

JUNE 1997
VOLUME 39
NUMBER 6

STORM DATA



AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS



noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

Cover: Damage caused by an F-2 tornado in Muhlenburg County, Kentucky on June 13, 1997. The debris (center foreground) is the remnants of a mobile home that was in the path of the tornado. Two people in the structure were injured. See page 6 for further details. (Photo courtesy of Michael York, National Weather Service, Paducah, Kentucky)

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STORM DATA

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National Climatic Data Center

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

Stuart Hinson
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151 Patton Avenue
Asheville, NC 28801-5001

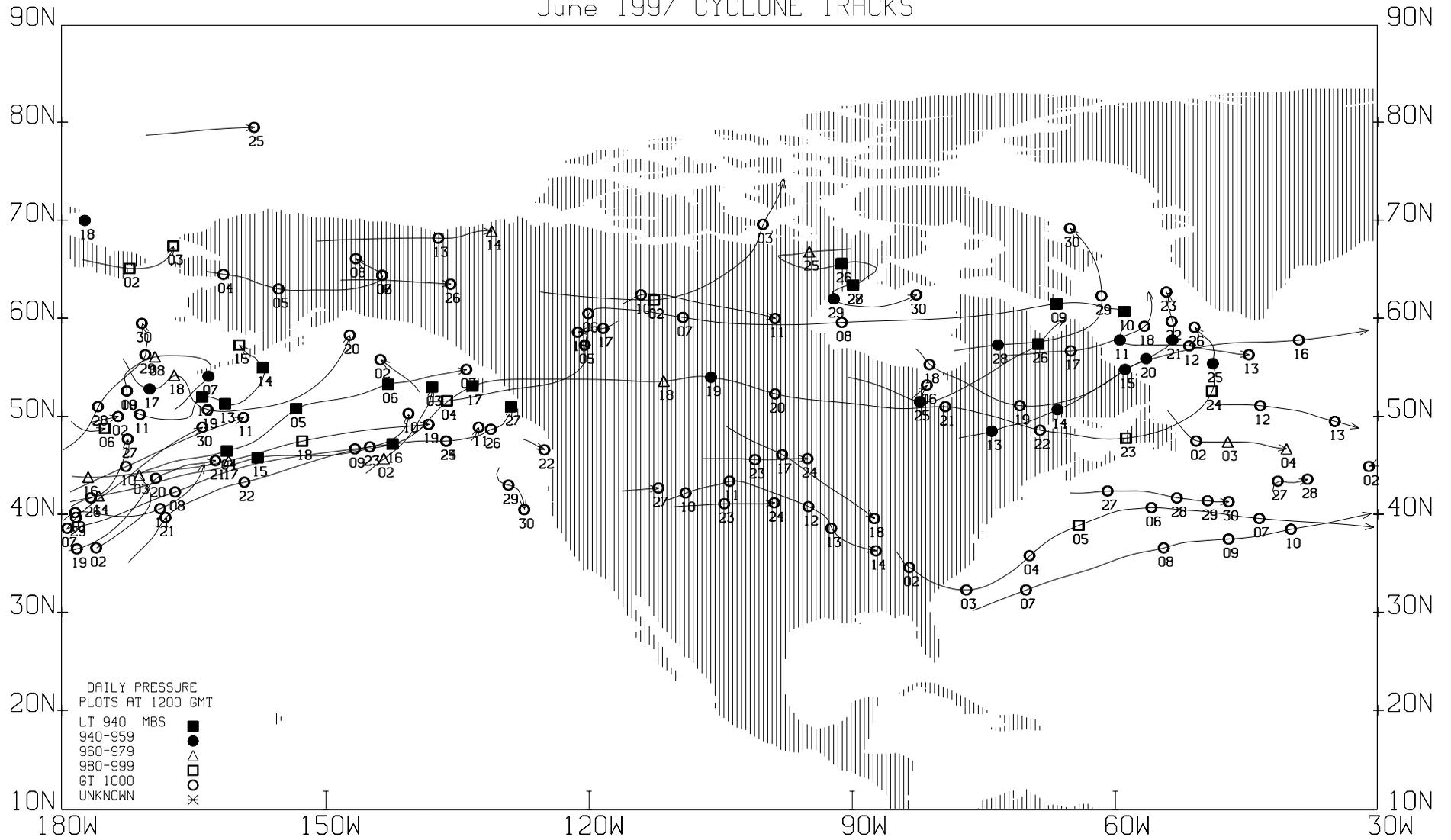
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"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733."

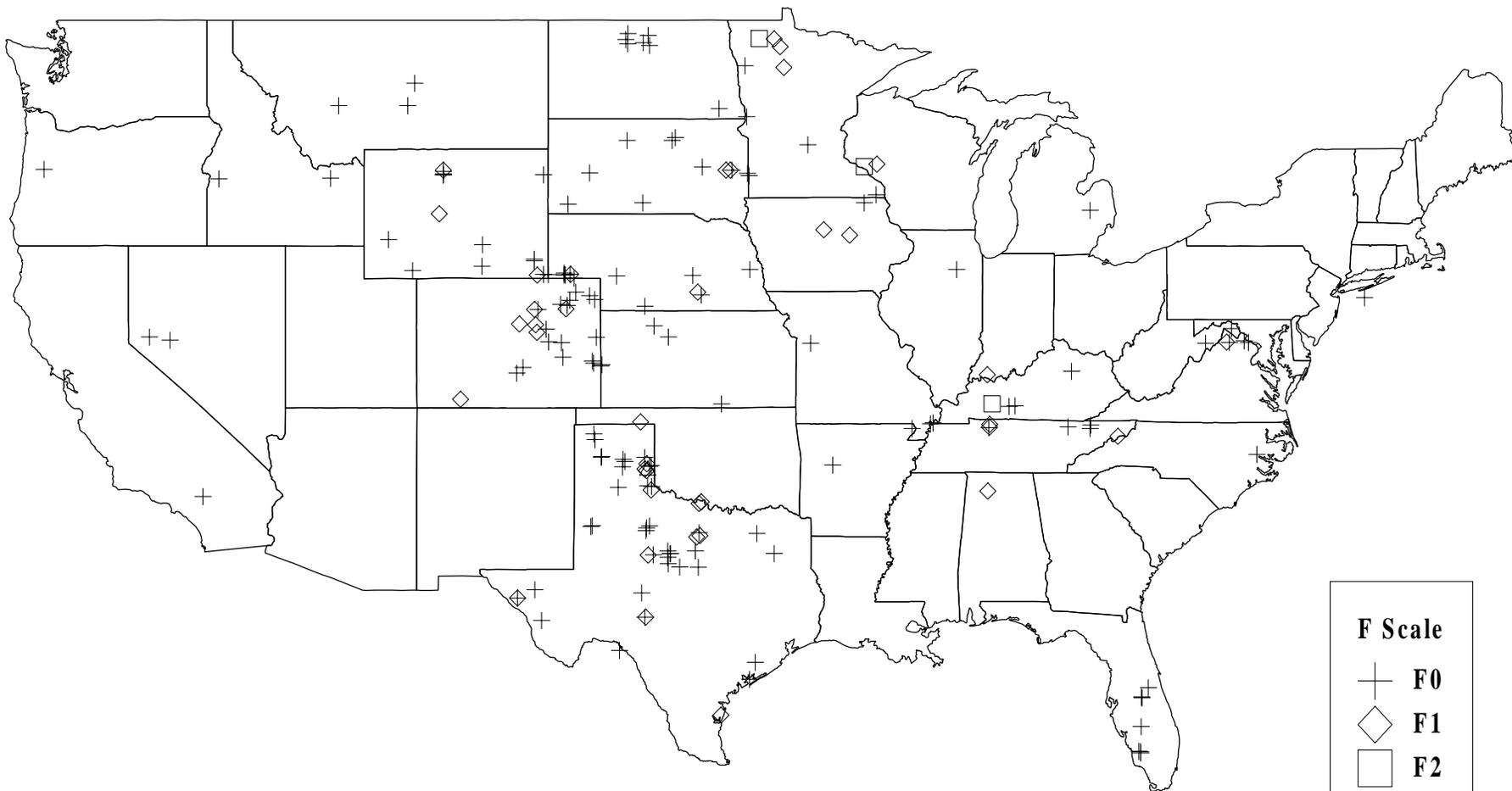


Kenneth D. Davidson
Acting Director,
National Climatic Data Center

June 1997 CYCLONE TRACKS



June 1997 Confirmed Tornadoes



4

F Scale	
+	F0
◇	F1
□	F2
△	F3
○	F4
★	F5

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	141	38	3	1	0	0	183

OUTSTANDING STORMS OF THE MONTH

1. THUNDERSTORM WINDS DOWN TREES IN DAVENPORT, IA

During the early morning hours of Saturday, June 21, 1997, a line of severe thunderstorms developed and moved east across eastern Iowa and northwest Illinois. The storms generated very strong wind gusts and the National Weather Service Office located at the Davenport, IA airport estimated wind speeds in excess of 80 mph with gusts over 90 mph. In Davenport, some family members who were attending a weekend reunion camped outdoors within close proximity to a stand of large Silver Maple trees. The fully matured trees suffered extensive damage when 90+ mph winds occurred about 4:20 AM CST. One of the larger trees (29 to 37 inches in diameter) snapped off 10 to 15 feet above the ground and fell onto a tent that contained four children. One 12 year old child was killed instantly and two other children suffered injuries, one with a fractured leg, and the other with cuts to the face and neck area.



Left: A close up picture of the area where the tree broke. The diameter of the tree at this point is about 36 inches.

(Photo courtesy of Jim Meyer, WCM, National Weather Service, Davenport, IA)

Right: Another view of the tree which landed on the tent. Note the distance between the remaining trunk on the left and the tree on the right.

(Photo courtesy of Jim Meyer, WCM, National Weather Service, Davenport, IA)





Left: The trunk section remains firmly rooted in the ground. This healthy Silver Maple tree was literally “blown apart” by the 90+ mph winds.

(Photo courtesy of Jim Meyer, WCM, NWS, Davenport, IA)

2. TORNADOES TOUCH DOWN IN KENTUCKY AND INDIANA

A Supercell thunderstorm developed on June 13, 1997 and formed an F2 (wind speeds 113 - 112 mph) tornado in Muhlenberg County, KY near the town of Greenville about 5:17 PM CST. The tornado tracked northeast through a mostly unpopulated area. A mobile home was lifted off its foundation and dropped about 75 feet away. A log home lost its roof and the two occupants inside were slightly injured. Several other homes received minor damage. Total damage amounts have been estimated near \$120K. Another tornado was spawned on the 17th, just north of Evansville, Indiana. The tornado was classified an F1 (wind speeds 73 - 112 mph) tornado by the National Weather Service based on the type and amount of damage. This tornado occurred in a heavily populated area causing the damage amounts to be much higher than the F2 earlier in the week. Property damage was estimated near \$500K.



Left: The second tornado touched down in an area of dense population. Most damage occurred when trees fell onto homes. The damage seen here was typical of the extent of damage to the area.

(Photo courtesy of Michael York, National Weather Service, Paducah, KY)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Colbert County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Franklin County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Jackson County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Lauderdale County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Lawrence County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Limestone County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Madison County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Marshall County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
Morgan County Countywide	01 30	0000CST 2359CST			0	0	0	50K	Heavy Rain
A month of rainfall took it's toll on the cotton crop across the Tennessee valley and many farmers were forced to plow the crop under due to the wet weather. Tobacco and corn crops were also hit hard by the overly wet weather.									
Lawrence County 3 N Wheeler	13	1404CST			0	0	3K	0	Hail (0.75)
Three-quarter inch hail was reported near Wheeler.									
Limestone County Ripley	13	1417CST			0	0	6K	0	Thunderstorm Wind (G50)
Limestone County Tanner	13	1425CST			0	0	6K	0	Thunderstorm Wind (G50)
Limestone County Elkmont	13	1434CST			0	0	6K	0	Tstm Wind/Hail
Limestone County Athens	13	1441CST			0	0	6K	0	Thunderstorm Wind (G50)
Several large trees were down in various locations across Limestone county.									
Madison County Huntsville	13	1540CST			0	0	6K	0	Thunderstorm Wind (G52)
A thunderstorm knocked down power lines in Huntsville.									
Talladega County Talladega	13	2002CST			0	0	9K	3K	Hail (2.75)
Quarter to baseball sized hail was reported just north of Talladega.									
Franklin County Russellville	14	0010CST			0	0	3K	0	Hail (0.75)
Three-quarter inch hail fell in Russellville.									
Marshall County Horton	14	0100CST			0	0	7K	0	Lightning
During an early morning thunderstorm, lightning struck a tree next to a mobile home and traveled into the home through the wiring and blew the telephone off the wall and blew out two TV sets.									
Chambers County Lafayette	14	1205CST			0	0	6K	0	Hail (1.75)
Golf ball sized hail was reported by the EMA.									
Russell County Ft Mitchell	14	1500CST			0	0	5K	0	Thunderstorm Wind (G50)
A few trees were down in the Fort Mitchell area.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
ALABAMA, North Central									
Colbert County 2 W Leighton to 1 E Leighton	16	1208CST 1211CST	3	50	0	1	100K	5K	Tornado (F1)
A tornado touched down near the intersection of Sockwell Lane and CR 22 and moved nearly due east causing damage to five houses in the area where it first touched down and to the high school near the end of the track. One person was injured when he fell down the stairs heading to shelter. Several trees were also downed. Several storage sheds were destroyed, too.									
Limestone County 8 S Athens	16	1305CST			0	0	7K	0	Thunderstorm Wind (G50)
Trees were down south of Athens.									
Franklin County 2 E Russellville	16	1400CST			0	0	3K	0	Hail (0.75)
Three-quarter inch hail was reported just east of Russellville.									
Franklin County Russellville	16	1455CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported by several spotters.									
Morgan County Eva	16	1523CST			0	0	5K	0	Thunderstorm Wind (G50)
Morgan County Somerville	16	1528CST			0	0			Thunderstorm Wind (G50)
Trees were reported down near Eva and were also outside the State Dispatch office in Somerville.									
Shelby County Harpersville	16	1527CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported near Harpersville.									
Walker County Nauvoo	16	1540CST			0	0	7K	0	Thunderstorm Wind (G50)
Several reports were received of trees down in Nauvoo, in extreme northern Walker County.									
Tallapoosa County 5 W Newsite	16	1740CST			0	0	3K	0	Hail (0.75)
Tallapoosa County Newsite	16	1755CST			0	0	7K	0	Thunderstorm Wind (G56)
Penny sized hail was reported just west of New Site. Winds were estimated to be 65 to 70 mph and caused several power outages across the city.									
Lowndes County Ft Deposit	16	1835CST			0	0	3K	0	Hail (0.75)
Three-quarter inch hail was reported near Fort Deposit.									
Tallapoosa County 5 S Alexander City	16	1840CST			0	0	6K	0	Thunderstorm Wind (G50)
Tallapoosa County 5 W Dadeville	16	1843CST			0	0	5K	0	Hail (1.00)
Campers were damaged in Wind Creek State Park and quarter sized hail was reported near Smith Mountain on Lake Martin.									
Marshall County Albertville	17	0900CST 1100CST			0	0	12K	0	Flash Flood
Several inches of rain fell in a short period of time and caused an earthen dam to partially break, several roads to flood and a mobile home to almost wash away. There was a foot of water in many locations.									
Jefferson County 4 SW Warrior	17	1134CST			0	0	3K	0	Hail (0.75)
Three-quarter inch hail was reported near the New Bethel community, in the northern part of the county.									
St. Clair County Pell City	17	1245CST			0	0	6K	0	Thunderstorm Wind (G50)
Large limbs and a few trees were down in Pell City and Moody, in the southern part of the county.									
Clay County Ashland	20	1400CST			0	0	8K	0	Lightning
The steeple on the First United Methodist Church was struck by lightning resulting in damage to a sound system and a computer. The steeple and cross were also damaged. Time estimated.									
Autauga County Marbury	20	1700CST			0	0	7K	0	Tstm Wind/Hail
Penny sized hail and small trees were reported down near Marbury, in the northeast part of the county.									

Storm Data and Unusual Weather Phenomena

June 1997

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

Lawrence County

Moulton	21	1200CST 1600CST			0	0	15K	0	Flash Flood
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Almost one inch of rain fell in about an hour over saturated grounds causing flooding in many locations. Several home had water inside, up to 12 inches. Several businesses in downtown were also flooded. There were also a few roads under water.

Chilton County

8 NW Jemison	21	1400CST			0	0	3K	0	Hail (0.75)
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Three-quarter inch hail was reported in the northwest part of the county along CR 73.

Blount County

Oneonta	22	0200CST 0500CST			0	0	10K	0	Flash Flood
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The Blount County EMA reported a few roads under water, and a Piggly Wiggly store had several inches of water in it as well as two other businesses.

Lawrence County

10 S Moulton	28	1535CST			0	2	45K	0	Lightning
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Lightning struck near a site where amateur radio operators had assembled to participate in a nationwide activity called Field Day. A thunderstorm that developed nearby produced lightning that apparently struck very close to the site where towers, antennas, a tent, and several campers were set up. The lightning damaged a number of pieces of computer and radio equipment as well as a portable generator. Two people, one in contact with a metal table and one in contact with a metal chair sustained minor burns from the incident.

Walker County

Jasper	28	2000CST			0	0	15K	0	Flash Flood
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Several inches of rain fell over already saturated grounds and flooding resulted. Water was two feet deep in a few locations. A few businesses were flooded, and cars were stranded when trying to cross the flooded roadways. Several roads had to be blocked off for over two hours, including 18th and 19th Street, and a section of Old US 78.

Pickens County

Gordo	30	1730CST 1900CST			0	0	25K	0	Flash Flood
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Heavy rains forced the evacuation of between 7 and 10 families from their homes off US 82 in Gordo. Heavy rain also damaged a portion of Preacher Street.

Tuscaloosa County

Tuscaloosa	30	1800CST 1830CST			0	0	8K	0	Lightning
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Lightning struck a house in Teal Circle and Rose Towers at the University of Alabama. Damage was described as light at both locations. Lightning also struck a tree and a dog at the Bear Creek Trail Park, killing the dog.

ALABAMA, Southeast

Houston County

Webb	13	1512CST			0	0			Hail (0.75)
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Dime sized hail was reported by county EMA.

Houston County

Ashford	13	1535CST			0	0			Hail (0.75)
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County EMA reported dime sized hail.

ALABAMA, Southwest

Mobile County

Eight Mile	05	1400CST 1430CST			0	0	1K		Flash Flood
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Several streets around Eight Mile were flooded with up to two feet of water. Several secondary roads off of US HWY 45 had to be closed for a short time until water receded. Radar estimated that 3 to 5 inches of rain fell in this area in a two hour period.

Baldwin County

5 S Ft Morgan	07	0830CST 0845CST			0	0			Waterspout
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Several waterspouts were reported just offshore of Ft Morgan. Several people observed the spouts as a fishing rodeo was going on along the Alabama coast. The waterspouts never got near land and dissipated after about fifteen minutes.

Mobile County

Citronelle	18	0600CST			0	0	0.50K		Tstm Wind/Hail
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Winds estimated at 45 to 50 mph blew down a few trees just west of Citronelle near AL HWY 217 and CR 21. Some limbs were blown down in the community of Citronelle.

Escambia County

Brewton	20	1235CST 1237CST			0	0	1K		Tstm Wind/Hail
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An outflow boundary from a thunderstorm moved through the Brewton area. Winds of 45 to 50 mph blew down a few pecan trees

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
<u>ALABAMA, Southwest</u>								
near Brewton.								
Baldwin County								
Stockton	20	1415CST			0	0	1.5K	Thunderstorm Wind (G50)
Several trees and power lines were blown down near a boat landing west of the Stockton community.								
Mobile County								
Citronelle	20	1425CST 1427CST			0	0		Hail (0.75)
Dime size hail was reported in the Citronelle community.								
Mobile County								
Citronelle	20	1540CST 1542CST			0	0	1K	Thunderstorm Wind (G50)
Several trees were blown down east of the Citronelle community.								
Washington County								
St Stephens	22	2015CST 2020CST			0	0		Hail (0.75)
A state trooper reported marble to dime size hail near the St Stephens community.								
Baldwin County								
10 N Seminole	27	1525CST 1526CST			0	0	0.50K	Tstm Wind/Hail
A sheriff's deputy reported a few pecan trees blown down onto CR 87 just north of I-10. The deputy estimated winds of 45 to 50 mph.								
<u>ALASKA, Northern</u>								
Fairbanks/Tanana Valley								
Fairbanks	08	1913AST 1958AST			0	0	2M	Tstm Wind/Hail
A Thunderstorm moved from north of downtown Fairbanks, southwest over the west part of the city. Rainfall of 1.31 to 2.17 occurred, much of it in less than an hour. Hail of 1/4 to 3/8 inch diameter was common, with some spots receiving stones of 3/4 to 7/8 inch diameter. Hail covered the west half of town and in some places was two to six inches deep. Some residence basements were flooded, and brief urban flooding occurred in town where storm drains backed up from the hail. The Sewage system backed up at several buildings at the University of Alaska, including the Rare Books section of the Library. Water and Hail ponding on the roofs of some larger buildings leaked into the structures, or caused a part of the roof to fall, including a high school and a restaurant attached to a hotel. An art gallery in one mall declared their stock a total loss. Wind gusts felled trees across town (a dozen just at the University), resulting on power outages in some areas - downtown Fairbanks was without power for 80 minutes.								
AKZ003								
Upper Yukon Valley								
	15	0430AST			0	0		Flood
	21	1700AST						
Rain of up to 3.8 inches during the 12th through 15th caused significant rises in streams over the zone. Several homes were flooded at Chalkyitsik on the Black River, and a road at Fort Yukon had some minor flooding near the confluence of the Porcupine and Sucker Rivers.								
<u>ALASKA, Southeast</u>								
AKZ013								
Central Southeast Alaska								
	01	0000AST			0	0		None
<u>ALASKA, Southern</u>								
AKZ020								
Kodiak Island-Eastern Alaska Peninsula								
	01	0000AST			0	0		Drought
	30	2359AST						
Driest June on record...0.67 inches. Old record was .70 inches in 1978.								
AKZ022								
Eastern Aleutians								
	21	1200AST			0	0		High Wind (G52)
	22	2000AST						
A moderate frontal system just east of Kamchatka brought brisk southerly winds to the western half of the Aleutians late Saturday through Sunday. Shemya reported gusts to 60 mph.								
Ck Inlt Susitna(C) / Homer(C)								
Soldotna to Chickaloon	24	1800AST			0	0		Lightning
State Forestry personnel reported cloud to ground lightning in Cooper Landing Tuesday evening. This was the first time that any forestry officials can remember lightning in that area. This storm touched off a fire at Juneau Lake, along the Resurrection Pass Trail (north of Cooper Landing). Also, another thunderstorm near Hope Tuesday evening dumped "a lot of rain" while also starting a fire near Hope due to lightning.								

