hail (1.75)
Potter County									
5 W Amarillo	25	1729CST			0	0			Hail (1.00)
Wheeler County									
Wheeler	25	1730CST			0	0			Hail (0.88)
Potter County									
4 E Bushland	25	1731CST			0	0			Hail (2.75)
Randall County									
6 SW Amarillo	25	1747CST 1800CST			0	0			Flash Flood
Minor street flooding reported.									
Potter County									
4 W Amarillo	25	1750CST 1800CST			0	0			Flash Flood
Minor street flooding reported.									
Potter County									
10 N Amarillo	25	1755CST			0	0			Hail (2.75)
Potter County									
2 N Amarillo	25	1757CST			0	0			Hail (1.00)
Potter County									
3 W Amarillo	25	1805CST 1830CST			0	0			Flash Flood
Minor street flooding from heavy rainfall.									
Potter County									
5 E Amarillo	25	1848CST			0	0			Hail (0.75)
Armstrong County									
Claude	25	1857CST			0	0			Hail (0.75)
Deaf Smith									
Dawn	25	1935CST			0	0			Hail (1.00)
Randall County									
7 NW Canyon	25	1935CST			0	0			Hail (0.75)
Randall County									
8 NW Canyon	25	1939CST			0	0	1.8M		Hail (2.75)
Large hail beat crops, mostly wheat crops, to the ground.									
Randall County									
Umbarger	25	1943CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Randall County									
Umbarger	25	1943CST			0	0			Thunderstorm Wind (G56)
Randall County									
4 SW Canyon	25	1954CST			0	0			Thunderstorm Wind (G65)
Randall County									
4 W Canyon	25	1955CST 1957CST	0.1	25	0	0	40K		Tornado (F0)
									Tornado killed a horse and destroyed a barn. Storm survey was done on this tornado.
Donley County									
Clarendon	25	2005CST			0	0			Hail (0.75)
Oldham County									
Wildorado	25	2015CST			0	0			Hail (1.00)
Randall County									
1 S Canyon	25	2015CST			0	0			Hail (1.00)
Donley County									
4 E Clarendon	25	2020CST 2100CST			0	0			Flash Flood
									Street flooding reported at Farm to Market Road 1260 from heavy rainfall.
Randall County									
14 SE Canyon	25	2145CST 2215CST			0	0			Flash Flood
									Street flooding on Highway 287 from heavy rainfall. A cold front moving slowly south across the southern Texas panhandle and a vigorous low pressure system in the upper atmosphere over the southwestern states helped to trigger a damaging hail outbreak across mainly the southern half of the Texas panhandle. The severe thunderstorms also produced high winds, flooding rainfall, and a few tornadoes along with the damaging large hail.
Oldham County									
2 WSW Adrian	26	1637CST			0	0			Hail (0.88)
Oldham County									
13 WSW Adrian	26	1707CST			0	0			Hail (1.00)
Sherman County									
2 S Lautz	26	1809CST			0	0			Hail (1.00)
									A low pressure system in the upper atmosphere moving east out of New Mexico triggered some severe thunderstorms with hail across the western and northern Texas panhandle during the evening hours.
Collingsworth									
2 SSE Samnorwood	31	1635CST			0	0			Hail (1.00)
Collingsworth									
Dozier	31	1650CST			0	0			Hail (1.75)
Collingsworth									
Samnorwood	31	1650CST			0	0			Hail (2.75)
Wheeler County									
Shamrock	31	1703CST			0	0			Hail (1.00)
Wheeler County									
2.5 S Shamrock	31	1715CST			0	0			Hail (1.75)
									Daytime heating and a very moist airmass helped trigger severe thunderstorms with large hail across the southeastern sections of the Texas panhandle during the early evening hours.
TEXAS, Northeast									
Angelina County									
1 S Diboll	02	1801CST			0	0			Hail (1.00)
Angelina County									
1 S Diboll	02	1801CST			0	0			Thunderstorm Wind (G60)
									Numerous trees and powerlines down.
Harrison County									
Hallsville	02	1928CST 2028CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Northeast									
Red River County									
15.3 N Clarksville to 17.1 NNE Clarksville	04	1145CST 1148CST	1.8	100	0	7	600K		Tornado (F2)
Supercells developed in unstable airmass ahead of strong upper low over central plains states. Numerous trees blown over or broken. Nine mobile homes and 1 frame home destroyed. This tornado moved into McCurtain county, OK.									
Franklin County									
4 E Mt Vernon to 5.9 NE Mt Vernon	04	1304CST 1308CST	2.1	25	0	0			Tornado (F3)
Supercells developed in unstable airmass ahead of strong upper low over central plains states. Damage confined to broken branches off trees and snapped twigs. This tornado moved into Titus county, TX.									
Titus County									
3 NNW Winfield to 16.5 NE Mt Pleasant	04	1308CST 1337CST	19.2	100	1	0	330K		Tornado (F3)
Seven homes were destroyed. Two of the homes were swept from their slabs. F79PH									
Red River County									
12.5 SSW Avery to 8 SSE Avery	04	1337CST 1350CST	7.5	100	0	0	5K		Tornado (F3)
Numerous trees were blown over or broken. A few out buildings were severely damaged. This tornado moved from Titus county, TX into Red River county, TX and exited into Bowie county TX.									
Bowie County									
9 SW De Kalb to 11 NE De Kalb	04	1350CST 1425CST	19.5	200	0	22	125M		Tornado (F3)
This tornado moved directly through the downtown district of De Kalb and across a high school. Numerous homes and businesses were severely damaged or destroyed. The high school suffered severe damage. Sirens sounded 15 minutes prior to arrival of the storm. The damage resulted in a Presidential Disaster Declaration. This tornado moved from Red River county, TX across Bowie county, TX into Little River county, AR.									
Gregg County									
Kilgore	04	1403CST 1406CST	1.8	100	0	0	6M		Tornado (F2)
Numerous homes and businesses damages. This tornado continued into Rusk County, TX then reentered Gregg County, TX.									
Gregg County									
Kilgore to 5.3 SSE Longview	04	1406CST 1421CST	8.9	150	0	2	19M		Tornado (F2)
Major damage to homes and businesses. Stoneridge Apartment complex lost portions of its roof and walls collapsed. The complex was condemned. This tornado is separate from the Gree County to Rusk County to Gregg County tornado event which occurred at the same time.									
Rusk County									
Kilgore	04	1406CST 1407CST	0.3	150	0	0			Tornado (F2)
Open field with no structures.									
Gregg County									
Kilgore	04	1407CST 1408CST	0.1	100	0	0	25K		Tornado (F2)
Minor damage to homes and a school lost a few shingles. This tornado is continued from the Gregg County to Rusk County, TX tornado event.									
Harrison County									
5.3 SE Longview to 5.2 SE Longview	04	1421CST 1423CST	0.8	75	0	0			Tornado (F2)
Wooded region and open field.									
Harrison County									
3.3 WNW Hallsville to 3.3 NNW Hallsville	04	1440CST 1444CST	2.2	25	0	0			Tornado (F0)
Tornado occurred in open farm country.									
Harrison County									
3.7 NNE Hallsville to 7.4 NW Hallsville	04	1450CST 1458CST	4.6	50	0	0			Tornado (F1)
Wooded region and open fields.									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Northeast									
Marion County									
8 NE Jefferson	04	1830CST			0	0			Thunderstorm Wind (G60)
		Trees down along Hwy 49.							
Smith County									
Lindale	04	1840CST			0	0			Hail (0.75)
Cherokee County									
4.2 SE Rusk to 13.3 SE Rusk	04	1852CST 1940CST	9.4	200	0	0			Tornado (F2)
		Numerous trees blown over or snapped.							
Gregg County									
Gladewater	04	1855CST			0	0			Hail (0.75)
Smith County									
Tyler	04	1909CST			0	0			Hail (0.75)
Harrison County									
1 S Marshall	04	1930CST			0	0			Thunderstorm Wind (G70)
Nacogdoches									
18.2 NW Nacogdoches to 5.2 NW Nacogdoches	04	1940CST 2020CST	13.3	200	0	0			Tornado (F2)
		Numerous trees blown over or snapped. No structures in the area. This tornado entered Nacogdoches county from Cherokee County, TX.							
Nacogdoches									
5 SW Nacogdoches	05	1310CST			0	0			Hail (1.75)
Panola County									
Dotson	05	1330CST			0	0			Hail (0.75)
Nacogdoches									
Garrison	05	1340CST			0	0			Hail (1.00)
Panola County									
2 S Carthage	05	1400CST			0	0			Hail (0.75)
Panola County									
8 E Carthage	05	1408CST			0	0			Hail (0.75)
Shelby County									
Joaquin	05	1440CST			0	0			Hail (0.75)
Angelina County									
9 W Lufkin	11	1515CST			0	0			Hail (1.75)
		Reported on CR-49.							
Angelina County									
9 W Lufkin	11	1540CST			0	0			Hail (0.75)
		Reported at the intersection of FM1819 and Hwy 103.							
Wood County									
Yantis	17	1600CST			0	0			Hail (1.00)
Wood County									
Quitman	17	1709CST			0	0			Hail (0.75)
Wood County									
Mineola	17	1730CST			0	0			Thunderstorm Wind (G60)
		Wind measured by trained spotter.							
Smith County									
2 W Tyler	17	1740CST			0	0			Thunderstorm Wind (G60)
Upshur County									
Big Sandy	17	1745CST			0	0			Hail (0.75)
Smith County									
Tyler	17	1745CST			0	0	40K		Thunderstorm Wind (G65)
		Several large trees down including one across a home and another across a suburban on the southwest side of town.							

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Northeast									
Smith County									
Swan	17	1755CST			0	0			Thunderstorm Wind (G62)
		Winds recorded by trained spotter.							
Smith County									
Lindale	17	1755CST			0	0			Hail (1.75)
Smith County									
Lindale	17	1755CST			0	0			Thunderstorm Wind (G60)
Smith County									
Whitehouse	17	1805CST			0	0			Hail (1.00)
Gregg County									
4 N White Oak	17	1805CST			0	0			Thunderstorm Wind (G60)
		Several large trees down.							
Upshur County									
2 S East Mtn	17	1805CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
Rusk County									
1 W Overton	17	1815CST			0	0			Thunderstorm Wind (G65)
		Winds recorded by trained spotter.							
Cherokee County									
Jacksonville	17	1825CST			0	0			Thunderstorm Wind (G70)
		Numerous trees and powerlines down.							
Rusk County									
Henderson	17	1830CST			0	0	30K		Thunderstorm Wind (G70)
		Winds blew the roof off a building in Henderson Square.							
Rusk County									
2 W Henderson	17	1835CST			0	0			Hail (0.75)
Rusk County									
2 N Mt Enterprise	17	1845CST			0	0			Thunderstorm Wind (G75)
		Several large trees down.							
Nacogdoches									
2 N Nacogdoches	17	1905CST			0	0			Thunderstorm Wind (G60)
		Several trees and powerlines down.							
Panola County									
Carthage	17	1906CST			0	0			Thunderstorm Wind (G60)
		Wind gust recorded by trained spotter.							
Shelby County									
2 E Timpson	17	1920CST			0	0			Thunderstorm Wind (G60)
		Trees and powerlines down.							
Angelina County									
Pollok	17	1955CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
Angelina County									
Diboll	17	2010CST			0	0			Hail (0.75)
Sabine County									
Hemphill	17	2040CST			0	0			Thunderstorm Wind (G60)
		Several large trees down in town.							
Angelina County									
Zavalla	25	1600CST			0	0			Hail (1.75)
Angelina County									
Zavalla	25	1600CST			0	0	10K		Thunderstorm Wind (G65)
		Home suffered roof damage.							
Wood County									
Yantis	25	2010CST			0	0			Hail (1.75)
Wood County									
Yantis	25	2012CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Wood County									
2 S Quitman	25	2055CST			0	0			Hail (1.00)
Angelina County									
1 N Lufkin	27	1530CST			0	0			Hail (1.75)
		Reported along Hwy 69.							
Angelina County									
1 N Lufkin	27	1535CST			0	0			Hail (1.00)
Angelina County									
Lufkin	27	1535CST			0	0			Hail (1.00)
Angelina County									
Lufkin	27	1545CST			0	0			Thunderstorm Wind (G61)
		Numerous trees and powerlines down.							
Angelina County									
Huntington	27	1557CST			0	0			Hail (1.75)
Angelina County									
Huntington	27	1557CST			0	0			Thunderstorm Wind (G70)
		Numerous trees and powerlines down. Over 1000 people without power for several hours.							
Angelina County									
2 NE Huntington	27	1620CST			0	0			Thunderstorm Wind (G60)
		Trees and powerlines down across FM 2109.							
Nacogdoches									
Etoile	27	1625CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
San Augustine									
Broaddus	27	1640CST			0	0			Thunderstorm Wind (G61)
		Numerous trees and powerlines down.							
Rusk County									
5 S Concord	27	1650CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
Sabine County									
Pineland	27	1700CST			0	0			Thunderstorm Wind (G65)
		Numerous trees and powerlines down.							
Nacogdoches									
Garrison	27	1700CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
San Augustine									
10 NW San Augustine	27	1700CST			0	0			Thunderstorm Wind (G70)
		Numerous trees down.							
Shelby County									
Center	27	1735CST			0	0			Thunderstorm Wind (G53)
		Several large trees down blocking Hwy 96 and Hwy 7. Wind speed measured by spotter.							
Shelby County									
Center	27	1750CST			0	0			Thunderstorm Wind (G53)
Shelby County									
Hurstown	27	1810CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and powerlines down.							
Sabine County									
8 N Milam	30	1510CST			0	0			Thunderstorm Wind (G60)
		Numerous trees down across Hwy 87.							
Red River County									
Bagwell	31	0920CST			0	0			Thunderstorm Wind (G52)
		Several large trees down.							

Storm Data and Unusual Weather Phenomena

May 1999

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									
Brooks County									
Falfurrias Arpt	10	2048CST			0	0			Hail (0.75)
Kenedy County									
8 W Sarita	10	2100CST			0	0			Hail (1.75)
Kenedy County									
18 SW Sarita	10	2115CST			0	0			Hail (1.00)
Kenedy County									
5 S Norias	10	2132CST			0	0	3K		Thunderstorm Wind
Trees and highway signs blown down.									
Kenedy County									
4 E Norias	10	2155CST 2225CST			0	0			Hail (2.75)
Willacy County									
Port Mansfield	10	2254CST			0	0			Hail (0.88)
Brooks County									
Falfurrias	18	0300CST			0	0	2K		Thunderstorm Wind
Power lines down									
Jim Hogg County									
Hebbronville	18	0300CST			0	0	2K		Thunderstorm Wind
Trees and limbs down.									
Hidalgo County									
8 W San Manuel	18	0400CST			0	0			Hail (1.00)
Kenedy County									
20 E Norias	18	0400CST			0	0			Thunderstorm Wind (G54)
Starr County									
La Gloria	18	0400CST			0	0	2K		Thunderstorm Wind
Tree and roof damage.									
Hidalgo County									
Mc Allen	18	0430CST			0	0	8K		Thunderstorm Wind
Numerous trees down... some on autos.									
Willacy County									
Raymondville	18	0430CST			0	0	2K		Thunderstorm Wind
Trees down.									
Hidalgo County									
6 S Alamo	18	0500CST			0	0	5K		Thunderstorm Wind
Large tree limbs down at Santa Ana NWR.									
Cameron County									
Los Fresnos	18	0515CST			0	0	2K		Thunderstorm Wind
Tree limbs down.									
Jim Hogg County									
10 SW Hebbronville	26	2000CST			0	0	4K		Thunderstorm Wind
Wind damage to residence.									
Brooks County									
12 SW Falfurrias	26	2015CST			0	0	2K		Thunderstorm Wind
Large tree loimbs down.									
Brooks County									
Falfurrias Arpt	26	2048CST			0	0	12K		Thunderstorm Wind
Roofs blown off three hangers.									
Kenedy County									
1 N Norias	26	2110CST			0	0	2K		Thunderstorm Wind
Large tree limbs down.									
Jim Hogg County									
Hebbronville	29	0445CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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 Central									
Lavaca County									
13 SE Yoakum	02	1600CST 1610CST			0	0	0	0	Hail (0.75)
Val Verde County									
15 NW Del Rio	03	1620CST 1630CST			0	0	0	0	Hail (2.00)
Llano County									
Llano	09	2343CST 2355CST			0	0	50K	0	Thunderstorm Wind (G55)
The wind gusts were reported by a school weather network. The Llano County Sheriff's Department reported trees blown down in and around the city of Llano.									
Edwards County									
Countywide	10	0000CST 0100CST			0	0	10K	0	Flash Flood
Rainfall of generally 1 to 2 inches, with isolated totals between 3 and 4 inches produced brief flash flooding across county low areas and low water crossings.									
Burnet County									
Countywide	10	1330CST 1400CST			0	0	10K	0	Flash Flood
Llano County									
Countywide	10	1330CST 1400CST			0	0	10K	0	Flash Flood
Rain totals of generally 1 to 2 inches were reported across the two counties, with maximum amounts near 5 inches along the Burnet-Llano County line. Brief flash flooding was reported over low water crossings.									
Williamson									
Countywide	10	1330CST 1700CST			0	0	15K	0	Flash Flood
Heavy rainfall over soils that had been saturated by previous rains produced an additional general 2 to 3 inches over much of Williamson County, along with isolated totals of up to 5 inches. Widespread flash flooding was reported over low water crossings and in low areas over the county.									
Lee County									
5 SW Lincoln to 3 SW Lincoln	10	1510CST 1515CST			0	0	100K	0	Hail (1.50)
Hail of up to golfball size damaged cars and trucks just west of Lincoln.									
Travis County									
3 NE Jonestown	10	1620CST 1630CST			0	0	0	0	Hail (1.00)
Williamson									
Cedar Park	10	1620CST 1630CST			0	0	0	0	Hail (1.00)
Guadalupe County									
5 E Seguin	10	1805CST 1815CST			0	0	30K	0	Thunderstorm Wind
Amateur Radio Spotters reported that severe thunderstorm winds had blown over trees just east of Seguin.									
Llano County									
Castell	11	1658CST 1710CST			0	0	0	0	Hail (2.50)
Llano County									
Countywide	11	1730CST 1900CST			0	0	10K	0	Flash Flood
Llano County									
Castell	11	1735CST 1745CST			0	0	0	0	Hail (1.50)
General 1 to 2 inch rainfall with isolated totals of up to 4 inches redeveloped flash flooding over much of Llano County. The soils had remained saturated from the previous day's rainfall and flooding.									
Gillespie County									
Harper	11	1900CST 1910CST			0	0	80K	0	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1999

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 Central									
Gillespie County									
Harper to 2 E Harper	11	1910CST 1920CST			0	0	0	0	Hail (2.50)
Gillespie County									
3 E Harper to 5 SE Harper	11	1920CST 1930CST	3.5	200	0	0	1M	100K	Tornado (F3)
The tornado was preceded by strong, gusty winds, very heavy rainfall and finally, large hail. Severe winds in advance of the tornado took a roof off the High School in Harper and laid it on the ground on the opposite side of the building. These winds also damaged several other roofs in the area. The tornado began its track around three miles east of Harper, moving toward the southeast. It lifted post oak trees out of the ground with their roots in tact. Approximately 2 miles down the path, it turned toward the south and continued for another 1.5 miles. Along its track, it destroyed 35 homes, 10 mobile homes, and damaged or destroyed 25 outbuildings and barns. The tornado damaged several vehicles and tossed one jeep over 100 yards.									
Kerr County									
8 W Mountain Home	11	1955CST 2000CST			0	0	0	0	Hail (1.00)
Kerr County									
15 N Kerrville to Kerrville	11	2040CST 2105CST			0	0	0	0	Hail (0.88)
Kerr County									
Countywide	11	2130CST 2230CST			0	0	10K	0	Flash Flood
Rainfall of 1 to 2 inches was reported over the county, with isolated totals up to 4 inches. Low water crossings were flooded just prior to midnight									
Williamson									
East Portion	11	2030CST 2200CST			0	0	10K	0	Flash Flood
Williamson									
Taylor	11	2040CST 2050CST			0	0	15K	0	Thunderstorm Wind
Heavy rainfall of up to 4 inches over the eastern half of Williamson County flooded low water crossings in the late evening. Several roads in the area were closed. Severe thunderstorm winds blew down large trees near Taylor.									
Bandera County									
Vanderpool	11	2220CST 2225CST			0	0	0	0	Hail (1.75)
Uvalde County									
Utopia	11	2230CST 2235CST			0	0	0	0	Hail (0.75)
Val Verde County									
Del Rio	11	2258CST 2310CST			0	0	0	0	Hail (1.75)
Val Verde County									
Laughlin Afb	11	2308CST 2310CST			0	0	0	0	Thunderstorm Wind (G53)
Uvalde County									
8 SW Uvalde	11	2330CST 2340CST			0	0	10K	0	Thunderstorm Wind
Maverick County									
Quemado	12	0040CST 0100CST			0	0	100K	0	Thunderstorm Wind
Frio County									
Pearsall	12	0100CST 0110CST			0	0	50K	0	Thunderstorm Wind
Maverick County									
El Indio	12	0105CST 0110CST			0	0	0	0	Thunderstorm Wind (G54)
Maverick County									
Quemado	12	0110CST 0120CST			0	0	0	0	Hail (2.00)

Storm Data and Unusual Weather Phenomena

May 1999

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 Central									
Maverick County									
Eagle Pass	12	0130CST 0230CST			0	3	10K	0	Flash Flood
Trees were blown down by severe winds at the Fish Hatchery at Uvalde. In the Quemado area, severe winds uprooted trees and damaged trailers. Heavy rain fell shortly afterward in the Eagle Pass area, with rainfall totals of up to 4 inches. This caused low water crossing to flood very quickly. The Eagle Pass Police Department reported 3 motorists were stranded in their vehicles and had to be rescued. In Frio County, the Sheriff's Department reported trees and power lines blown down by severe winds in the Pearsall area.									
De Witt County									
Countywide	12	0430CST 0530CST			0	0	15K	0	Flash Flood
Karnes County									
Countywide	12	0430CST 0530CST			0	0	10K	0	Flash Flood
Rainfall of generally 1 to 2 inches and isolated totals to 4 inches caused widespread flash flooding over much of the two counties.									
Atascosa County									
5 S Poteet	15	0120CST 0130CST			0	0	40K	0	Thunderstorm Wind
The Atascosa County Sheriff's Department reported power lines blown down by high winds just east of Poteet.									
Burnet County									
3 E Granite Mtn	17	1845CST 1855CST			0	0	20K	0	Thunderstorm Wind
Burnet County									
5 S Burnet	17	1940CST 1950CST			0	0	0	0	Hail (0.75)
Travis County									
Bergstrom Afb	17	2127CST 2128CST			0	0	0	0	Thunderstorm Wind (G60)
Travis County									
Del Valle	17	2146CST 2147CST			0	0	0	0	Thunderstorm Wind (G60)
Lee County									
2 E Lincoln to 5 E Lincoln	17	2210CST 2220CST			0	0	10K	0	Thunderstorm Wind
Caldwell County									
Luling	17	2230CST 2235CST			0	0	10K	0	Thunderstorm Wind
Guadalupe County									
Mc Queeney	17	2235CST 2240CST			0	0	10K	0	Thunderstorm Wind
Gonzales County									
Gonzales	17	2240CST 2245CST			0	0	50K	0	Thunderstorm Wind
Gonzales County									
Smiley	17	2305CST 2310CST			0	0	100K	0	Thunderstorm Wind
De Witt County									
Cuero to Thomaston	17	2310CST 2335CST			0	0	150K	0	Thunderstorm Wind
Medina County									
8 W Yancey to 5 W Yancey	17	2310CST 2325CST			0	0	50K	0	Thunderstorm Wind
Bexar County									
San Antonio	17	2325CST 2330CST			0	0	50K	0	Thunderstorm Wind
Karnes County									
Karnes City	17	2330CST 2335CST			0	0	80K	0	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

May 1999

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 Central									
Frio County									
Pearsall	18	0000CST 0010CST			0	0	50K	0	Thunderstorm Wind
Frio County									
3 N Dilley to 4 S Dilley	18	0045CST 0050CST			0	0	100K	0	Thunderstorm Wind
Brief but widespread downbursts of severe winds blew down trees and knocked over power lines across all of the above listed counties. In DeWitt County, severe winds took roofs off homes in the Smiley area as well as between Cuero and Thomaston. Severe winds destroyed a mobile home near Pearsall, rolling it over 100 feet. In the Dilley area, the roof of a school building was damaged.									
Val Verde County									
13 N Comstock	17	2030CST 2040CST			0	0	5K	0	Thunderstorm Wind
Large limbs were blown out of trees by high winds.									
Val Verde County									
13 N Comstock	17	2030CST 2040CST			0	0	5K	0	Thunderstorm Wind
Large limbs were blown out of trees by high winds.									
Hays County									
Dripping Spgs	24	1948CST 1955CST			0	0	0	0	Hail (1.75)
Hays County									
2 W Buda	24	2020CST 2030CST			0	0	0	0	Hail (1.00)
Travis County									
5 W Oak Hill	24	2030CST 2040CST			0	0	50K	0	Thunderstorm Wind
Severe winds blew down power lines and large tree limbs in the Oak Hill area.									
Caldwell County									
Lytton Spgs	24	2125CST 2135CST			0	0	0	0	Hail (1.00)
Travis County									
Bergstrom Afb	26	1725CST 1730CST			0	0	70K	0	Thunderstorm Wind
Severe winds blew down several large trees and tossed objects at cars that damaged the vehicles.									
Travis County									
Austin	26	1726CST 1727CST			0	0	0	0	Thunderstorm Wind (G51)
Bastrop County									
Bastrop	26	1730CST 1740CST			0	0	15K	0	Thunderstorm Wind
Trees were blown over and large limbs knocked down by high winds.									
Lee County									
5 NW Lexington	26	1900CST 1910CST			0	0	15K	0	Thunderstorm Wind
Severe winds blew down trees just northwest of Lexington.									
Gillespie County									
9 SW Harper	26	1845CST 1855CST			0	0	0	0	Hail (2.50)
Kerr County									
2 W Kerrville	26	1845CST 1855CST			0	0	0	0	Hail (2.50)
Kerr County									
Center Pt	26	1935CST 1945CST			0	0	0	0	Hail (1.25)
Bandera County									
2 N Bandera	26	2020CST 2030CST			0	0	0	0	Hail (1.50)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Castro County									
4 N Sunnyside	01	1709CST	0.1	100	0	0			Tornado (F0) A brief tornado touchdown in open county was reported by trained storm spotters. No survey was conducted.
Castro County									
5 SSE Dimmitt	01	1718CST	0.1	30	0	0			Tornado (F0) A brief tornado touchdown in open country was reported by law enforcement officials and by storm spotters. No survey was conducted.
Castro County									
Dimmitt	01	1900CST 2030CST			0	0			Flash Flood Highway 385 was reported flooded and was eventually closed between Dimmitt and Sunnyside. Several vehicles were stranded in the flood waters. The road remained closed for five days.
Castro County									
Nazareth	01	1909CST			0	0			Hail (1.75)
Lamb County									
6 S Olton	01	1942CST	0.1	30	0	0			Tornado (F0) A brief tornado touchdown in open country was reported by the Olton Fire Department. No survey was conducted.
Hale County									
6 W Halfway	01	1943CST 1945CST	0.2	30	0	0			Tornado (F0) A tornado touched down and remained in open country for several minutes. No survey was conducted.
Lamb County									
6 S Olton	01	1943CST 1944CST	0.1	30	0	0			Tornado (F0) Another brief tornado touchdown in open country was reported. No survey was conducted.
Lamb County									
Olton	01	1945CST			0	0			Hail (2.75) Golfball to baseball size hail was reported.
Swisher County									
5 S Tulia	01	2021CST			0	0			Hail (0.75) Dime size hail was reported on I-27 between Tulia and Kress.
Stonewall County									
6 N Aspermont	03	1840CST			0	0			Hail (1.75)
King County									
12 ESE Guthrie	03	1900CST			0	0			Hail (1.00)
Stonewall County									
Aspermont	03	1925CST			0	0			Hail (1.75)
Stonewall County									
Aspermont	03	1940CST			0	0			Hail (1.75)
TXZ021>044									
Parmer - Castro - Swisher - Briscoe - Hall - Childress - Bailey - Lamb - Hale - Floyd - Motley -									
	04	1100CST 1500CST			0	0	20K		High Wind (G51) High winds occurred over much of the South Plains on the afternoon of the 4th. Gusts to 67 mph were recorded in Littlefield, 66 mph in Morton, and 59 mph in Lubbock. There were isolated reports of trees uprooted and power poles snapped. The winds also caused one of the spring's worst dust storms that afternoon.
Lubbock County									
Lubbock	09	1345CST			0	0			Hail (0.75)
Hale County									
3 E Hale Center	09	1355CST			0	0	10K		Thunderstorm Wind Strong thunderstorm wind blew down several power poles.
Swisher County									
Vigo Park	09	1415CST			0	0			Hail (0.88)
Crosby County									
Lorenzo	09	1420CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
TEXAS, South Panhandle										
Swisher County										
10 E Kress	09	1425CST			0	0	25K		Thunderstorm Wind (G85)	
Strong thunderstorm wind blew down several poles and damaged six barns.										
Floyd County										
10 N Aiken	09	1430CST			0	0	15K		Thunderstorm Wind (G78)	
Strong thunderstorm wind blew the roof off a module shed, destroyed a barn, and blew down 30 power poles on Farm-to-Market Road 788.										
Floyd County										
Countywide	09	1500CST 1700CST			0	0			Flash Flood	
The Texas Department of Transportation reported Farm-to-Market Roads 207, 37 and 3111 flooded.										
Lynn County										
7 S Wilson	09	1554CST			0	0			Hail (2.75)	
Lynn County										
8 SE Wilson	09	1615CST			0	0			Hail (2.00)	
Floyd County										
Dougherty	09	1630CST			0	0			Hail (0.75)	
Briscoe County										
2 W Silverton	09	1634CST			0	0	10K		Thunderstorm Wind	
Strong thunderstorm wind blew down power poles west of town.										
Briscoe County										
5 E Silverton	09	1644CST			0	0	20K		Thunderstorm Wind	
Strong thunderstorm wind blew the roof off a house and blew down power lines.										
Garza County										
5 N Post	09	1650CST	0.1	30	0	0			Tornado (F0)	
A brief tornado touchdown in open country was reported by the public. No NWS survey was done.										
Garza County										
Pleasant Vly	09	1654CST			0	0			Hail (2.00)	
Garza County										
5 N Post	09	1655CST			0	0			Hail (2.75)	
Lubbock County										
(Lbb)Lubbock Intl Ar	09	1656CST			0	0			Hail (0.75)	
Garza County										
10 NE Post	09	1715CST			0	0	15K		Thunderstorm Wind	
Strong thunderstorm wind lifted the roof off a house, blew windows out of cars and snapped power poles.										
Garza County										
Post	09	1730CST 1745CST			0	0	75K		Hail (2.75)	
Crosby County										
5 NE Kalgary	09	1747CST			0	0			Hail (1.00)	
Childress County										
(Cds)Childress Arpt	09	1754CST			0	0			Thunderstorm Wind (G61)	
Dickens County										
2 N Afton	09	1800CST			0	0			Hail (0.88)	
Crosby County										
Kalgary	09	1805CST			0	0			Hail (1.75)	
King County										
Dumont	09	1815CST			0	0			Hail (1.75)	
Kent County										
1 W Girard	09	1841CST			0	0			Hail (1.00)	
Kent County										
Girard	09	1850CST			0	0			Hail (1.00)	

Storm Data and Unusual Weather Phenomena

May 1999

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									
Dickens County									
Dickens	09	1915CST			0	0			Hail (1.00)
Dickens County									
Dickens	09	1941CST 1942CST	0.1	30	0	0	2K		Tornado (F0)
A brief tornado damaged fences and caused other minor damage at the Dickens Correctional Facility.									
King County									
14 W Guthrie	09	2005CST			0	0			Hail (1.75)
King County									
Guthrie	09	2020CST			0	0			Hail (1.75)
Floyd County									
Floydada	16	1543CST			0	0			Hail (0.75)
Crosby County									
5 NE Kalgary	16	1615CST			0	0			Hail (1.00)
Floyd County									
10 E Lockney	16	1618CST			0	0			Hail (1.75)
Crosby County									
5 NE Kalgary	16	1638CST			0	0			Hail (1.75)
Dickens County									
4 SW Spur	16	1645CST			0	0			Hail (1.75)
Motley County									
6 N Matador	16	1645CST			0	0			Hail (0.75)
Dickens County									
Mc Adoo	16	1703CST			0	0			Hail (1.00)
Dickens County									
5 S Dickens	16	1705CST			0	0			Hail (2.00)
Motley County									
Roaring Spgs	16	1705CST			0	0			Hail (1.75)
Dickens County									
Dickens	16	1710CST			0	0			Hail (1.75)
Hall County									
3 E Brice	16	1735CST			0	0			Hail (0.88)
Dickens County									
2 NE Spur	16	1739CST			0	0			Hail (2.75)
Dickens County									
3 E Dickens	16	1749CST			0	0			Hail (1.75)
Kent County									
17 SW Clairemont	16	1750CST	0.1	30	0	0			Tornado (F0)
A brief tornado touchdown in open country was reported by law enforcement officials. No NWS survey was conducted.									
Cottle County									
15 N Paducah	16	1757CST			0	0			Hail (0.75)
Kent County									
6 SW Clairemont	16	1804CST			0	0			Hail (1.75)
Cottle County									
Swearingen	16	1820CST			0	0	5K		Thunderstorm Wind
Strong thunderstorm wind blew the roof off a barn and damaged a home.									
Dickens County									
13 E Dickens	16	1834CST 1837CST	0.5	50	0	0			Tornado (F0)
A storm chaser reported a tornado in open country on the Pitchfork Ranch. The tornado was on the ground for several minutes. No NWS survey was conducted.									
King County									
7 W Guthrie	16	1835CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Cottle County									
Chalk	16	1950CST			0	0			Hail (0.75)
Hall County									
4 SE Memphis	20	1924CST			0	0			Hail (2.75)
Childress County									
19 NW Childress	20	1929CST			0	0			Hail (2.75)
Childress County									
19 NW Childress	20	1929CST	0.1	30	0	0			Tornado (F0) A brief tornado was reported in open country by trained spotters and by an off-duty NWS employee. No survey was conducted.
Childress County									
15 N Childress	20	1944CST			0	0			Hail (1.00)
Childress County									
18 N Childress	20	1948CST	0.1	30	0	0			Tornado (F0) Storm spotters reported a brief tornado touchdown in open country. No NWS survey was conducted.
Parmer County									
5 W Friona	21	2330CST			0	0			Hail (0.88)
Parmer County									
Friona	22	0050CST			0	0			Thunderstorm Wind (G57)
Swisher County									
Tulia	23	0200CST			0	0	50K		Lightning A lightning strike caused extensive damage to a Tulia house.
Hockley County									
Levelland	24	0400CST 0600CST			0	0			Flash Flood Most county roads and state highways were reported flooded across the county.
Parmer County									
Friona	24	2157CST			0	0			Thunderstorm Wind (G63) A 73 mph wind gust was measured by wind equipment at the Friona High School.
Cochran County									
Morton	24	2205CST			0	0			Thunderstorm Wind (G51) A 59 mph wind gust was measured by a TXDOT mesonet instrument.
Castro County									
Dimmitt	24	2245CST			0	0			Hail (0.75)
Hockley County									
Countywide	25	0100CST 0300CST			0	0			Flash Flood Several farm-to-market roads were closed due to flooding.
Castro County									
Sunnyside	25	1502CST			0	0	25K	50K	Hail (1.75)
Lamb County									
Springlake	25	1515CST			0	0	25K	50K	Hail (1.75)
Hale County									
4 W Halfway	25	1522CST 1524CST	0.1	30	0	0			Tornado (F0) An off-duty NWS meteorologist reported a brief and apparently weak tornado in open country west of Halfway. No survey was conducted.
Castro County									
Dimmitt	25	1530CST			0	0	75K		Hail (1.75)
Castro County									
2 N Dimmitt	25	1537CST			0	0		75K	Hail (2.75)
Crosby County									
Owens	25	1544CST			0	0	20K	75K	Hail (1.00)
Hale County									
Halfway	25	1553CST			0	0	50K	100K	Hail (2.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Crosby County									
5 S Crosbyton	25	1615CST			0	0	75K		Hail (1.75)
Hale County									
5 SW Plainview	25	1625CST			0	0	500K		Hail (2.75)
Crosby County									
5 NE Kalgary	25	1650CST			0	0			Hail (2.75)
Dickens County									
7 WSW Spur	25	1650CST			0	0			Hail (2.50)
Floyd County									
9 SE Floydada	25	1730CST			0	0	5K	500K	Hail (1.75)
Kent County									
7 W Girard	25	1733CST			0	0	75K		Hail (1.75)
Kent County									
1 N Jayton	25	1813CST			0	0	50K		Hail (1.75)
Dickens County									
Mc Adoo	25	1815CST			0	0			Hail (1.75)
Crosby County									
5 SE Crosbyton	25	1825CST			0	0	100K		Hail (1.75)
Dickens County									
Dickens	25	1859CST			0	0	100K		Hail (1.00)
Dickens County									
Dickens	25	1910CST 1917CST			0	0	30K		Hail (1.75)
Stonewall County									
Aspermont	25	1935CST			0	0			Hail (1.13)
An off-duty NWS employee who was chasing in Stonewall County reported 1and 1/8 inch diameter hailstones in Aspermont.									
Swisher County									
Happy	25	2025CST			0	0	100K		Hail (0.75)
Swisher County									
7 NNW Tulia	25	2045CST			0	0	200K		Hail (0.88)
Swisher County									
Kress	25	2125CST			0	0			Hail (1.00)
Hale County									
2 N Plainview	25	2127CST			0	0	500K		Hail (0.75)
Hale County									
2 N Plainview	25	2130CST			0	0	5K	200K	Hail (1.75)
Large wind-driven hail knocked windows out of automobiles and homes.									
Floyd County									
2 N Aiken	25	2146CST			0	0	500K		Hail (2.50)
Floyd County									
Lockney	25	2155CST			0	0	300K	250K	Hail (2.75)
Wind-driven baseball size hail knocked windows out of automobiles and homes.									
Childress County									
(Cds)Childress Arpt	25	2219CST			0	0	50K		Hail (1.00)
Childress County									
Childress	25	2233CST			0	0			Hail (1.00)
Bailey County									
Maple	25	2239CST			0	0			Hail (1.00)
Floyd County									
13 NE Floydada	25	2245CST			0	0			Hail (1.75)
Bailey County									
Maple	25	2300CST			0	0	150K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Hockley County									
6 W Levelland	25	2324CST			0	0	1M		Hail (1.75)
Motley County									
Roaring Spgs	25	2328CST			0	0	100K		Hail (1.00)
Dickens County									
2 W Dickens	25	2330CST			0	0	50K		Hail (1.00)
Quarter size hail was reported to cover the ground six inches deep.									
Hockley County									
Levelland	25	2332CST			0	0	20M	500K	Hail (2.75)
Golfball- to baseball-size hail fell across Levelland, and caused millions of dollars in damages to roofs, vehicles, and windows all across the city. This same storm would later go on to cause damage in Wolfforth and far southwest Lubbock.									
King County									
2 S Dumont	25	2348CST			0	0			Hail (1.75)
King County									
7 W Guthrie	26	0000CST			0	0			Hail (1.75)
Lubbock County									
Lubbock	26	0020CST			0	0			Hail (1.25)
Lubbock County									
Wolfforth	26	0022CST			0	0	200K		Hail (4.00)
Lubbock County									
Lubbock	26	0025CST			0	0	300K		Hail (2.50)
A hailstorm that caused significant damage in Levelland continued moving east into western Lubbock County, then turned southeast. It moved from the former Reese Air Force Base through Wolfforth and the extreme southwest tip of the City of Lubbock. Many roofs and vehicles were damaged by golfball to baseball-size hail, and there was one report of grapefruit-size hail (in Wolfforth). In Lubbock, much of the damage was concentrated south and west of the intersection of 82nd Street and Slide Road.									
Lubbock County									
2 S Wolfforth	26	0025CST			0	0	100K	250K	Hail (2.75)
Lynn County									
New Home	26	0028CST			0	0	50K	50K	Hail (2.75)
Lubbock County									
Lubbock	26	0044CST			0	0	50K		Hail (0.75)
Lynn County									
Tahoka	26	0050CST			0	0	150K		Hail (0.88)
Garza County									
11 NW Post	26	0112CST			0	0	50K		Hail (1.75)
Lynn County									
2 NE Grassland	26	0125CST			0	0	100K		Hail (1.00)
Lubbock County									
2 E Idalou	26	2030CST			0	0			Hail (1.75)
Lubbock County									
2 N Heckville	26	2345CST			0	0	45K		Lightning
A lightning strike started a barn fire. The barn, as well as a boat and a pickup truck within the barn, were heavily damaged.									
Stonewall County									
11 SE Aspermont	30	2215CST			0	0	15K		Hail (2.00)
Large hail damaged trees, vehicles and the roof of at least one house.									
Stonewall County									
11 SE Aspermont	31	2025CST			0	0			Hail (1.50)