Storm Data and Unusual Weather Phenomena

June 1997

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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ALASKA, Southern

AKZ021

Western Alaska Peninsula

28	0000AST 1200AST				0	0			High Wind (G40)
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A moderate front moving northeast through the Aleutians was preceded by brisk southeast winds. At Cold Bay, where winds are channelled by terrain, gusts reached 46 mph at 8:37pm Saturday.

AMERICAN SAMOA

NOT RECEIVED.

ARIZONA, Central and Northeast

NONE REPORTED.

ARIZONA, Northwest

Mohave County

Kingman

06	1805MST				0	0	100K		Thunderstorm Wind
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Damaging thunderstorm winds whipped through Kingman tearing half the roof from a motel and downing several trees and power poles.

ARIZONA, South

Graham County

Safford

06	1154MST 1210MST				0	0	60K		Thunderstorm Wind
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A severe thunderstorm that moved through Safford knocked down 6 power poles, blew part of a roof off a house , broke off several large tree limbs, and damaged several other structures.

Pima County

Mt Lemmon

06	1345MST 1355MST				0	0			Hail (0.75)
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A severe thunderstorm dropped up to dime size hail turning the ground white.

Cochise County

3 N Pearce

06	1403MST 1407MST				0	0			Hail (0.75)
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A severe thunderstorm dropped 3/4 inch hail.

ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Franklin County

Charleston

12	0615CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed some trees.

Pulaski County

10 NW Little Rock

13	1812CST				0	0			Hail (1.00)
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Scott County

Waldron

13	1835CST				0	0			Hail (0.75)
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Polk County

2 W Mena

13	1900CST				0	0			Hail (0.75)
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Faulkner County

4 S Conway

13	1945CST				0	0			Hail (0.75)
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Johnson County

Knoxville to .2 NE Knoxville

16	0549CST 0551CST	0.2	20		0	0			Tornado (F0)
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An F0 tornado touched down on the southwest side of the town of Knoxville. The tornado moved to the northeast and quickly lifted about 0.20 of a mile northeast of Knoxville. The only damage noted along the path of the tornado was several trees that were blown down. A couple of outbuildings were also destroyed.

Scott County

Waldron

16	1808CST				0	0			Hail (0.75)
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Scott County

Parks

16	1843CST				0	0			Hail (1.75)
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Scott County

Parks

16	1848CST				0	0			Hail (2.50)
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Hot Spring County

1 S Malvern

16	2030CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down 50 to 60 trees, destroyed some storage sheds and blew windows out of a few buildings.

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Hot Spring County Malvern	16	2035CST			0	0			Hail (1.00)
Hot Spring County Malvern	16	2043CST			0	0			Hail (1.50)
Hot Spring County 8 NE Malvern	16	2048CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees and power lines.
Grant County Ico	16	2110CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees.
Jefferson County Whitehall	16	2131CST			0	0			Hail (0.75)
Jefferson County Redfield	16	2205CST			0	0			Hail (0.75)
Prairie County De Valls Bluff	16	2300CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees.
Arkansas County De Witt	16	2310CST			0	0			Thunderstorm Wind (G50)
									Several trees were blown down.
Monroe County Clarendon	16	2315CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed a number of trees and destroyed 10 mobile homes. No injuries were reported.
Pike County Daisy	26	2000CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down trees and power lines at Daisy State Park.
Jackson County 4 W Tuckerman	27	1330CST			0	0			Hail (0.88)
Marion County 5 NW Bull Shoals	27	1335CST			0	0			Hail (0.88)
Boone County Lead Hill	27	1350CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees.
Baxter County Buford	27	1420CST			0	0			Thunderstorm Wind (G50)
									Several trees were blown down.
Baxter County 2 S Mountain Home	27	1430CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees.
Izard County Horseshoe Bend Arprt	27	1522CST			0	0			Thunderstorm Wind (G50)
									Several trees were knocked down.
Sharp County Cave City	27	1550CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees.
White County Pangburn	27	1550CST			0	0			Thunderstorm Wind (G50)
									Some trees were blown down.
Independence County Batesville	28	1235CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some power lines.
Cleburne County 2 N Heber Spgs	28	1300CST			1	12			Lightning
									A group of people were attending a picnic on the shore of Greers Ferry Lake at the Old Highway 25 Park. Lightning struck nearby and injured 12 people. One other person was killed as a result of being struck. The extent of injuries to the others struck consisted of burns. Most of the injured were treated and released from the hospital the same day and several others were kept for observation. M18OU
Pike County 5 E Highland	28	1330CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down some trees and power lines.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Saline County 4 NE Sardis	28	1345CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds knocked down some trees in the East End community.
Saline County 4 N Bryant	28	1345CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds blew down several trees.
Pulaski County Little Rock	28	1355CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds downed some power lines in the southwest part of Little Rock.
Independence County Batesville	28	1400CST 1500CST			0	0			Flash Flood Heavy rains resulted in flash flooding in parts of Batesville. Numerous streets were under water for a short period of time.
<u>ARKANSAS, East</u>									
Lee County Moro	17	0015CST 0020CST			0	0	2K		Thunderstorm Wind A couple of trees were knocked down.
St. Francis County Forrest City	17	0030CST 0035CST			0	0	10K		Thunderstorm Wind Several buildings suffered damage to their roofs and awnings. Numerous trees and power lines were blown down.
Mississippi County Osceola	27	1630CST 1635CST			0	0	5K		Thunderstorm Wind Numerous trees and power lines were blown down.
<u>ARKANSAS, Northwest</u>									
Washington County Prairie Grove	12	0515CST			0	0	0.10K		Thunderstorm Wind
Washington County Winslow	12	0520CST			0	0	0.10K		Thunderstorm Wind
Crawford County 6 NE Lecreek	12	0545CST			0	0	0.10K		Thunderstorm Wind
Crawford County 4 NE Lecreek	12	0545CST			0	0	0.10K		Thunderstorm Wind
Crawford County Mulberry	12	0600CST			0	0			Hail (0.75) Severe thunderstorms moved across northwest Arkansas during the early morning of June 12th. Strong thunderstorm winds downed power lines in Prairie Grove, and numerous large tree limbs were blown down in Winslow, 4 miles northeast of Lee Creek, and at Devils Den State Park 6 miles northeast of Lee Creek. Dime size hail fell at Mulberry.
Washington County Fayetteville	13	0400CST			0	0	5K		Thunderstorm Wind
Washington County 11 E Fayetteville	13	0410CST			0	0	35K		Thunderstorm Wind
Sebastian County Lavaca	13	0425CST			0	0	0.50K		Thunderstorm Wind (G52)
Carroll County 6 N Green Forest	13	0500CST			0	0	0.10K		Thunderstorm Wind Severe thunderstorms moved across northwest Arkansas during the early morning of June 13th and produced damaging winds. Strong thunderstorm winds destroyed a small chicken house, caused structural damage to a house, totaled a car, tore down a cattle fence, and uprooted numerous large trees 11 miles east of Fayetteville. Thunderstorm winds blew a tree down onto a car in Fayetteville, and a large tree was blown down across State Highway 103 6 miles north of Green Forest. A large tree was blown down onto a fence in Lavaca by thunderstorm winds which gusted to 60 miles an hour.
Sebastian County Hartford	15	1530CST			0	0	0.10K		Thunderstorm Wind A severe thunderstorm produced strong winds which downed numerous large tree limbs in Hartford.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
<u>ARKANSAS, Northwest</u>								
Sebastian County Nr Hartford	16	1805CST			0	0	0.10K	Thunderstorm Wind
Washington County Greenland	16	1930CST			0	0		Hail (1.75)
Washington County 3 SSE Fayetteville	16	1955CST 2011CST			0	0		Hail (0.88)
Crawford County Mountainburg	16	2000CST			0	0		Hail (0.75)
Washington County 3 SSE Fayetteville	16	2025CST			0	0		Hail (0.88)
Madison County St Paul	16	2030CST			0	0	0.10K	Thunderstorm Wind
Sebastian County Nr Lavaca	16 17	2300CST 0000CST			0	0		Flash Flood
Washington County Springdale	16	2310CST			0	0	3K	Thunderstorm Wind
Washington County Fayetteville	16 17	2330CST 0000CST			0	0		Flash Flood
Severe thunderstorms moved across northwest Arkansas during the evening of June 16th. Strong thunderstorm winds blew a U-Haul trailer into the street and downed trees in Springdale, and at least 1 tree and several large tree limbs were blown down near Hartford. Large tree limbs were blown down in St. Paul, and quarter to golfball size hail fell at Greenland. Dime to nickel size hail fell at the Fayetteville Airport 3 miles south southeast of Fayetteville, and dime size hail fell at Mountainburg. The storms also produced very heavy rainfall which resulted in flash flooding. State Highways 96 and 255 were covered by high water near Lavaca, and street flooding occurred in Fayetteville.								
Carroll County 4 W Rudd	29	1445CST 1545CST			0	0		Flash Flood
Madison County Marble to Kingston	29	1445CST 1545CST			0	0		Flash Flood
Thunderstorms during the afternoon of June 29th produced very heavy rainfall which resulted in flash flooding in southern Carroll and northern Madison Counties of northwest Arkansas. 18 inches of gravel were washed out onto State Highway 21 4 miles west of Rudd, and high water covered several county roads near Kingston and Marble.								
<u>ARKANSAS, Southeast</u>								
Ashley County Crossett	28	1649CST			0	0		Hail (0.88)
<u>ARKANSAS, Southwest</u>								
Miller County Texarkana	09	1100CST			0	0		Urban/Sml Stream Fld
Numerous reports of minor street flooding throughout the city.								
Columbia County Emerson	09	1756CST			0	0		Urban/Sml Stream Fld
Several roads were underwater in town.								
Columbia County Macedonia	09	1800CST			0	0		Urban/Sml Stream Fld
Several roads were inundated by rain.								
Lafayette County 2 SE Bradley	13	1715CST			0	0		Funnel Cloud
A funnel cloud was reported near Highway 29 and State Highway 160.								
Hempstead County Hope	15	1415CST			0	0		Flash Flood
Vehicles were overtaken and flooded by rapidly rising waters in town.								

Storm Data and Unusual Weather Phenomena

June 1997

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 10 SW Nashville	17	0220CST			0 0		Flash Flood Numerous roads were closed throughout the region due to high water.
Howard County 10 SW Nashville	17	0230CST			0 0		Thunderstorm Wind (G60) Several large oaks were toppled resulting in road blockages throughout the area.
Howard County Nashville	17	0250CST			0 0		Thunderstorm Wind (G60) Numerous power outages were reported from power lines knocked down by fallen trees.
Miller County Texarkana	17	0250CST			0 0		Thunderstorm Wind (G65) Numerous power outages occurred in town from fallen trees and power lines.
Nevada County Rosston	17	0255CST			0 0		Hail (1.00)
Columbia County Magnolia	17	0340CST			0 0		Thunderstorm Wind (G65) Power outages in town resulted from trees being blown over onto power lines.
Union County 1 W El Dorado	17	0425CST			0 0		Thunderstorm Wind (G60) Trees and power lines were toppled resulting in numerous power outages.
Union County 8 S El Dorado	17	0430CST			0 0		Thunderstorm Wind (G60) Trees were blown down across Hwy 82.
Little River County 5 N Foreman	28	2320CST			0 0		Thunderstorm Wind (G60) Trees and power lines were toppled along Hwy 41.

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

Shasta County 9.5 NE Redding	29	1400PST 1800PST			0 0		Wild/Forest Fire
Tehama County Countywide	29	1400PST 1800PST			0 0		Wild/Forest Fire Dry lightning from high-based thunderstorms caused a two acre fire in Tehama county. In Shasta county, the lightning started a fire that destroyed the upper story of a home.

CALIFORNIA, Northeast

NONE REPORTED.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

NONE REPORTED.

CALIFORNIA, Southeast

Inyo County Independence	05	1355PST			0 0		Hail (0.75) The Inyo County Sheriff observed marble and dime sized hail for a brief period.
San Bernardino County 5 E Twenty Nine Palms to Twenty Nine Palms	06	1646PST			0 0		Thunderstorm Wind (G52) A cluster of thunderstorms produced strong winds in the vicinity of Twentynine Palms, including a 60 mph gust at Twentynine Palms airport. No damage was reported.

Storm Data and Unusual Weather Phenomena

June 1997

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

CALIFORNIA, Southwest

San Bernardino County

Hesperia	06	1700PST 1703PST	0.2	20	0	0			Tornado (F0)
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A cold upper low primed the atmosphere for widespread thunderstorm activity over the mountains and deserts during the afternoon and evening hours. One storm spawned a small tornado in Hesperia that overturned and destroyed a 300 pound fountain.

San Diego County

2 NW San Diego Intl Arpt to 2.5 NW San Diego Lindbergh	13	1817PST 1836PST			0	0			Funnel Cloud
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A funnel cloud was spotted by observers at Lindbergh Field in the distant northwest.

CALIFORNIA, Upper

Siskiyou County

Copco	10	2125PST			0	0			Flash Flood
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1.50 INCHES IN 15 MIN. AND 1.80 TOTAL. POWER HOUSE WAS FLOODED.

Siskiyou County

Tulelake	11	1330PST			0	0			Hail (1.25)
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Modoc County

12 SW Newell to 3 SW Newell	11	1400PST 1600PST			0	0	60K		Hail (1.25)
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.75-1.25 INCH HAIL IN A 1/2 MILE SWATH.

Siskiyou County

12 NE Mc Cloud	11	1800PST 2100PST			0	0			Flash Flood
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COUNTY ROAD FLOODED AND .75 OF AN INCH HAIL.

Siskiyou County

6 NE Mc Cloud	11	1800PST 2100PST			0	0			Flash Flood
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FLASH FLOODING IN WILDERNESS ESTATES. ROAD WASHED OUT.

CALIFORNIA, West South Central

NONE REPORTED.

CALIFORNIA, Western

NONE REPORTED.

COLORADO, Central and Northeast

Lincoln County

28 NW Karval	01	2040MST	0.1	50	0	0	0	0	Tornado (F0)
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Larimer County

Ft Collins to Sterling	02	1430MST 2200MST			0	0	500K		Flash Flood
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Heavy rain and large hail from thunderstorms moving across eastern Larimer, northern Weld and western Logan Counties caused extensive flooding and flash flooding problems throughout the afternoon and evening hours. Rainfall totals ranged anywhere from 2 to 5 inches. Flash Floods washed out several roads and highways. Highway 14, the main highway between Fort Collins and Sterling was extensively damaged. Five bridges were damaged by floodwaters and several sections of the highway were washed out. Lone Tree Creek, near Lucerne, jumped its banks and flooded several homes. Highway 14 was closed for at least a week to repair the damage. Damage to county roads and bridges throughout Weld County was estimated to be \$500,000.

Weld County

8 NE Nunn	02	1435MST			0	0			Hail (1.75)
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Weld County

3 E Nunn	02	1448MST			0	0			Thunderstorm Wind (G54)
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Weld County

Briggsdale	02	1533MST			0	0			Hail (1.00)
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Larimer County

Ft Collins	02	1545MST 1630MST			0	0	0		Lightning
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Lightning struck two homes in Fort Collins. A computer was damaged in one home. No other damage reports were available.

Weld County

Briggsdale	02	1555MST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, Central and Northeast</u>									
Larimer County									
4 WSW Ft Collins	02	1606MST			0	0			Hail (0.75)
Weld County									
2 E Masters	02	1608MST			0	0			Thunderstorm Wind (G52)
Weld County									
Cornish	02	1627MST			0	0			Thunderstorm Wind (G56)
Weld County									
8 S Briggsdale	02	1645MST			0	0			Thunderstorm Wind (G52)
Morgan County									
1 E Weldona to 1 SE Weldona	02	1735MST 1745MST	0.1	50	0	0	0		Tornado (F0)
Morgan County									
1 NW Weldona	02	1737MST 1740MST			0	0			Hail (0.75)
Morgan County									
2 NW Weldona to 1 NW Weldona	02	1738MST			0	0			Hail (0.75)
Morgan County									
.5 E Weldona	02	1740MST			0	0			Hail (1.75)
Morgan County									
1 W Weldona	02	1740MST			0	0			Hail (0.75)
Morgan County									
.5 E Weldona	02	1740MST			0	0			Thunderstorm Wind (G52)
Morgan County									
1.5 SE Weldona	02	1743MST			0	0			Hail (1.75)
Morgan County									
3 E Weldona	02	1745MST			0	0			Hail (1.75)
Morgan County									
1 SE Weldona	02	1745MST			0	0			Hail (1.75)
Morgan County									
1 SE Weldona	02	1745MST			0	0			Thunderstorm Wind (G52)
Morgan County									
1 NW Snyder	02	1827MST			0	0			Hail (0.75)
Morgan County									
1 E Ft Morgan	02	1830MST			0	0			Hail (1.50)
Morgan County									
6 N Ft Morgan	02	1840MST			0	0			Hail (2.00)
Large hail and destructive thunderstorm winds heavily damaged a number of crops across Morgan County. A few of the reports included: 85 percent crop loss on 13,000 acres of wheat, 10 percent crop loss in 100,000 acres of corn and 10 percent crop loss on 2,000 acres of alfalfa. Losses were also reported on beet and onion crops.									
Morgan County									
Hillrose	02	2115MST			0	0			Thunderstorm Wind (G70)
Intense straight line winds estimated to 80 mph (70 kts) lifted the roof off a barn. A modular home adjacent to the structure was heavily damaged. A wooden beam from the barn smashed into the wall of the home. Five vehicles, three parked inside the barn, were also damaged.									
COZ043									
Southern Weld County/Greeley And Vicinity									
	03	0000MST 0500MST			0	0			Flood
Excessive runoff from thunderstorms over northern Weld County the previous evening resulted in flooding problems near Barnesville, about 10 miles northeast of Greeley. Several homes along Crow Creek were evacuated due to the highwaters.									
Park County									
5 E Hartsel	03	1945MST			0	0			Hail (1.00)
Park County									
9 SE Hartsel	03	1945MST			0	0			Hail (0.75)
Park County									
15 S Hartsel	03	2030MST 2042MST			0	0			Hail (0.75)
Boulder County									
Nederland	05	1400MST 1700MST			0	1			Lightning
A woman was struck by lightning as she was walking to her car. The bolt apparently struck a nearby power line then arced into									

Storm Data and Unusual Weather Phenomena

June 1997

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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COLORADO, Central and Northeast

her left hand. She received minor injuries.

Lincoln County
Hugo

06	1200MST 1730MST				0	0	0		Lightning
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Lightning struck a radio station tower. Some of the equipment was blown out, knocking the station off the air. The exact time of the incident was not known.

Arapahoe County
Littleton

06	1250MST				0	0			Hail (0.75)
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Denver County
Denver

06	1250MST				0	0			Hail (0.75)
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Denver County
Denver

06	1255MST				0	0			Hail (1.75)
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Denver County
Denver

06	1256MST				0	0			Hail (1.00)
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Denver County
Denver

06	1301MST				0	0			Hail (1.00)
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Boulder County
3 SE Boulder

06	1315MST 1325MST	0.1	50		0	0	0		Tornado (F1)
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A tornado touched down near Baseline Reservoir. The tornado struck a home, tearing off part of the roof. A storage building nearby was nearly levelled and 5 trees were uprooted. The twister then moved onto Baseline Reservoir forming a huge waterspout. Several recreational vehicles and a boat dock were also damaged.

Adams County
Thornton

06	1500MST 1730MST				0	0			Flash Flood
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A nearly stationary line of thunderstorms dumped 4.6 inches of rain onto portions of Thornton. Extensive flooding of streets, underpasses and other low lying areas was reported. Several businesses were flooded and basement in the area damaged.

Adams County
2 S Henderson

06	1535MST				0	0			Hail (0.75)
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Boulder County
Ward

07	1200MST 1700MST				0	1	0		Lightning
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Lightning injured a man while talking on the telephone. The bolt passed through the phone line burning his ear. He received minor injuries.

Denver County
Denver

07	1400MST				1	1	0		Lightning
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Two plumbers were injured, one critically, when lightning struck a pipe they were working on in a building under construction. The bolt apparently hit one man in the hand, it then passed through his chest and struck the other worker. The critically injured man died a few days later. M39OT

Summit County
Breckenridge

08	1345MST				0	2	0		Lightning
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Two search and rescue volunteers were injured while rescuing a skier atop Peak 10 at Breckenridge Ski Area. Lightning struck the first man as he was towing the injured skier by snowmobile and toboggan. The bolt struck the snowmobile, then the rescuer. He received minor burns to his eyes. The other rescuer was injured 1/4 mile away. Apparently the ground current created by the lightning travelled up his ski pole. He suffered temporary dizziness as a result of the strike.

Douglas County
6 N Castle Rock

10	1420MST				0	1	0		Lightning
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Lightning struck a security guard at the Castle Pines Golf Course. He received minor injuries.

Morgan County
2 S Ft Morgan

10	1600MST 1630MST				0	0	100K		Thunderstorm Wind
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Powerful thunderstorm winds lifted two barns from their foundations and levelled them. In addition, two grain bins were damaged, power poles and lines were downed causing scattered outages around the area. Several automobiles and other structures were damaged by falling trees. Heavy rain associated with the storms also caused localized flooding problems. Approximately 30,000 acres of crops in Morgan County were damaged. Corn crops experienced a 10 percent loss, beet and alfalfa crops incurred a 5 percent loss.

Elbert County
Agate

12	1300MST				0	0			Hail (0.75)
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Douglas County
**2 NW Parker to
2 N Parker**

12	1319MST 1333MST	1	50		0	0			Tornado (F1)
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A tornado touched down near Parker, damaging some construction equipment. The length and path of the storm was

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
COLORADO, Central and Northeast									
approximated.									
Adams County									
Henderson	12	1430MST			0	0			Hail (2.00)
Weld County									
New Raymer	12	1620MST			0	0			Hail (1.75)
Jefferson County									
Lakewood	12	1625MST			0	0			Hail (0.75)
Weld County									
6 S New Raymer	12	1630MST			0	0			Hail (1.75)
Large hail knocked out several windows.									
Denver County									
Denver	12	1647MST			0	0	0		Hail (1.00)
Larimer County									
Ft Collins to Loveland	13	1300MST 1500MST			0	0			Urban/Sml Stream Fld
Heavy rain drenched portions of southeast Larimer County. Two to nearly 4 inches of rain fell in the Fort Collins and Loveland areas causing extensive flooding.									
Arapahoe County									
5 SW Byers	13	1330MST 1500MST			0	0			Flash Flood
Heavy rain and hail caused Little Comanche Creek to overflow its banks. The areal extent of the flooding was roughly 50 feet wide and 1 mile long. One homeowner had hail drifting to 5 feet high as it washed into his yard. A flat bed trailer he owned was carried 1/2 mile downstream.									
Elbert County									
5 SW Matheson to 10 SW Matheson	13	1730MST 1800MST	5	100	0	0			Tornado (F0)
A multi-vortex tornado touched down. The path length and width of the storm was approximated.									
Lincoln County									
7 E Limon	13	1745MST			0	0			Hail (0.75)
Elbert County									
2 N Cedar Pt	13	1653MST			0	0			Hail (1.75)
Elbert County									
Matheson to 8 WSW Kutch	13	1653MST 2006MST			0	0			Heavy Rain
Heavy rain, large hail, damaging thunderstorms winds and tornadoes ravaged southern portions of Elbert and southwestern Lincoln counties through the evening hours. Several farms and ranches were devastated south of the Simla and Matheson areas as 2 to 3.5 inches of rain fell in addition to golfball size hail. Approximately 18,000 acres of wheat was destroyed. Several homes sustained roof damage and large hail broke windows. County Roads 185 and 197 in Elbert County were washed out.									
Park County									
Fairplay	13	1700MST 2100MST			0	0	0		Lightning
Lightning knocked out radio communications between Platte Canyon and Fairplay. The time of the incident was approximated.									
Elbert County									
4 NE Cedar Pt	13	1705MST			0	0			Hail (1.75)
Elbert County									
11 W Simla	13	1705MST			0	0			Hail (1.00)
Elbert County									
6 SE Elbert	13	1833MST			0	0			Hail (0.75)
Elbert County									
4 NE Kutch	13	1935MST 1940MST	0.1	50	0	0			Tornado (F0)
Elbert County									
7 NW Kutch	13	1953MST			0	0			Hail (1.00)
Lincoln County									
10 NW Karval	13	2006MST			0	0			Hail (2.75)
Lincoln County									
10 NW Karval	13	2006MST			0	0			Thunderstorm Wind (G60)
Strong thunderstorm winds gusting to 70 mph (60 kts) blew a car off the road near Punkin Center, northwest of Karval.									
Denver County									
Denver	13	2024MST			0	0	0		Lightning
Lightning struck a home in Denver. The extent of the damage was unknown.									