TEXAS, Southeast

Tyler County

4.5 NE Woodville to 9 NE Woodville	10	0650CST 0655CST	4.5	50	0	0	50K		Tornado (F1)
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A small tornado on the leading edge of a squall line moved rapidly northeast at 50 mph, blowing down trees for over four miles along US Highway 190. The trees were at least two to three foot in diameter. Newspaper clippings showed a doctor's office sign that was found four miles east of Woodville. The doctor's office was one mile west of Woodville. Two homes received significant damage

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, Southeast									
when trees fell on them. Over twenty homes received minor damage.									
Hardin County									
1 E Silsbee to 3 NE Silsbee	10	0655CST 0658CST	2	50	0	0	50K		Tornado (F0)
Another small tornado on the leading edge of a rapidly moving squall line produced a short-lived tornado near Silsbee. Along US Highway 96 and FM 416, trees were blown down. Some landed on homes, damaging roofs. Eyewitnesses saw flying debris and cars lifted in the air. Newspaper reports showed cars overturned.									
Jasper County									
12 W Jasper to 11 W Jasper	10	0655CST	1	25	0	0	10K		Tornado (F0)
A small waterspout moved onshore on the Jasper County side of Steinhagen Lake, damaging several camps. Two fishermen on the lake witnessed the tornado. Hundreds of trees were blown down in Martin Dies Jr. State Park next to the lake.									
Jefferson County									
Beaumont	10	0700CST 0715CST			0	0	100K		Thunderstorm Wind
A strong squall line caused wind gusts in excess of 60 mph, downing many trees and power lines across the Beaumont region. Some homes and businesses were damaged when trees fell on them. On Delaware Street, trees were either split, uprooted, or ripped apart, littering the street and yards. Two school buses were hit by falling trees, but no injuries were reported.									
Jasper County									
8 SW Jasper to 6 SW Jasper	10	0705CST 0707CST	2	25	0	0	20K		Tornado (F0)
A tornado on the leading edge of a squall line blew down many trees and blew the roof off a barn. The tornado moved parallel to US Highway 190, between Jasper and Steinhagen Lake.									
Jasper County									
5 SW Buna to 2 SW Buna	10	0710CST 0713CST	3	50	0	0	100K		Tornado (F1)
A small tornado on the leading edge of a squall line destroyed two mobile homes that were not tied down, and damaged the roof of a church. Two barns were destroyed and many large trees were snapped. This tornado crossed US Highway 96 between Buna and Evadale, and was witnessed by several people.									
Orange County									
Orange	10	0730CST			0	0	10K		Thunderstorm Wind
Trees and power lines were blown down across Orange.									
Newton County									
2 W Burkeville to 1 N Burkeville	10	0740CST 0745CST	2	25	0	0	25K		Tornado (F0)
The final tornado associated with a rapidly moving squall line across southeast Texas blew the windows out of one home and downed many trees near Burkeville, along US Highway 190.									
Jefferson County									
Port Arthur	11	0400CST			0	0			Hail (1.75)
Hail damaged several cars in the Port Arthur area.									
Orange County									
Bridge City	11	0630CST			0	0			Hail (1.00)
Orange County									
Bridge City	11	0740CST			0	0			Hail (1.00)
Jasper County									
10 S Jasper	11	1615CST			0	0			Hail (0.75)
Newton County									
7 NW Newton	11	1615CST			0	0			Hail (0.75)
Jasper County									
Erin	11	1640CST			0	0			Hail (2.75)
Jasper County									
10 W Jasper	25	1610CST			0	0			Hail (1.75)
Tyler County									
Colmesnelle	25	1612CST			0	0	10K		Thunderstorm Wind
Trees were blown down across Colmesneil.									
Tyler County									
2 N Town Bluff to 2 NE Town Bluff	25	1635CST 1640CST	1	20	0	0	25K		Tornado (F0)

Storm Data and Unusual Weather Phenomena

May 1999

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

Jasper County

**12 SW Jasper to
10 SW Jasper** 25 1640CST
1650CST 2 20 0 0 100K **Tornado (F1)**

A small tornado in Tyler County moved over a campground on the west side of Steinhagen Lake, downing hundreds of trees and damaging several camps. The tornado moved southeast over the lake, and entered Jasper County. On the Jasper County side of the lake, a state park was hit by a tornado for the second time in a little over two weeks, downing hundreds of trees and damaging several camps. Eyewitnesses saw the waterspout move onshore. The most significant damage occurred after the tornado passed through the park, when it damaged a large power pole near the dam on the southeast side of Steinhagen lake.

Tyler County

11 NE Woodville 25 1640CST 0 0 **Hail (1.75)**

Jasper County

8 SW Jasper 25 1645CST 0 0 **Hail (1.75)**

Jasper County

**9 SSW Kirbyville to
9 S Kirbyville** 27 1715CST
1718CST 1 10 0 0 10K **Tornado (F0)**

A small tornado was seen by SKYWARN spotters, that downed several trees in rural areas south of Kirbyville.

Jefferson County

1 W Beaumont 29 1110CST 0 0 5K **Thunderstorm Wind**
Trees and power lines downed.

Jasper County

12 N Jasper 30 1300CST 1 0 **Lightning**
A man was struck and killed by lightning near Rattlesnake Island on Lake Sam Rayburn. He was struck in the temple. M?BO

TEXAS, West

Ector County

7 NW Goldsmith 01 1446CST
1450CST 0.7 100 0 0 **Tornado (F0)**

This tornado was spawned out of a small mesocyclone on the leading side of a short multicell line. The tornado had a condensation funnel to the ground, became rain-wrapped within about 2 minutes, and was estimated to have lasted about two additional minutes. The tornado formed about 2-3 miles south of the Andrews County line near FM 181.

Martin County

12 W Tarzan 01 1636CST 0.1 80 0 0 **Tornado (F0)**

The cell that had produced the tornado in Ector County, dissipated, but its associated cluster began to favor one cell and by the time the cluster was in Eastern Andrews County it was forming into an HP supercell. Just after crossing into Martin County the storm produced a very brief tornado. The storm had a huge slot of rain that had wrapped around the mesocyclone. The spotter who saw the tornado was in heavy rain to the southeast of the spinup point. Video showed the condensation funnel to the ground, but rotation looked fairly weak. The unfavorable environment quickly destroyed the tornado within about one minute.

Gaines County

East Portion 01 1500CST
1600CST 0 0 **Flash Flood**

Brief heavy rains over the eastern part of the county caused flooding to occur again along FM 303 where flooding had occurred the previous night.

Gaines County

**12 SE Seminole to
13 SE Seminole** 01 1537CST
1547CST 2.5 120 0 0 5K **Tornado (F1)**

This cell formed near the New Mexico state line and moved to the northeast through northern Andrews County then into southern Gaines County. After crossing into Gaines County the storm, although small, developed a strong mesocyclone, and showed a classic hook echo on radar. About 6 miles south of U.S. Highway 180 and 3 miles west of the Dawson County line, a tornado formed. The tornado displayed a classic funnel shape with a relatively thin condensation funnel to the ground. The tornado eventually dissipated about 1 mile west of the Dawson County line still about 3 miles south of Highway 180.

The tornado travelled across open lands with the only damage reported being the roof taken off a shed and shingles taken off a house. The house was thought to have not taken a direct hit. This damage was near the point of tornadogenesis.

The storm began to weaken as it entered into Dawson County.

Gaines County

Central Portion 01 2000CST
2100CST 0 0 **Flash Flood**

Already soaked Gaines County got a little more flooding as a line of storms passed through the area after sunset. Minor flooding was reported on FM 1788 south of Seminole.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Gaines County									
5 S Seminole	01	2000CST			0	0			Hail (1.00)
Andrews County									
3 W Frankel City	01	2030CST			0	0			Hail (1.00)
Dawson County									
Lamesa	01	2125CST			0	0			Hail (0.75)
<p>The supercell thunderstorms moved into a very cool air mass and began to fade. About 8pm CDT, the upper level lift had eroded the capping inversion and the entire dryline suddenly erupted into a line of storms along the New Mexico state line. This line marched to the east with only a few hail reports for the rest of the evening.</p> <p>The overall setting showed a stationary front in the morning with upslope fog and drizzle over much of the region. During the early afternoon the dryline/warm front moved away from the mountains and served as the primary focus for the convection that day. Most of the supercells on this day were fairly small in stature.</p>									
Glasscock County									
3.5 NW St Lawrence	03	1755CST			0	0			Hail (1.50)
Glasscock County									
3 E Garden City	03	1825CST			0	0	5K		Hail (1.50)
<p>Hail broke out windows in vehicles on State Highway 158.</p> <p>These storms formed along an E-W oriented part of the dryline where convergence was maximized. CAPE values in the area were approaching 4000 J/kg. This convection was an isolated outcropping in Texas where a fairly capped air mass existed. As these storms were occurring, a huge tornado outbreak was getting underway in Oklahoma. This same dryline played a part in those storms as well.</p>									
Pecos County									
Girvin	09	1529CST			0	0			Hail (1.00)
Pecos County									
11 W Bakersfield	09	1555CST 1557CST	0.5	120	0	0			Tornado (F0)
<p>Tornado seen by people at a vineyard in eastern Pecos County near I-10. condensation funnel was 2/3 of the way to the ground. All information on tornado was gathered from eyewitness accounts.</p>									
Pecos County									
9 W Bakersfield	09	1605CST			0	1			Hail (2.50)
<p>Reported by people that saw the tornado. One person was operating a hail cannon (used to break up large hail stones). This person was pounded by the tennis ball size hail and received minor injuries.</p>									
Pecos County									
9 W Bakersfield	09	1605CST			0	0	3K		Thunderstorm Wind
<p>Thunderstorm outflow winds took the roof off a porch.</p>									
Pecos County									
East Portion	09	1700CST 1900CST			0	0			Flash Flood
<p>Flash flooding reported up and down I-10 from near Bakersfield to the Pecos River. In several places the eastbound lanes were covered with water that was 3-4 inches deep, while the frontage road was covered in some spots with 3-4 feet of water. The FM 2886 exit was badly flooded with mud and other debris needing to be moved after the water receded.</p>									
Pecos County									
11 SSE Bakersfield	09	1730CST			0	0			Hail (0.75)
Terrell County									
33 N Dryden	09	1900CST			0	0			Hail (2.50)
<p>Same location that was hit by the left-split storm two hours before.</p>									
Terrell County									
38 NNE Dryden	09	1925CST			0	0			Hail (1.00)
<p>This storm formed in northern Pecos County and started to move to the northeast. As the storm neared the Pecos River it took a severe right turn (about 90 degrees) and moved to the southeast for the remainder of the afternoon and evening. This storm appeared to have been an HP Supercell from about 430-630 pm while in eastern Pecos County. The storm then became part of a linear cluster after passing south of I-10, then this cluster faded and another brief supercell remained in northern Terrell County.</p>									
Terrell County									
33 N Dryden	09	1655CST			0	0			Hail (2.50)
Pecos County									
10 NW Sheffield	09	1717CST			0	0	10K		Hail (2.50)

Storm Data and Unusual Weather Phenomena

May 1999

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

This left-split storm moved quickly to the northeast across Terrell County and into eastern Pecos County. When the storm crossed I-10 the tennis ball size hail broke out car windows in several vehicles, including one law enforcement vehicle.

The storm then was absorbed by a large supercell storm moving to the southeast.

Upton County

5 N Rankin

09	1742CST				0	0			Hail (0.75)
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Multicell cluster that formed north of the Pecos County supercell. This cluster never became very well organized or very strong.

Pecos County

3 N Ft Stockton

13	1817CST 1835CST				0	0	1K		Thunderstorm Wind (G61)
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The storm intensified with winds estimated at 70 mph north of Fort Stockton. During this time one utility pole was blown down.

Pecos County

2 NW Ft Stockton

13	1846CST				0	0			Hail (1.00)
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Pecos County

2 NW Ft Stockton

13	1846CST 1852CST				0	0			Thunderstorm Wind (G61)
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Although the storm was moving to the east, development farther southwest moved into Fort Stockton. The severe effect remained on the northern edge of the city however.

Pecos County

7 N Bakersfield

13	1920CST				0	0			Hail (1.00)
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The storm accelerated eastward occasionally showing signs of weak rotation, but moving through a very sparsely populated area with only one report received.

A capping inversion kept most of the region quiet on this day. The dryline was located along the West Texas/Eastern New Mexico line in the northern areas and was farther west in the Davis Mountains in the southern area. Convergence along the dryline and assistance from the elevated terrain initiated one lone storm in the Davis Mountains that moved eastward into western Pecos County. The storm grew sluggishly to severe intensity just north of Fort Stockton. The storm continued severe for over an hour traveling east mainly north of I-10, but weaken late in the evening as surface temperatures cooled. In the vicinity of the storm temperatures were in the lower to mid 90s with dew points in the mid 50s, CAPE values were near 3300 J/kg, LI was -7, and 0-3km SRH was about 130 m2/s2.

Jeff Davis County

10 NW Ft Davis

21	1545CST 1600CST				0	0			Hail (1.00)
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Reported at McDonald Observatory

Brewster County

Castolon

21	1754CST 1805CST				0	0			Hail (1.75)
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Reported by a Ranger at Big Bend National Park.

Presidio County

Ruidosa

22	2035CST				0	0	1K		Hail (1.25)
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Presidio County

Ruidosa

22	2035CST				0	0	2K		Thunderstorm Wind
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This storm crossed the Rio Grande and became a supercell. the village of Ruidosa was pummelled with half-dollar size hail and severe winds. Hail drifted up to 6 inches deep. Winds downed power lines and trees in town. In nearby Candelaria a hail roar was heard from the storm.

Presidio County

21 WNW Marfa

24	1831CST 1841CST				0	0			Hail (0.75)
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Presidio County

21 WNW Marfa

24	1900CST 2000CST				0	0			Flash Flood
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Torrential rains of 2 inches fell in 16 minutes at the Marfa Aerostat Site. This storm formed in northwestern Presidio County and moved to the ESE across the Aerostat Site. The storm turned more to the east, passing to the north of Marfa.

Reeves County

Toyah

24	1930CST				0	0			Hail (0.75)
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Hail from the northern end of a cluster of storms. Larger hail fell farther south.

Reeves County

15 SSW Pecos

24	2002CST				0	0			Hail (1.75)
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Strong cell on the south end of a cluster.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Reeves County									
Pecos	24	2013CST			0	0			Hail (0.75)
The weaker (northern end of the cluster) moved from Toyah to Pecos.									
Reeves County									
20 S Pecos	24	2025CST			0	0	2K		Thunderstorm Wind
Outflow winds generated by the bowing of the southern cell ripped off part of the roof from a house.									
Pecos County									
15 NW Ft Stockton	24	2100CST			0	0			Hail (3.00)
Hail up to the size of an orange fell in rural areas near U.S. Highway 285.									
This cluster of storms formed in the northern portions of the Davis Mountains and moved east into western Reeves County. The southern cell of the cluster moved to the right of the mean flow, to the southeast along U.S. Highway 285 in rural parts of Reeves and Pecos Counties. There were reports of rotating wall clouds and brief funnels, but no reports of tornadoes with this classic supercell.									
The supercell weakened as it moved across the northern parts of Fort Stockton and turned to an easterly track. Its associated cluster became attached to a developing line of storms to the north.									
Gaines County									
6 NW Seminole	24	2135CST			0	0			Hail (1.75)
Gaines County									
6 NW Seminole	24	2135CST			0	0			Thunderstorm Wind (G52)
Midland County									
1 S Midland	24	2240CST			0	0			Thunderstorm Wind (G52)
Midland County									
North Portion	24	2245CST			0	0			Flash Flood
Water covered many roads in the area.									
A line of storms that formed in eastern New Mexico and the Texas Transpecos moved into the Permian Basin with gusty outflow winds. A cell formed ahead of the line in Gaines County that produced golf ball size hail. Farther south developments along the leading edge of the line in Midland County caused rains to last longer, eventually flooding many roadway in northern Midland County.									
Individual cells initially developed in the western areas and eventually merged into a line that stretched north to south along the Texas/New Mexico state line then south-southwest into Pecos County. After the line formed the intensity of the cells dropped dramatically, with the exception of the storm on the end of the line. This southern-most storm produced the largest hail and the longest sustained rotation on radar of all storms for the evening. This supercell also caused the only reported wind damage.									
The upper low was still anchored in the Desert Southwest supplying a southwesterly upper level flow aloft. In the late afternoon, surface temperatures were in the upper 80s with dew points in the mid to upper 50s. Mean low-level CAPE values were near 1600 J/kg with an LI near -6 degrees.									
Ector County									
2 S Odessa	26	1800CST			0	0			Hail (1.75)
Ector County									
3 W Odessa	26	1805CST			0	0			Hail (1.75)
Ector County									
5 NW Odessa	26	1815CST			0	0	85M		Hail (2.75)
Ector County									
5 N Odessa	26	1825CST			0	0			Hail (1.75)
Ector County									
5 ENE Gardendale	26	1902CST			0	0			Hail (1.75)
Midland County									
9 NW (Maf) Midland Intl	26	1902CST			0	0			Hail (1.75)
Andrews County									
21 SE Andrews	26	1910CST			0	0			Hail (1.75)
This convection fired along an outflow boundary moving to the southwest in northern Crane County. The initial cell immediately split with the left-split storm moving north toward Odessa, while the right-split storm moved to the ESE into Upton County where it dissipated.									
The left-split storm developed a mesoanticyclone as it neared Odessa. As the heart of the updraft moved northward along West Loop 338, baseball size hail was reported near the West County Road/University Blvd. intersection. The storm continued to the north									

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, West									
									where golfball size hail chased over 1000 people for cover attending a graduation practice. In downtown Odessa one-inch hail stacked up to ankle deep.
									The storm moved over the junction of Ector, Midland, and Andrews Counties where golfball size hail was reported. The storm then began to fade near the Andrews/Martin County line. As a line of non-severe storms approached from the west, this storm quickly dissipated.
									This storm was the most costly storm in the region for many years. Insurance agencies set up special claims stations and brought in numerous out-of-town employees to handle the workload.
Loving County									
17 NW Mentone	26	1815CST 1827CST			0	0			Hail (2.50)
Reeves County									
6 NE Orla	26	1815CST			0	0			Hail (2.50)
Loving County									
6 N Mentone	26	1844CST 1846CST	0.4	100	0	0			Tornado (F0)
									Brief tornado in open country north of Mentone.
Loving County									
4 ENE Mentone	26	1902CST 1918CST			0	0			Hail (3.00)
									Vegetation stripped along State Highway 302.
Winkler County									
8 SW Wink	26	1930CST 1931CST	0.3	150	0	0			Tornado (F0)
									Brief tornado that became rain-wrapped very quickly. Brief glimpse of large cone-shaped funnel.
Ward County									
Pyote	26	2001CST 2010CST			0	0			Hail (1.25)
Ward County									
Pyote	26	2001CST 2002CST			0	0			Thunderstorm Wind (G52)
									Estimated by chaser.
Ward County									
Grandfalls	26	2045CST 2105CST			0	0			Hail (1.75)
Pecos County									
Imperial	26	2110CST			0	0			Hail (0.75)
Pecos County									
7 W Bakersfield	26	2220CST 2221CST	0.3	100	0	0			Tornado (F0)
									Spotted by a trucker near I-10. Radar confirmed circulation in this vicinity.
Pecos County									
Sheffield	26	2342CST 2350CST			0	0			Hail (0.75)
									This massive right-moving supercell began its life in southern Eddy County, NM where it formed on the flank of another cell moving to the east. As this storm neared the Pecos River, it turned to the right and headed to the southeast into Texas. The storm intensified greatly after crossing the state line.
									This supercell was able to keep its organization for over 6 hours as it moved to the southeast loosely paralleling the Pecos River. It produced up to 3 inch hail and 3 brief tornadoes.
									All of the tornado information was based on visual accounts and radar interpretation. No survey of the sites was done.
Brewster County									
Alpine	27	1300CST			0	0			Hail (0.88)
									Reported at Sul Ross State University.
Jeff Davis County									
10 NW Ft Davis	28	1630CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops		
TEXAS, West										
Brewster County										
10 NW Alpine	28	1730CST			0	0	2K		Hail (1.75)	Car windows damaged.
Brewster County										
10 NW Alpine	28	1730CST			0	0			Thunderstorm Wind (G52)	
Brewster County										
Marathon	28	1815CST			0	0			Hail (0.75)	
Brewster County										
2 W Marathon	28	1825CST			0	0			Thunderstorm Wind (G61)	
Brewster County										
5 N Marathon	28	1835CST			0	0			Thunderstorm Wind (G61)	This multicell cluster of thunderstorms developed over the Davis Mountains and moved to the east into the plains. After passing Marathon the cluster started to weaken as it drifted to the southeast.
Upton County										
3 N Rankin	28	2110CST			0	0			Hail (1.00)	
Reagan County										
10 NNW Texon	28	2133CST			0	0			Hail (2.50)	This cell developed along an W-E boundary over Rankin. The cell split into a cell that drifted slowly to the west and another cell that moved to the northeast into Reagan County. The first cell dissipated, while the second cell continued northeast across Reagan County, although no other reports were received.
Loving County										
5 E Mentone	28	2156CST 2215CST			0	0			Hail (0.75)	
Loving County										
South Portion	28 29	2300CST 0030CST			0	0			Flash Flood	This cell developed along the intersection of an E-W boundary and the outflow boundary from an MCS to the north in New Mexico. The cell sat over southern Loving county producing heavy rain and hail. Eventually roads became flooded. Near State Highway 302 about 3 inches of rain fell, but just to the north, about 6 inches was reported. A large TU Electric truck had water up to its doors, about 2.5 to 3 feet deep. The MCS expanded southward and swept up this cell.
Andrews County										
Andrews	29	0005CST			0	0			Thunderstorm Wind (G52)	
Andrews County										
Florey	29	0012CST			0	0	3K		Thunderstorm Wind	An MCS that moved into West Texas produced outflow winds on its leading edge. At the Andrews County Park some large trees were downed. A girl scout troop was camping in the park where one tent was hit by a falling tree. Luckily no injuries were reported.
Midland County										
17 S Midland	30	1737CST			0	0			Hail (1.75)	Multicell storm that formed on a northward moving outflow boundary.
Glasscock County										
10 W Garden City	30	1815CST			0	0			Thunderstorm Wind (G52)	The Midland County storm moved east into Glasscock County, collapsed, and sent out 60+ mph winds near the intersection of State Highways 135 and 137. Moderately moist air covered the region on this day with dew points in proximity of the storms in the mid to upper 50s. Temperatures were in the lower 90s.
Glasscock County										
5 SE Garden City	31	1806CST 1808CST	0.3	70	0	0			Tornado (F0)	An apparent landspout tornado formed briefly in an updraft of the western-most cell of a multicell cluster. The updraft was on the north side of the cell and there was a boundary in close proximity that may have assisted in the formation of the vortex.
Glasscock County										
13 ESE Garden City	31	1815CST			0	0			Hail (0.75)	The cluster that caused the landspout continued to move northeast and dropped this hail on State Highway 158.
Terrell County										
38 NNE Dryden	31	1815CST			0	0			Hail (1.75)	Hail fell near the intersection of State Highway 349 and Ranch Road 2400.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Terrell County									
34 NE Dryden	31	1853CST 1915CST			0	0			Hail (1.75)
Same storm moved to the southeast to near the Pecos River. Had strong mid-level rotation on doppler radar. Storm then crossed the river out of the region. First in a series of storms to develop near the Pecos/Terrell County line.									
Pecos County									
Sheffield	31	1905CST			0	0			Hail (0.75)
Pecos County									
2 S Sheffield	31	1910CST 1918CST			0	0			Hail (1.00)
Second in the series of storms. This cluster moved to the east across the Pecos River into Crockett County.									
Terrell County									
15 N Dryden	31	1933CST			0	0			Hail (1.75)
Hail fell on State Highway 349.									
Terrell County									
28 NE Dryden	31	1958CST			0	0			Hail (1.50)
Storm that cross Highway 349 moved northeast to the Terrell Gas Plant. This storm cluster formed in extreme eastern Brewster County and moved to the northeast just south of Sanderson.									
Pecos County									
East Portion	31	2030CST 2230CST			0	0			Flash Flood
Terrell County									
North Portion	31	2030CST 2230CST			0	0			Flash Flood
Terrell County									
38 NNE Dryden	31	2105CST 2130CST			0	0			Hail (1.00)
Hail covered the ground at this location. This third storm cluster developed in the same area as the others and caused widespread flooding of low-lying areas. Sheffield Draw became a raging torrent and came within 2 feet of the bridge on Highway 349. This bridge was raised 5 feet in 1997 due to deadly flooding in the past. Numerous water crossings on Highway 349 experienced minor flooding. Radar estimates were in excess of 8 inches along the county line near Highway 349. The dry line was the primary focus for development on this day. Surface temperatures were generally in the mid 90s with dew points near 60 degrees. LAPS estimated CAPE values were generally 1800-2000 J/kg in both regions of initiation.									
TEXAS, Western North									
Knox County									
Benjamin	03	1900CST			0	0			Hail (1.00)
Knox County									
5 SW Benjamin	03	2000CST			0	0			Hail (0.75)
Wichita County									
Haynesville	03	2036CST			0	0			Hail (0.75)
Wilbarger County									
Vernon	03	2045CST			0	0			Hail (1.75)
Knox County									
Benjamin	03	2050CST			0	0			Hail (2.75)
Wilbarger County									
Vernon	03	2055CST			0	0	10K		Thunderstorm Wind
Wilbarger County									
2.5 SW Vernon	03	2130CST			0	0	7K		Thunderstorm Wind
Scattered thunderstorms brought severe weather to western parts of North Texas during the evening of May 3rd. In addition to reports of large hail, several barns and trees were blown down in Vernon in Wilbarger County. Also in Wilbarger County, 2.5 miles southwest of Vernon, a metal barn was destroyed, and a house received minor damage.									
Hardeman County									
Quanah	04	0635CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 1999

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									
12 NW Quanah	09	1825CST			0	0			Hail (0.75)
Foard County									
5 W Crowell	09	1942CST			0	0			Hail (1.00)
Wilbarger County									
4 E Grayback	09	2001CST			0	0			Hail (0.88)
Wichita County									
Electra	09	2045CST			0	0	4K		Thunderstorm Wind
Scattered thunderstorms produced isolated areas of severe weather across western parts of north Texas during the evening of the 9th. In addition to several reports of large hail, a house carport was blown away on North Highway 25, in Electra in Wichita County.									
Baylor County									
4 WSW Red Spgs	15	1720CST			0	0	0.50K		Hail (1.25)
Baylor County									
1 E Red Spgs	15	1725CST			0	0			Hail (0.75)
Baylor County									
1 E Red Spgs	15	1735CST			0	0			Hail (1.75)
Baylor County									
1 E Red Spgs	15	1741CST			0	0	0.50K		Hail (3.00)
Knox County									
Munday	15	1747CST			0	0			Hail (0.75)
Wilbarger County									
Grayback	15	1750CST			0	0			Hail (0.75)
Baylor County									
1 E Red Spgs	15	1800CST 1830CST			0	0			Hail (1.75)
Hail occasionally up the size of golf balls fell at the same house for 30 minutes.									
Knox County									
Rhineland	15	1829CST			0	0			Hail (1.75)
Foard County									
8 SE Crowell	15	1900CST			0	0			Hail (0.75)
Knox County									
6 N Goree	15	1915CST			0	0			Hail (1.00)
Knox County									
4 E Vera	15	1927CST			0	0			Hail (0.88)
Baylor County									
3 W Red Spgs	15	1930CST			0	0			Flood
Knox County									
5 E Vera	15	1930CST			0	0			Flood
Severe thunderstorms formed over portions of western north Texas during the evening of the 15th, resulting in many occurrences of large hail. House windows were broken by large hail in Baylor County at a residence 4 miles west-southwest of Red Springs, and at a residence 1 mile east of Red Springs. Flooding was reported on portions of Highway 82, where water up to 1 feet deep overlapped the Baylor/Knox County line.									
Hardeman County									
12 W Quanah	16	1834CST			0	0			Hail (0.88)
Hardeman County									
Quanah	16	1928CST			0	0			Hail (1.00)
Hardeman County									
Chillicothe	16	1938CST			0	0			Hail (1.00)
Hardeman County									
Chillicothe	16	1938CST			0	0			Thunderstorm Wind (G52)
Foard County									
2 N Thalia to 2.5 N Thalia	16	1939CST 1940CST	0.5	50	0	0	15K		Tornado (F1)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Wilbarger County									
1 N Tolbert	16	1955CST			0	0			Hail (1.75)
Hardeman County									
Chillicothe	16	2000CST			0	0			Hail (1.00)
Wilbarger County									
7 W Lockett	16	2031CST			0	0			Hail (1.00)
Wilbarger County									
Lockett	16	2057CST			0	0			Hail (1.00)
Foard County									
Thalia	16	2100CST			0	0			Hail (0.88)
Foard County									
Thalia	16	2125CST			0	0			Hail (0.75)
Wilbarger County									
1 W Vernon	16	2130CST			0	0			Hail (1.00)
Wilbarger County									
2 SW Vernon	16	2135CST			0	0	40K		Thunderstorm Wind
Wilbarger County									
Vernon	16	2140CST			0	0	10K		Flood
Wichita County									
Electra	16	2200CST			0	0			Hail (0.88)
Wichita County									
Kamay	16	2211CST			0	0			Thunderstorm Wind (G56)
Wichita County									
2 NE Electra	16	2214CST			0	0			Hail (0.88)
Wilbarger County									
Harrold	16	2217CST			0	0			Hail (1.00)
Wichita County									
Haynesville	16	2232CST			0	0			Hail (1.00)
Wichita County									
5 W Burkburnett	16	2245CST			0	0			Hail (1.00)
Severe thunderstorms affected western north Texas during the evening of the 16th, resulting in 1 tornado, numerous reports of large hail, and 1 report of damaging straight-line winds. The tornado was observed 2 miles north of Thalia in Foard County and was reported by a storm chaser. Damage, rated F1, included a destroyed barn, downed trees, and minor roof damage. A garage was also lifted and moved. Straight-line winds caused damage 2 miles southwest of Vernon in Wilbarger County, where 1 mobile home was damaged; 18 power poles were downed; and a windmill was destroyed. In addition, large signs were blown down onto Highway 287, and windows were blown out at the intersection of Main and Texas. Numerous roads in Vernon were reported to be covered by water, sometimes up to 18 inches deep, and several cars were stranded in high water at the 1800 block of Sand Rd. and Ross St., also in Vernon.									
Hardeman County									
19 NW Quanah	20	2035CST			0	0			Hail (1.25)
Hardeman County									
10 N Goodlett	20	2037CST			0	0			Hail (1.00)
Hardeman County									
10 N Goodlett	20	2045CST			0	0			Hail (1.00)
Knox County									
Munday	25	1925CST			0	0			Hail (0.88)
Knox County									
Munday	25	1930CST			0	0			Hail (1.25)
Knox County									
3 W Munday	25	1930CST			0	0	3.5K		Thunderstorm Wind
Wichita County									
Wichita Falls	25	2110CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Wichita County									
Wichita Falls	25	2120CST			0	0			Hail (1.00)
Wichita County									
Sheppard Afb	25	2128CST			0	0			Hail (1.25)
Clay County									
5 NW Henrietta	25	2138CST			0	0			Hail (1.00)
Clay County									
2 W Dean	25	2144CST			0	0			Hail (1.00)
Clay County									
Jolly	25	2154CST			0	0			Hail (1.00)
Hardeman County									
Quanah	25	2342CST			0	0			Hail (0.75)
Hardeman County									
Quanah	25	2345CST			0	0			Hail (0.75)
Hardeman County									
Quanah	25	2355CST			0	0			Hail (1.00)
Hail was reported on the east side of Quanah.									
Knox County									
5 W Knox City	26	0052CST			0	0			Hail (1.75)
Knox County									
Knox City	26	0105CST			0	0			Hail (1.75)
Knox County									
Knox City	26	0115CST			0	0			Hail (1.00)
Knox County									
5 W Munday	26	0120CST			0	0			Hail (0.75)
Knox County									
5 W Munday	26	0120CST			0	0			Thunderstorm Wind (G52)
Baylor County									
2 N Bomarton	26	0145CST			0	0	0.01K		Thunderstorm Wind
Knox County									
5 S Knox City	26	0445CST			0	0			Flash Flood
Severe thunderstorms affected western parts of north Texas from the evening of the 25th through the early morning of the 26th. Seven power poles were downed on Highway 222, and 2 outbuilding were destroyed 3 miles west of Munday in Knox County. Large tree limbs were downed 2 miles north of Bomarton in Baylor County, and flooding caused parts of Highway 6 in Knox County to be covered by high water 5 miles south of Knox City.									
Wichita County									
East Portion	27	1450CST 1735CST			0	0	85K		Flood
Wichita County									
Burkburnett	27	1525CST			0	0	1K		Thunderstorm Wind
Archer County									
5 SW Holliday	27	1543CST			0	0			Hail (1.25)
Archer County									
Archer City	27	1604CST			0	0			Hail (0.88)
Archer County									
Archer City	27	1610CST			0	0			Hail (1.00)
Clay County									
Henrietta	27	1613CST			0	0			Hail (0.88)
Scattered severe thunderstorms affected western portions of north Texas during the afternoon of the 27th. Flooding resulted in numerous road closures in and around the town of Burkburnett in Wichita County. At one point, all roads leading into town were closed due to high water. At 1507 CST, a car was reportedly swept off of the road by flood waters at the intersection of Daniels and Bishop Road in Burkburnett. Citizens were reportedly rescued from stalled vehicles at the intersection of South Preston and Jan Lee Street and on Interstate 44 just south of Daniels Road. Flooding and road closures were also reported along portions of Interstate 44 from Sheppard Air Force Base to Burkburnett. At 1637 CST, Highway 240 was reported closed at its intersection with Farm Road									

Storm Data and Unusual Weather Phenomena

May 1999

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

1177. Highway 240 was also closed at the intersection of Highway 369 and Eastern Road. Several homes were also flooded in the 7800 block of Old Burk Rd. near Sheppard Air Force Base. Finally, power lines were reported down in Burkburnett in the 800 block of Sycamore. The lines fell onto a tree, causing a fire which resulted in minor damage.

Knox County

3 S Munday 31 1847CST 0 0 Hail (1.00)

Baylor County

3 S Mabelle 31 1922CST 0 0 Hail (1.75)

Knox County

Munday 31 1923CST 0 0 Hail (0.88)

Baylor County

3 E Seymour 31 1932CST 0 0 Hail (1.75)

Wichita County

3 W Burkburnett 31 2047CST 0 0 Hail (1.00)

Archer County

10 N Archer City 31 2115CST
2120CST 0 0 Hail (0.75)

Hail was reported near Highway 79.

Archer County

6 S Holliday 31 2200CST 0 0 Hail (0.88)

Wichita County

Wichita Falls 31 2216CST 0 0 Hail (0.75)

UTAH, East

Daggett County

13 ESE Dutch John to 12 E Dutch John 05 1500MST
1509MST 1 30 0 0 Tornado (F0)

A tornado touched down over rangeland, about 8 miles northwest of the Browns Park National Wildlife Refuge headquarters. Debris was thrown about 300 feet into the air.

UTZ023

Eastern Uinta Mountains

13 2300MST 0 0 Heavy Snow
14 0700MST

A fast moving upper level disturbance produced 6 to 10 inches of snow.