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Arapahoe County									
Littleton	13	2031MST			0	0	0		Lightning
Lightning struck a home in Littleton. The house caught fire but a damage estimate was not available.									
Larimer County									
Loveland	14	0100MST 0500MST			0	0	4K	0	Lightning
Lightning struck a home in Loveland sometime during the afternoon. A meter box was blown up setting the garage on fire.									
Larimer County									
5 SW Loveland	14	1502MST			0	0			Hail (0.75)
Arapahoe County									
Deer Trail	14	1520MST			0	0			Hail (0.75)
Arapahoe County									
Littleton	14	1532MST			0	0			Hail (0.75)
Larimer County									
7 N Wellington	14	1538MST			0	0			Hail (1.00)
Weld County									
Nunn	14	1556MST			0	0			Hail (1.50)
Adams County									
Bennett	14	1630MST			0	0			Hail (1.00)
Weld County									
12 SSE Roggen	14	1700MST 1730MST			0	0			Urban/Sml Stream Fld
Minor flooding developed as thunderstorms producing heavy rain and hail moved through the area. A section of roadway was washed out near the intersection of County Roads 81 and 4 in southeast Weld County. Eight to ten inches of water covered the road making it impassable.									
Weld County									
22 NNW Stoneham	14	1721MST			0	0			Hail (1.50)
Weld County									
22 NNW Stoneham	14	1721MST			0	0			Thunderstorm Wind (G52)
Logan County									
Fleming	14	1900MST			0	0			Flash Flood
	15	0200MST							
Up to 6 inches of rain fell near Fleming the evening of the 14th and early morning hours of the 15th. Excessive runoff from the torrential rainfall caused Frenchman Creek to overflow its banks as it rose 10 feet above its normal level at Holyoke. Over 30 homes and businesses in and around Holyoke were damaged, 7 homes were later determined to be unliveable. Three bridges and a portion of the railroad line were severely damaged or washed out. In addition, 80 percent of the crops in the area were lost. Three teenagers had to be rescued from atop of their vehicle when they drove into a flooded section of Highway 385 just outside Holyoke shortly after midnight. Highways 385, 6 and 23 were all closed due to flooding.									
Logan County									
7 SSW Fleming	14	1908MST 1913MST			0	0			Hail (1.50)
Trees and crops were damaged but no estimate was available.									
Phillips County									
2 S Paoli	14	1945MST	0.1	50	0	0			Tornado (F0)
Phillips County									
7 SSE Haxtun	14	2028MST			0	0			Hail (1.50)
Larimer County									
6 NW Wellington	15	1211MST			0	0			Hail (0.75)
Weld County									
1 SW Dacono	15	1421MST 1424MST	0.1	50	0	0	50K	0	Tornado (F1)
A tornado touched down briefly at the Colorado National Speedway. The tornado ripped through the south grandstand causing at least \$50, 000 in damage to a shed, kiosk, bleachers and several concession stands.									
Phillips County									
Holyoke	14	1100MST			0	0			Flash Flood
	15	0200MST							
Weld County									
Hereford	18	1456MST			0	0			Hail (0.75)
Weld County									
19 ENE Grover	18	1525MST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Elbert County 10 SSW Agate	18	2100MST 2145MST			0	0	0	0	Lightning
									Lightning struck an oil storage facility causing two tanks to explode into flames. Each tank had a 400 barrel capacity. One of the tanks was nearly full, the other one third full. A truck driver received minor injuries when he was knocked off a ladder from the explosion.
Boulder County Broomfield	19	1404MST			0	1	0	0	Lightning
									A 66-yr old man was knocked unconscious by a bolt of lightning while golfing at the Eagle Country Club.
Sedgwick County 5 E Julesburg	19	1625MST			0	0			Hail (1.50)
Logan County 5 E Peetz	20	1702MST	0.1	25	0	0	0		Tornado (F0)
Logan County 5 E Peetz	20	1705MST			0	0			Hail (1.00)
Logan County 3 N Peetz	20	1705MST	0.1	25	0	0	0		Tornado (F0)
Logan County 5 S Crook	20	1710MST	0.1	25	0	0	0		Tornado (F0)
Sedgwick County Julesburg	20	1721MST			0	0			Hail (1.75)
Logan County 25 N Fleming	20	1920MST			0	0			Hail (1.75)
Boulder County Boulder	21	1658MST			0	0			Hail (1.00)
Larimer County Campion	21	1747MST 1752MST			0	0			Hail (0.88)
Weld County Windsor	21	1753MST			0	0			Hail (1.50)
Jefferson County Wheat Ridge	22	0011MST			0	0	0		Dry Microburst
									A dry microburst produced an estimated 60 mph (53 kt) wind gust in Wheat Ridge.
Jefferson County Jefferson Co Arpt	22	1355MST			0	0	0		Dry Microburst
									A dry microburst produced a 69 mph (60 kt) wind gust at the Jefferson County Airport.
Weld County 4 W Hudson	22	1605MST	0.1	50	0	0	0	0	Tornado (F0)
Adams County 1 NW Henderson	22	1610MST	0.1	50	0	0			Tornado (F1)
									A tornado touched down near the Adams County Fairgrounds. Several trees were uprooted and a car was damaged.
Morgan County 10 S Brush	22	1900MST	0.1	50	0	0	35K		Tornado (F1)
									A small tornado damaged an irrigation sprinkler and tore up several bales of hay. The irrigation sprinkler was picked up 3 to 4 feet into the air and flipped.
Weld County 3 E Platteville	22	2048MST			0	0			Dry Microburst
									Dry microburst produced an estimated 70 mph (61 kt) wind gust.
Denver County Denver	23	1625MST			0	0	1M	0	Lightning
									Lightning struck the tower of the Cathedral of the Immaculate Conception. The bolt knocked chunks of rock from the top of the tower and blew a 4-ft wide hole about half way down the side. It also punched at least two holes in the tile roof and shattered part of the stone railing.
Adams County 5 E Strasburg	23	1757MST	0.1	50	0	0	0		Tornado (F0)
Weld County Greeley	23	1914MST			0	0			Hail (1.00)
Weld County 3 W Greeley	23	1915MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Greeley	23	1920MST			0	0			Hail (1.50)
Weld County									
3 N Greeley	23	1925MST			0	0			Hail (1.75)
Weld County									
Greeley	23	1945MST			0	0			Hail (1.25)
Weld County									
Greeley	23	1950MST			0	0	3.1M		Hail (1.50)
Large hail, up to golfball size, hammered the Greeley area causing extensive damage. Estimates included \$2.25 million to homes with another \$840,000 in automobile claims.									
Elbert County									
2 S Kiowa	24	1455MST			0	0			Hail (0.75)
Morgan County									
5 NW Ft Morgan	24	1540MST			0	0			Hail (0.75)
Lincoln County									
5 S Limon	24	1608MST			0	0			Hail (1.00)
Weld County									
7 SE La Salle	24	1617MST			0	0			Hail (0.75)
Lincoln County									
Hugo	24	1632MST			0	0			Hail (1.00)
Lincoln County									
4.5 N Arriba	24	1645MST			0	0			Hail (1.00)
Weld County									
6 W Masters	24	1647MST			0	0			Hail (0.75)
Weld County									
5 S Masters	24	1720MST			0	0			Hail (1.00)
Morgan County									
5 S Ft Morgan	24	1750MST			0	0			Hail (0.75)
Morgan County									
17 SE Ft Morgan	24	1810MST			0	0			Hail (1.75)
Strong winds, heavy rain and destructive hail caused additional crop loss in the Morgan County area. Preliminary reports indicated 60,000 acres of crops affected with 85 percent loss of wheat, 60 percent loss of corn and about a 10 percent loss of beets.									
Logan County									
Sterling to 8 E Sterling	25	1500MST 1700MST			0	0			Flash Flood
Thunderstorms with torrential rain and hail flooded the Sterling area during the late afternoon. Two to three inches of rain fell in a 30 minute period. The town was left immobilized as the water was several feet deep in places. Snowplows had to be called to remove hail from Interstate 76.									
Logan County									
5 W Atwood	25	1505MST 1510MST	1	100	0	0	0		Tornado (F0)
Sedgwick County									
3 E Julesburg	25	1514MST			0	0			Hail (1.00)
Sedgwick County									
6 S Julesburg	25	1522MST			0	0			Hail (1.75)
Morgan County									
3 SW Hillrose	25	1550MST	0.1	50	0	0	0		Tornado (F0)
Boulder County									
Longmont	25	1745MST			0	0	0		Thunderstorm Wind
Strong thunderstorm winds downed power lines which caused a 30 minute power outage.									
Boulder County									
Boulder	25	1855MST 1900MST			0	0			Hail (1.25)
Boulder County									
Boulder	25	1905MST			0	0			Hail (0.75)
Boulder County									
Louisville	25	1920MST			0	0			Hail (0.75)
Jefferson County									
Arvada	25	1920MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Jefferson County									
Arvada	25	1930MST			0	0			Hail (1.00)
Jefferson County									
Jefferson Co Arpt	25	1932MST			0	0			Hail (0.75)
Jefferson County									
Arvada	25	1933MST			0	0			Hail (0.75)
Jefferson County									
1 E Jefferson Co Arpt	25	1936MST			0	0			Hail (0.75)
Adams County									
Westminster	25	1937MST			0	0			Hail (0.75)
Denver County									
Denver	25	1945MST			0	0			Hail (0.75)
Jefferson County									
Arvada	25	1949MST			0	0			Hail (0.88)
Boulder County									
Longmont	25	1955MST			0	0			Hail (0.75)
Boulder County									
Longmont	25	2000MST			0	0			Hail (0.75)
Boulder County									
Longmont Muni Arpt	25	2005MST			0	0			Hail (1.00)
Boulder County									
Longmont	25	2006MST			0	0			Hail (1.00)
Heavy rain and hail caused widespread street flooding in Longmont. Standing water was 2 feet deep in spots.									
COZ038									
Eastern Larimer And Northwestern Weld Counties									
	26	0525MST			1	0		0	Fog
A woman was killed when she pulled in front of an oncoming tractor trailer just northwest of Berthoud. Dense fog had reduced visibility to less than 100 yards at the time of the accident.									
F21VE									
<u>COLORADO, East Central</u>									
COZ092									
Cheyenne County									
	09	0900MST			0	0			Flood
		1600MST							
Four to five inches of rainfall caused creeks and rivers in the vicinity of Wildhorse to flood county roads and railroad.									
Kit Carson County									
4 N Flagler	12	1335MST			0	0			Hail (0.75)
Hail covered ground.									
Kit Carson County									
4 NW Seibert	12	1350MST			0	0			Hail (0.88)
Kit Carson County									
3 S Seibert	12	1402MST			0	0			Funnel Cloud
Kit Carson County									
4 SW Vona	12	1420MST			0	0			Hail (0.75)
Kit Carson County									
4 SW Stratton	12	1435MST			0	0			Hail (0.75)
Kit Carson County									
Burlington Arpt	12	1503MST			0	0			Thunderstorm Wind (G52)
Kit Carson County									
5 W Burlington	12	1503MST	0.1	50	0	0			Tornado (F0)
Brief tornado over open country reported by law enforcement dispatch.									
Kit Carson County									
4 W Burlington	12	1510MST			0	0			Hail (0.75)
Yuma County									
20 N Eckley	14	2049MST			0	0			Hail (0.75)
Kit Carson County									
8 E Burlington	15	1820MST			0	0			Hail (0.75)
Yuma County									
3 N Kirk	19	2114MST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, East Central</u>									
Yuma County 8 S Idalia	20	2012MST			0	0			Hail (0.88)
Cheyenne County 5.5 N Wild Horse	24	1731MST			0	0			Thunderstorm Wind (G52) Branches 2 inches in diameter broken.
Cheyenne County 8 N Wild Horse	24	1740MST			0	0			Hail (0.75)
Cheyenne County 2 N Kit Carson	24	1755MST			0	0			Hail (0.75)
Cheyenne County Kit Carson	24	1800MST			0	0			Thunderstorm Wind (G52) Wind to 60 mph and 1 inch diameter hail stripped leaves from trees.
Cheyenne County 6 SW Firstview	24	1810MST	0.1	30	0	0			Tornado (F0) Brief tornado over open country.
Cheyenne County Kit Carson	24	1810MST			0	0			Thunderstorm Wind (G70) Tree limbs up to 12 inches in diameter broken all over town. Some roof damage.
Cheyenne County 13 S Firstview	24	1832MST	0.1	30	0	0			Tornado (F0) Brief tornado over open country.
Yuma County 7 W Clarkville	25	1617MST			0	0			Hail (0.88)
Yuma County 9 S Wray	25	1702MST			0	0			Thunderstorm Wind (G50) Gustnado also observed over open country.
Kit Carson County 5 NNE Vona	28	1815MST			0	0			Hail (1.75)
Kit Carson County 3 N Stratton	28	1850MST			0	0			Hail (1.00)
Yuma County 7 ENE Idalia	28	2240MST			0	0			Thunderstorm Wind (G52)
Yuma County 7 ENE Idalia	28	2240MST			0	0			Hail (0.75)
Kit Carson County Burlington	29	1615MST			0	0			Thunderstorm Wind (G52)
Kit Carson County 7 NNW Burlington	29	1629MST			0	0			Hail (1.75)
Cheyenne County 6 SE Arapahoe	29	1655MST			0	0			Hail (1.75)
<u>COLORADO, South Central and Southeast</u>									
Las Animas County 17 SW Kim	01	1500MST 1505MST			0	0			Hail (1.00)
El Paso County Palmer Lake	01	1645MST 1650MST			0	0			Hail (1.00)
El Paso County Monument	01	1655MST 1700MST			0	0			Hail (0.75)
El Paso County 15 N Colorado Spgs	01	1718MST 1723MST			0	0			Hail (0.75)
El Paso County Monument	01	1718MST 1723MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
El Paso County 6 SW Peyton	01	1820MST 1825MST			0	0			Hail (0.88)
El Paso County Peyton	01	1845MST 1850MST			0	0			Hail (2.00)
El Paso County Ramah	01	1946MST 1951MST			0	0			Hail (0.75)
Las Animas County 3 S Trinidad	02	1727MST 1732MST			0	0			Hail (0.75)
Las Animas County Stonewall	04	1403MST 1408MST			0	0			Hail (1.75)
Pueblo County Colorado City	04	1550MST 1555MST			0	0			Hail (0.75)
Custer County Westcliffe	04	1558MST 1611MST			0	0			Funnel Cloud
Custer County 3 ESE Westcliffe	04	1605MST 1606MST	0.1	50	0	0			Tornado (F0)
A tornado briefly occurred in an open field southeast of Westcliffe. There was no known damage.									
Pueblo County Colorado City	04	1630MST 1635MST			0	0			Hail (0.75)
El Paso County 6 NE Colorado Spgs	05	1704MST 1709MST			0	0			Hail (0.75)
Fremont County Penrose	05	1832MST 1833MST	0.1	50	0	0			Tornado (F0)
An off-duty Custer county sheriff deputy reported a brief tornado on the edge of Penrose in an open field. There was no known damage.									
El Paso County Calhan	05	1900MST			0	0			Lightning
A lightning bolt hit a transformer near Calhan. Power was lost until around 10:30 p.m. for about half the customers in and around Calhan.									
El Paso County 6 N Colorado Spgs	06	1655MST 1700MST			0	0			Hail (0.75)
El Paso County Colorado Spgs	06	1732MST 1737MST			0	0			Hail (1.75)
El Paso County Colorado Spgs	06	1745MST 1747MST			0	0			Thunderstorm Wind (G56)
El Paso County Fountain to 1 S Colorado Spgs	06	1700MST 1730MST			0	0			Funnel Cloud
A funnel cloud was seen by several weather spotters from Fountain to the area just south of downtown Colorado Springs between 6:00 p.m. and 6:30 p.m. as a severe thunderstorm moved from south to north through the area.									
El Paso County 2 NNW Colorado Spgs	06	1800MST			0	1			Lightning
A 13-year old boy was stunned and hospitalized from a lightning bolt that struck near him in Monument Valley Park.									
Teller County 3 SE Woodland Park	06	2015MST 2215MST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

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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COLORADO, South Central and Southeast

El Paso County

Manitou Spgs	06	2100MST 2245MST			0	0			Flash Flood
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Thunderstorms banked up against the Rampart Range west of Colorado Springs and Manitou Springs with a southeast airflow and produced prolonged rain and heavy rain totals. Rain amounts ranged from four to eight inches in the mountains and into Manitou Springs and Ute Pass. There was flooding of Ruxton, Sutherland, Rock, and Fountain Creeks in both El Paso and Teller counties. Around Crystola, on the Teller-El Paso county line, several bridges were washed out on Fountain Creek. In Green Mountain Falls, people were evacuated from a motel, when an 8-foot portion of foundation washed into flooded Fountain Creek. There were several rock and mud slides in Ute Pass on U.S. 24 and other roads.

Otero County

La Junta	06	2230MST			0	0			Flash Flood
	07	0030MST							

Crowley County

Ordway	06	2245MST			0	0			Flash Flood
	07	0030MST							

Prolonged and widespread thunderstorm activity produced flooding across many of the highways and roads in Crowley and Otero counties. Highway 50 near La Junta in Otero county was closed due to flooding. Several bridges were either washed out or sustained damage on county roads around La Junta. Highway 96 near Ordway in Crowley county was flooded.

Fremont County

Canon City	07	1400MST			0	0			Lightning
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A lightning bolt caused the loss of power and phone service to a correctional facility. Electricity was restored by 7:00 p.m. and phone service later that night.

El Paso County

Manitou Spgs	09	1900MST			0	0			Flash Flood
	10	0030MST							

El Paso County

4 WSW Colorado Spgs	09	2200MST			0	0			Flash Flood
	10	0030MST							

Another round of thunderstorms dumped heavy rain on the Fountain and Cheyenne Creeks drainage basins, causing flash floods and a prolonged period of high water.

Fremont County

10 NNE Penrose to 2 E Penrose	10	1200MST 1900MST			0	0			Urban/Sml Stream Fld
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Heavy rain in the Red Creek and Beaver Creeks drainage basins caused the creeks to flood from their source to the Arkansas River. Some campers and residents had to be evacuated, but no known widespread damage to property occurred.

Las Animas County

5 NW Trinchera	10	1310MST 1315MST			0	0			Hail (1.00)
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Otero County

15 SW Timpas	10	1500MST 1503MST			0	0			Hail (0.75)
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Otero County

4 W Timpas	10	1505MST 1510MST			0	0			Hail (0.88)
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Bent County

8 SW Las Animas	10	1650MST 1655MST			0	0			Hail (1.00)
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Bent County

Las Animas	10	1659MST 1704MST			0	0			Hail (0.75)
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Bent County

Las Animas	10	1709MST 1714MST			0	0			Hail (1.00)
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Pueblo County

Avondale	10	1815MST 1820MST			0	0			Hail (0.75)
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Kiowa County

4 N Towner	11	1438MST 1443MST			0	0			Hail (1.00)
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Kiowa County

3 NNE Towner	11	1438MST 1443MST	0.2	50	0	0			Tornado (F0)
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A tornado occurred in open country of eastern Kiowa county. There was no known damage.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
Kiowa County									
3 NNE Towner	11	1446MST 1451MST			0	0			Hail (0.75)
Otero County									
11 SW La Junta	12	1303MST 1308MST			0	0			Hail (0.75)
Baca County									
4 NW Two Buttes	12	1601MST 1606MST			0	0			Hail (0.75)
Baca County									
3 SE Two Buttes	12	1651MST 1656MST			0	0			Hail (0.75)
El Paso County									
3 S Peyton	12	1654MST 1659MST			0	0			Hail (0.75)
El Paso County									
Security	13	2015MST 2017MST			0	0			Hail (1.00)
El Paso County									
Security	13	2018MST 2023MST			0	0			Hail (1.50)
El Paso County									
Colorado Spgs	13	2020MST 2025MST			0	0			Hail (1.00)
El Paso County									
Security	13	2024MST 2029MST			0	0			Hail (1.00)
El Paso County									
7 ESE Colorado Spgs	13	2106MST 2111MST			0	0			Hail (0.75)
El Paso County									
8 E Colorado Spgs	13 14	2300MST 0030MST			0	0			Flash Flood
									Flooding of U.S. Highway 24 at Marksheffel Road, with water one foot deep covering the highway.
El Paso County									
5 SE Colorado Spgs	13 14	2300MST 0030MST			0	0			Flash Flood
									Flooding of Interstate 25 near State Highway 85/87.
El Paso County									
4 S Colorado Spgs	13 14	2315MST 0030MST			0	0			Flash Flood
									Flooding of streets and residences in the Stratmoor Hills subdivision.
El Paso County									
1 S Colorado Spgs	13 14	2315MST 0030MST			0	0			Flash Flood
									Flooding of Fountain Creek just south of downtown Colorado Springs.
El Paso County									
Fountain	13 14	2330MST 0030MST			0	0			Flash Flood
									Flooding of Bandley Road as high water from Fort Carson flowed into Fountain Creek.
El Paso County									
5 S Fountain to 12 S Fountain	14	0800MST 1800MST			0	0			Urban/Sml Stream Fld
Pueblo County									
6 N Pinon to 2 E Pueblo	14	0900MST 2000MST			0	0			Urban/Sml Stream Fld
									Heavy rain amounts caused Fountain Creek to rise above flood stage, inundating low lands around the creek. Pinon Road was closed and the Pinon Bridge sustained damage when hit by large debris floating downstream. Three culverts were washed out as well. No known damage occurred in the city of Pueblo near the creek.
El Paso County									
9 NNE Colorado Spgs	16	1252MST 1302MST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

June 1997

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

COLORADO, South Central and Southeast

A short lived funnel cloud was reported by several weather spotters and the public.