Grand County

12 S Cisco 29 0830MST 1 0 Lightning

A man was struck by lightning in the Dewey Bridge area while sightseeing with family. M65OU

UTAH, West and Central

UTZ001>018

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake

02 1200MST 0 0 0 0 Winter Storm
05 1200MST

A juicy pacific storm parked over Utah for 4 days, adding copious amounts of moisture to the already soaked state. Snow fell above the 5000 foot level, with soaking rains in the lower elevations. Alta received 50 inches of snowfall, and 5.58 inches of moisture. Snowbird picked up 34 inches of snow, with 4.25 inches of moisture. Wanship received a foot of snow with the storm. Some other impressive water totals over the 4-day period included 5.00 inches in South Weber, 3.70 inches at Brighton, 3.42 inches at Pineview Dam, 3.24 inches at Nordic Valley, 2.65 inches in Bountiful, 2.23 inches in South Ogden, 2.17 inches in East Layton, and 2.05 inches in American Fork.

Salt Lake County

Midvale 02 1500MST 0 0 5K 0 Lightning

Lightning struck Silvester's Restaurant in Midvale setting a portion of the roof on fire. Nobody was injured and the fire was quickly put out.

Iron County

Enoch 03 1500MST
1530MST 0 0 0 0 Hail (0.75)

A severe thunderstorm produced 3/4 inch hail in the town of Enoch, just north of Cedar City.

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UTAH, West and Central

Weber County

South Ogden

04	1200MST			0	1	0	0	Lightning
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A UTA bus driver was waiting outside his bus for passengers in South Ogden when it started to rain. As he put up his umbrella a nearby bolt of lightning glanced his umbrella and shot down through his right arm. He felt a burning sensation in his body and after driving a mile he decided to get medical attention. His injuries turned out to be very minor for this lucky man.

UTZ007

Wasatch Mountains I80 North

05	1430MST 1500MST			0	1	0	0	Avalanche
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A backcountry skier triggered a late spring avalanche in Little Cottonwood Canyon that was approximately 60 feet wide and 300 feet long. Twelve people were caught in the avalanche, with 3 buried (father and 2 sons) up to their chests. One of the sons broke free and managed to dig his father and brother out. The only injury was to the younger son buried the deepest who sustained a slight leg injury.

UTZ002

Northern Wasatch Front/Brigham City/Ogden Bountiful

23	0600MST 1200MST			0	0	0	0	High Wind
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Local easterly canyon winds blew during the morning hours in Weber and Davis counties. Bountiful had a 60 mph (52 kts) wind gust with Hill AFB recording a 45 mph (39 kts) gust.

Davis County

Bountiful

23	1500MST 1600MST			0	0	0	0	Tstm Wind/Hail
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Morgan County

Morgan

23	1500MST 1600MST			0	0	0	0	Tstm Wind/Hail
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Severe thunderstorms brought large hail and strong winds to portions of the Wasatch Front in the afternoon. The Bountiful bench reported 3/4 to 1 inch hail, with 3/4 inch hail also reported in Morgan. Wind gusts in excess of 50 mph occurred with these thunderstorms as well.

Tooele County

(Env)Wendover Arpt

23	1600MST 1800MST			0	0	0	0	Dry Microburst
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Utah County

Countywide

23	1600MST 1800MST			0	0	0	0	Dry Microburst
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Thunderstorms produced dry microburst winds over Tooele and Utah counties early in the evening. The strongest gusts reported were 60 mph (52 kts) at Provo BYU, 58 mph (50 kts) in East Orem, 54 mph (47 kts) at the Wendover Airport, and 50 mph (43 kts) in Pleasant Grove.

Cache County

Lewiston

25	1200MST 1300MST			0	0	0	0	Heavy Rain
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Heavy rain fell in Lewiston with 1.61 inches reported in 30 minutes. This caused some local flooding, but nothing major. Hail up to 1/2 inch diameter covered the ground and was nearly 1 1/2 inches deep. The total rainfall from this storm was 2.20 inches.

Morgan County

Central Portion

25	1500MST 1600MST			0	0	0	0	Hail (0.75)
-----------	----------------------------	--	--	----------	----------	----------	----------	--------------------

Large hail up to 3/4 inch fell at East Canyon, covering the roads. Also, 1.00 inches of rain fell in about 30 minutes.

Summit County

Kimball Jct to Coalville

26	1200MST 1500MST			0	0	1K	1K	Flash Flood
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Minor flash flooding occurred in a gully that runs into Chalk Creek near Coalville. About a foot of mud and debris was deposited on the road there, from a storm that dropped 1.25 inches of rain in an hour at Kimball Junction.

Storm Data and Unusual Weather Phenomena

May 1999

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

UTAH, West and Central

Tooele County

Countywide	28	1200MST 1800MST			0	0	0	0	Dry Microburst
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Dry microburst winds were reported in the west deserts, with Vernon Hill reporting a 70 mph (61 kts) gust, Antelope Island 56 mph (49 kts), Wendover 55 mph (48 kts), and Dugway 52 mph (45 kts).

Emery County

Countywide	29	1200MST			1	1	0	0	Lightning
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Lightning killed one person and injured another in Emery County on the 29th. A 51-year-old woman and her husband were struck by lightning while walking near I-70, about 30 miles east of Green River. The woman was killed, and the husband survived with minor injuries. F510U

Beaver County

Milford	29	1500MST			0	2	0	0	Lightning
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In Beaver County, a Milford mother and her 10-year-old daughter were struck by lightning while digging in a potato field near their home. The mother's heart stopped, but her husband performed CPR and was able to revive her. The daughter sustained minor injuries.

UTZ005-010

Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Plateau/Book Cliffs

30	1200MST 1800MST			0	0	0	0	High Wind
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An approaching cold front brought gusty winds to a few locations. Some of the stronger gusts were 72 mph (63 kts) at the Price Airport, 60 mph (52 kts) near Dugway, and 53 mph (46 kts) at Wendover.

VERMONT, North and Central

NONE REPORTED.

VERMONT, South

VTZ014

Windham

25	1315EST 1515EST			0	0	2.4K		Wind
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An unstable atmosphere resulted in gusty winds on the afternoon of May 25 across southern Vermont. The wind gusts were strong enough to knock down some limbs. Limbs in turn, fell upon utility wires and caused power outages to about 2,400 customers in Windham County. The disruptions in power lasted approximately two hours.

VIRGIN ISLANDS

NONE REPORTED.

VIRGINIA, East

Mecklenburg

Clarksville	13	1930EST			0	0	1K	Thunderstorm Wind
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Tree down (7 inch diameter) on Route 722.

Hanover County

2 NE Mechanicsville	24	1220EST			0	0	1K	Thunderstorm Wind
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Power lines down near Pole Green.

Hanover County

Hanover	24	1230EST 1240EST			0	0	10K	Thunderstorm Wind
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Numerous trees down and damage to a trailer.

King William

3 NW King William	24	1254EST			0	0	2K	Thunderstorm Wind
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Trees down on Route 629.

Storm Data and Unusual Weather Phenomena

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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

VIRGINIA, East

Hampton (C)

Hampton	24	1420EST				0	0	5K	Thunderstorm Wind
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Church steeple blown down.

Suffolk (C)

Suffolk Arpt	24	1450EST				0	0	2K	Thunderstorm Wind
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Several trees down near Suffolk Airport.

Hampton (C)

Hampton	24	1505EST				0	0	2K	Thunderstorm Wind
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Trees down along Interstate 64.

Accomack County

Parksley	24	1510EST				0	0		Hail (0.75)
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Chesapeake (C)

Chesapeake	24	1515EST				0	0	1K	Thunderstorm Wind
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Power lines down near Plantation Lakes and Kempsville Road.

Norfolk (C)

Ocean View	24	1517EST				0	0	2K	Thunderstorm Wind
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Trees down.

Virginia Beach (C)

Virginia Beach	24	1530EST				0	0	1K	Thunderstorm Wind
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Large tree limbs down near Salem Woods.

VIRGINIA, Extreme Southwest

Lee County

1 W Jonesville	07	1530EST				0	0		Hail (1.75)
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Lee County

1 W Jonesville	07	1545EST				0	0	12K	Thunderstorm Wind
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Numerous trees down.

Lee County

1 W Jonesville	07	1545EST				0	0	5K	Thunderstorm Wind
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Trees down.

VIRGINIA, North

VAZ021-025>031- Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson -

01		0000EST				0	0		Drought
31		2359EST							

High pressure was the dominant weather feature across Northern Virginia during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. By the last week of May the Palmer Drought Index, a measure of long term drought conditions, indicated Northern Virginia was in a moderate drought. May was the 7th month in the past 12 months that precipitation was below normal. Only 2.22 inches of rain fell at Dulles International Airport in Loudoun County during the month of May, 1.80 inches below normal. It was the 8th driest May on record, and rain only fell on 5 days during the month. Additional rainfall totals included Frederick County at 1.5 inches, Shenandoah County at 2.9 inches, Warren County at 1.4 inches, Rockingham and Orange County at 2.4 inches, Augusta County at 3.0 inches, Highland County at 2.2 inches, Nelson and Albemarle County at 2.3 inches, Culpeper County at 2.8 inches, Rappahannock County at 2.1 inches, Fauquier County at 2.2 inches, Spotsylvania County 0.5 inches, and Fairfax and Loudoun County at 2.0 inches.

The lack of rainfall affected water levels along the Potomac River, the main water source for extreme northern Virginia. The flow of water past Washington D.C. hovered around the 10th percentile and record low daily flows were reported in some upstream tributaries. Monthly flow rates of the Potomac River have been below average for the last 9 months. During May, the average daily flow of the river was only 38% of the long term average. Conditions on the Shenandoah and Rappahannock River were also extremely dry. Some stations in these two watersheds reported streamflow at or below the 90th percentile exceedence, which rivaled minimum daily mean flow values of the drought of 1980-82. With such low water tables, Spotsylvania County was forced to reinstate voluntary water restrictions. The Ni River Reservoir, main water source for the county, had already dipped 4 inches below the spillway by mid month.

The lack of precipitation also played havoc with spring planting and livestock maintenance. Trees were prematurely shedding leaves in orchards, hay and pastureland were wilting, and watering holes and irrigation sources were slowly drying up. 69% of pasture land and 58% of hay across the state was reported in poor or very poor condition. 58% of topsoil was reported as short or very short of moisture by the end of the month. Some farmers had to reduce their herd sizes in order to stretch hay and water supplies. In addition to agricultural lands, forests and rural vegetation was also dangerously dry. In Page County alone, fifteen brush fires were reported in

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VIRGINIA, North

May near Stanley, including one that burned 100 acres. Another fire in Shenandoah National Park burned around 400 acres and closed a 40 mile stretch of Skyline Drive for several days during the first week of the month.

Clarke County

Berryville 12 0545EST 0 0 5K **Thunderstorm Wind**

One tree uprooted and several trees split in a county park

A thunderstorm producing wind over 55 MPH moved across Northern Clarke County between 6:00 AM and 7:00 AM EDT. County park officials reported the storm downed a large tree by the recreation office and split several other trees lining the entrance driveway. Also, a staff member who was driving a maintenance truck around the county park during the storm reported gusty winds caused their vehicle to shake.

Culpeper County

North Portion 22 1510EST 0 0 15K **Thunderstorm Wind**

Trees and powerlines downed

Albemarle County

Countywide 22 1915EST 0 0 4K **Thunderstorm Wind**

Charlottesville (C)

Charlottesville 22 1915EST 0 0 4K **Thunderstorm Wind**

Trees downed

Low pressure over the Ohio River Valley produced a line of thunderstorms that moved across Northern Virginia during the early evening. The strongest thunderstorms moved across Rappahannock, Culpeper, and Albemarle County and produced frequent lightning, heavy downpours, and wind gusts over 55 MPH. A resident of Rappahannock County reported the passing storms downed trees around 4:05 PM EDT. Law enforcement officials reported several trees and power lines downed across the northern part of Culpeper County around 4:10 PM EDT. Around 8:15 PM EDT, storms downed several trees and caused power outages across Albemarle County and the City of Charlottesville. One fallen tree blocked a lane of traffic on U.S. Highway 64 west of Charlottesville, and another blocked Mosley Drive. The storm dropped three quarters of an inch of rain in Charlottesville.

Fairfax County

Vienna 24 1230EST 0 0 **Hail (0.75)**

Falls Church (C)

Falls Church 24 1235EST 0 0 0.50K **Thunderstorm Wind**

Tree downed at intersection of Patricia and Shreve Street

A line of thunderstorms moved across extreme Northern Virginia just after midday and produced large hail and winds in excess of 55 MPH. Dime sized hail was reported in Vienna at 1:30 PM EDT. A one foot diameter tree was blown down by high wind at the intersection of Patricia and Shreve Street, 1/2 mile northwest of central Falls Church.

VIRGINIA, Northwest

Dickenson County

**Birchleaf to
Clinchco** 18 1500EST
1700EST 0 0 **Heavy Rain**

Rains of 2 to 3 inches fell. Mill Creek overflowed its banks but did not threaten any structures. Leaves and debris were left along the road.

VIRGINIA, Southwest

Smyth County

Groseclose 07 1550EST 0 0 **Hail (0.75)**

Wythe County

5 W Wytheville 07 1610EST 0 0 **Hail (0.75)**

Grayson County

Volney 07 1615EST 0 0 **Hail (0.75)**

Grayson County

Fox 07 1620EST 0 0 **Hail (0.88)**

Bland County

5 SW Bland 07 1630EST 0 0 **Hail (1.00)**

Grayson County

**7 NW
Independence** 07 1630EST 0 0 **Hail (0.75)**

Giles County

3 S Eggleston 07 1651EST 0 0 **Hail (0.75)**

Giles County

Eggleston 07 1715EST 0 0 **Hail (1.00)**

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<u>VIRGINIA, Southwest</u>									
Pulaski County									
3 W Dublin	07	1715EST			0	0			Hail (1.00)
Giles County									
Pembroke	07	1723EST 1730EST			0	0	0		Thunderstorm Wind
Montgomery									
Mc Coy	07	1725EST 1728EST			0	0	5K		Hail (1.50)
Giles County									
Newport	07	1735EST			0	0			Hail (1.50)
Craig County									
4 NE Paint Bank	07	1740EST			0	0			Hail (0.75)
Craig County									
New Castle	07	1817EST			0	0			Hail (0.75)
Botetourt County									
Gala	07	1830EST			0	0			Hail (0.75)
Wythe County									
Wytheville	07	1840EST			0	0			Hail (1.00)
Wythe County									
Max Meadows	07	1855EST			0	0			Hail (1.50)
Patrick County									
2 E Critz	07	1910EST			0	0			Hail (0.75)
Henry County									
Fieldale	07	1930EST			0	0			Hail (0.75)
Pulaski County									
Belspring	07	1930EST			0	0			Hail (1.75)
Henry County									
Bassett	07	1935EST			0	0			Hail (0.75)
Franklin County									
Sydnorsville	07	1940EST			0	0			Hail (0.75)
Henry County									
2 NE Martinsville City	07	1945EST			0	0			Hail (1.75)
Giles County									
4 S Eggleston	07	2000EST			0	0			Hail (1.00)
Campbell County									
Rustburg	07	2040EST			0	0			Hail (0.75)
Carroll County									
3 E Fancy Gap	07	2135EST			0	0			Hail (0.75)
Roanoke (C)									
Roanoke	07	2215EST			0	0			Hail (0.75)
During the afternoon and evening of the 7th, thunderstorms produced hail up to 1 3/4 inches in diameter and damaging winds.									
Thunderstorm winds downed large tree limbs and power lines in Pembroke.									
A thunderstorm produced hail up to 1 1/2 inches in diameter in McCoy. The hail broke many windows, destroyed vegetation, and dented or stripped siding from homes.									
Carroll County									
Hillsville	13	1320EST			0	0	40K		Lightning
Franklin County									
2 N Rocky Mt	13	1355EST			0	0	3K		Lightning
Lightning during the afternoon of the 13th struck a power substation 2 miles north of Rocky Mount, resulting in 4000 residents losing power, and struck a house in Hillsville causing a fire that gutted much of the interior.									

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VIRGINIA, Southwest

Pittsylvania

2 NW Ringgold **13** **1655EST** **0** **0** **Hail (1.00)**
Late in the afternoon of the 13th, thunderstorms produced hail up to 1 inch in diameter, with hail covering the ground.

Pulaski County

3.5 NE Fairlawn **18** **1612EST** **0** **0** **Hail (0.75)**
Late in the afternoon of the 18th, thunderstorms produced hail up to nickel size.

Montgomery

Countywide **18** **2100EST**
2330EST **0** **0** **2K** **Flash Flood**
On the evening of the 18th, thunderstorms produced very heavy rain resulting in flash flooding.

In Christiansburg, police reported several roads flooded and under 8 to 10 inches of water, and A Crab Creek tributary flooded onto Water Street, with flood waters entering a house through its basement windows. An NWS employee reported flooding on Route 460 in Blacksburg.

WASHINGTON, Northeast

WAZ032

Lower Garfield & Asotin

26 **2200PST** **0** **0** **15K** **Flood**
27 **0200PST**

River rises to above flood stage (20 ft) on the Snake river at Anatone lead to minor flooding, especially along the bike path between Asotin and Clarkston and portions of Hwy 129 north of Asotin were temporarily closed.

WASHINGTON, Northwest

NONE REPORTED.

WASHINGTON, Southeast

Kittitas County

Ellensburg **08** **1200PST** **0** **0** **Dust Devil**
A dust devil peeled off the roof of a mobile home near Ellensburg.

Yakima County

Gleed **09** **1300PST** **0** **0** **0** **0** **Tornado (F0)**
A small tornado briefly touched the ground near Gleed. No damage was reported.

Franklin County

Pasco **15** **1515PST** **0** **0** **Dust Devil**
A dust devil tore shingles and tarpaper off the roof of the Physician's Medical Center in Pasco.

Yakima County

Cowiche to Moxee City **29** **1500PST**
2300PST **0** **0** **Wind**

Strong winds gusting from 20 to 35 mph caused scattered power outages and brush fires in and around Yakima during the afternoon and evening. Wind blown branches hit power lines causing power failures in Moxee, Union Gap, and Yakima. In Moxee, 500 residents lost power for around 90 minutes. A wind driven brush fire burned for around three hours during the evening around the 13000 block of Douglas Road in Yakima. Power fluctuations also occurred in the Union Gap area until 9 o'clock in the evening.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

WVZ048>055

Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy

01 **0000EST** **0** **0** **Drought**
31 **2359EST**

High pressure was the dominant weather feature across the Eastern Panhandle of West Virginia during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. The Palmer Drought Index, a measure of long term drought conditions, indicated the Eastern Panhandle was in a severe drought through the month. May was the 7th month in the past 12 months that precipitation was below normal. The region was a staggering 13 inches below average for precipitation during the period. Monthly rainfall totals across the Eastern Panhandle included 2.6 inches in Pendleton County, 1.9 inches in Grant County, 2.8 inches in Hardy County, 2.5 inches in Mineral and Jefferson County, 1.7 inches in Hampshire County, and 2.4 inches in Morgan County. The lack of precipitation was especially troublesome to the agricultural community. Area farmers reported most pastures were in poor condition and 42% of the hay crop was

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WEST VIRGINIA, East

in poor or very poor condition. 70% of topsoil was reported short or very short of moisture across the state by the last week of the month.

Berkeley County

4 SE Martinsburg

12 1605EST

0 0

Hail (1.00)

Berkeley County

4 SE Martinsburg

12 1605EST

0 0

Thunderstorm Wind (G52)

Jefferson County

Shepherdstown

12 1615EST

0 0

0.50K

Thunderstorm Wind

Tree downed

A thunderstorm producing wind gusts over 55 MPH and large hail moved across the Eastern Panhandle between 5:00 PM and 6:00 PM EDT. One inch diameter hail and an estimated wind gust of 60 MPH were reported by a trained spotter near Route 45 about 4 miles southeast of Martinsburg at 5:05 PM EDT. Emergency management officials in Jefferson County reported a wind gust strong enough to down a large tree in Shepherdstown around 5:15 PM EDT.

Hampshire

Springfield

22 1730EST

0 0

15K

Thunderstorm Wind

Trees downed and siding and roof material blown off homes

Low pressure over the Ohio River Valley produced a line of thunderstorms that moved across the Eastern Panhandle between 6:00 PM and 7:00 PM EDT. The strongest thunderstorms moved across Hampshire County, producing heavy downpours and wind gusts over 55 MPH. Around 6:30 PM EDT several homes and trees were damaged in roughly a 1 1/2 mile radius from the intersection of Route 28 and Greenspring Valley Road in Springfield. Emergency management officials reported siding and roof material removed from homes. Several large trees up to 2 1/2 feet in diameter were uprooted or broken off at the base, and one tree about 2 feet in diameter fell onto a house and car. Springfield received around 2 inches of rain in 45 minutes. Minor street flooding was reported in Romney where 1 inch of rain fell in 20 minutes.

WEST VIRGINIA, North

Monongalia

1 W Morgantown

18 1705EST
1900EST

0 0

Flash Flood

Heavy thunderstorm rains estimated at around 3.0 inches in just over an hour produced minor road flooding along portions of Interstate 79 in the Morgantown area.

WEST VIRGINIA, Southeast

Greenbrier

Anthony

18 1650EST

0 0

Hail (0.88)

On the afternoon of the 18th, thunderstorms produced hail up to nickel size.

Summers County

Countywide

18 1900EST
2330EST

0 0

Flash Flood

Greenbrier

West Portion

18 1958EST
2200EST

0 0

3K

Flash Flood

Mercer County

Bluefield

18 1958EST
2215EST

0 0

Flash Flood

Thunderstorms on the evening of the 18th produced flash flooding.

Heavy rainfall resulted in numerous streams and creeks flooding across Summers County blocking many roads.

In Greenbrier County, Big Clear Creek flooded, washing out a road in Kessler. The firehouse and community building in Rupert was flooded. Numerous small streams and creeks were out of their banks in western Greenbrier County.

In Mercer County, many streets in and around Bluefield were flooded.

WEST VIRGINIA, West

WVZ005>008-

Wayne - Cabell - Mason - Jackson - Lincoln - Putnam - Kanawha - Roane - Mingo - Logan - Boone

01 0000EST
31 2300EST

0 0

Drought

After a dry April, drought conditions resurfaced again during May, after being alleviated during the winter months. Total rainfall during May was only 1 to 2 inches. That's less than half of normal. A few specific amounts included 1.4 inches at Beckley, 1.5

Storm Data and Unusual Weather Phenomena

May 1999

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

WEST VIRGINIA, West

inches in Oak Hill, 1.6 inches for Tornado and Dunlow, 1.7 inches at Man, Winfield, and Southside, 1.9 inches at Huntington and Charleston. Sunshine and low afternoon humidity also contributed to the drying.

Boone County

1 N Madison	18	1525EST			0	0	2K	Thunderstorm Wind
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Large tree branches were blown down.

WISCONSIN, Extreme Southwest

NONE REPORTED.

WISCONSIN, Northeast

Marathon County

7 SW Mosinee	05	1530CST 1533CST			0	0		Funnel Cloud
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Marathon County

(Auw)Wausau Muni Arp	05	1629CST 1630CST			0	0		Hail (0.75)
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Lincoln County

1 WNW Tomahawk	05	1630CST 1631CST	0.1	25	0	0	7.5K	Tornado (F0)
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Marathon County

18 S Wausau	05	1650CST 1652CST			0	0		Hail (0.75)
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Oneida County

3 W Rhinelander	05	1731CST 1732CST			0	0		Hail (0.75)
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An upper low combined with increasing low level moisture and instability to generate thunderstorms across central and north-central Wisconsin. Storms developed and moved north across the area resulting in some severe weather. A funnel cloud was spotted at Big Eau Pleine Park (Marathon county) and a weak tornado touched down near Tomahawk (Lincoln county) knocking down trees and power poles. One tree landed on a house and others landed on vehicles. There were also a few reports of 3/4 inch hail near Wausau (Marathon county) and Rhinelander (Oneida county).

Shawano County

5 WNW Bonduel	16	1615CST			0	0		Lightning
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Lightning set fire to a barn in the town of Waukechon (Shawano county). The barn was destroyed by the fire.

Portage County

Amherst	17	1500CST 1505CST			0	0		Funnel Cloud
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Waupaca County

Marion	17	1550CST 1552CST			0	1		Thunderstorm Wind (G60)
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Shawano County

Pella	17	1623CST 1627CST			0	0		Funnel Cloud
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A cold front moving into north-central Wisconsin, aided by an upper atmospheric system resulted in thunderstorms ahead of the front, across central Wisconsin. Funnel clouds were spotted at Pella (Shawano county) and at Amherst (Portage county). A newspaper reported a "freak wind" as thunderstorms passed through Marion (Waupaca county) knocking down trees and power poles and causing damage to vehicles. The occupant of one of the vehicles was cut by flying glass when the windows were blown out of the car.

Marinette County

5 W Pembine	31	0900CST			0	1		Lightning
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Victim was standing just inside a garage and was leaning against the door frame. Lightning struck and travelled through the door frame until it reached the victim's forearm, which was touching the door frame. It entered through his forearm and exited through his foot causing him to lose feeling in his legs and collapse. He was transported to a hospital where he was treated for some blistering and released.

WISCONSIN, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

May 1999

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									
Iowa County									
3 W Dodgeville	16	1445CST			0	0	1K		Thunderstorm Wind
Sauk County									
Reedsburg	16	1520CST			0	0	1K		Thunderstorm Wind
Iowa County									
Barneveld	16	1530CST			0	0			Hail (1.00)
Dane County									
Blue Mounds	16	1550CST			0	0	1K		Thunderstorm Wind
Dane County									
Madison	16	1612CST			0	0	2K		Thunderstorm Wind
Dane County									
Madison	16	1615CST			0	0	150K		Lightning
Jefferson County									
2 S Lake Mills	16	1638CST			0	0			Hail (1.00)
Waukesha County									
Brookfield	16	1700CST 1900CST			0	0			Urban/Sml Stream Fld
Rock County									
Evansville	16	1715CST 1900CST			0	0			Urban/Sml Stream Fld
Washington									
West Bend	16	1725CST			0	0	4K		Thunderstorm Wind (G52)
Ozaukee County									
Grafton	16	1730CST 1830CST			0	0			Urban/Sml Stream Fld
Racine County									
Waterford	16	1735CST			0	0			Thunderstorm Wind (G56)
Walworth County									
Williams Bay	16	1755CST			0	0	3K		Lightning
Walworth County									
Williams Bay	16	1755CST			0	0	3K		Lightning
Milwaukee County									
Milwaukee	16	1800CST			0	0	4K		Lightning
Milwaukee County									
Milwaukee	16	1800CST			0	0	4K		Lightning
Kenosha County									
Wheatland	16	1825CST			0	0	38K		Thunderstorm Wind
Kenosha County									
Kenosha	16	1830CST 2000CST			0	0			Urban/Sml Stream Fld
Milwaukee County									
Milwaukee	16	1830CST 2100CST			0	0	25K		Flash Flood
Kenosha County									
3 W Kenosha	16	1855CST			0	0	1K		Hail (1.75)
Milwaukee County									
Oak Creek	16	1855CST			0	0	1K		Thunderstorm Wind (G54)
Lafayette County									
2 NE Benton	16	2020CST			0	0			Hail (1.00)
Iowa County									
3 N Dodgeville	16	2100CST			0	0	1K		Thunderstorm Wind
Lafayette County									
South Wayne	16	2122CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

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									
Iowa County									
Countywide	16	2130CST 2359CST			0	0	50K		Flash Flood
Lafayette County									
South Portion	16	2130CST 2359CST			0	0	250K	500K	Flash Flood
Dane County									
2 WSW Oregon to Oregon	16 17	2200CST 0100CST			0	0	100K		Flash Flood
Green County									
Countywide	16 17	2245CST 0100CST			0	0	120K	600K	Flash Flood
Rock County									
Janesville	16	2310CST			0	0	40K		Lightning
Rock County									
Janesville	16	2310CST			0	0	40K		Lightning
Rock County									
1 S Emerald Grove	17	0007CST			0	0	75K		Thunderstorm Wind (G61)
Rock County									
Janesville	17	0025CST			0	0	175K		Thunderstorm Wind
Dane County									
Madison	17	0040CST			0	0	110K		Lightning
Walworth County									
Walworth to La Grange	17	0040CST			0	0	3K		Thunderstorm Wind
Washington									
West Bend	17	0040CST			0	1	35K		Lightning
Waukesha County									
Oconomowoc	17	0120CST			0	0	2K		Lightning
Milwaukee County									
Greenfield	17	0130CST			0	0	50K		Lightning
Jefferson County									
Jefferson	17	0200CST 0500CST			0	0	30K		Flash Flood

Late afternoon thunderstorms rumbled across southern Wisconsin producing classic severe weather damage in many locations. There were numerous reports of wind damage to trees and power lines, large hail, and lightning. One injury was reported when lightning struck a man in Washington county in the city of West Bend. The havoc increased in intensity overnight, mainly in the form of flooding.

Several counties had urban/small stream flooding thanks to 2 to 3 inch rainfalls that left water 1 to 3 feet deep in low spots on roads and underpasses. But flash flooding also developed...with 5 to 7 inches measured in the southern third of Lafayette county during the overnight hours. Several Lafayette County roads had pavement and/or shoulder washouts, and several others were closed. The area around Oregon in Dane county received 4.8 inches in 6 hours, between 11pm and 5 am. Eighteen Oregon homes sustained damage, with 12 homes of them evacuated. There were some road washouts in the Oregon area due to flash flooding. In Green county the Sugar River at Brodhead rose 3.13 feet over the 5 foot flood stage, and was above flood stage through May 21st. The Pecatonica River near Martintown in southwest Green County rose 5.49 feet over its flood stage of 11 feet. It was above flood stage through the 26th of the month. In addition, 5 bridges were washed out near the city of Brooklyn. Rainfall amounts across Green County were in the 3 to 5 inch range. The city of Jefferson in Jefferson county measured 4.1 inches of rain in 2 hours, a 100 year rainfall for that location. The resultant flash flood damaged the interior and exterior of 5 schools which were all closed on the 17th. The southwest part of the city of Milwaukee experienced a flash flood that completely flooded underpasses, stalled dozens of vehicles, caused hillside erosion, undermined some roads, and caused a 10 vehicle crash at the I-43 and Highway 100 intersection. Spotty, county-wide road washouts and severe erosion were noted in Iowa County due to local flash flooding in the wake of 3 to 5 inches of rain within 2 to 3 hours.

Along with the heavy rains a microburst with winds estimated at 70 mph caused minor damage to several homes near Emerald Grove (Rock Co.) and collapsed a farm outbuilding. Another downburst struck the south side of Janesville (Rock Co.), damaging the roofs of 3 businesses, flipping over 3 storage tanks, and overturning a semi truck. The powerful downburst winds which hit the Wheatland area (Kenosha Co.), damaged a school roof, and then damaged a roof and window of a home across the street.

Storm Data and Unusual Weather Phenomena

May 1999

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

WISCONSIN, Southeast

Lightning in the Madison area (Dane Co.) resulted in one serious home fire, and damage to 5 vehicles at a car dealership. Four Milwaukee (Milwaukee Co.) homes were struck by lightning and experienced minor fires. In the city of Janesville, lightning started a fire in an apartment building. In West Bend (Washington Co.) lightning struck a home under construction, resulting in a significant fire. There were other scattered reports of lightning striking homes or businesses, resulting in minor fires. At one time or another, about 13,000 electrical customers in southcentral and southeast Wisconsin were without power due to lightning striking lines or transformers.

WISCONSIN, Southwest

Crawford County

Prairie Du Chien 16 1358CST 0 0 Hail (0.75)

Crawford County

6 S Prairie Du Chien 16 1401CST 0 0 20K Hail (1.75)

Grant County

Bagley 16 1401CST 0 0 15K Hail (1.00)

Grant County

Wyalusing 16 1401CST 0 0 20K Hail (1.75)

Crawford County

13 E Prairie Du Chien 16 1415CST 0 0 35K Thunderstorm Wind (G54)

Grant County

Bagley 16 1415CST 0 0 15K Thunderstorm Wind (G52)

Grant County

Patch Grove 16 1415CST 0 0 Hail (0.75)

Grant County

Blue River 16 1437CST 0 0 10K Thunderstorm Wind (G54)

Richland County

Richland Center 16 1440CST 0 0 20K Thunderstorm Wind (G55)

Grant County

Bloomington 16 1535CST 0 0 Hail (0.75)

Grant County

Kieler 16 2010CST 0 0 Hail (0.75)

Grant County

Kieler 16 2014CST 0 0 25K Hail (1.00)

Spotters and law enforcement officials reported hail as large as golfballs and wind gusts between 60 and 65 mph. Several trees and power lines were downed as a result.

Grant County

South Portion 16 2055CST 0 0 200K 80K Flash Flood
17 0100CST

2 to 5 inches of rainfall forced the evacuation of a trailer park near Platteville when several feet of water rushed under mobile homes. Coon Branch Creek near Benton flooded a nearby park, causing damage to a ball field, a concession stand and a couple of bridges. The flood waters also swept away a 500 gallon gasoline tank as well as a car, which floated nearly 100 yards down the creek before coming to rest in some trees.

WISCONSIN, West

NONE REPORTED.

WYOMING, Central and West

Hot Springs

Kirby 13 1405MST 0 0 Hail (1.00)
1408MST

Big Horn County

Hyattville 13 1410MST 0 0 Funnel Cloud

Washakie County

14 SSE Ten Sleep 13 1514MST 0 0 Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Central and West</u>									
Washakie County									
12 SSE Ten Sleep	13	1515MST			0	0			Hail (0.75)
Natrona County									
Natrona	19	1650MST			0	0			Hail (1.50)
Natrona County									
Paradise Vly	19	1725MST			0	0			Hail (1.00)
Natrona County									
6 W Casper	19	1740MST			0	0			Hail (1.00)
Natrona County									
Casper	19	1745MST			0	0			Thunderstorm Wind (G52)
Natrona County									
Casper	19	1750MST			0	0			Hail (0.75)
Natrona County									
Casper	19	1802MST			0	0			Hail (2.00)
Natrona County									
Casper	19	1805MST			0	0			Thunderstorm Wind (G57)
<u>WYOMING, Extreme Southwest</u>									
NONE REPORTED.									
<u>WYOMING, North Central</u>									
WYZ098 Northeast Bighorn Mountains									
	15	1100MST 1900MST			0	0			Heavy Snow
The Sheridan County sheriff office reported up to 10 inches of snow fell in the Northeast Big Horn mountains. Burgess Junction picked up 8 inches of new snow.									
Sheridan County									
Sheridan	21	1740MST			0	0			Hail (0.75)
<u>WYOMING, Northeast</u>									
WYZ054 Gillette									
	05	1200MST 1600MST			0	0			High Wind (G52)
A slow moving low pressure system moved to the east of the region and created strong northwest winds for several hours.									
Campbell County									
10 W Wright	15	1308MST			0	0			Thunderstorm Wind (G61)
Campbell County									
10 N Wright	15	1315MST			0	0			Hail (1.75)
Crook County									
5 S Moorcroft	15	1415MST			0	0			Hail (1.75)
Crook County									
12 E Moorcroft	21	1445MST			0	0			Hail (1.75)
Crook County									
5 SW Sundance	21	1520MST			0	0			Hail (1.00)
Weston County									
14 SW Newcastle	21	1534MST			0	0			Hail (1.75)
Weston County									
Osage	21	1555MST			0	0			Hail (1.00)
Weston County									
Osage	21	1615MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
WYOMING, Southeast									
WYZ060-069>070 Niobrara - Cheyenne Foothills - Pine Bluffs									
	06	0630MST 1745MST			0	0	6K		High Wind (G54)
		High winds were reported over extreme southeastern Wyoming for much of the day. Winds of 35 to 45 mph were common, with gusts to 62 mph reported at Pine Bluffs, WY.							
Converse County									
Glenrock	19	1830MST 1834MST			0	0			Hail (1.50)
Goshen County									
Lingle	21	1515MST 1519MST			0	0			Hail (0.75)
		3/4 inch hail reported 12 miles north of Lingle, WY							
Laramie County									
Cheyenne	30	1225MST 1235MST	0.2	50	0	0	2K		Tornado (F0)
		Tornado briefly touched down on the extreme north edge of Cheyenne, blowing out two windows and causing minor roof damage to a house on Riding Club Road.							
Laramie County									
Hillsdale	30	1311MST 1315MST			0	0			Hail (1.00)
		1 inch hail fell near Hillsdale, WY							
Laramie County									
Hillsdale	30	1315MST 1318MST			0	0	10K		Hail (1.75)
Laramie County									
Burns	30	1334MST 1336MST			0	0			Hail (0.75)
Laramie County									
Pine Bluffs	30	1347MST 1350MST			0	0			Hail (1.00)
		1 inch hail fell 8 miles north of Pine Bluffs, WY							
Laramie County									
Pine Bluffs	30	1354MST 1400MST			0	0			Hail (0.75)
		3/4 inch hail accumulated up to two inches deep in and around Pine Bluffs, WY							
Platte County									
Wheatland	31	1108MST 1115MST	0.1	30	0	0			Tornado (F0)
		Weak tornado reported on north edge of Wheatland							
Platte County									
Wheatland	31	1120MST 1124MST			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 Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Anoka County

Ramsey	15	1550CST			0	0			Lightning
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House struck by lightning.

Goodhue County

Stanton	15	2045CST			0	0			Lightning
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2 horses killed by falling tree hit which was hit by lightning.

Renville County

Hector	27	2250CST			0	0			Hail (1.25)
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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)
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Mcleod County

2 SW Hutchinson	27	2330CST			0	0			Hail (1.75)
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Rice County

Lonsdale	27	2355CST			0	0			Hail (0.75)
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Dakota County

5 SE Farmington	28	0000CST			0	0			Hail (1.00)
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Dakota County

5 S Lakeville	28	0018CST			0	0			Hail (0.75)
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Dakota County

10 SW Hastings	28	0051CST			0	0			Thunderstorm Wind (G52)
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Goodhue County

Kenyon	28	0121CST			0	0			Thunderstorm Wind (G55)
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Trees blown down. Estimated windspeed.

Storm Data and Unusual Weather Phenomena

June 1998

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

PENNSYLVANIA, West

Fayette County

4 SE Indian Head to 4.3 SE Indian Head	02	2000EST 2002EST	0.3	50	0	0	10K		Tornado (F0)
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A weak F0 tornado touched down in extreme eastern Fayette County. Damage was confined to sheared/uprooted trees. However, this tornado continued to intensify as it moved east, obtaining an intensity of F3 as it moved into Somerset County PA. The tornado weakened slightly to an F2 as it clipped the extreme northeast tip of Garrett County MD, but then intensified to an F4 as it moved into Allegany County MD, causing significant damage in the town of Frostburg.