El Paso County 7 NE Colorado Spgs	23	1845MST 1848MST			0	0	Hail (0.75)
El Paso County 2 NE Colorado Spgs	23	1846MST 1850MST			0	0	Hail (0.75)
El Paso County Monument	24	1500MST 1505MST			0	0	Hail (1.75)
El Paso County Black Forest	24	1531MST 1541MST			0	0	Hail (0.75)
Baca County 18 E Springfield	24	1600MST			0	0	Thunderstorm Wind (G57)
Prowers County 5 N Holly	24	1605MST 1610MST			0	0	Hail (0.88)
Prowers County 5 NE Holly	24	1610MST 1615MST			0	0	Hail (1.00)
Kiowa County 9 NE Eads	24	1736MST 1741MST			0	0	Hail (0.75)
Kiowa County Eads	24	1823MST			0	0	Thunderstorm Wind (G52)
Kiowa County 5 N Sheridan Lake	24	1918MST 1923MST			0	0	Hail (1.00)
Pueblo County 36 SE Pueblo	25	1440MST 1445MST			0	0	Hail (0.75)
Otero County 10 SW La Junta	25	1609MST 1614MST			0	0	Hail (0.75)
Baca County 15 W Campo	25	1732MST 1737MST			0	0	Hail (0.75)
El Paso County Colorado Spgs	26	1440MST			0	0	Lightning
A lightning bolt struck near the top of the Holly Sugar Building in downtown Colorado Springs, knocking several pieces of concrete out, sending them crashing to the sidewalk and Pikes Peak Avenue below. There were no injuries or vehicles struck by the falling concrete.							
Prowers County 7 WSW Granada	29	1520MST 1525MST			0	0	Hail (1.00)
Baca County 3 WSW Stonington	29	1532MST 1537MST			0	0	Hail (1.00)

COLORADO, West

COZ002-005

Central Yampa River Basin/Craig-Hayden And Vicinity - Upper Yampa River Basin/Steamboat Springs And Vicinity

01	0000MST						
11	1800MST			0	0	140K	Flood

Flooding was reported from Steamboat Springs to Craig along the upper and central portions of the Yampa River for the first eleven days of June. The Elk River and other tributaries were also above flood stage for much of the same time period. Many roads, campgrounds, and ranch lands were inundated. Water was several feet deep in these lower lying areas. Roads were undermined and a few small bridges collapsed. Many houses and trailers were damaged from the flood waters.

Rio Blanco County

28 S Rangely	02	1400MST 1430MST					
			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>COLORADO, West</u>									
A flash flood spread mud and debris across a 60 yard section of highway 139 just north of Douglas Pass.									
Rio Blanco County 6 S Rangely	02	1530MST 1600MST			0	0			Flash Flood
A flash flood washed out a county road six miles south of Rangely just off of state highway 139.									
La Plata County 12 E Durango	06	1400MST 1410MST			0	0			Funnel Cloud
La Plata County 13 S Ignacio	07	2100MST 2110MST	0.5	30	0	0	10K		Tornado (F1)
A tornado touched down on the La Boca Ranch destroying a 20-by-30 foot metal shed. The tornado also uprooted some large cottonwood trees about a quarter mile away from the shed. The time of touch down was estimated based on radar and satellite imagery, since nobody was at the ranch when the tornado struck.									
La Plata County 4 S La Plata Co Arpt	08	0950MST 1010MST			0	0			Funnel Cloud
Rio Blanco County 28 S Rangely	10	1500MST 1530MST			0	0			Flash Flood
A large mud slide was reported over state highway 139 just north of Douglas Pass, closing the road until it was cleared by a state road crew.									
Moffat County 40 NW Maybell	18	1440MST 1515MST			0	0			Flash Flood
A flash flood resulted in at least a foot of water across a section of state highway 318, temporarily blocking traffic.									
<u>CONNECTICUT, Northeast</u>									
Hartford County Farmington to Hartford	26	1205EST			0	0			Thunderstorm Wind (G60)
An isolated severe thunderstorm resulted in wind damage in Farmington, Hartford, and New Britain. Several roads in the Farmington and New Britain area were reported to be closed for a time. Wires were reported down across one road.									
<u>CONNECTICUT, Northwest</u>									
NONE REPORTED.									
<u>CONNECTICUT, Southern</u>									
New London County Griswold	19	0155EST			1	0			Lightning
A boy was struck by lightning while celebrating the last day of school with four friends in a shed by Beachdale Pond. He was changing a CD in a disc player when lightning struck an electrical socket or skipped off the nearby pond. The State Office of the Chief Medical Examiner confirmed that the boy was killed by electric shock. M16OT									
Fairfield County Stamford to Darien	22	1415EST			1	0			Thunderstorm Wind (G50)
Severe thunderstorms caused high winds that knocked down trees in Stamford. High winds also caused a 24 foot sailboat to capsize about 2 to 3 miles south of Darien in Long Island Sound. A 78 year old man died after he was thrown from the boat. M78BO									
New London County Norwich	26	1330EST			0	0			Thunderstorm Wind (G50)
Middlesex County Haddam	26	1334EST			0	0			Thunderstorm Wind (G50)
Middlesex County Killingworth	26	1338EST			0	0			Thunderstorm Wind (G50)
Fairfield County Greenwich	26	1550EST			0	0			Thunderstorm Wind (G50)
A line of scattered severe thunderstorms developed in a moist unstable airmass ahead of an approaching cold front. Storms produced high winds that downed trees and power lines, especially in Norwich and Greenwich.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
DELAWARE							
DEZ004		Delaware Beaches					
	02	1500EST			0 0		Coastal Flooding
	03	2000EST					
DEZ004		Delaware Beaches					
	02	1800EST			0 0		Wind
	03	1100EST					
	A series of low pressure systems moving east off the North Carolina coast and a relatively strong high pressure system over Eastern Canada brought a strong and persistent northeast flow from the 2nd through the 4th. The onshore flow peaked during the evening of the 2nd through the morning of the 3rd and produced some minor tidal flooding at times of high tide. A wind gust of 48 mph was reported by the Cape May-Lewes Ferry the morning of the 3rd. Tidal departures averaged about 2 feet above normal, peaking the morning of the 3rd. The heavy surf also caused some minor beach erosion, especially in Rehoboth Beach.						
DEZ001		New Castle					
	13	1100EST 1200EST			0 0		Tstm Heavy Rain
	Thunderstorms with heavy rain caused some urban and poor drainage flooding in the northern part of New Castle County. In Newark, 1.2 inches of rain fell within an hour. In Marshallton, overflowing sewers closed Duncan Road at Grafton Drive. The heavy rain also caused significant, but within bankfull rises in most of the major creeks and rivers in northern New Castle County.						
New Castle County							
Wilmington	13	1220EST			0 0	0	Thunderstorm Wind
	A severe thunderstorm tore down power lines across the northeast part of the county. Between 8,000 and 10,000 homes and businesses lost power. All but 100 customers had power restored by 10 p.m. EDT that evening.						
Sussex County							
1 E Millsboro	18	2100EST			0 0	0 0	Funnel Cloud
Sussex County							
Seaford	18	2120EST			0 0	0	Thunderstorm Wind
	A funnel cloud was sighted just east of Millsboro in Sussex County. It apparently never touched down. A severe thunderstorm did knock down large tree limbs and wires in and around Seaford. The heavy rain that accompanied the thunderstorm damaged five classrooms on the second floor of Seaford High School. The high school roof was under repair and the water came through a 50 by 50 foot hole in the roof. Numerous books were damaged.						
DEZ001>004		New Castle - Kent - Inland Sussex - Delaware Beaches					
	21	0900EST			0 0		Excessive Heat
	26	1800EST					
	The first heat wave of 1997 brought the warmest weather in two years to the Delmarva Peninsula. The highest temperatures reached near or around the 100 degree mark in many places on the 25th and 26th. A strong cold front brought an end to the excessive humidity on the 26th, although some places reached around 90 degrees on the 27th. The heat wave started for a few spots on the peninsula on the 20th. All locations reached the 90s on the 21st. A weak cold front briefly brought drier air into the region on the 23rd. But that was short-lived as both heat and humidity levels became oppressive again on the 24th.						
	The highest temperatures included 100 degrees at both Lewes (on the 25th and 26th) and Odessa (26th), 98 degrees in Dover (on the 25th and 26th), 95 degrees at the New Castle County Airport (on the 25th) and also Bridgeville and Pennyhill (on both the 25th and 26th).						
Kent County							
Smyrna to Dover	22	1630EST 1730EST			0 0	0	Lightning
Kent County							
1 S Smyrna to Cheswold	22	1630EST			0 0	0	Thunderstorm Wind
	A severe thunderstorm caused wind damage in northern Kent County from around Smyrna to Cheswold. The thunderstorm blew a big piece of a house's roof off on Big Oak Road. Part of a roof was also blown off a Main Street building in Cheswold. Several trees were also uprooted. There was also very intense lightning with this thunderstorm. The Dover fire department responded to fourteen alarms. In one case, struck power lines fell onto a parked vehicle at a restaurant on U.S. Route 113 near Dover and burned it. There were also six other lightning fires farther north in the county.						
Sussex County							
Greenwood	26	1620EST			0 0		Hail (1.00)
Sussex County							
Atlanta to Bayard	26	1630EST 1645EST			0 0	0	Thunderstorm Wind
	A severe thunderstorm produced quarter size hail in Greenwood that covered the ground. The same storm then proceeded to down numerous trees and cause widespread power outages in the central and southern parts of Sussex County.						
DEZ001>004		New Castle - Kent - Inland Sussex - Delaware Beaches					
	30	2359EST			0 0		Unseasonably Dry
	June 1997 was drier than normal throughout Delaware. On a county weighted average, deficits averaged between 1 and 2 inches						

Storm Data and Unusual Weather Phenomena

June 1997

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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DELAWARE

in New Castle and Sussex Counties. Only Kent County was within an inch of normal. Coupled with the hot weather from June 21st onward, the lack of rain started to stress growing areas. The monthly precipitation total at the New Castle County Airport was 1.75 inches, about 49 percent of normal.

DISTRICT OF COLUMBIA

District Of Columbia

Northwest Portion	18	1740EST			0	0	10K		Thunderstorm Wind
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Peripheral winds south of a damaging microburst in southern Montgomery Co, Maryland, blew down several large limbs in upper Northwest Washington.

DCZ001

District Of Columbia

25	1100EST			0	0			Excessive Heat
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The first bona-fide summer heat wave in nearly two years arrived in the city after a three month period of below normal temperatures. The maximum temperature on the 25th at Washington/National Airport (DCA) hit the century mark, and rose to 97 on the 26th before a line of strong to severe thunderstorms cooled the atmosphere. Heat indices at the airport surpassed 105 for a brief period on the 25th; however, the values remained at or above 90 degrees for much of the overnight hours. Heat indices were likely higher in the more densely populated sections of the city east of Rock Creek, including the downtown sector.

The heat wave was potentially more dangerous than most since it occurred early in the season and was preceded by a three month period of below normal temperatures and several cloudy periods.

Advance advisories and warnings may have saved lives and precluded injury.

District Of Columbia

Upper Northwest	26	1520EST			0	0	5K		Gusty Wind
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A line of thunderstorms produced scattered tree damage across portions of Washington. The line was associated with an air mass front which lifted very unstable air ahead of it. Damage included at least two downed trees; one blocking Reservoir Road and another at the intersection of 49th and Ellicott Street.

FLORIDA, East Central

Indian River County

Vero Beach	01	0300EST			0	0	1M		Lightning
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Lightning caused a fire that completely destroyed a large house in Vero Beach. Damage was estimated at 1 million dollars.

Volusia County

De Bary	01	1145EST			0	0			Thunderstorm Wind
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Thunderstorm winds blew down trees that knocked down power lines in DeBary.

Volusia County

Daytona Beach	01	1152EST			0	0			Funnel Cloud
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A funnel cloud was sighted near Daytona Beach.

Orange County

Orlando	01	1200EST	0.2	30	0	0	20K		Tornado (F0)
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An F0 tornado crossed a small lake and destroyed the roof on a small house in the western part of Orlando.

Brevard County

Cape Canaveral	01	1255EST			0	0			Thunderstorm Wind
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Thunderstorm winds produced wind gusts to 63 mph at Cape Canaveral AFS.

Orange County

Orlando	02	0915EST			0	0			Hail (1.00)
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Quarter size hail fell in the University Park area of Orlando.

Brevard County

Cocoa Beach	02	1203EST			0	0			Thunderstorm Wind
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A porch and garage door were damaged and light poles at a stadium were bent by thunderstorm winds.

Osceola County

Holopaw	02	1615EST			0	0			Thunderstorm Wind
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Thunderstorm winds blew down trees and damaged two mobile homes and bent a flagpole.

Indian River County

1 E Vero Beach	02	1800EST			0	0			Waterspout
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A waterspout was sighted 1 mile east of Vero Beach.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
FLORIDA, East Central									
Brevard County									
Merritt Is	03	2000EST			0	0	15K		Lightning
									A fire started by lightning produced \$15,000 in damages to a house.
Volusia County									
Daytona Beach	05	1430EST			0	1			Rip Currents
									A large number of rip currents formed along the coast of Volusia County. The county beach patrol pulled 86 people from the surf. One 17 year old boy was hospitalised.
Osceola County									
Kissimmee	12	1400EST			0	1			Lightning
									An Osceola County deputy sheriff was struck and injured by lightning while standing on a sidewalk.
Brevard County									
Indialantic	12	1425EST			0	0			Hail (0.75)
Orange County									
1 W Orlando	12	1445EST			0	0			Thunderstorm Wind
									Thunderstorms winds blew down numerous trees and destroyed a pool screen.
Brevard County									
Indialantic	12	1520EST			0	0			Hail (0.75)
Brevard County									
Cocoa Beach	13	1301EST			0	0			Thunderstorm Wind
									Thunderstorm winds blew down street signs, a chain link fence and a solar panel.
Indian River County									
3 S Sebastian	13	1510EST			0	0			Tstm Wind/Hail
									Thunderstorm winds blew down palm trees and produced nickel size hail south of Sebastian.
Volusia County									
Daytona Beach	14	1230EST			0	0			Thunderstorm Wind
									Thunderstorm winds blew down numerous large trees and damaged a roof.
Indian River County									
Sebastian	17	1430EST			0	0			Hail (0.75)
St. Lucie County									
Ft Pierce	18	2020EST			0	0			Hail (0.75)
Brevard County									
Cape Kennedy Rgnl	19	1605EST			0	0			Thunderstorm Wind (G60)
									Wind gusts of 60 knots were reported at Kennedy Space Center along with minor damage to a roof.
Brevard County									
(Cof)Patrick Afb	19	1645EST			0	0			Thunderstorm Wind (G62)
									Wind gusts of 62 knots were reported a Patrick Air Force Base.
Indian River County									
Vero Beach	19	1855EST			0	0			Hail (0.75)
Orange County									
Winter Park	20	1855EST			0	0			Thunderstorm Wind
									Thunderstorm winds blew down trees in Winter Park and damaged a roof top water cooler in Maitland.
Seminole County									
Casselberry	20	1855EST			0	0			Thunderstorm Wind
									Thunderstorm winds blew down a sign and damaged the roof at a Burger King.
Orange County									
Orlando	20	1900EST			0	0			Thunderstorm Wind
									Thunderstorm winds damaged a large greenhouse near Orlando International Airport.
Osceola County									
Narcoosee	20	1900EST			0	0			Thunderstorm Wind
									Thunderstorm winds blew down trees in Narcoosee.
Lake County									
10 E Paisley	26	1600EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>FLORIDA, East Central</u>									
Volusia County									
De Land	26	1600EST			0	0			Hail (0.75)
			Dime size hail fell and a wind gusts to 58 mph were recorded by an amateur radio operator.						
Brevard County									
Titusville	28	1545EST			0	0			Hail (1.00)
<u>FLORIDA, Northeastern</u>									
Marion County									
Salt Spgs	01	1037EST			0	0			Hail (0.75)
Flagler County									
Flagler Beach	01	1113EST			0	0			Hail (0.75)
Putnam County									
Interlachen	01	1113EST			0	0			Hail (0.75)
St. Johns County									
St Augustine	01	1117EST			0	0			Hail (0.75)
Hamilton County									
Jennings	01	1615EST			0	0	1K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Flagler County									
8 N Flagler Beach	05	1045EST			0	0	2K		Flood
	06	0300EST							
			Most of the side streets in Palm Coast were closed.						
Marion County									
Orange Lake	14	1015EST			1	0			Lightning
			M60BO						
Putnam County									
Bostwick	14	1130EST			0	0	1K		Thunderstorm Wind
			Large trees and power lines were blown down.						
St. Johns County									
Vilano Beach	14	1200EST			0	0	1.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Duval County									
5 S Jacksonville	18	2055EST			0	0			Waterspout
			Waterspout was just East of NAS Jacksonville on the St. Johns River.						
Gilchrist County									
Trenton	26	1330EST			0	0	0.50K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Marion County									
Ocala	26	1400EST			0	0	12K		Lightning
			Two homes were struck and one car.						
Marion County									
Ocala	26	1500EST			0	0	0.50K		Thunderstorm Wind
			Large trees were blown down. One house was damaged.						
Marion County									
Ocala	26	1510EST			0	0	2K		Flood
		1745EST							
			Numerous streets were closed do to flooding. A few roads in eastern portion of the county were also closed.						
Putnam County									
Grandin	26	1440EST			0	0	0.70K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Clay County									
Camp Bldg	26	1445EST			0	0	1K		Thunderstorm Wind
			Large trees were snapped off.						
Alachua County									
Archer	26	1530EST			0	0	0.70K		Thunderstorm Wind
			Large trees were blown down.						
Duval County									
Oceanway	27	1645EST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
FLORIDA, Northwest									
Wakulla County 6 N Crawfordville	01	1300EST			0	0			Hail (0.75)
Leon County Tallahassee to Woodville	01	1300EST 1301EST			0	0			Hail (0.75)
Hail was reported by the public and HAM radio operators.									
Jefferson County 2 E Monticello	02	1630EST			0	0	1K		Thunderstorm Wind
Several trees and power lines were downed according to the police department.									
Madison County 6 N Greenville	02	1640EST			0	0			Hail (0.75)
Hail was reported by county EMA.									
Leon County Tallahassee	19	1350EST			0	0	10K		Thunderstorm Wind
A large billboard was blown down on the west side of the city. The FSU meteorology department's instruments measured winds of 50 mph.									
Taylor County Perry	22	1705EST			0	0	2K		Thunderstorm Wind
Winds blew down power lines and a tree across Harrison Blue Road.									
Jefferson County 3 N Lamont	24	1840EST			0	0	2K		Thunderstorm Wind
Numerous trees and powerlines were reported blown down on Highway 257.									
Gadsden County Havana	29	1405EST			1	2			Lightning
Three people working on a farm were headed for the shelter of their truck when a lightning bolt struck. The two survivors were knocked unconscious but recovered. Their friend and co-worker was apparently killed instantly by the strike. M400U									
FLORIDA, Southern									
Dade County North Miami	03	1135EST			0	0	2K		Thunderstorm Wind (G55)
public reported carport damage and tree limbs down.									
Dade County (Mia)Miami Intl	03	1200EST			0	0			Funnel Cloud
one funnel cloud was sighted by mia tower west of the field. another was spotted 7nm se of mia. no touchdowns reported.									
FLZ074	09	0800EST			0	0			Flood
10	0800EST								
most of eastern dade county experienced flooding on the evening of june 9 as well as overnight and through the day june 10. official 24 hour rainfall amounts ending 0700 am est june 10 were:									
homestead general airport			9.17 inches						
tamiami airport			8.35						
miami international airport			5.97						
miami beach			4.22						
north dade			3.92						
unofficial reports include:									
southern homestead			16.36	(from sfwmd)					
cutler ridge			13.50						
south miami			10.00						
saga bay			9.86						
sunniland			9.55						
kendall			9.00						
country walk			8.69						
westchester			8.15						
miami beach			7.75						
flood reports by 1200 am june 10:									
12051 sw 208 ter...ankle deep water in house									
8391 nw 7 st...one to three inches of water in first floor townhouse									
between 107 ct/112 ave on kendall dr...under water									
between 152 st/158 st on sw 144 ave...under water									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Character of Storm	
					Killed	Injured	Property Crops	
FLORIDA, Southern								
			between 122 ave/127 ave on sw 112 st...flooded sw 187 st/87 ave...water to headlights between sw 128 st/136 st on 92 ave...flooding between 40 st/49 st on sw 67 ave...flooding 74 st/sw 59 ave...impassable kendall dr/sw 87 ave...two feet of water roads and area north of rickenbacker causeway and area ne of harbor/crandon...flooded between 94 ave/97 ave on sw 136st...several feet of water between sw 87 ave/83 ave and between 83 st/88 st...flooding kings creek between 79 ave/87 ave on sw 79 st...flooded sw117 ave/211 st...many people trapped in floating cars e of coral way/sw 87 ave...flooded canal at us1/sw 160 st...overflowed with several cars stuck between 152 st/184 st on sw 117 ave...impassable between 88 ave/97 ave on sw 136 st...flooded					
			by 0400 am june 10:					
			between 261 st/268 st and sw 122 ave/sw 127 ave...waist deep water between sw 152 ave/sw 157 ave on 304 st...waist deep water between 105 st/120 st on sw 122 ave...waist deep water 299 st/sw 152 ave...waist deep water					
Broward County Pembroke Pines	10	1800EST 1815EST	0.5	25	0	0	Tornado (F0)	
			several reports of tornado. no damage or injuries reported. movement was to south at 15 mph.					
Monroe County Marathon	11	1125EST			0	0	Waterspout	
			pilot reported					
Glades County Palmdale	11	1600EST			0	0	Funnel Cloud	
			motorist reported funnel cloud with possible touchdown. no injuries/damage reported.					
FLZ077			Monroe/Middle Keys					
	11	1730EST			0	0	Flood	
			monroe county e.m. reported parking lots, side streets and low lying areas flooded. 7.62 inches of rain was measured in marathon most falling between 1530 pm and 1730 pm.					
Broward County Deerfield Beach	12	1445EST			0	0	Funnel Cloud	
			reported by tv channel 7 moving east northeast					
FLZ072			Coastal Broward					
	12	1500EST			0	0	Flood	
			reports of street flooding in hollywood.					
Dade County Bal Harbour	14	1725EST 1745EST			0	0	Waterspout	
			reported by pilot and off-duty nws personnel					
FLZ074			Coastal Dade					
	14	1815EST 1930EST			0	0	Flood	
			near us1 and bird road in south miami three inches of rain fell in about one and one half hours resulting in street flooding up to two feet deep.					
Broward County Cooper	15	1230EST			0	0	Thunderstorm Wind (G55)	
			sw 160...signs and power poles down					
Broward County Davie	15	1230EST			0	0	15K Thunderstorm Wind (G55)	
			130 ave/sterling rd...signs and power poles down					
Dade County Biscayne Park	16 17	1037EST 1141EST			0	0	Waterspout	
			reported by public					

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
FLORIDA, Southern									
Broward County Sunrise Golf Vlg	16	1645EST 1700EST	1	50	0	1	1M		Tornado (F1) tornado touched down at commercial blvd/nob hill intersection. one car was flipped there. tornado moved southwest to near nw103 st/nw 45 ave. several roofs were damaged. numerous windows were broken. small trees were uprooted and power lines knocked down. several cars were damaged by flying debris.
Broward County Coral Spgs	17	1637EST 1700EST			0	0			Funnel Cloud funnel clouds reported by public near atlantic blvd/sawgrass expressway. thunderstorm cell moved to the northeast.
Broward County Coral Spgs	17	1645EST	0.1	25	0	0			Tornado (F0) brief touchdown observed over wildlife management area.
Broward County Dania	19	2320EST			0	0	10K		Thunderstorm Wind (G56) palm trees and power lines down. small hail also reported.
Dade County (Mia)Miami Intl	20	1550EST			0	0			Thunderstorm Wind (G61) reported by tower personnel at west end of mia.
Glades County Ortona	20	1945EST	0.2	25	0	0			Tornado (F0) reported by glades county e.m. near muce 10nm w of ortona.
Palm Beach County 15 WSW (Pbi)Palm Beach Arpt	21	1430EST			0	0			Funnel Cloud reported by pilot on ground.
Broward County 12 SE FII	21	1509EST			0	0			Funnel Cloud pilot reported moving south.
Collier County East Naples	21	1910EST			0	0			Funnel Cloud reported by naples p.d. near cooper drive.
Collier County Naples	21	1930EST	0.2	25	0	0			Tornado (F0) brief touchdown on ohio drive. trees down no damage to buildings.
Monroe County East Cape	22	0800EST			0	0			Waterspout 10nm w of east cape.
Dade County Florida City	22	0900EST			0	0			Funnel Cloud funnel observed near card sound road.
Hendry County La Belle	22	1210EST			0	0			Funnel Cloud reported near state route 80.
Hendry County La Belle	22	1210EST			0	0			Hail (1.50)
Collier County East Naples	23	1320EST			0	0			Funnel Cloud three funnels sighted. no touchdown.
Collier County Naples	24	1500EST			0	1			Lightning 30 yr old man inside garage with wrench in hand was thrown 10 feet away from back of truck on which he was working. unconscious about 10 minutes. held overnight for observation. location just north of alico road near u.s. 41.
Collier County Marco	24	1809EST			0	0			Waterspout reported by public.
Monroe County Key West Intl Arpt	28	0728EST			0	0			Funnel Cloud observed 8nm se of eyw.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Highlands County									
Avon Park	02	1120EST			0	0	0	0	Hail (1.75)
Polk County									
1.5 NW Auburndale to Auburndale	05	1905EST			0	0	0	0	Waterspout
A waterspout was observed on Lake Ariana near the Ariana Shores mobile home park.									
Polk County									
1.7 NW Auburndale	05	1911EST	0.1	5	0	0	3K	0	Tornado (F0)
A weak short-lived tornado touched down on the 1900 block of Ariana Boulevard and downed a few large trees and power lines before it lifted and dissipated.									
Lee County									
4 SSW Ft Myers	11	1320EST	0.2	5	0	0	16K	0	Tornado (F0)
A weak short-lived tornado touched down and damaged the metal roofs of three buildings and downed a few large trees atop vehicles on Barkley Circle, near the intersection of Summerlin Road and Colonial Boulevard.									
Polk County									
2 E Lakeland	11	1500EST 1900EST			0	0	0	0	Urban/Sml Stream Fld
Thunderstorms produced 5.50 inches of heavy rainfall in four hours and caused localized street flooding over eastern Lakeland.									
Pasco County									
Wesley Chapel	11	1650EST 1730EST			0	0	0	0	Heavy Rain
Thunderstorms produced 2.25 inches of heavy rainfall in less than one hour in Wesley Chapel along State Road 54.									
Polk County									
2 S Auburndale	11	1740EST	0.1	5	0	0	20K	0	Tornado (F0)
A weak short-lived tornado touched down and caused minor roof damage to a few homes, carports, porches and downed a couple of trees and power lines, in the Sun Acres area near County Road 542 and Thornhill Road.									
Hardee County									
5 N Wauchula	11	1955EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported along U.S. Highway 17 near Bowling Green.									
Charlotte County									
Port Charlotte	20	1640EST 1700EST			0	0	75K	0	Lightning
Lightning ignited nearly 20 fires in Port Charlotte.									
Charlotte County									
12 E Punta Gorda	20	1820EST			0	0	6K	0	Thunderstorm Wind
Thunderstorm winds rolled and demolished a 20-by-12 foot shed approximately 100 yards, downed a fence and uprooted a few small trees.									
De Soto County									
1 NW Arcadia to 1 NE Arcadia	20	1820EST 1825EST			0	0	100K	0	Thunderstorm Wind
Thunderstorm winds damaged a boat shed on the northwest side of Arcadia then severely damaged the roofs of two businesses on the north side of Arcadia. Numerous trees and power lines were downed by thunderstorm winds on the north and east side of Arcadia.									
De Soto County									
2 E Arcadia	20	1844EST	0.1	5	0	0	1K	0	Tornado (F0)
A short-lived tornado downed a few trees in a pasture near Hansel Road two miles east of Arcadia.									
Sarasota County									
30 S Sarasota	20	1900EST			0	0	185K	0	Lightning
Lightning ignited a fire that destroyed 5,060 acres of scrub and brush, destroyed one home, partly damaged another and damaged several vehicles, along a four mile stretch of River Road between U.S. Highway 41 and State Road 776.									
Hillsborough County									
Tampa	21	1720EST			0	0	1K	0	Thunderstorm Wind
Thunderstorm winds downed a tree at Shad and Porpoise Streets.									
Lee County									
.5 E Cape Coral to 1 SE Cape Coral	22	1335EST 1337EST			0	0	0	0	Waterspout
A waterspout formed over the Caloosahatchee River and eventually moved inland over Cape Coral.									
Lee County									
Cape Coral	22	1337EST 1345EST	2.7	10	0	0	214K	0	Tornado (F0)
A waterspout moved onshore as a tornado near SE 28th Street and SE 24th Place in Cape Coral and moved northwest. The									

Storm Data and Unusual Weather Phenomena

June 1997

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									
									tornado caused minor to moderate roof, carport, lanai, boat, power line and tree damage in the heavily residential area of eastern Cape Coral. A total of 92 residences sustained damage from the tornado. One boat was blown from dry-dock on land into a canal.
									The tornado moved northwest and crossed Everest Parkway and Del Prado Boulevard before it lifted near the intersection of SE 18th Street and SE 12th Place. Total damage estimated by Lee County Emergency Management and Cape Coral Fire officials was \$214,000 dollars.
Hernando County									
12 NW Brooksville	22	1345EST			0	0	0	0	Tstm Wind (G45)
									Thunderstorm winds of 45 to 50 mph downed a few tree limbs.
Sarasota County									
5 S Sarasota	22	1440EST			0	0	0	0	Hail (0.75)
Pinellas County									
St Petersburg	22	1600EST			0	0	0	0	Hail (0.75)
Hillsborough County									
6.5 N Tampa	22	1615EST			0	1	0	0	Lightning
									Lightning indirectly struck and slightly injured a man on Fairbanks Street. The lightning struck an object near the man's location and the sideflash of the bolt shocked the individual.
Manatee County									
1 N Bradenton	22	1650EST 1700EST			0	0	50K	0	Thunderstorm Wind
									Thunderstorm winds cause minor to moderate damage to the roofs of a few homes and downed numerous large tree limbs on the 500 block of 8th Avenue W. in Palmetto. Two homes in the Leisure Lake mobile home park also suffered roof damage near the 3000 block of U.S. Highway 41 North.
Pinellas County									
Seminole	23	1010EST			0	0	30K	0	Lightning
									Lightning struck, ignited and severely damaged the roof and garage of a home on Crown Drive near the Intercoastal Waterway in Seminole.
Lee County									
Lehigh Acres	23	1420EST			0	0	0	0	Tstm Wind (G40)
									Thunderstorm winds of 45 mph downed a few tree limbs in Lehigh Acres.
Lee County									
Ft Myers	23	1538EST			0	0	0	0	Lightning
									Lightning struck and splintered a tree in Ft Myers.
Manatee County									
Bradenton	23	1620EST			0	0	10K	0	Lightning
									Lightning struck and knocked out the main radio system of the communications center of the Florida Highway Patrol along State Road 70.
Manatee County									
Bradenton	23	1635EST			0	1	2K	0	Lightning
									Lightning initially struck a large tree with a sideflash that entered the home through the roof of a Bradenton resident. The resident was shocked by lightning inside his home.
Pasco County									
Holiday	24	1430EST 1630EST			0	0	0	0	Heavy Rain
									Heavy rain of three to five inches in two hours occurred along the U.S. Highway 19 corridor in Holiday.
Pinellas County									
Tarpon Spgs	24	1430EST 1645EST			0	0	50K	0	Urban/Sml Stream Fld
									Heavy rain of three to five inches in two hours caused localized street flooding along U.S. Highway 19 from Tarpon Springs north to the Pinellas-Pasco county line. The hardest hit area was near the intersections of Bellair Road, Drew Street and U.S. Highway 19 where up to eight vehicles stalled in the rising rainwater.
Charlotte County									
3 NW Placida to Placida	24	1519EST			0	0	20K	0	Thunderstorm Wind
									A boat was capsized by thunderstorm winds near Don Pedro and Little Gasparilla islands.
Lee County									
Ft Myers	24	1530EST			0	0	5K	0	Lightning
									Lightning struck and toppled two trees on top of a home on the 5500 block of 4th Street in Fort Myers.
Hillsborough County									
16 SSE Tampa	24	1545EST 1550EST			0	0	2K	0	Thunderstorm Wind
									Thunderstorm winds downed a few large trees which damaged a home in Ruskin.

Storm Data and Unusual Weather Phenomena

June 1997

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 Lakeland	24	1552EST			0	0	10K	0	Tstm Wind (G45) Thunderstorm winds up to 50 mph caused minor porch roof and skirting damage to 16 to 20 mobile homes in the Pine Lakes Estates and Imperial Lakes subdivision in Lakeland.
Hillsborough County 11 ESE Tampa to 11 ENE Tampa	24	1555EST 1605EST			0	0	5K	0	Thunderstorm Wind Numerous reports of large trees downed by thunderstorm winds from Brandon north to Mango.
Pinellas County Palm Harbor	24	1600EST			0	0	75K	0	Lightning Lightning struck and sent a power surge through the electrical system of a home on Omaha Street in Palm Harbor. The electrical surge caused by the lightning strike touched off a blaze which consumed the home.
Pasco County Holiday	24	1615EST			0	0	0	0	Thunderstorm Wind (G52) Thunderstorm wind gust of 60 mph was reported by a Skywarn Spotter.
Hillsborough County 12 SSE Tampa	24	1642EST			0	0	10K	0	Lightning Lightning struck the rooftop vent on a home in Apollo Beach and caused major damage to the upper exterior of the house.
Lee County 9 E Ft Myers	25	1445EST			0	0	0	0	Hail (0.75) Dime sized hail was reported in the Buckingham area of eastern Lee county.
Lee County 2 N Ft Myers	25	1500EST			0	0	1K	0	Tstm Wind (G45) Thunderstorm winds of 45 to 50 mph caused minor roof damage to two mobile homes.
Polk County 5 SW Lakeland	25	1600EST			0	0	125K	0	Thunderstorm Wind (G75) Thunderstorm wind gusts of 86 mph were observed at the Lakeland Municipal Airport. The thunderstorm winds flipped over a Cessna 152 trainer aircraft, damaged several others and damaged three hangers.
Polk County 5 SW Lakeland	25	1600EST			0	0	0	0	Hail (0.75)
Hillsborough County 8 N Tampa	25	1633EST			0	0	0	0	Hail (1.00) Quarter to dime sized hail was reported along State Road 597 (Dale Mabry Highway) between Erlich and Van Dyke roads.
Hardee County 3 N Wauchula	25	1637EST			0	0	0	0	Hail (0.75) Dime sized hail was reported along U.S. Highway 17 between Bowling Green and Wauchula.
Pasco County 16 E Port Richey	25	1659EST			0	0	0	0	Hail (1.75) Golfball sized hail was reported in Land O' Lakes along U.S. Highway 41.
Hernando County Spring Hill	25	1700EST			0	1	10K	0	Lightning Lightning struck the roof of a house on Hathaway Street in Spring Hill which surged through the home's electrical system. Damage occurred to the electrical wiring system throughout the house. A woman was slightly injured when a spark from the electrical surge struck her thumb.
Pinellas County Tarpon Spgs	25	1709EST			0	0	2K	0	Thunderstorm Wind Thunderstorm winds downed four large pine trees on Sailfish Drive.
Hernando County 2 SW Brooksville	25	1715EST			0	0	10K	0	Lightning Lightning struck and killed seventeen cows that were clumped in a circle under a tree on a pasture near Powell Road and Spring Hill Drive.
Hernando County 2 S Brooksville	25	1720EST			0	0	20K	0	Thunderstorm Wind Thunderstorm winds rolled a mobile home fifteen feet into a metal barn which caused severe damage to both the mobile home and barn. Several large oak trees were also uprooted at the damage site.
Hernando County Brooksville	25	1720EST			0	0	80K	0	Lightning Lightning struck and burned to the ground a pole barn worth \$50,000 dollars on Sam C. Road in Brooksville. Lightning also struck a tree on Sims Road in Brooksville which ignited and destroyed a nearby garage worth \$30,000 dollars.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Pasco County									
7 NW Dade City	25	1735EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds downed several trees near the intersection of Interstate 75 and State Road 41.									
Lee County									
8 S Ft Myers	26	1450EST	0.1	5	0	0	0.50K	0	Tornado (F0)
A weak tornado briefly touched down and destroyed a shed at the intersection of Gladiolus and Johnson Streets.									
Sarasota County									
8 SSE Sarasota	26	1600EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported near U.S. Highway 41 and Bee Ridge Road by a Skywarn Spotter.									
Polk County									
Lakeland to Winter Haven	26	1700EST			0	0	50K	0	Lightning
Lightning strikes to power lines and transformers caused nearly 10,000 electrical customers from Lakeland to Winter Haven to loose power.									
Hillsborough County									
8 E Tampa	26	1727EST			0	0	0	0	Thunderstorm Wind (G57)
A Skywarn Spotter reported a wind gust to 65 mph near the intersection of I-75 and State Road 574.									
Hillsborough County									
8 E Tampa	26	1740EST			0	0	0	0	Thunderstorm Wind (G75)
A Skywarn Spotter reported dime sized hail near the intersection of Interstate 75 and State Road 574.									
Polk County									
2 S Auburndale	26	1758EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds removed and severely damaged two carports at State Road 542 and Ellie Road.									
Polk County									
Lakeland	26	1800EST			0	0	100K	0	Thunderstorm Wind
Numerous trees and power lines were downed throughout Lakeland by thunderstorm winds. An auto dealership on U.S. Highway 98 suffered damage to vehicles and a restaurant on East Memorial Blvd. lost a large section of it's roof from thunderstorm wind.									
Polk County									
7 NE Lakeland to 8 NE Lakeland	26	1810EST			0	0	0	0	Hail (0.88)
Nickel to dime sized hail was reported at the vicinity of U.S. Highway 98 between Edgewood and Combee Streets.									
Polk County									
5 NE Lakeland	26	1820EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported near Bartow Highway and Crystal Lake Drive.									
Polk County									
3 E Lakeland	26	1835EST			0	0	50K	0	Hail (1.50)
Ping pong sized hail damaged the surfaces of a few vehicles at U.S. Highway 92 and Combee Road.									
Pinellas County									
Largo	28	1330EST			0	1	0	0	Lightning
A 33 year old male was struck and injured by a sideflash of lightning while standing ten feet away from a tree that took a direct lightning strike at Ridgecrest Park on the 12000 block of Ulmertown Road.									
Pinellas County									
Largo	28	1405EST			0	1	0	0	Lightning
A 20 year old male was injured by a nearby lightning strike while walking between two trailers at the Pine Grove mobile home park on the 4600 block of East Bay Drive. The injured male complained of a tingling sensation in his feet from the lightning charge.									
Polk County									
Lakeland	28	1515EST			0	0	50K	0	Lightning
Lightning strikes to power lines and transformers knocked out power to about 3,000 electrical customers in Lakeland									
Polk County									
12 N Lakeland	28	1530EST			0	9	3K	0	Thunderstorm Wind
Thunderstorm winds tore the roof off the porch and kitchen of a home near U.S. Highway 98 and Rockridge Road.									
FLORIDA, West Panhandle									
Okaloosa County									
Baker	20	1255CST 1257CST			0	0			Hail (0.75)
Dime size hail was reported in the Baker community.									
Okaloosa County									
Baker	20	1255CST 1257CST			0	0	1K		Thunderstorm Wind (G50)
Several trees were blown down near the Baker community.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, West Panhandle</u>									
Santa Rosa County									
Munson	20	1300CST 1302CST			0	0			Hail (0.75)
			Dime size hail was reported in the Munson community.						
Santa Rosa County									
Munson	20	1300CST 1302CST			0	0	1K		Thunderstorm Wind (G50)
			Several trees were blown down in the Munson community.						
Okaloosa County									
Crestview	20	1320CST			0	0	5K		Lightning
			Two houses were struck by lightning and caught on fire. Both fires were put out with minimal damage to the homes.						
<u>GEORGIA, East Central</u>									
Mcduffie County									
8 S Thomson	20	1443EST			0	0			Hail (0.88)
			Sheriff reports nickel size hail near Georgia Highway 17 in the southern part of the county.						
Burke County									
1 S Waynesboro	23	1558EST			0	0			Hail (0.75)
			Sheriff reported 3/4 inch hail and a tree down across a road just south of Waynesboro.						
Burke County									
Keysville	25	2035EST			0	0			Thunderstorm Wind (G50)
			Post Office reports a few trees and powerlines down in Keysville.						
Burke County									
Keysville	25	2039EST			0	0			Hail (0.75)
			Post Office reports dime size hail in and around Keysville.						
<u>GEORGIA, Lower</u>									
Echols County									
Statenville	01	1600EST			0	0	0.60K		Thunderstorm Wind
			Large trees were blown down and blocked SR-135 and 129.						
Atkinson County									
Willacoochee	01	1630EST			0	0			Hail (2.00)
Coffee County									
5 W Douglas	01	1630EST			0	0			Hail (2.00)
Coffee County									
5 S Douglas	01	1630EST			0	0	0.50K		Thunderstorm Wind
			Large trees were blown down.						
Camden County									
Woodbine	02	1930EST			0	0	0.50K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Camden County									
Burnt Fort	02	1935EST			0	0	0.70K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Glynn County									
Jekyll Is	02	1950EST			0	0			Hail (0.75)
Camden County									
Woodbine	02	1930EST			0	0	0.50K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Camden County									
Burnt Fort	02	1935EST			0	0	0.80K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Glynn County									
Jekyll Is	02	1950EST			0	0			Hail (0.75)
Jeff Davis County									
3 S Hazelhurst	18	1320EST			0	0			Hail (0.75)
Pierce County									
Blackshear	23	1510EST			0	0	0.80K		Thunderstorm Wind
			Large trees were blown down.						
Camden County									
Woodbine	26	1530EST			0	0	0.50K		Thunderstorm Wind
			Large trees and power lines were blown down.						

Storm Data and Unusual Weather Phenomena

June 1997

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

Glynn County
Brunswick

26	1730EST				0	0	0.50K		Thunderstorm Wind
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Large trees and power lines were blown down.

GEORGIA, North and Central

GAZ001>009-011>016-019>025-027-030>039-041>062-066>076-078>086-091>098-103>113
Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Wilkes - Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - Taliaferro - Heard - Coweta - Fayette - Clayton - Spalding - Henry - Butts - Jasper - Putnam - Hancock - Warren - Troup - Meriwether - Pike - Upson - Lamar - Monroe - Jones - Baldwin - Washington - Glascock - Jefferson - Harris - Talbot - Taylor - Crawford - Bibb - Twiggs - Wilkinson - Johnson - Emanuel - Marion - Schley - Macon - Peach - Houston - Bleckley - Laurens - Treutlen - Webster - Sumter - Dooly - Crisp - Pulaski - Wilcox - Dodge - Telfair - Wheeler - Montgomery - Toombs

01	0000EST				0	0			Unseasonably Cool
11	2359EST								

Unseasonably cool temperatures prevailed across north and central Georgia the first 11 days of June. High temperatures were in the 60s and 70s while lows were in the 50s and 60s. The resultant average temperatures ranged from 5 to 15 degrees below normal. Record low maximum temperatures were established on 4 consecutive days from the 5th through the 8th in Atlanta.

Henry County
Hampton

01	1520EST				0	0			Hail (0.75)
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Wilcox County
Rochelle to Abbeville

01	1710EST 1720EST				0	0	4K		Thunderstorm Wind
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Numerous trees downed between Rochelle and Abbeville.

Telfair County
Mc Rae to Jacksonville

01	1726EST 1730EST				0	0			Hail (1.75)
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Monroe County
Juliette

01	1810EST				0	0			Hail (0.75)
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Laurens County
Dublin

01	1829EST				0	0			Hail (0.75)
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Laurens County
Montrose

01	1855EST				0	0			Hail (1.75)
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Toombs County
Vidalia

01	2000EST				0	0	25K		Thunderstorm Wind
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Thunderstorm winds overturned one airplane and damaged two others. The roof was torn off of one building and two side panels were damaged. Two other buildings and a car were also damaged. Several power lines were downed in the area.

Toombs County
Vidalia

01	2005EST 2015EST				0	0			Hail (1.00)
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Toombs County
Lyons

01	2025EST				0	0			Hail (0.75)
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Emanuel County
Swainsboro

01	2045EST 2100EST				0	0			Hail (0.75)
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Oconee County
3 N Eastville

12	2051EST				0	0			Hail (0.75)
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Houston County
Perry

13	2010EST				0	0	2K		Thunderstorm Wind
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Thunderstorm winds knocked down trees, which were blocking the intersection of Georgia highway 247 and Arena Road. Power lines were also snapped in the same area.

Crisp County
Cordele

13	2017EST				0	0	10K		Thunderstorm Wind
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Thunderstorm winds caused structural damage to at least 5 homes when tree limbs fell on them. Several large trees were also downed on power lines and covering roads. Two hundred people were without power for several hours.