Storm Data and Unusual Weather Phenomena

January 1999

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

ARKANSAS, East

Lawrence County

Walnut Ridge	21	1605CST 1610CST			0	0	0.01K		Hail (0.75)
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Greene County

1 S Evening Star to 1 N Beech Grove	21	1630CST 1635CST	4	50	0	0	75K		Tornado (F1)
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A tornado touched down near Evening Star and continued northeast toward Beech Grove. At least twelve homes were damaged or destroyed. A church was also badly damaged.

Cross County

Hickory Ridge	21	1633CST 1638CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down near Hickory Ridge producing little damage. While the tornado produced little damage, the storm killed hundreds of geese who were killed by the winds and hail accompanying the tornado.

Greene County

Light	21	1635CST 1640CST			0	0	25K		Thunderstorm Wind
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One business lost its roof. Several trees were blown down.

Clay County

1 E Knobel to 2 S Mc Dougal	21	1645CST 1705CST	12	50	0	0	5K		Tornado (F0)
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The tornado started east of Knobel and continued northeast. The tornado may have come up and down several times. One home had damage to its roof and porch south of the town of Walnut Grove.

Clay County

4 SE Knobel to 3 SE Mc Dougal	21	1705CST 1730CST	16	400	0	0	1M		Tornado (F4)
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The tornado started southeast of Knobel and tracked northeast. The most serious damage occurred early in the life of the tornado. Two homes were destroyed on County Road 238. Several other homes were damaged. Two trailer trucks were rolled over. As the tornado continued east it gradually diminished in intensity. Several trees and power lines were knocked down along the way.

Craighead County

Jonesboro	21	1715CST 1720CST			0	0	0.10K		Hail (1.00)
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Lee County

Garret	21	1725CST 1730CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down near Garret Grove producing minimal damage.

St. Francis County

Goodwin	21	1725CST 1730CST	0.1	10	0	0	0.10K		Tornado (F0)
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A tornado briefly touched down in Goodwin with some damage reported.

St. Francis County

2 S Wheatley to 4 W Hawkins	21	1730CST 1750CST	16	200	0	9	500K		Tornado (F2)
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The tornado moved into the extreme southwest corner of St. Francis county from Monroe county. It touched down several times and then lifted back into the air. The most severe damage occurred in and near Wheatley. Thirteen homes were completely demolished and six other homes sustained structural damage. Further along its path, the tornado hit a farm about 4.5 miles northeast of Wheatley. The farmhouse lost part of its roof. Two or three machine sheds were demolished, several other outbuildings were damaged, grain storage bins were flatted and blown several hundreds of feet away and irrigation equipment suffered extensive damage.

Lawrence County

1 W Hoxie	21	1800CST 1805CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down just west of Hoxie producing little damage.

Storm Data and Unusual Weather Phenomena

January 1999

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

ARKANSAS, East

Cross County

Cherry Vly	21	1815CST 1820CST			0	0	0.75K		Hail (1.75)
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St. Francis County

1 W Colt	21	1815CST 1820CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down just west of Colt producing minimal damage.

Poinsett County

Tyronza	21	1828CST 1835CST			0	0	0.01K		Hail (0.75)
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Lawrence County

4.5 SE Saffell to 1 SW Clover Bend	21	1836CST 1850CST	8	25	0	0	10K		Tornado (F0)
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The tornado moved into Lawrence county from Jackson county. Several trees were knocked down by the tornado.

Clay County

1 E Palatka to 2 E Palatka	21	1850CST 1855CST	1	75	0	0	50K		Tornado (F1)
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The tornado started east of Palatka and travelled northeast. Several homes were damaged in the area.

Crittenden County

Gilmore	21	1900CST 1905CST			0	0	0.05K		Hail (0.88)
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Lawrence County

1 NW Walnut Ridge	21	1905CST 1910CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down just northwest of Walnut Ridge producing minimal damage.

Clay County

4 E Datto to 3 SW Moark	21	1925CST 1940CST	7	100	0	0	8M		Tornado (F2)
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The tornado developed east of Datto and moved northeast. Several homes were badly damaged. Several hangars were destroyed and some planes were destroyed at the Corning airport.

Randolph County

Pocahontas	21	2000CST 2130CST			0	0	1K		Urban/Sml Stream Fld
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Some street flooding occurred in Pocahontas due to heavy rains.

Craighead County

2 S Lanieve to 2 NE Lanieve	21	2010CST 2020CST	5	10	0	0	0.10K		Tornado (F0)
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The tornado started south of Lanieve and moved northeast. Little damage occurred with this tornado.

St. Francis County

Forrest City	21	2038CST 2045CST			0	0	0.10K		Hail (1.00)
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Greene County

Marmaduke	21	2050CST 2055CST	0.1	10	0	0	5K		Tornado (F0)
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A tornado briefly touched down near Marmaduke knocking a few trees and power lines down.

Craighead County

4 SW Egypt to 1 N Egypt	21	2055CST 2105CST	5	25	0	0	50K		Tornado (F0)
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The tornado started southwest of Egypt and moved northeast into Lawrence county. Two residences were destroyed. An antenna was blown down.

Lawrence County

7 SW Sedgwick to 5 SW Sedgwick	21	2105CST 2110CST	2	25	0	1	10K		Tornado (F0)
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Storm Data and Unusual Weather Phenomena

January 1999

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

ARKANSAS, East

The tornado that started near Egypt in Craighead county continued to move northeast into Lawrence county. The tornado damaged one home in Lawrence county. A farm shop was destroyed.

Craighead County

1 N Jonesboro to 4 N Jonesboro	21	2120CST 2130CST	3	20	0	0	0.10K		Tornado (F0)
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The tornado started just north of Jonesboro and moved northeast. The tornado produced little damage.

Craighead County

3.5 NW Lake View to 5 N Lake View	21	2140CST 2150CST	2.5	20	0	0	5K		Tornado (F0)
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The tornado started in the northeast corner of Craighead county near the town of Dixie and travelled northeast into Greene county. Several trees were knocked down by the tornado.

Greene County

Schug to 3 NE Schug	21	2150CST 2200CST	3	20	0	0	10K		Tornado (F0)
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The tornado that started in northeast Craighead county moved into Greene county near the town Schug and continued northeast. a couple of houses suffered structural damage in Schug. Several trees were also knocked down.

Mississippi County

Wilson	21	2155CST 2200CST	0.1	10	0	0	0.05K		Tornado (F0)
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A tornado briefly touched down near Wilson producing little damage.

Craighead County

2 SW Bay to 1 N Bay	21	2200CST 2210CST	3	20	0	0	5K		Tornado (F0)
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The tornado started just southwest of Bay and tracked northeast missing the town. Several trees were blown down by the tornado.

Craighead County

Bay	22	0300CST 0600CST			0	0	1K		Flash Flood
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Heavy rains during the evening hours produced scattered flash flooding in the Bay and Moline areas. Several roads were flooded during the early morning hours.

Mississippi County

Manila	22	0300CST 0600CST			0	0	1K		Flash Flood
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Heavy rains during the evening hours produced scattered flash flooding across the county. Several roads were flooded during the early morning hours.

Poinsett County

Countywide	22	0300CST 0600CST			0	0	1K		Flash Flood
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Heavy rains during the evening hours produced scattered flash flooding across the county. Several roads were flooded during the early morning hours.

St. Francis County

1 NE Forrest City	22	0345CST 0350CST			0	0	5K		Thunderstorm Wind
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A few large trees were knocked down.

Phillips County

West Helena	22	0405CST 0410CST			0	0	35K		Thunderstorm Wind
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Thirty mobile homes were damaged. An outbuilding was also damaged and a fence was wrapped around a tree. A house under construction had the outer frame blown off. A parked 18-wheeler was blown over.

Crittenden County

West Memphis	22	0530CST 0535CST			0	0	1K		Thunderstorm Wind
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Several large tree limbs were knocked down.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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January 1999

ADDITIONS/CORRECTIONS

CALIFORNIA, Upper

Siskiyou County

Montague

10 1305PST

0 0

Tstm Wind/Hail

See below.

Based on WSR-88D data, a Severe Thunderstorm Warning was issued for central Siskiyou county at 1305 PDT and expired at 1354 PDT.

Storm Data and Unusual Weather Phenomena

March 1999

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

ILLINOIS, Northwest

ILZ001>002-007-009-015>018-024>026-034>035 **Jo Daviess - Stephenson - Carroll - Whiteside - Rock Island - Henry - Bureau - Putnam - Mercer - Henderson - Warren - Hancock - McDonough**

08	1600CST			0	0			Winter Storm
	2300CST							

A powerful late season winter storm pulled out of the Rockies and into the Mid Mississippi Valley producing a large swath of significant snowfall throughout Eastern Iowa and Northwest and West Central Illinois. Snowfall amounts generally ranged between 6 and 8 inches. Thunder and lightning accompanied the snow over East Central Iowa and West Central Illinois which enhanced snowfall totals. 9 to 12 inches of snow fell over much of Cedar, Scott, Rock Island, Henry Illinois, Bureau and Putnam counties. Law enforcement agencies were scrambling to deal with accidents ranging from fenderbenders to jackknifed semis, though no serious injuries were reported. The snow forced early closings of many area shopping malls, schools and businesses. Many remained closed on Tuesday. The University of Iowa and Iowa State University cancelled classes on Monday. It marked the first time the University of Iowa cancelled classes since 1995. Also, flights were delayed and cancelled at The Quad City International Airport. Winds of 20 to 30 mph with gusts to 40 mph created blowing and drifting of snow with visibility near zero at times making snow removal difficult.

TEXAS, Central Southeast

Grimes County

Carlos	08	1425CST		0	0	15K	Hail (1.75)
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Trinity County

Trinity	12	0155CST		0	0	7K	Hail (0.75)
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Houston County

Weches	12	1105CST		0	0	10K	Hail (1.00)
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Burleson County

Chriesman	12	2140CST		0	0	7K	Hail (0.75)
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Burleson County

Caldwell	12	2200CST		0	0	7K	Hail (0.75)
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Brazos County

Bryan	12	2227CST		0	0	10K	Hail (1.00)
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Walker County

20 W Huntsville	12	2310CST		0	0	7K	Hail (0.75)
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Hail report along Hwy. 30 near Grimes Co. line

Trinity County

Sebastopol	12	2355CST		0	0	50K	Thunderstorm Wind
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Trees down, power poles snapped, barn/porch damage in center of Sebastopol

Trinity County

Sebastopol	13	0100CST		0	0	15K	Hail (1.75)
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Montgomery County

Magnolia	13	0140CST		0	0	15K	Thunderstorm Wind
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Trees and power lines down

Harris County

Tomball	13	0145CST		0	0	15K	Thunderstorm Wind
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Trees down

Polk County

Countywide	13	0225CST		0	0		Flash Flood
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Several roads flooded...TX Hwy 146, and interchange of US 59 and FM 393

Harris County

Houston	13	0230CST		0	0	25K	Thunderstorm Wind
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Roof damage along Rankin Rd.; reports of 50-60 mph winds throughout northern part of city

Storm Data and Unusual Weather Phenomena

March 1999

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

TEXAS, Central Southeast

Polk County

Countywide	13	0240CST 0535CST			0	0	100K		Flash Flood
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Several county roads washed out east of Livingston

Liberty County

Dayton	13	0250CST			0	0	100K		Thunderstorm Wind
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Several large diameter trees down; trees fell on trailer home in Dayton Oaks subdivision

Liberty County

Ames	13	0340CST			0	0	15K		Thunderstorm Wind
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Trees down

Harris County

Cypress	19	0425CST			0	0	15K		Hail (1.00)
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Harris County

Cypress	19	0425CST	0.3	25	0	0	25K		Tornado (F0)
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Tornado in Cypress. Roof damage, trees uprooted and fences blown down

Harris County

Southwest Portion	19	0835CST 1215CST			0	0	300K		Flash Flood
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Widespread flooding in southwest Houston. Numerous streets in the Alief and Bellaire areas flooded. Several accessways to US 59, Loop 610, and US 90 as well as the intersection of I-10 and Beltway 8 flooded and impassable. Several cars flooded out. Radar estimates of up to 6.5 inches of rain near intersection of Bellaire Blvd. and Beltway 8.

Houston County

Grapeland	24	2324CST			0	0	10K		Hail (1.00)
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Houston County

9 W Crockett	24	2354CST			0	0	15K		Hail (1.75)
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Golfball hail in Belot

Houston County

.5 N Grapeland	24	2355CST			0	0	10K		Hail (1.00)
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Trinity County

Pennington	25	0040CST			0	0	25K		Thunderstorm Wind
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Trees/power lines down in Pennington

Brazoria County

8 SE Angleton	28	0435CST	0.3	25	0	0	50K		Tornado (F0)
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Tornado between Angleton and Oyster Creek. Barn destroyed in storm.

Storm Data and Unusual Weather Phenomena

April 1999

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

COLORADO, West

COZ005

Upper Yampa River Basin/Steamboat Springs And Vicinity

22	2030MST				0	0	30K		High Wind (G80)
23	0600MST								

Strong northeast winds resulting from a low pressure system downed utility poles and many pine trees in an area extending from the north edge of Steamboat Springs to about 10 miles northeast of Steamboat Springs. At least 6 houses were damaged and 2 sheds were destroyed. Automated wind systems well to the west of the damage area measured wind speeds to 59 MPH.

ILLINOIS, Northwest

Rock Island County

4 W Illinois City	03	1050CST			0	0			Hail (0.75)
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Rock Island County

Rock Is	03	1125CST 1300CST			1	0			Urban/Sml Stream Fld
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Two to three inches of rain fell in one hour to cause localized flooding of streets and houses from 3rd Street and River Drive in Davenport to 9th Street and 17th Avenue in Rock Island. A fatality occurred when a 39 year old male drove from dry ground into the flooded intersection of 5th Avenue and 40th Street in Rock Island. The victims car began floating and became lodged underneath a railroad viaduct, at which time he left his vehicle and was swept away. The water depth underneath the railroad viaduct was estimated at six to seven feet.

M391W

Henry County

3 W Orion	03	1200CST			0	0			Thunderstorm Wind (G54)
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Thunderstorm winds blew down a metal pole building, several power poles and a dozen hog houses.

Hancock County

Basco	05	1820CST			0	0			Funnel Cloud
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McDonough County

2 SW Good Hope to 1 W Good Hope	05	1830CST 1832CST	0.5	100	0	0			Tornado (F0)
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McDonough County

1 W Good Hope to 1 N Good Hope	05	1832CST 1834CST	0.4	100	0	0	5K		Tornado (F2)
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McDonough County

1 W Good Hope to 5 N Good Hope	05	1834CST 1839CST	5.5	100	0	0	0.50K		Tornado (F1)
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Warren County

2.5 SW Swan Creek to Swan Creek	05	1839CST 1842CST	2	100	0	0	3K		Tornado (F1)
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Warren County

Swan Creek to 1 N Swan Creek	05	1842CST 1845CST	0.6	100	0	0	8K		Tornado (F2)
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The tornado first touched down along Highway 9 southwest of Good Hope snapping several trees. From there the tornado moved northeast across Town Fork Creek damaging several trees in a densely wooded area and snapping two large trees along a county road. Damage along this path was rated F0.

As the tornado continued northeast it moved through plowed farmland and approached a homestead along north-south county road west of Good Hope. The house sustained no structural damage, but several outbuildings suffered substantial damage. An older concrete block hog house was destroyed while the roof and sides of a new machine shed were torn off. A grain bin was blown about 500 yards from the home site into a neighboring field. Damage along this path was rated F2.

For the next several miles the tornado tracked through plowed farmland snapping a few trees and blowing over several fences. The tornado then approached US Highway 67 just south of the McDonough-Warren County line.

The tornado snapped two very large oak trees at a homestead with one landing on the house. It continued on a northeast track snapping several trees and damaging a roof on a homestead just south of the county line. Damage along this path was rated F1.

Storm Data and Unusual Weather Phenomena

April 1999

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

ILLINOIS, Northwest

The tornado then crossed from McDonough county into Warren county just east of highway 67. As the tornado continued northeast it hit a group of farm buildings north of the county line. Three of the buildings sustained major damage. A corn crib was blown on it's side while the roof of a barn and shed were destroyed. Damage along this path was rated F1.

The tornado tracked into the south side of Swan Creek destroying a grain elevator. Just northeast of the elevator the walls of a concrete block machine shop were blown in and the building was completely destroyed.

As is continued northeast it toppled several trees and antennae. Other damage in Swan Creek included two porches torn off homesteads and two roofs lifted, but not pulled off homesteads. Damage along this path was rated F2.

The tornado continued northeast and lifted just north of town.

Hancock County

.5 W Warsaw to Hamilton	08	1735CST 1752CST	5.5	200	0	0	5M	Tornado (F2)
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Hancock County

Hamilton to 1 NE Hamilton	08	1752CST 1756CST	2	200	0	4	10M	Tornado (F3)
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Hancock County

Hamilton	08	1900CST			0	0		Urban/Sml Stream Fld
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A tornado developed just west of Warsaw in Hancock County and produced F2 damage to homes in the south part of the community. 2 homes were destroyed while another 30 structures suffered damage, including the high school track and football field and fairgrounds. Trees and branches were blown down in many parts of town.

The tornado moved northeast into Hamilton where F3 damage occurred. The tornado destroyed or damaged 144 homes and businesses amounting to 10 million dollars in total damage. 4 people suffered minor injuries. The KHQA-TV tower and KOKX radio tower were destroyed. Governor George Ryan declared Hancock County a state disaster area. The tornado weakened and lifted just northeast of Hamilton. Strong thunderstorms continued over much of Hamilton County in the wake of the tornado producing torrential rain and water over various roads in town.

Henderson County

Biggsville	08	1825CST			0	0		Hail (0.88)
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Hancock County

2 N La Harpe to 3 NE La Harpe	08	1835CST 1837CST	1	10	0	0		Tornado (F0)
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Henderson County

2 SE Terre Haute to 3 E Raritan	08	1837CST 1849CST	4	10	0	0		Tornado (F0)
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Storm Data and Unusual Weather Phenomena

April 1999

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

ILLINOIS, Northwest

Warren County

5 SW Roseville to 1 N Berwick	08	1849CST 1905CST	15	10	0	0			Tornado (F0)
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Warren County

4 E Roseville	08	1900CST			0	0			Urban/Sml Stream Fld
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Henry County

Galva	08	1930CST			0	0			Funnel Cloud
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Henry County

Galva	08	1935CST			0	0			Thunderstorm Wind (G58)
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A second tornado spawned by the same storm, which produced the Hamilton tornado, touched down in extreme northeast Hancock County south of Terra Haute. The tornado tracked northeast through Henderson County and into Warren County passing 3 miles east of Raritan. The tornado weakened and lifted north of Berwick in Warren County. Damage along the path was scattered and rated F0. An aluminum sided farm shed had part of the roof and wall torn off 2 miles north of Roseville. The storm which produced the tornado was embedded within a line of severe thunderstorms which swept across southeast Iowa and west central Illinois during the early evening. Nickel to jelly bean size hail was reported in Biggsville and Gladstone as the line moved across Henderson County. A funnel cloud was also reported in Galva in Henry County along with winds gusting to 60 mph. Very heavy rain also caused water to cover portions of US highway 116 east of Roseville in Warren County.