Laurens County
5 N Dublin

13	2040EST				0	0	3K		Thunderstorm Wind
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Several power lines were knocked down by fallen trees and numerous tree limbs were knocked down across northern Laurens

Storm Data and Unusual Weather Phenomena

June 1997

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									
county.									
Floyd County									
2 NE Cave Spg to 5 E Cave Spg	13	2220EST 2225EST			0	0			Hail (1.00)
Dime to quarter sized hail was reported.									
Floyd County									
1 SE Rome to 3 E Rome	13	2230EST 2235EST			0	0			Hail (1.00)
Dime to quarter sized hail was reported.									
Polk County									
4 W Rockmart to Rockmart	13	2250EST 2305EST			0	0			Hail (0.75)
Whitfield County									
Rocky Face	13	2258EST 2300EST			0	0			Hail (1.00)
Whitfield County									
Tunnel Hill	13	2310EST			0	0			Hail (1.00)
Bartow County									
1 N Adairsville	13	2315EST			0	0			Hail (0.75)
Whitfield County									
Varnell	13	2335EST 2340EST			0	0			Hail (0.75)
Whitfield County									
1 S Tilton	13	2355EST			0	0			Hail (0.75)
Emanuel County									
4 W Swainsboro	14	1148EST			0	0	4.5K		Thunderstorm Wind
Thunderstorm winds damaged an out building and knocked down several trees. Power lines were snapped by fallen trees in the Cowford Bridge Road area.									
Johnson County									
Wrightsville	14	1200EST			0	0	2K		Thunderstorm Wind
A couple of trees were knocked down on Snell Bridge Road.									
Harris County									
Whitesville	14	1330EST			0	0	1K		Thunderstorm Wind
Trees were knocked down in the Pine Valley Road area.									
Crawford County									
Roberta	14	1445EST			0	0	1K		Thunderstorm Wind
Power outages were reported when at least two trees fell on power lines.									
Bleckley County									
Cochran	14	1530EST 1600EST			0	0	3.5K		Thunderstorm Wind
Numerous trees were knocked down countywide by thunderstorm winds. Power outages resulted when tree limbs fell on power lines.									
Gwinnett County									
Buford	14	1530EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds caused minor structural damage to a home.									
Pulaski County									
6 NW Hawkinsville	14	1545EST			0	0	2K		Thunderstorm Wind
Trees were knocked down on Buck Creek road off of Georgia Highway 247.									
Dodge County									
5 NW Eastman to Eastman	14	1615EST			0	0	2.5K		Thunderstorm Wind
Several trees were knocked down along Georgia Highway 87.									
Laurens County									
Cedar Grove	14	1623EST			0	0	2.5K		Thunderstorm Wind
Several trees were knocked down on Georgia Highway 441 (southbound) as thunderstorms passed through the county.									
Telfair County									
Mc Rae	14	1630EST			0	0	2.5K		Thunderstorm Wind
Several trees and limbs were knocked down on Third Avenue near Georgia Highway 441 in Mc Rae.									
Wheeler County									
5 W Glenwood	14	1630EST			0	0	0.50K		Tstm Wind/Hail
A tree was knocked down and nickel sized hail reported off Georgia Highway 30.									

Storm Data and Unusual Weather Phenomena

June 1997

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									
Montgomery County									
Mt Vernon	14	1645EST			0	0	3K		Thunderstorm Wind
			Two large tree limbs were snapped off near Georgia Highways 280 and 221.						
Toombs County									
5 SW Vidalia	14	1715EST			0	0	7.5K		Thunderstorm Wind
			Trees were downed across the road on Lions Center Road, as well as on a mobile home in the same area.						
Hall County									
Gainesville	14	1735EST			0	0			Hail (0.90)
Forsyth County									
7 S Cumming to Cumming	17	1240EST			0	0	3K		Thunderstorm Wind
			Trees were knocked down in southern Forsyth county near Sharron.						
Fulton County									
Ft Mc Pherson	17	1410EST			0	0	1.5K		Thunderstorm Wind
			A large tree and several limbs were reported downed on Cobb Street.						
De Kalb County									
Clarkston	17	1433EST			0	0	7K		Thunderstorm Wind
			Damage was reported at the Foxtrail apartments on North Indian Creek Road due to thunderstorm winds.						
Macon County									
Oglethorpe to 10 E Montezuma	18	1105EST 1130EST			0	0	10K		Thunderstorm Wind
			Numerous trees were blown down beginning near Georgia Highway 26 in Oglethorpe, and continuing to the Houston county line. The windows were also blown out of the Huddle House restaurant in Montezuma.						
Wilkinson County									
Nickelsville	18	1225EST			0	0	2K		Thunderstorm Wind
			Several trees were knocked down and power lines snapped on Georgia Highway 112.						
Bleckley County									
Cochran	18	1230EST			0	0	3K		Thunderstorm Wind
			Structural damage to a home and barn resulted from thunderstorm winds. A car was also blown off the blocks it was resting on.						
Twiggs County									
Jeffersonville	18	1230EST			0	0	5K		Thunderstorm Wind
			Numerous tree limbs were knocked down and several power lines were snapped countywide.						
Laurens County									
Dublin	18	1240EST			0	0	2K		Thunderstorm Wind
			Several to numerous tree limbs were downed on Georgia Highway 19 just south of Dublin near Popuar Church Road.						
Washington County									
Sandersville	18	1300EST			0	0	1K		Thunderstorm Wind
			Several trees were downed on Georgia Highway 15 (southbound).						
Toombs County									
1 E Vidalia	18	1301EST			0	0	1.5K		Thunderstorm Wind
			Several tree limbs were blown down.						
Johnson County									
Wrightsville	18	1305EST			0	0	3K		Thunderstorm Wind
			Two trees were knocked down on Georgia Highways 15 and 57.						
Treutlen County									
3 S Soperton	18	1305EST			0	0	2K		Thunderstorm Wind
			Several trees were knocked down on Georgia highway 166.						
Jefferson County									
17 SE Louisville	18	1315EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds knocked down trees and tree limbs along Georgia Highway 17.						
Fayette County									
Peachtree City	20	1923EST 1939EST			0	0			Hail (0.90)
Coweta County									
Newnan to Sharpsburg	20	1949EST 2000EST			0	0			Hail (0.90)
			Dime to nickel sized hail was reported throughout the area between Newnan and Sharpsburg.						
Gwinnett County									
Norcross	20	2020EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GEORGIA, North and Central</u>									
Fayette County Peachtree City	20	2025EST			0	0	1K		Thunderstorm Wind
									Two trees were knocked down by thunderstorm winds.
De Kalb County Dunwoody	20	2034EST 2055EST			0	0			Hail (0.90)
									Dime to nickel sized hail was reported.
Fulton County Alpharetta	20	2100EST 2113EST			0	0			Hail (0.90)
									Dime to nickel sized hail was reported
Forsyth County Cumming	20	2115EST 2121EST			0	0			Hail (1.00)
Gwinnett County Buford	21	1444EST			0	0			Hail (0.75)
Jackson County Braselton to 5 N Braselton	21	1505EST 1514EST			0	0			Hail (0.75)
Hall County Flowery Branch	21	1507EST			0	0			Hail (1.00)
Hall County Chestnut Mtn	21	1510EST 1530EST			0	0			Hail (1.75)
									Dime to golfball sized hail was reported.
Hall County Oakwood	21	1535EST			0	0			Hail (0.75)
Houston County Warner Robins	24	2115EST 2120EST			0	0	8K		Thunderstorm Wind
									Several trees down. Fallen trees damaged numerous homes and businesses. A mobile home trailer was also knocked over.
Walton County Loganville	25	0059EST 0117EST			0	0	50K		Lightning
									Two separate fires were reported, one at 1:59 and one at 2:17 local times. Both fires were the result of lightning strikes. The first was a house fire which caused minor damage to the attic area of the home. The second was at a day care center where the roof was hit. By the time fire fighters arrived on the scene the entire side of the building was engulfed. The structure ended up being a total loss.
Baldwin County Milledgeville to Stevens Pottery	25	1835EST 1841EST			0	0	2K		Thunderstorm Wind
									Several trees were knocked down.
Wilkinson County Ivey	25	1845EST			0	0	3K		Thunderstorm Wind
									Several trees were knocked down.
Walton County Loganville	25	1950EST			0	0			Hail (1.75)
Walton County Loganville	25	1950EST			0	0	15K		Thunderstorm Wind (G68)
									Several to numerous trees were knocked down
Gwinnett County Lawrenceville	25	2010EST			0	0	2K		Thunderstorm Wind
									Several power lines were snapped.
Floyd County Rome	28	1915EST 2015EST			0	0	10K		Flash Flood
									Several streets were flooded, including Redmon and Martha Berry Streets. At 9:00 pm 3.6 inches of rainfall was reported, and by 9:15 4.5 inches of rainfall was reported in the area. Seventy to eighty people were evacuated from a public housing project. Thirty apartments were damaged by water.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GEORGIA, North and Central</u>									
Troup County									
6 N La Grange to La Grange	28	2205EST 2240EST			0	0	10K		Flash Flood
Whitfield road was closed due to water covering the road north of La Grange. Troup county 911 also reported a creek was flooding Hightower Road..									
<u>GEORGIA, Northeast</u>									
Stephens County									
Toccoa Falls	14	1645EST 1655EST			0	0			Hail (0.75)
Habersham County									
Tallah Falls	14	1745EST 1755EST			0	0			Hail (0.88)
Severe thunderstorms caused large hail at a couple of locations in northeast Georgia.									
Habersham County									
Clarksville	21	1600EST 1610EST			0	0			Hail (0.75)
A severe storm caused large hail.									
Stephens County									
3 NE Toccoa	22	1613EST 1623EST			0	0			Hail (0.88)
Large hail fell near Lake Hartwell.									
<u>GEORGIA, Southeast</u>									
Bulloch County									
1 W Register to Register	01 02	2355EST 0130EST			0	0	10K		Flood
Several roads were washed out when over three inches of rain fell in just over 1 hour.									
Candler County									
Pulaski	14	1215EST 1218EST			0	0			Thunderstorm Wind (G50)
Trees down and sheds overturned.									
Screven County									
Newington	14	1230EST 1235EST			0	0			Thunderstorm Wind (G50)
Several trees down.									
Bulloch County									
5 SSW Statesboro	14	1305EST 1310EST			0	0			Thunderstorm Wind (G50)
Trees and limbs down.									
Tattall County									
2 S Reidsville	14	1312EST 1315EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Evans County									
Claxton	14	1740EST 1745EST			0	0			Thunderstorm Wind (G50)
Powerlines down.									
Bryan County									
3 SW Pembroke to 5 SSW Pembroke	14	1800EST 1806EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Long County									
Ludowici	14	1815EST 1818EST			0	0			Thunderstorm Wind (G50)
Trees and large limbs down.									
Screven County									
Newington	17	1730EST 1734EST			0	0			Thunderstorm Wind (G50)
Trees down.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GEORGIA, Southeast</u>									
Liberty County									
Midway	17	1755EST 1758EST			0	0			Thunderstorm Wind (G50)
Tattnall County									
Glennville	18	1340EST 1343EST			0	0			Thunderstorm Wind (G50)
									Trees and powerlines down.
Bulloch County									
1 W Register to 2 W Stilson	18	1358EST 1415EST			0	0			Thunderstorm Wind (G50)
									Numerous trees and powerlines down over the southern half of the county.
Screven County									
5 SW Sylvania	18	1416EST 1420EST			0	0			Thunderstorm Wind (G50)
									Trees and powerlines down.
Jenkins County									
Millen	18	1420EST 1423EST			0	0			Thunderstorm Wind (G50)
									Several trees down.
Effingham County									
4 SSW Guyton to 4 NW Guyton	18	1433EST 1437EST			0	0			Thunderstorm Wind (G50)
									Large branches and powerlines down.
Jenkins County									
5 S Millen	23	1755EST 1800EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Screven County									
2 SW Sylvania	23	1840EST 1845EST			0	0			Thunderstorm Wind (G50)
									Several trees down.
Mcintosh County									
Crescent	27	1800EST 1805EST			0	0			Thunderstorm Wind (G50)
									Numerous trees down.
Tattnall County									
Mendes	27	1915EST 1920EST			0	0			Thunderstorm Wind (G50)
									Trees down.
<u>GEORGIA, Southwest</u>									
Dougherty County									
Putney	01	1504EST			0	0			Hail (0.75)
									SKYWARN spotter reported hail covering the ground.
Berrien County									
5 SE Nashville to 5 E Alapaha	01	1555EST 1615EST			0	0	20K		Hail (1.75)
									Large hail fell across eastern parts of the county according to the sheriffs office.
Tift County									
Tifton	01	1645EST			0	0	10K		Thunderstorm Wind
Tift County									
Tifton	01	1650EST			0	0			Hail (0.75)
									Several large trees were downed in the Tifton area. A roof of a Food Lion store was damaged and a tree fell onto an apartment building. Hail the size of dimes was also reported.
Ben Hill County									
6 NE Fitzgerald	01	1710EST			0	0			Hail (1.75)
									Hail was reported over eastern parts of the county.
Irwin County									
Ocilla	01	1720EST			0	0			Hail (0.75)
									The sheriffs office reported dime sized hail.
Brooks County									
6 W Quitman	02	1420EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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

GEORGIA, Southwest

Dime sized hail fell according to reports from the public.

Thomas County 3 E Thomasville	02	1535EST			0	0			Hail (0.75)
									Sheriffs office reported dime sized hail.
Terrell County Pleasant Hill	14	1702EST			0	0	0.50K		Thunderstorm Wind
									A few trees were blown down around Pleasant Hill.
Lee County Leesburg	14	1725EST			0	0			Hail (0.75)
									Hail was reported to have fallen all around Leesburg.
Lee County Leesburg	14	1725EST			0	0	0.50K		Thunderstorm Wind
									Several trees were blown down in Leesburg.
Baker County 3 N Newton	14	2033EST			0	0	0.10K		Thunderstorm Wind
									A large pine tree was blown down onto highway 91.
Decatur County 10 NE Bainbridge	14	2230EST			0	0	2K		Thunderstorm Wind
									Trees and power lines were reported blown down.

GEORGIA, West Central

NONE REPORTED.

HAWAII

HIZ004			Island Of Hawaii		0	0			High Wind (G56)
	10	1030HST 1830HST							Strong and gusty trade winds accelerated across the South Kohala District downslope from Waimea to Waikoloa and Kawaihae. Winds of 40 mph with frequent gusts of 55 to 65 mph were recorded at Kawaihae.
Maui County 6 NW Kaunakakai	18	1445HST			0	0			Funnel Cloud
									A funnel cloud was sighted in the vicinity of the Molokai Airport.
HIZ003			Maui		0	0			High Wind (G72)
	19	1800HST							The Mees Observatory at the summit of Haleakala recorded gusts to 83 mph.
	20	1800HST							
HIZ004			Island Of Hawaii		0	0			High Wind (G52)
	19	1800HST							Winds of 45 to 60 mph were recorded near the summit of Mauna Kea.
	21	0100HST							
									A mid and upper level low pressure center moving west across the Island of Hawaii and to the south of Maui produced strong easterly winds along the summits and upper slopes of the volcanoes on both islands.
Hawaii County Holualoa	25	1300HST 1730HST			0	0			Urban/Sml Stream Fld
									Stationary showers and thunderstorms brought 2 to 3 inch rains to the North Kona District in three hours. Runoff and debris partially blocked the Hualalai Road-Mamalahoa Highway Junction in Holualoa.
Hawaii County Hilo	25	2000HST 2230HST			0	0			Urban/Sml Stream Fld
									Hilo police reported minor flooding of several intersections in downtown Hilo. Rainfall rates of 1.6 inches per hour were recorded at Waiakea Uka.
Hawaii County Hilo	26	0430HST 1100HST			0	0			Urban/Sml Stream Fld
									Additional rains in the Hilo and Puna Districts, with nearly 4 inches recorded at the Hilo Airport between 2 a.m. and 8 a.m., caused minor flooding of streets and low lying areas in both districts. A landslide at Maulua Gulch just southeast of Laupahoehoe closed one lane of Mamalahoa Highway for a short time, and a second landslide closed a four mile stretch of highway between Pepeekeo and Papaikou. The subdivisions of Hawaiian Acres and Orchidland Estates in Puna were closed due to flooded roads.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>HAWAII</u>									
HIZ001>006			Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai						
	27	0700HST			0	0			High Surf
	29	1300HST							
	A storm low southeast of New Zealand generated swell that produced surf of 4 to 7 feet and occasional sets to 10 feet along the south facing shores of the islands.								
Hawaii County									
Honaunau	30	1545HST 1745HST			0	0			Urban/Sml Stream Fld
	Localized heavy showers in South Kona flooded a small stream in Honaunau.								
<u>IDAHO, Extreme Southeast</u>									
	NONE REPORTED.								
<u>IDAHO, North</u>									
	NONE REPORTED.								
<u>IDAHO, Northwest</u>									
Bonner County									
Sandpoint	17	1510PST			0	0	0	0	Tstm Wind/Hail
	1/2 inch hail								
Bonner County									
Priest River	17	1545PST			0	0	0	0	Hail (0.75)
	3/4 inch hail								
<u>IDAHO, Southeast</u>									
Caribou County									
1.5 NW Grace	11	1800MST 1905MST			0	0			Heavy Rain
	1.5 inches of rain and 1/4 inch hail from storm								
Bonneville County									
Idaho Falls	12	1120MST 1150MST			0	0			Heavy Rain
	Heavy rain flooded and closed several street underpasses with water also in a few basements. 1.19 inches of rain recorded at Channel 3 news studio. Hail up to 1/2 inch diameter was also observed downtown.								
Cassia County									
12 S Oakley	12	1450MST 1505MST			0	0			Heavy Rain
	0.70 inch of rain in 15 minutes.								
Bannock County									
5 E Pocatello	13	1408MST 1410MST			0	0			Funnel Cloud
	Brief funnel cloud east of Pocatello.								
Bannock County									
2 SE Inkom	13	1430MST			0	0			Flash Flood
	Water flooded across Highway 91 washing debris onto road.								
Power County									
10 SW Pocatello Arpt	13	1450MST			0	0			Funnel Cloud
	Brief funnel cloud.								
Minidoka County									
6 NE Rupert	13	1500MST 1510MST			0	0			Heavy Rain
	Extremely heavy rain and 1/4 inch diameter hail. Hail covered the ground. Water ponded 2 to 3 inches on road.								
Bingham County									
4 N Aberdeen	13	1520MST 1525MST			0	0			Heavy Rain
	Heavy rain reduced visibility to 1/2 mile with water covering Highway 39.								
Power County									
2 SE Neeley	13	1525MST 1535MST			0	0			Flash Flood
	Cold Creek flooded with violently/muddy flows and debris working downstream.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
IDAHO, Southeast								
Cassia County 2 S Malta	13	1630MST 1730MST			0	0		Heavy Rain
			1.25 inches of rain in past hour. Low areas flooded.					
Cassia County 3 S Oakley	13	1640MST			0	0		Flash Flood
			Water flooded across Goose Creek Road for 1/8 mile stretch. Hail up to 3/8 inch diameter also observed.					
Minidoka County 2 N Rupert	14	1757MST 1800MST			0	0		Tstm Wind/Hail
			Strong winds up to 50 mph were accompanied by heavy rain and pea-size hail with visibility reduced to 1/4 mile.					
Bannock County Pocatello	17	2018MST			0	0	1M	Lightning
			Lightning struck the new LDS Institute on the ISU campus. The fire which resulted caused the roof to collapse and set back construction 3 months.					
Teton County 2 SW Victor	17	2118MST 2123MST			0	0		Tstm Wind/Hail
			Thunderstorm wind gust to 50 mph. 0.25 inch of rain also recorded in 5 minutes.					
Bannock County 2 NE Pocatello	17	2206MST 2256MST			0	0		Heavy Rain
			0.45 inch of rain in past 50 minutes.					
Bannock County Pocatello	18	0010MST			0	0		Urban/Sml Stream Fld
			Pocatello police reported water flooding N. Main.					
Bannock County Lava Hot Spgs to Lava Hot Springs	18	1020MST 1030MST			0	0		Tstm Wind/Hail
			Very heavy rain with hail 1/4 to 1/2 inch diameter.					
Caribou County Grace to 3 E Grace	18	1255MST 1305MST			0	0		Funnel Cloud
			Funnel cloud extended half way to ground.					
Caribou County Grace	18	1257MST			0	0		Hail (1.75)
			Hail nickel to golfball-size observed by sheriff and other storms spotters in Grace area.					
Caribou County Conda	18	1330MST			0	0		Hail (1.00)
Fremont County Ashton	18	1415MST			0	0		Hail (1.50)
			Hail sizes ranged from one to 1.5 inches.					
Clark County 15 W Dubois	30	1800MST 1801MST	0.2	25	0	0	3K	Tornado (F0)
			A tornado briefly touched down taking shingles off a home and destroying a 24X30' shed. The tornado was observed by two people; one in the home damaged with another about 1/2 mile to the southeast.					

IDAHO, Southwest

IDZ016>018-020>021-023

Western Magic Valley - Eastern Magic Valley - Salmon/Sawtooth Mountains - Upper Snake River Plain - Lower Snake River Plain - Caribou Highlands

01 0000MST 0 0 50M Flood
30 2359MST

During the month of June the spring melt of near record snowpack in Idaho's mountains caused extensive flooding along the Snake River and many of its tributaries. The highest river flows in nearly 70 years were noted along the Middle Snake River, with numerous gages setting new record stages. The flood inundated lowlands along a 225 mile stretch of the river.

Damage was extensive to irrigation canals, roads including interstate 15, levees, farmland and homes. Ten counties were declared local disaster areas. Estimates indicate that over 1,000 people were evacuated, and 250 to 300 homes were flooded. Over 50,000 acres were inundated and 26 irrigation canals were severely damaged. A major water supply pipeline to the city of Twin Falls was threatened during the high water as debris flowed into it. The Idaho Governor's office estimated 50 million dollars in damage was inflicted by the flood.

Storm Data and Unusual Weather Phenomena

June 1997

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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IDAHO, Southwest

Various stretches of the Snake River and Henrys Fork of the Snake remained at or above flood stage throughout the month. The Teton River fell below flood stage on the 14th of June. Smaller feeder streams such as the Big Lost River and Bigwood River also experienced minor flooding during this period.

IDZ001>004

Northern Panhandle - Coeur D'Alene Area - Lewiston And The Palouse - Shoshone

01	0000MST				0	0	4M		Flood
15	2359MST								

Rivers and streams in Idaho's panhandle region began flooding in May from heavy spring snow melt. Flooding along several of these rivers continued well into the month of June, with the Pend Oreille, St. Joe and Kootenai Rivers flooding roads and a few homes. Total damage from the entire May through June flood event was estimated at 4 million dollars, with most of the serious property damage occurring in the month of May when the floods reached their peak.

IDZ010

Lemhi County Valleys

03	0000MST				0	0			Flood
20	1200MST								

Heavy snow melt in the surrounding mountains caused minor flooding along the Salmon River. Little damage was reported.

Adams County

5 S Cascade

11	1915MST				0	0			Thunderstorm Wind (G60)
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Winds from a severe thunderstorm blew down a 20 inch diameter tree.

Ada County

Boise

12	1650MST				0	0			Funnel Cloud
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Twin Falls County

2 NE Twin Falls

12	1745MST				0	0			Funnel Cloud
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During the afternoon and evening of June 12, scattered showers and thunderstorms ranged over southwest Idaho. A shower produced a brief funnel cloud over Southwest Boise. A thunderstorm near Twin Falls produced two funnel clouds which were photographed by a storm spotter.

Payette County

5 S New Plymouth to
7 E Fruitland

17	1555MST				0	0			Thunderstorm Wind (G85)
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Gem County

5 NE Emmett

17	1638MST				0	0			Thunderstorm Wind (G60)
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Boise County

Garden Vly

17	1705MST				0	0			Thunderstorm Wind (G60)
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Boise County

Banks to
Lowman

17	1800MST				0	0			Mudslides
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Ada County

5 N Orchard

17	1810MST				0	0			Thunderstorm Wind (G55)
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Elmore County

3 E Mayfield

17	1822MST				0	0			Thunderstorm Wind (G55)
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Ada County

5 N Orchard

17	1825MST				0	0			Funnel Cloud
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During the evening of June 17, a severe thunderstorm developed over southeastern Oregon and crossed into southwest Idaho moving to the northeast. Numerous reports of severe winds and damages were received from spotters. Investigations by Weather Service officials indicated a number of downburst signatures throughout Payette County. Spotter reports indicated damaging winds in Gem County and Boise County. In Payette County an office building was damaged and several roofs were torn off homes. In Gem County a wind gust was reported at 69 mph. Large trees were reported uprooted in Boise County. This thunderstorm produced heavy rains in Boise County which led to several mudslides across Route 17 between Banks and Lowman .

A second severe thunderstorm formed over the Treasure Valley shortly after 7:00 pm MDT. This storm produced estimated winds to 60 mph in Ada County and Elmore County, as well as a spotter report of two funnel clouds near Mayfield in Elmore County.

IDZ017-020>021

Eastern Magic Valley - Upper Snake River Plain - Lower Snake River Plain

30	1400MST				0	0			High Wind (G47)
	2100MST								

During the afternoon and evening of June 30, a strong cold front moved through the Magic Valley and Upper Snake River Plain. The front brought sustained winds of 30 to 40 mph with wind gusts up to 54 mph. Numerous reports were received of large tree limbs blown down and a few trees toppled. In Pocatello a fire which severely damaged an office building was attributed to the wind blowing down a power line.

Canyon County

Melba

30	1930MST				1	0			Lightning
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A farm worker was struck and killed by lightning while working on an irrigation pipe in a farm field during a thunderstorm.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IDAHO, Southwest									
			M23OU						
ILLINOIS, Central									
Shelby County									
2.5 SE Oconee	06	1700CST			0	0	0		Hail (1.00)
Hail up to 1 inch in diameter fell for several minutes in an area a half mile wide by 2 miles long, damaging the local corn crop and trees in the area. It caused no apparent damage to homes or businesses. No property or crop damage estimate was available.									
Effingham County									
5 WNW Effingham	06	1820CST			0	0			Hail (1.00)
Tazewell County									
7.5 SW South Pekin	12	1155CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several power lines 7.5 miles southwest of South Pekin. No damage estimate was available.									
Mason County									
Mason City	12	1240CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree in Mason City. No injuries were reported and no damage estimate was available.									
Douglas County									
Countywide	12	1700CST			0	0			Flash Flood
	13	0000CST							
Thunderstorms moved across Douglas county dumping between 4 and 6 inches of rain in two hours over a large part of the county. In Tuscola, numerous businesses and homes sustained some flooding damage. A car dealership had 4 to 5 inches of water in its showroom and 7 inches in its shop. Meanwhile, in Villa Grove water was as deep as 4.5 feet in the center of town. Numerous homes on the west side of town had flooded yards and basements. No injuries were reported. Parts of Illinois 130 through Villa Grove and US 45 north of Tuscola were closed for awhile due to the flooding. No damage estimate was available.									
Douglas County									
Newman	12	1800CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree in Newman. No injuries were reported and no damage estimate was available.									
Knox County									
Galesburg	21	0445CST			0	1	0		Thunderstorm Wind
Thunderstorm winds blew down several large trees and tree limbs in Galesburg. Also, some minor siding damage was reported on one home. Also, the thunderstorm winds blew over a semi tractor-trailer near the junction of I-74 and US 34. The truck driver was treated for minor injuries and released. No other injuries were reported and no damage estimate was available.									
Coles County									
1 E Charleston	21	1610CST			0	0			Hail (0.75)
Edgar County									
Paris	21	1655CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree and numerous tree limbs in Paris. No injuries were reported and no damage estimate was available.									
Clark County									
2.5 SE Westfield	21	1705CST			0	0			Hail (1.75)
Clark County									
Marshall	21	1720CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a large tree onto a home in Marshall. No injuries were reported and no damage estimate was available.									
Jasper County									
1 S Hunt City	21	1740CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down large tree limbs and power lines one mile south of Hunt City. No injuries were reported and no damage estimate was available.									
Jasper County									
West Liberty	21	1800CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down large tree limbs and power lines in West Liberty. No injuries were reported and no damage estimate was available.									
Clay County									
6 SSE Clay City	21	1810CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down two large trees and numerous tree limbs 6 miles south southeast of Clay City. No injuries were reported and no damage estimate was available.									
Logan County									
Lincoln Logan Co Apt	25	1359CST			0	0	0		Hail (1.00)
The hail caused some damage to cars and roofs in Lincoln. However, no damage estimate was available.									
Logan County									
Lincoln Logan Co Apt	25	1359CST			0	0	0		Thunderstorm Wind (G51)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ILLINOIS, Central</u>									
Macon County									
Decatur	25	1600CST			0	0			Hail (0.75)
Crawford County									
Oblong	25	1849CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down numerous large tree limbs in Oblong. No injuries were reported and no damage estimate was available.									
Champaign County									
Mahomet to St Joseph	25	1523CST 1558CST			0	0			Thunderstorm Wind
A line of thunderstorms moved through Champaign County. Thunderstorm winds blew down numerous power lines and power poles in the Mahomet, Champaign/Urbana, Savoy, Royal, and St. Joseph areas. No injuries were reported and no damage estimate was available.									
Macon County									
Countywide	30	1300CST 1600CST			0	0			Flash Flood
Thunderstorms trained across a large portion of Macon County. Between 4 to 7 inches of rain fell over a three hour period. Numerous roads and underpasses were flooded, especially in an area extending from Harristown to the southside of Decatur. There was some flooding of basements, but no living spaces or businesses were affected. No injuries or damage were reported.									
<u>ILLINOIS, Northeast</u>									
Cook County									
Hickory Hills	11	1210CST			0	0			Thunderstorm Wind
A thunderstorm produced downburst winds and heavy rain. Large tree limbs were blown down, fences were blown over and streets and basements were flooded.									
La Salle County									
8 N Ottawa	11	1245CST	1	30	0	0			Tornado (F0)
State police reported a tornado over an open field. There were no damages.									
Winnebago County									
Sugar River	15	2045CST			0	0			Thunderstorm Wind (G50)
A line of severe thunderstorms moved through north central Illinois produced strong winds and heavy rain. Numerous power outages were reported across the area with flooding of several farm fields.									
Winnebago County									
Rockford	20	1825CST			0	0			Hail (1.75)
Cook County									
Morton Grove to River Grove	20	1900CST 1939CST			0	0			Hail (1.00)
Strong thunderstorms produced hail, 1 inch in diameter, and strong winds which downed trees and power lines.									
Du Page County									
Downers Grove	20	1945CST			0	0			Hail (1.75)
ILZ014									
Cook	21	0800CST			16	0			Excessive Heat
Cook	30	1500CST							
From the period of June 21st through June 30th, temperatures were in the middle 80s to lower 90s, causing heat-related deaths throughout the Chicago area. M90PH, F82PH, M68PH, M34PH, M45VE, F62PH, M73PH, F62PH, M62PH, M70PH, M70PH, M46PH, M37VE, F86PH, F77PH, F37PH									
Winnebago County									
Rockford	24	1630CST			0	0			Thunderstorm Wind (G50)
Trees blown down.									
Mchenry County									
Harvard to Mc Henry	24	1705CST 1730CST			0	0			Thunderstorm Wind (G50)
A line of severe thunderstorms extended from north central Illinois, north, into southern Wisconsin. As the storms moved east and through northern Illinois, they produced wind damage, including trees blown down.									
ILZ022									
Will	25	1000CST			1	0			Excessive Heat
M65PH									
<u>ILLINOIS, Northwest</u>									
Mercer County									
5 NE Aledo	05	1919CST			1	0			Lightning

Storm Data and Unusual Weather Phenomena

June 1997

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

One bolt of lighting touched down well in advance of an ordinary thunderstorm. The bolt struck and killed an eight year old boy who was playing quietly alone in his backyard. The boy was found near a tree and just feet from his home and while medical assistance arrived very quickly, they were unable to revive him. No rain occurred in the immediate area and an eyewitness reported that this was the only bolt of lightning, so there was no cause for alarm prior to the strike. M8UT

Henderson County

Oquawka 21 0425CST 0 0 **Thunderstorm Wind (G70)**
Roof damage to a house and power lines downed.

Mercer County

Keithsburg 21 0425CST 0 0 15K **Thunderstorm Wind (G60)**
Tree blown into house.

Mercer County

8 S Aledo 21 0430CST 0 0 **Thunderstorm Wind (G60)**
Trees down across route 94.

Mercer County

Viola 21 0435CST 0 0 **Thunderstorm Wind (G60)**
Trees down across route 67.

Warren County

Monmouth 21 0440CST 0 0 **Thunderstorm Wind (G60)**
Trees and power lines down.

Rock Island County

4 W Illinois City 21 0445CST 0 0 5K **Thunderstorm Wind (G70)**
Winds damage farm buildings and snapped numerous Oak trees off. Twenty foot tall pine trees uprooted.

Henry County

Green Rock 21 0455CST 0 0 **Thunderstorm Wind (G60)**
Trees downed on power lines.

Henry County

Orion 21 0455CST 0 0 **Thunderstorm Wind (G60)**
Power lines downed.

Jo Daviess County

Apple River 21 0510CST 0 0 **Thunderstorm Wind (G60)**
Numerous trees down with diameters up to 12 inches.

Stephenson County

Pearl City 21 0525CST 0 0 **Thunderstorm Wind (G52)**
Large tree branches down.

Strong and damaging winds swept across Eastern Iowa into Northwestern Illinois. By far the greatest damage was done in Iowa with winds diminishing as they entered Illinois. The majority of the damage was mainly done to area trees, with falling trees creating difficulties as they blocked roads, caused power outages, and damaged houses.

ILLINOIS, South

ILZ087-092>094

Gallatin - Alexander - Pulaski - Massac

01 0001CST 0 0 **Flood**
26 1400CST

The Ohio River crested above flood stage twice during the month at a few points. The flooding was considered to be minor bottomland flooding, except where farmers had planted crops. Bottomland cropland flooding destroyed or damaged thousands of acres.

ILZ084

Jackson

01 0001CST 0 0 3K **Flood**
29 2100CST

The Big Muddy River was above flood stage during most of the month at Murphysboro. The first crest on June 4 was 25.7 feet, well above the 16-foot flood stage. The river briefly dropped below flood stage from the 12th to the 15th, then crested at 21.9 feet on the 21st. The effects of this flooding were felt mainly by farmers who planted in agricultural bottomlands. In Murphysboro, parts of Riverside Park on the city's southwest side were under water, but no streets were closed and no homes had been evacuated.

Franklin County

Akin 06 1500CST 0 0 **Flash Flood**
1600CST

Radar estimated rainfall rates from 2 to 2.5 inches per hour over a small portion of the county between Benton and Akin.

Wayne County

Fairfield 06 1645CST 0 0 **Flash Flood**
1745CST

Radar estimated rainfall rates from 2 to 3 inches per hour between Enterprise, Golden Gate, and Fairfield. About 6 inches was