Bureau County

Wyanet	10	1351CST			0	0			Hail (1.00)
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Bureau County

2 N Princeton	10	1355CST			0	0			Hail (0.75)
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Bureau County

Walnut	10	1355CST			0	0			Hail (1.00)
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An isolated severe thunderstorm developed over Bureau County during the afternoon and produced hail to 1 inch in diameter and 50 mph winds in Wyanet and Walnut.

Henry County

Kewanee	22	1530CST			0	0			Hail (0.75)
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Warren County

2 S Monmouth	22	2050CST	0.1	10	0	0			Tornado (F0)
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Severe thunderstorms brought hail..gusty winds and heavy rain to portions of Henry and Warren Counties. 3/4 inch hail was reported in Kewanee in Henry County while a tornado was spotted south of Monmouth in Warren County. No damage was reported with the tornado and was rated an F0.

IOWA, East Central and Southeast

Buchanan County

Fairbank	03	0210CST			0	0			Thunderstorm Wind (G54)
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Seven power poles were blown down.

Jackson County

Maquoketa	03	0758CST			0	0			Hail (0.75)
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Scott County

Davenport to Bettendorf	03	1125CST 1300CST			0	0			Urban/Sml Stream Fld
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Two to three inches of rain fell in one hour to cause localized flooding of streets and houses from Davenport to Bettendorf. Several vehicles stalled in the flooded intersections of 3rd Street and River Drive in Davenport, and Middle Road and Stafford Boulevard in Bettendorf. Duck Creek stayed in its banks though the water levels rose three feet.

Iowa County

North English	03	1530CST			0	0			Hail (1.75)
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Iowa County

Williamsburg	03	1550CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

April 1999

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

IOWA, East Central and Southeast

Jefferson County

1 W Batavia 08 1725CST 0.1 10 0 0 **Tornado (F0)**

Jefferson County

7 W Pleasant Plain 08 1725CST 0.1 10 0 0 **Tornado (F0)**

Keokuk County

5 S Richland 08 1738CST 0 0 **Funnel Cloud**

Lee County

1 S Keokuk 08 1742CST 0 0 **Hail (0.75)**

Benton County

Vinton 08 1745CST 0 0 **Thunderstorm Wind (G64)**

Benton County

Vinton 08 1745CST 0 0 **Thunderstorm Wind (G70)**

Scott County

New Liberty 08 1745CST 0 0 **Thunderstorm Wind (G60)**

Keokuk County

Richland 08 1750CST 0 0 **Funnel Cloud**

Lee County

Keokuk 08 1800CST 0 0 **Thunderstorm Wind (G65)**

Washington County

Washington 08 1805CST 0 0 **Urban/Sml Stream Fld**

Washington County

1 NE Kalona 08 1830CST 0 0 **Funnel Cloud**

Cedar County

Sunbury 08 1930CST 0 0 **Thunderstorm Wind (G75)**

Scattered severe thunderstorms moved across portions of eastern Iowa during the late afternoon and early evening producing two tornadoes, several funnel clouds and very heavy rain. The two tornadoes were reported in Jefferson County west of Batavia and west of Pleasant Plain. No damage was reported with either tornado and both were rated F0.

Strong winds downed trees on railroad tracks in Keokuk in Lee County and caused minor damage to a farmhouse in Vinton in Benton County. A power pole and lines were also toppled by strong winds in New Liberty in Scott County. Strong winds also were responsible for destroying a farmstead including an old barn and crib house in Sunbury in Cedar County. Locally heavy rain accompanied the storms as they moved through Washington County causing street flooding.

TEXAS, Central Southeast

Walker County

New Waverly 03 1525CST 0 0 15K **Hail (1.00)**

Walker County

4 N New Waverly 03 1542CST 0.3 25 0 0 25K **Tornado (F0)**

Tornado 4 miles north of New Waverly. Trees down along US 75 and the highway was closed.

San Jacinto County

Pointblank 03 1615CST 0 0 25K **Thunderstorm Wind**
Trees down

Montgomery County

Willis 03 1617CST 0 0 10K **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

April 1999

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

TEXAS, Central Southeast

Montgomery County

Willis	03	1617CST	0.3	25	0	0	30K		Tornado (F0)
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Tornado near Willis. Trees down in area and mobile home damaged in Walnut Creek subdivision.

Polk County

Corrigan	03	1641CST			0	0	10K		Hail (0.75)
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San Jacinto County

Countywide	03	1745CST			0	0	100K		Flash Flood
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04 0230CST
Significant flooding throughout the county including in the Shepherd area at Red Road, and in the Drews Landing, Regency Forest, Sherwood Forest and Cherry Creek areas. Rainfall totals include 8.5" at Camilla, 6.5" at Shepherd, 3.6" at Pointblank, and 3.5" at Evergreen. Some roads washed out in the county.

Polk County

Countywide	03	1805CST			0	0	150K		Flash Flood
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04 0230CST
Significant flooding throughout the county. People evacuated from neighborhood around Choates Creek in Livingston. Water up to 3 feet high reported in some homes along 1st and 2nd Streets and McCardell Lane in Livingston. Pickup truck flipped over in same area. Several feet of water reported on US 59. Rain total of 8.45" in less than 4 hours at Lake Livingston Dam.

Montgomery County

Conroe	14	0745CST	0.3	50	0	0	250K		Tornado (F0)
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Tornado along US 75 (Frazier Street) near the intersection of SH 336 in Conroe. Most damage confined to 4 businesses in the Wood Creek shopping center.

Montgomery County

Conroe	14	0810CST			0	0	50K		Thunderstorm Wind
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Roof damage to auto/truck repair shop along SH 336 just west of I-45 and north of Loop 105 in Conroe.

Brazos County

Bryan	26	0855CST			0	0	12K		Hail (0.88)
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Brazos County

Bryan	26	0855CST			0	0	15K		Thunderstorm Wind
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Trees down along FM 1179 near Carter Rd., Old Reliance Rd., Carrabba Rd., and Grassbur Rd.

Brazos County

College Station	26	0855CST			0	0	10K		Hail (0.75)
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Hail also reported at Wixon Valley

Burleson County

12 SW Somerville	26	0920CST			0	0	25K		Hail (1.75)
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Washington County

Brenham	26	0920CST			0	0	12K		Hail (0.75)
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UTAH, East

UTZ027

Arches

	09	0915MST 0945MST			0	0	2K		High Wind (G60)
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Strong winds associated with a cold front blew the metal roof off a park service building at Arches National Park and also blew out windows of a vehicle in the visitors parking area.

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the G indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

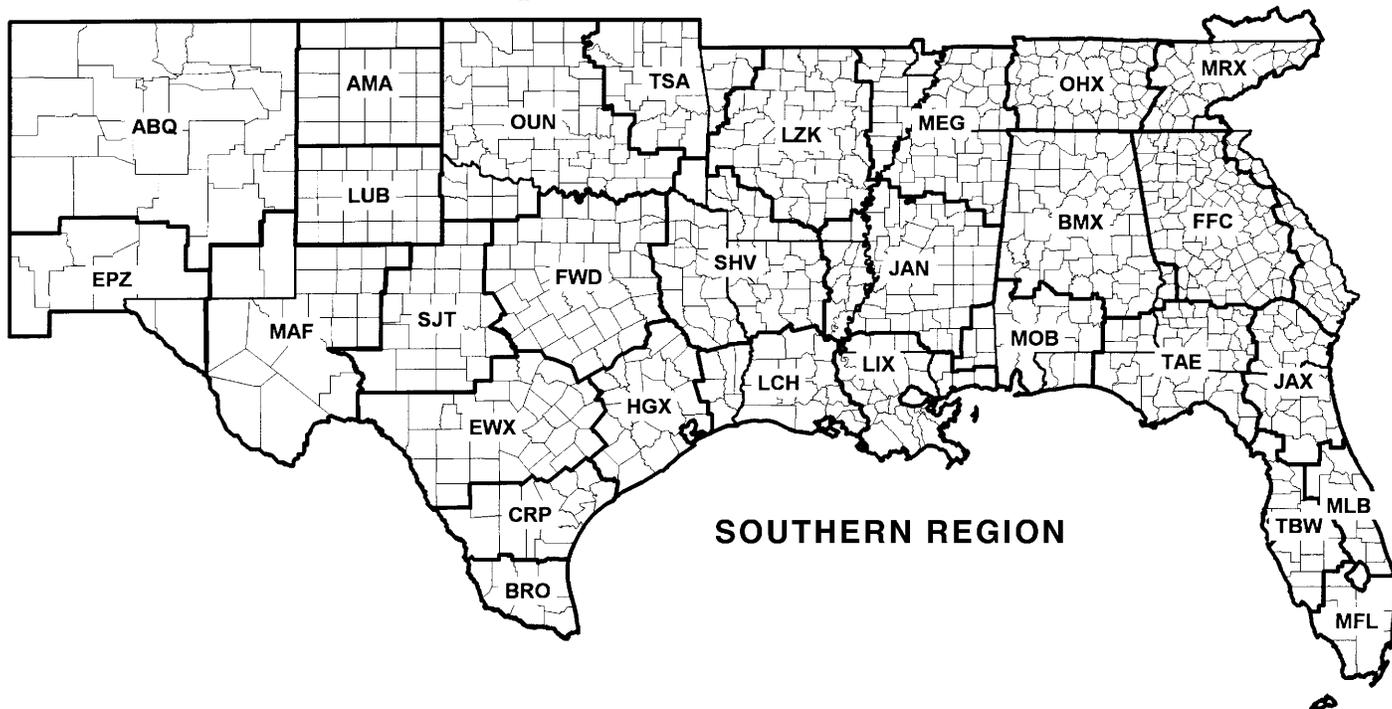


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

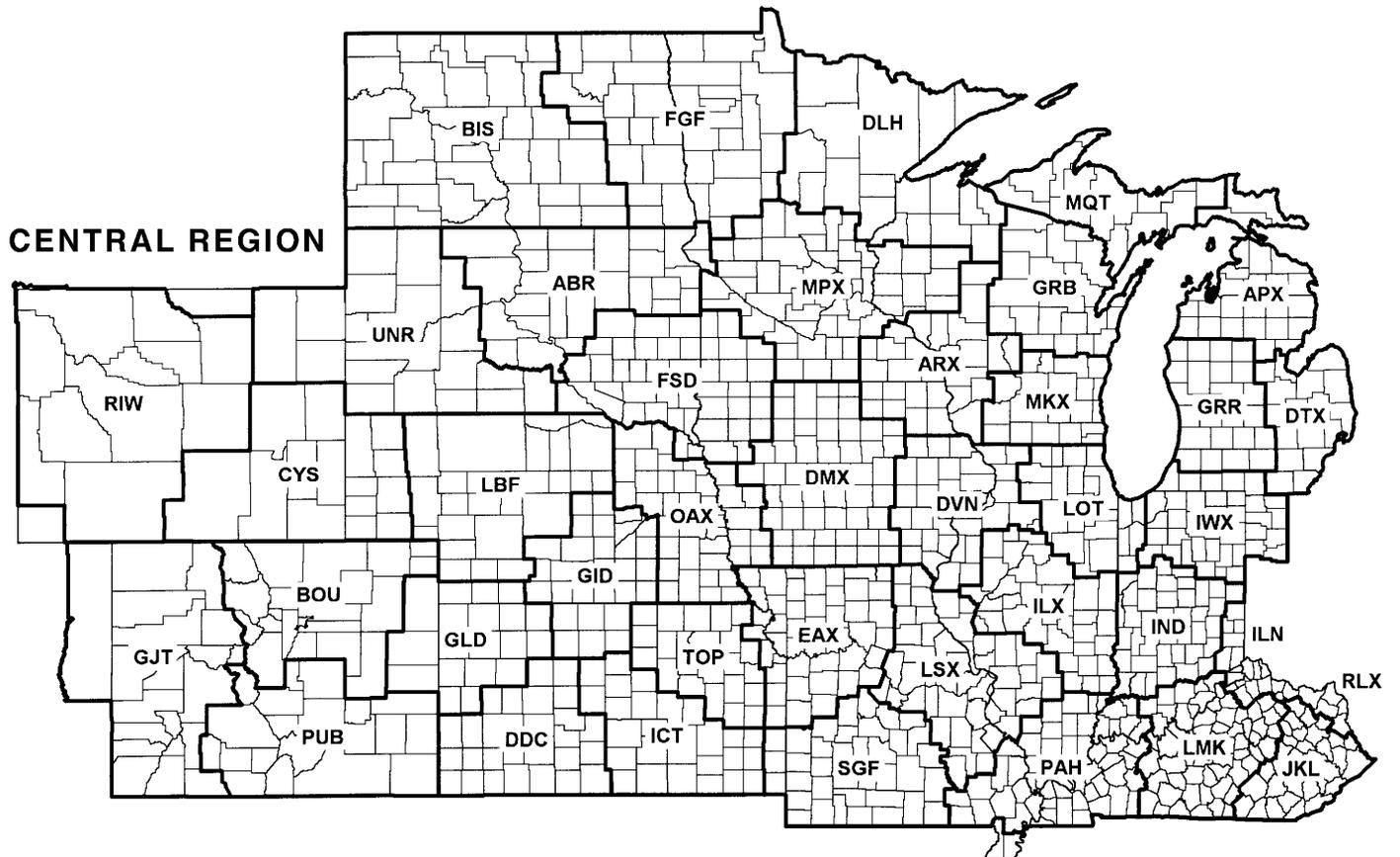
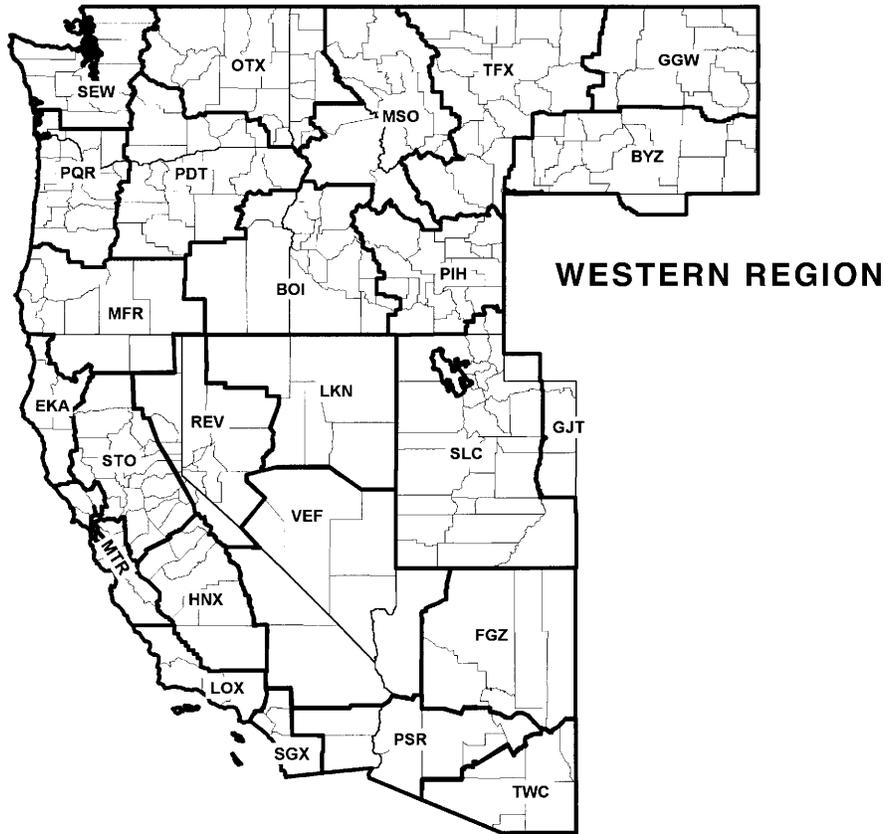


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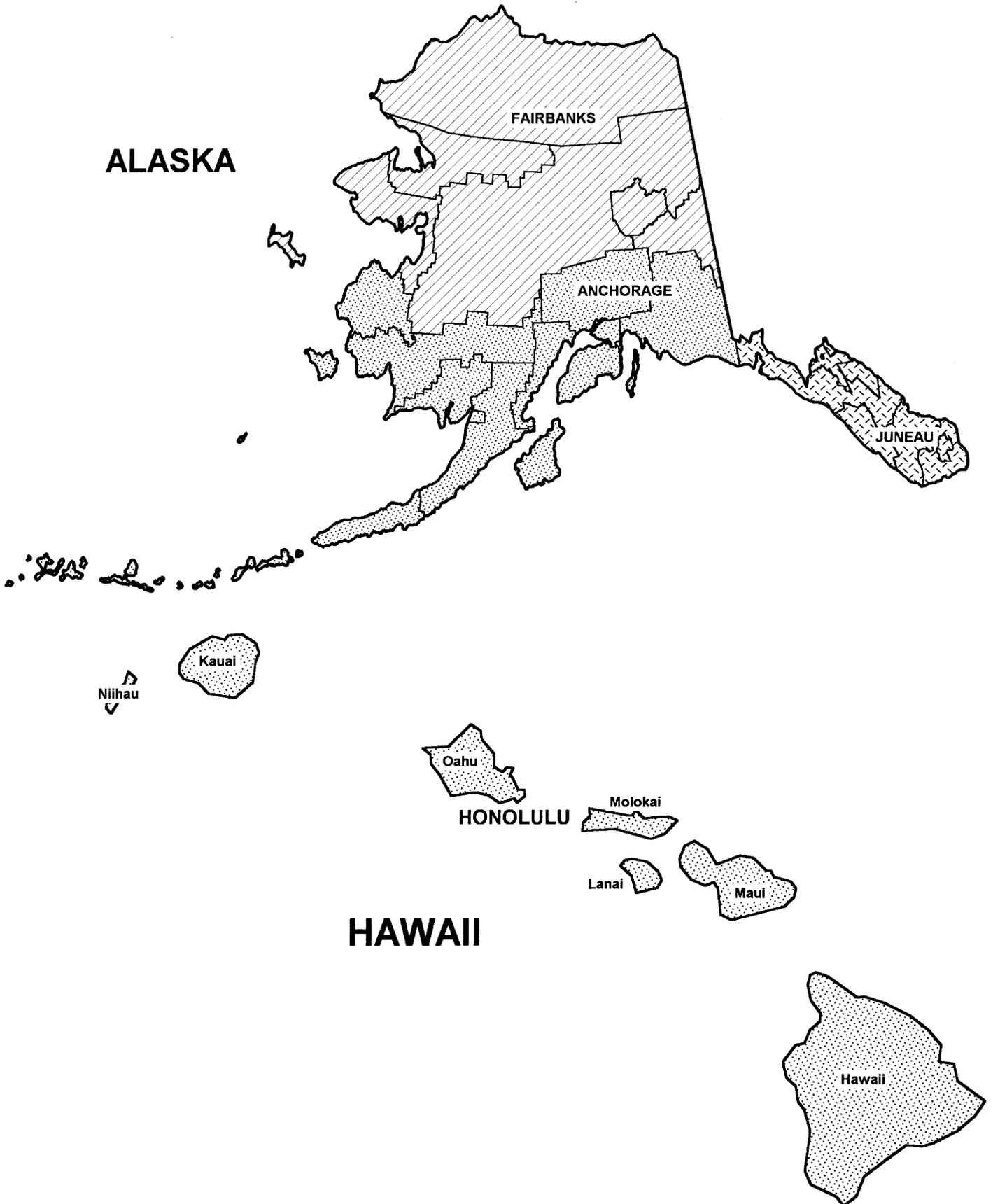


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MODERNIZED COUNTY WARNING AREAS



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