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
estimated to have fallen over a six hour period.									
Franklin County									
Royalton	06	1750CST			0	0			Hail (0.75)
Williamson County									
1 S Hurst	06	1755CST			0	0			Hail (1.00)
Jackson County									
Carbondale	06	2120CST			0	0			Hail (0.75)
A n isolated thunderstorm became severe over the southwest corner of Franklin County and then drifted slowly south into the northwest corner of Williamson County. Several reports of dime to quarter size hail were received with this storm. No reports of wind damage were received. Later in the evening, another cell briefly produced dime size hail in Carbondale, but this storm was not as strong as the earlier one.									
Williamson County									
Marion	13	1053CST			0	0			Hail (0.75)
Johnson County									
Buncombe	13	1055CST			0	0			Thunderstorm Wind (G50)
The county sheriff reported trees down across Route 37.									
White County									
2 S Epworth	13	1055CST			0	0	30K		Thunderstorm Wind (G60)
A barn was heavily damaged, and two nearby houses sustained some damage.									
Franklin County									
West Frankfort	13	1850CST			0	0	30K		Thunderstorm Wind (G50)
Trees were down in the city. At least one home was damaged when a large branch fell on it.									
Jackson County									
Murphysboro	13	1915CST			0	0	5K		Thunderstorm Wind (G50)
Tree limbs and power lines were blown down.									
Alexander County									
Olive Branch	13	1925CST			0	0			Thunderstorm Wind (G50)
The county road department reported trees and limbs were blown down near Olive Branch and Miller City.									
Union County									
Cobden	13	1930CST			0	0			Hail (0.88)
Nickel size hail was also reported near Licking Creek.									
Johnson County									
Belknap to Buncombe	13	1945CST			0	0			Thunderstorm Wind (G52)
Large tree limbs were blown down.									
Pulaski County									
Mounds	13	1948CST			0	0			Thunderstorm Wind (G52)
Trees were down.									
Massac County									
Joppa	13	2040CST			0	0			Thunderstorm Wind (G52)
Trees were blown down.									
Jackson County									
2 S Murphysboro	17	1600CST			0	0			Funnel Cloud
An off duty police officer reported the funnel cloud. Numerous funnel clouds were observed across southeast Missouri, western Kentucky, and southwest Indiana during the day. These funnel clouds were not associated with severe thunderstorms.									
Edwards County									
2 W Albion	18	1845CST 1945CST			0	0			Urban/Sml Stream Fld
A weather observer measured 1.2 inches of rain in about 30 minutes at Ellery. Water was over some secondary roads between Ellery and Albion. Ponding of water occurred on main roads.									
Wayne County									
Fairfield	21	1730CST			0	0	25K		Thunderstorm Wind (G52)
Lots of trees were down in the southeast part of Fairfield. Two houses sustained major damage when trees fell on them. The damage was to the upper portions of the houses.									
Wayne County									
Mt Erie	21	1750CST			0	0	25K		Thunderstorm Wind (G50)
A number of trees were blown down. Part of the roof of a silage feed bunk was blown off. An elevator was blown over. Just south of Mt. Erie, a large tree fell across a house trailer, a pickup, and a car, damaging all three.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
Edwards County West Salem	21	1809CST			0	0			Hail (0.75)
Jefferson County Mt Vernon	21	1815CST			0	0			Thunderstorm Wind (G50) Trees were down on Route 148 near or just southwest of Mt. Vernon.
Wabash County Allendale	21	1828CST			0	0			Thunderstorm Wind (G50) Trees were down near the Edwards County line along Route 1.
Edwards County West Salem	21	1830CST 2030CST			0	0			Urban/Sml Stream Fld Up to 2 inches of rain per hour fell across northern Edwards County. Rainfall totals near 3 inches were estimated by radar. Water was over many roads, State Route 130 north of Albion was barricaded to traffic.
Wabash County 5 W Allendale	21	1830CST 2030CST			0	0			Urban/Sml Stream Fld Radar estimated close to 3 inches of rain per hour in northwest Wabash County. Water was over many roads.
ILLINOIS, Southwest									
St. Clair County Fayetteville	06	1806CST			0	0			Hail (1.00) County sheriff reported 1 inch hail.
St. Clair County Fayetteville	06	1806CST			0	0	5K		Thunderstorm Wind (G50) County sheriff reported thunderstorm wind gusts downed trees and power lines. A mobile home also suffered minor damage.
St. Clair County Belleville	13	1000CST			0	0	4K		Thunderstorm Wind (G50) Thunderstorm wind gusts downed some trees and power lines across the area. One car has minor damage from a dpwned tree. About 4000 customers of Illinois Power were without power for a couple of horus across the metro east area.
Madison County Madison	21	1550CST			0	0			Hail (1.75) Skywarn spotters reported golfball size hail.
St. Clair County Summerfield	21	1630CST			0	0	4K		Thunderstorm Wind (G50) Thunderstorm wind gusts blew down truck barn at a local trucking company. One tractor cab in the barn suffered abut \$2,000.00 in damage. A couple of grain silos and power poles in the area were also damaged.
Clinton County New Baden	21	1635CST			0	0			Thunderstorm Wind (G52) County sheriff reported wind gusts at least 60 mph with power lines down.
Clinton County Boulder	21	1645CST			0	0			Thunderstorm Wind (G52) County sheriff reported power lines down in Boulder and near Carlyle Lake,
Clinton County Germantown	21	1700CST			0	0			Thunderstorm Wind (G52) County sheriff reported trees down on the east side of town.
Marion County Alma	21	1705CST			0	0	20K		Thunderstorm Wind (G65) Wind gusts estimated at 75 mph downed trees and power lines and caused some roof damage. Much of the roof damage was caused by trees falling on structures.
St. Clair County Millstadt	21	1715CST			0	0	10K		Thunderstorm Wind (G61) Wind gusts estimated at 70 mph downed trees and some power poles.
St. Clair County Freeburg	21	1725CST			0	0	50K		Thunderstorm Wind (G65) Wind gusts estimated at 75 mph downed trees, power lines, and damaged roofs. The roof of one busines was completely blown off.
St. Clair County Lenzburg	21	1730CST			0	0			Thunderstorm Wind (G61) Wind gusts estimated at 70 mph downed trees and power lines across town.
St. Clair County Marissa	21	1735CST			0	0			Thunderstorm Wind (G61) Wind gusts downed trees and power lines.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
Monroe County Countywide	22	0000CST 0330CST			0	0			Flash Flood
St. Clair County Countywide	22	0000CST 0330CST			0	0			Flash Flood
Heavy rain of 3 to 4 inches flooded county roads across the area. Silver Creek rose out of its banks flooding roads in St. Clair County, particularly between Freeburg and New Athens.									
INDIANA, Central									
INZ048>049-056>057-064>065-070>072 Hancock - Henry - Shelby - Rush - Bartholomew - Decatur - Lawrence - Jackson - Jennings									
	01 03	0000EST 0700EST			0	0			Flood
Tippecanoe County Lafayette	12	1450EST 1915EST			0	0			Urban/Sml Stream Fld
Carroll County Burlington	12	1525EST 1915EST			0	0			Urban/Sml Stream Fld
Cass County Logansport	12	1525EST 1915EST			0	0			Urban/Sml Stream Fld
Howard County Kokomo	12	1525EST 1915EST			0	0			Urban/Sml Stream Fld
Miami County Peru	12	1525EST 1915EST			0	0			Urban/Sml Stream Fld
Warren County Williamsport	12	1642EST 1915EST			0	0			Urban/Sml Stream Fld
Shelby County Shelbyville	18	1849EST			0	0	1.5K		Lightning
Knox County Vincennes	18	2103EST 2300EST			0	0			Flash Flood
One inch of rain in two hours on saturated ground flooded county roads in and around Vincennes.									
Miami County Peru	21	1620EST			0	0			Thunderstorm Wind (G73)
Miami County Peru	21	1623EST			0	0	1K		Thunderstorm Wind
Circus tent and tiger cage blown over at circus.									
Boone County 1 N Lebanon	21	1630EST 1631EST			0	0	0.50K		Thunderstorm Wind
Several trees blown down.									
Tippecanoe County Romney	21	1635EST 1636EST			0	0	1K		Thunderstorm Wind
Several trees and power lines blown down.									
Tippecanoe County Clarks Hill	21	1650EST			0	0	0.50K		Thunderstorm Wind
Several trees blown down.									
Montgomery County Linden	21	1705EST			0	0	0.25K		Thunderstorm Wind
Trees blown down.									
Boone County Mechanicsburg	21	1725EST			0	0	0.50K		Thunderstorm Wind
Trees blown down.									
Boone County 1 S Rosston	21	1730EST			0	0	0.25K		Thunderstorm Wind
Two foot diameter tree blown down.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Central</u>									
Hendricks County 1 N Plainfield	21	1825EST			0	0	1.3K		Thunderstorm Wind
									Three foot diameter tree blown onto apartment roof.
Knox County Bicknell	21	1940EST			0	0			Hail (1.75)
Greene County Scotland	21	2030EST			0	0	0.50K		Thunderstorm Wind
									Trees and power lines blown down.
Lawrence County Mitchell	21	2035EST			0	0	0.50K		Thunderstorm Wind
									Trees blown down.
Jackson County Norman	21	2052EST			0	0	0.50K		Thunderstorm Wind
									Trees blown down.
Vigo County Terre Haute	25	1910EST 1911EST			0	0	0.10K		Thunderstorm Wind
									Large tree limbs blown down.
<u>INDIANA, Northeast</u>									
Blackford County 5 W Hartford City to 37.5 W Hartford City	21	1900EST 1901EST			0	0	5K		Thunderstorm Wind (G80)
									Coop observer reported 11/2 mile path of large trees and power lines down. Estimated 80 mph gust.
Wabash County 27 W Near Highway 114/13 to 25 SW 10 E Wabash	25	1634EST 1644EST			0	0	0.40K		Thunderstorm Wind
									Sheriff reported a large tree down starting near corner highway 114 and 13. Three more trees down over 10 mile path to south in open country.
Allen County Ft Wayne	25	1745EST 1800EST			0	0	10K		Thunderstorm Wind
									Several trees down in city. One fell on a car. Another fell on a traffic signal.
<u>INDIANA, Northwest</u>									
Newton County Roselawn	20	1339EST			0	0	0		Hail (0.88)
									A severe thunderstorm over Newton county produced small hail and strong winds, which resulted in downed trees.
Elkhart County Goshen	20	2230EST			0	0			Thunderstorm Wind (G50)
									Thunderstorms that moved across Lake Michigan and into northern Indiana produced downburst winds. Numerous power outages, large trees and tree limbs were downed throughout the northern half of the county.
La Porte County La Porte	25	1515EST			0	0			Hail (0.75)
Elkhart County Nappanee	25	1545EST			0	0			Hail (0.75)
Newton County Roselawn	30	1635EST			0	0			Hail (1.75)
									Strong thunderstorms developed over north central Indiana, producing strong winds, heavy rain and golf ball size hail.
Jasper County Fair Oaks	30	1700EST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm winds downed large trees and tree limbs, mainly in the northern portion of the county.
La Porte County La Crosse	30	1730CST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm moved through southwest La Porte county and produced heavy rain and strong winds. A few trees and limbs were blown down in the southern part of the county.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Northwest</u>									
Marshall County									
Plymouth	30	1800EST			0	0			Thunderstorm Wind (G50)
A line of severe thunderstorms moved into western Marshall county. Winds reaching near 60 mph and heavy rain, resulted in a few small trees blown down.									
<u>INDIANA, South Central</u>									
INZ079									
Jefferson									
01		0100EST			0	0			Flood
02		0300EST							
The Muscatatuck River at Deputy crested at 23.4 feet (flood stage is 20 feet) at June 1 at 3 pm edt. This resulted in minor bottomland flooding with county roads under water.									
Harrison County									
Countywide	13	1300EST			0	0			Thunderstorm Wind (G50)
EMA official reports several trees down scattered across the county.									
Perry County									
St Croix	13	1400EST			0	0			Thunderstorm Wind (G50)
EMA reported several trees down.									
Harrison County									
Ramsey	13	1430EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down.									
Harrison County									
Elizabeth	13	1430EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down.									
Crawford County									
Countywide	13	1500EST 1510EST			0	0			Hail (0.75)
Dime size hail reported across various parts of the county.									
INZ079									
Jefferson									
18		0700EST			0	0			Flood
19		0700EST							
The Muscatatuck River at Deputy crested at 23.3 feet (flood stage is 20 feet) at 730 pm est on March 18. This caused some county roads to be water covered as well as agricultural bottomland.									
<u>INDIANA, Southeast</u>									
INZ058									
Fayette									
01		0000EST			0	0			Flood
02		1600EST							
The Whitewater river at Alpine rose above the flood stage of 12.0 feet on May 31st. The river crested at 16.7 feet.									
Wayne County									
Countywide	01	0300EST 1000EST			0	0	5K		Flood
Heavy rainfall caused area creeks and streams to overflow their banks and onto area roads. One family was evacuated.									
Fayette County									
Countywide	01	0400EST 1200EST			0	0	5K		Flood
Heavy rainfall caused area creeks and streams to rise out of their banks and across area roads.									
Wayne County									
Countywide	01	1145EST 1330EST			0	0	5K		Flood
Heavy rainfall moved into the county again causing creeks and streams to continue rising.									
Union County									
Countywide	01	1300EST 1430EST			0	0	5K		Flood
Heavy rainfall caused several roads to be closed as area creeks and streams rose.									
An upper level cut off low pressure system lingered across the Ohio valley from May 31st through June 2nd. Widespread heavy rainfall occurred from the 31st-1st with amounts ranging from 2-4 inches.									
Ohio County									
Rising Sun	18	0820EST 1000EST			0	0	5K		Flood
Heavy rainfall caused Rt. 56 to flood to the north of Rising Sun.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
INDIANA, Southwest									
INZ085									
Posey									
	03	0900CST			0	0			Flood
The Ohio River crested one to two feet above flood stage at both Newburgh and Mt. Vernon. Since crops had been planted, damage was mostly agricultural, but no exact figures were available.									
INZ085									
Posey									
	08	0400CST			0	0			Flood
	23	1100CST							
The Wabash River crested above flood stage twice during the month of June at New Harmony. The first crest on the 12th was 1.7 feet over flood, while the second crest on the 21st was only half a foot over flood stage. The main effect was minor flooding of agricultural bottomland.									
Posey County									
Poseyville	13	1135CST			0	0			Thunderstorm Wind (G50)
Trees were down at scattered locations throughout the county.									
Warrick County									
Newburgh	13	1210CST			0	0			Hail (0.75)
Vanderburgh County									
2 NW Evansville to 3.5 N Evansville	17	1728CST 1730CST	2	100	0	0	500K		Tornado (F1)
The tornado occurred in a densely populated suburban area called North Park, about 2 miles northwest of downtown Evansville. There were many witnesses, so the event was well documented by photographers and eyewitnesses. Although the tornado was unusual in the respect that it developed from a non-severe thunderstorm in a weakly sheared environment, it caused considerable damage in such a populated setting. A survey conducted by National Weather Service personnel determined the damage path was narrow, well defined, and highly convergent. Most of the damage was a result of trees falling on houses (at least a dozen) and causing roof damage and some structural damage. The neighborhood was 40 years old so most trees were full grown. A liquor store, bowling alley, and grocery store suffered primarily roof damage due to winds estimated near 100 MPH. About 2,800 people were without power for several hours. The tornado was well photographed by personnel at the Evansville Airport.									
Gibson County									
Ft Branch	17	1900CST 2000CST			0	0			Flash Flood
Thunderstorms moved slowly north across locations that received heavy rain earlier in the day. Some roads were covered by water. The Pigeon Creek overflowed its banks near Fort Branch. Radar estimated up to 2 inches of rain fell on saturated ground.									
IOWA, Central									
Butler County									
.8 S Dumont to .5 N Parkersburg	05	1213CST 1236CST	13.5	50	0	0	100K	5K	Tornado (F1)
Butler County									
1 E Dumont	05	1230CST			0	0	15K	100K	Hail (0.75)
Marshall County									
3 S Marshalltown	05	1338CST			0	0	1K	5K	Hail (0.75)
Marshall County									
Marshalltown	05	1340CST			0	0	25K	10K	Hail (1.75)
Marshall County									
Ferguson	05	1348CST			0	0	1K	5K	Hail (0.75)
Jasper County									
2 S Newton to 8 S Newton	05	1500CST 1505CST			0	0	5K	35K	Hail (1.00)
Butler County									
2 W Bristow	05	1540CST			0	0	1K	5K	Hail (1.00)
Hardin County									
4 W Alden	05	1550CST			0	0	1K	5K	Hail (0.75)
Hardin County									
Iowa Falls	05	1600CST			0	0	1K	3K	Hail (0.75)
Lucas County									
15 SW Chariton	05	1645CST			0	0	1K	10K	Hail (1.00)
Lucas County									
15 SW Chariton	05	1645CST			0	0	5K		Thunderstorm Wind (G50)
Iowa was located in a highly amplified flow pattern with a strong ridge of high pressure to the west. A strong upper level disturbance dropped south from Canada, crossing Iowa during the afternoon. The air was very unstable with the very cold air aloft. Lifted indices were below -6 degrees C. Thunderstorms erupted in two areas. One was a line from north central into central Iowa. The second was located closer to the upper level feature and that area crossed northeast Iowa. The main severe weather									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
IOWA, Central									
feature was hail. Butler County was hard hit. East of Dumont, pea to marble size hail accumulated to a two inch depth. Five miles south of Dumont, hail accumulated to a depth of six inches. People described it as a hail blizzard in Kelsey with visibility reduced to 35 feet. Crop damage was severe over northeast and north central Iowa. Much of it was done by small hail however. There were many reports of gusty winds, but most were below severe levels. High winds in Lucas county caused tree damage southwest of Chariton.									
Union County									
Lorimor	12	1730CST 1747CST			0	0	2K	25K	Hail (1.00)
A strong upper level circulation dropped southeast across Iowa during the evening hours. The air mass was marginally unstable and surface dew point temperatures had risen to the mid to upper 60s over the southern part of the state. An outflow boundary was located from east central Nebraska, across southwest Iowa, into east central Missouri. This became the focus for isolated thunderstorms. The storms were of the pulse type. One storm developed rapidly in Union County. During its brief life, WSR-88D VIL values soared to 61 Kg/m/m. During this time, the storm dumped hail on the town of Lorimor. Much of it was marble size, with a few stones up to an inch in diameter.									
Cerro Gordo County									
Clear Lake	15	1150CST			0	4	40K		Thunderstorm Wind (G55)
Thunderstorms developed to the north of Iowa with the tail of a line of thunderstorms brushing into north central Iowa. As the storms moved into Clear Lake, high winds downed trees across the city. Four injuries were reported due to falling tree debris.									
Cerro Gordo County									
Mason City	15	1200CST			0	0	15K		Lightning
As the storms moved over Mason City, lightning struck a house starting a small fire. It was contained quickly, thus damage was minor.									
Marshall County									
Marshalltown Arpt	15	1646CST 1654CST			0	0	10K		Thunderstorm Wind (G55)
Hancock County									
10 SW Britt to 1 N Belmond	15	1955CST 2027CST	19.5	60	0	0	50K	5K	Tornado (F1)
Hancock County									
Kanawha	15	2000CST			0	0	2K	160K	Hail (0.75)
Wright County									
Belmond	15	2035CST			0	0	10K		Thunderstorm Wind (G52)
Wright County									
Belmond	15	2053CST			0	0	5K	20K	Hail (1.00)
A very unstable air mass was located over Iowa brought in on a strong southerly flow. Surface winds were blowing from the south to southwest at 25 to 40 MPH ahead of an approaching cold front. Surface temperatures rose into the mid 80s to low 90s across the state with dew point temperatures in the mid 60s to low 70s. CAPE values were between 2000 and 3000 J/kg, with lifted indices around -5 degrees C. Thunderstorms erupted rapidly during the late afternoon and evening hours, though there quite scattered. High winds accompanied out of the storms as it pass through Marshalltown, with a 64 MPH wind recorded at the airport there. One tornado swept southeast across Hancock and Wright Counties. The tornado went open countryside for the most part, resulting in only minor damage as it passed. One inch diameter hail also fell from the same storm as it passed near Belmond. In Hancock County, one half to three quarter inch diameter hail fell in the Kanawha area. Extensive crop damage was reported for three miles in all directions of town. Replanting was necessary in many areas. Soybeans were replanted, however it was too late to replant corn.									
Cass County									
Cumberland	20	0020CST			0	0	3K	5K	Hail (1.00)
Thunderstorms developed in an unstable airmass over Iowa during the late evening hours. One of the storms moved across Cass County, producing one inch diameter hail.									
Calhoun County									
Manson	20	0400CST			0	0	5K		Thunderstorm Wind (G50)
Webster County									
Ft Dodge	20	0412CST			0	0	10K		Thunderstorm Wind (G55)
Hamilton County									
Webster City	20	0430CST			0	0	10K		Thunderstorm Wind (G55)
Wright County									
5 S Clarion	20	0430CST			0	0		5K	Hail (0.75)
Hamilton County									
Williams	20	0430CST			0	0	3K		Thunderstorm Wind (G52)
Hamilton County									
Webster City	20	0430CST			0	0		3K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Hardin County									
Eldora	20	0507CST			0	0	75K	5K	Thunderstorm Wind (G70)
Grundy County									
Grundy Center	20	0544CST			0	0	3K		Thunderstorm Wind (G50)
Butler County									
5 W Aplington	20	0625CST			0	0	3K	10K	Hail (1.00)
<p>An unstable airmass was over the central U.S. During the night time hours, the low level jet strengthened into the central Plains. A small mesoscale convective system developed and swept rapidly east across northern Iowa. The storms produced severe weather in the form of high winds and some hail. Since freezing levels were quite high, above 14,000 feet, the hail was of limited size. Winds of 80 MPH swept into Eldora during the early morning hours. Structural damage was done to the roof of a school building there. Most other damage was not that severe. Hail caused considerable crop damage in the area. Reports from rural Hardin County suggest a swath 3 miles wide and 7 miles wide with significant hail damage.</p>									
Warren County									
Indianola	20	1549CST			0	0	1K	5K	Hail (0.85)
<p>Very unstable air was located over Iowa with surface dew point temperatures in the 75 to 80 degree range and lifted indices around -15 degrees C. The lack of a boundary in the area precluded development over central Iowa, however one cell developed rapidly over Warren County. It dropped hail nearly the size of nickels in Indianola before it dissipated.</p>									
Wright County									
Eagle Grove	20	2112CST			0	0	15K	90K	Hail (1.75)
Webster County									
Badger	20	2130CST			0	2	100K	10K	Thunderstorm Wind (G75)
Franklin County									
Alexander	20	2140CST			0	0	1K		Thunderstorm Wind (G50)
Franklin County									
Alexander	20	2140CST			0	0	1K	5K	Hail (0.75)
Wright County									
Dows	20	2200CST			0	0	50K	5K	Thunderstorm Wind (G69)
Hamilton County									
Williams	20	2206CST			0	0	25K		Thunderstorm Wind (G57)
Butler County									
Aplington	20	2245CST 2247CST			0	0	10K		Thunderstorm Wind (G55)
Hardin County									
Alden	20	2250CST			0	0	40K	5K	Thunderstorm Wind (G70)
Hardin County									
Alden	20	2250CST			0	0	25K	5K	Thunderstorm Wind (G60)
Hardin County									
Radcliffe	20	2255CST			0	0	10K		Thunderstorm Wind (G50)
Hardin County									
5 S Iowa Falls	20	2300CST			0	0	2K		Thunderstorm Wind (G50)
Hardin County									
Hubbard	20	2300CST			0	0	25K	5K	Thunderstorm Wind (G60)
Grundy County									
4 S Dike	20	2312CST			0	0	500K	50K	Thunderstorm Wind (G80)
Black Hawk County									
Hudson	20	2320CST			0	0	150K	20K	Thunderstorm Wind (G80)
Tama County									
Gladbrook	20	2320CST			0	0	75K	15K	Thunderstorm Wind (G69)
Black Hawk County									
La Porte City	20	2320CST			0	0	300K	10K	Thunderstorm Wind (G75)
Black Hawk County									
Waterloo Arpt	20	2323CST			0	0	30K	5K	Thunderstorm Wind (G63)
Butler County									
2 E New Hartford	20	2326CST			0	0	25K	2K	Thunderstorm Wind (G65)
Bremer County									
5 N Waverly	20	2331CST			0	0		5K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Bremer County									
Tripoli	20	2337CST			0	0	100K	10K	Thunderstorm Wind (G70)
Black Hawk County									
Cedar Falls	20	2339CST 2350CST			0	0	75K	10K	Thunderstorm Wind (G69)
Black Hawk County									
Waterloo	20	2350CST			0	0	100K	5K	Thunderstorm Wind (G65)
Calhoun County									
Rockwell City	21	0010CST			0	0	10K		Thunderstorm Wind (G50)
Audubon County									
Audubon Arpt	21	0025CST			0	0	3K		Thunderstorm Wind (G52)
Cass County									
Atlantic	21	0045CST			0	0	500K	25K	Thunderstorm Wind (G70)
Cass County									
5 S Cumberland	21	0100CST			0	0	1.1M	20K	Thunderstorm Wind (G60)
Adams County									
12 NE Corning	21	0100CST			0	0	50K	5K	Thunderstorm Wind (G70)
Cass County									
Massena	21	0115CST			0	0	100K	15K	Thunderstorm Wind (G70)
Adair County									
Bridgewater	21	0117CST			0	0	25K	5K	Thunderstorm Wind (G69)
Adair County									
Greenfield	21	0127CST			0	0	25K	5K	Thunderstorm Wind (G65)
Union County									
2 NE Creston	21	0130CST			0	0	75K	5K	Thunderstorm Wind (G69)
Dallas County									
Perry	21	0145CST			0	0	15K	3K	Thunderstorm Wind (G55)
Polk County									
Des Moines Arpt	21	0145CST			0	0	20K		Thunderstorm Wind (G55)
Madison County									
Winterset	21	0145CST			0	0	50K	5K	Thunderstorm Wind (G61)
Polk County									
Urbandale	21	0149CST			0	0	50K		Thunderstorm Wind (G52)
Monroe County									
Avery	21	0200CST			0	0	25K	5K	Thunderstorm Wind (G60)
Clarke County									
Murray	21	0200CST			0	0	30K	5K	Thunderstorm Wind (G65)
Warren County									
Hartford	21	0206CST 0216CST			0	0	80K	15K	Thunderstorm Wind (G78)
Poweshiek County									
Grinnell	21	0215CST			0	0	5K	10K	Hail (1.00)
Marion County									
Knoxville	21	0219CST 0240CST			0	0	1M	25K	Thunderstorm Wind (G87)
Marion County									
Pleasantville	21	0220CST			0	0	150K	10K	Thunderstorm Wind (G75)
Decatur County									
Leon	21	0224CST			0	0	5K		Thunderstorm Wind (G50)
Wapello County									
Eddyville	21	0235CST			0	0	100K	10K	Thunderstorm Wind (G69)
Monroe County									
Albia	21	0248CST			0	0	5K		Thunderstorm Wind (G50)
Mahaska County									
Oskaloosa	21	0253CST			0	0	300K	25K	Thunderstorm Wind (G56)
Wapello County									
Ottumwa	21	0258CST			0	0	35K	5K	Thunderstorm Wind (G57)

Storm Data and Unusual Weather Phenomena

June 1997

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

An extremely unstable air mass was over Iowa during the afternoon and evening of the 20th. Lifted indices were near -15 degrees C. with CAPE values of 4000 to 6000 J/kg. A weak frontal boundary was draped across the northern part of the state. Thunderstorms erupted along this boundary after sunset and became severe quickly. The air mass was quite warm with freezing levels between 14,000 and 15,000 feet. This kept the hail size down across the state. Fairly early in the storm systems evolution, high winds hit Webster County. A barn was downed near the town of Badger, trapping two people inside. Each reported minor injuries. A car was also destroyed inside the barn and the barn was moved off of its foundation. Heavy rainfall was a problem over the west central, north central, and northeast counties where up to 6 inches of rain fell from the line of storms. Flooding became a problem the next day in spite of the dry conditions that existed prior to the rainfall. During the later evening, the storms began taking on a bow echo appearance. There were two areas where bow echos formed. One was over the northeast, the other moved across southwest, into central, south central, and southeast Iowa. These produced very high winds in the 70 to 100 MPH range. Some of the worst damage occurred just southwest Waterloo. In Butler County, high winds downed and split a silo in half. Another was moved 50 feet off its foundation. Winds in the area were in excess of 90 MPH. A second bow echo swept across the southern part of the state. It produced high winds all the way across the state as it did. Significant damage was reported over western Iowa. South of Cumberland a 300,000 bushel grain bin was destroyed with its contents a total loss. The worst damage occurred in Marion County around Knoxville. Winds near 100 MPH caused considerable damage to the city. High winds in Hartford, in Warren County, snapped off 100 foot trees. Some Oak trees 2 to 3 feet in diameter were snapped off by the winds. WSR-88D velocity products indicated a 108 MPH wind over the area at this time. Governor Branstad declared a State disaster in Marion County following the damage. It was considered so extensive across the county, this enabled assistance in cleanup. As mentioned, hail was not a major problem. Golf ball size hail was reported near the beginning of the storm systems development. At that time, WSR-88D VIL values were 95 Kg/m/m. Extensive crop damage occurred north and east of Eagle Grove. It was reported the hail stripped a 3-4 x 7-8 mile area. Though not totally destroyed, damage was extensive.

IAZ024>028-035>039-048>049-061-075 **Humboldt - Wright - Franklin - Butler - Bremer - Webster - Hamilton - Hardin - Grundy - Black Hawk - Story - Marshall - Jasper - Mahaska**

21	1500CST	0	0	60K	100K	Flood
26	1200CST					

Weather conditions across Iowa were quite normal for the month of June. The first half of the month was quite dry, however a significant rain event took place during the night of the 20th and early morning of the 21 that resulted in some minor flooding. The heaviest rainfall fell in the over the upper parts of the Iowa River Basin and over many tributaries to the Cedar River near Waterloo. Five to eight inches was recorded. This caused streams to rise three to five feet over flood stage, however site surveys indicated lives and property were not in danger. Damage was restricted to agricultural land in most areas.

Humboldt County

Humboldt	22	1646CST	0	0	25K	20K	Hail (1.75)
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Humboldt County

Dakota City	22	1648CST	0	0	25K	20K	Hail (1.75)
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Humboldt County

Humboldt	22	1703CST	0	0	100K	20K	Hail (2.75)
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Hancock County

Kanawha	22	1748CST	0	0	5K	15K	Hail (1.00)
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The air mass over Iowa remained extremely unstable with lifted indices once again near -15 degrees C. and CAPE values near 6000 J/kg. The old outflow boundary from the convection that had occurred during the early morning of the 21st had moved north into the state. Thunderstorms fired along it over northern Iowa during the late afternoon hours. These storms produced large hail in Humboldt and Hancock Counties. Hail up to baseball size pelted the town of Humboldt. At the time, WSR-88D VIL values were 86 Kg/m/m. Damage was caused in the city to cars and building roofs.

Winnebago County

Forest City	22	2000CST 2012CST	0	0	1.5M	150K	Hail (3.50)
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Winnebago County

1 W Forest City	22	2004CST	0	0	30K	20K	Hail (1.75)
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Wright County

1 N Belmond	22	2005CST	0	0	5K	Hail (0.75)
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Franklin County

7 NE Alexander	22	2015CST	0	0	5K	Hail (0.75)
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Hancock County

4 NE Miller	22	2025CST	0	0	10K	Hail (0.75)
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Franklin County

6 E Alexander	22	2038CST	0	0	10K	10K	Hail (1.75)
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Butler County

5 W Aplington	22	2108CST	0	0	5K	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 1997

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									
Butler County									
Parkersburg	22	2130CST			0	0	200K	100K	Flash Flood
	23	0100CST							
Franklin County									
Hampton	22	2130CST			0	0	200K	100K	Flash Flood
	23	0100CST							
Hancock County									
Garner	22	2130CST			0	0	100K	50K	Flash Flood
	23	0100CST							
Wright County									
Rowan	22	2130CST			0	0	100K	50K	Flash Flood
	23	0100CST							
<p>Continuing from what occurred during the afternoon, thunderstorms expanded over northern Iowa. What occurred as the storms over the north central counties drifted north was a merger of two areas. Intense thunderstorms formed over southwest Minnesota and eastern South Dakota during the afternoon. These storms moved southeast, while the storms from Iowa moved north. When the two merged over south central Minnesota, a mesoscale vorticity maximum was formed. The storms then all drifted south into Iowa. Initially, the storms produced very large hail. Hail up to three and one half inches in diameter fell in and around Forests City in Winnebago County. Windows and mirrors were smashed on two to three dozen cars at the 3M packaging plant there. Paint was also stripped off of some of the cars. There were two cases in the Westgate Addition, also in Forest City, where hail went through the scenes, two thermopane windows, and the venetian blinds...then landed on the on the floor. In one case, the hailstone landed 7 feet away from the window inside the house, on a bed. Later reports from Forest City indicate that 450 roofs in the area were damaged to the point that they needed to be replaced. The storm that produced the large hail produced a VIL value of 96 Kg/m/m on the WSR-88D display. Hail was widespread from the storms, however there was not much in the way of wind reported. Considerable damage was done to crops in the area, though it will be harvest time before the extent of the damage is totally known. The storms also produced copious amounts of rainfall. In Butler County, three and one half inches of rain fell in 30 minutes from one of the storms. Flash flooding became a problem in a four county area extending from west of Mason City to west of Waterloo. The most widespread flash flooding was over central Franklin into southern Butler County. County officials reported water over many county roads with considerable debris over roadways. Thousands of acres of cropland were flooded.</p>									
Sac County									
Ulmer	24	1700CST			0	0	5K	10K	Hail (1.75)
Carroll County									
2 S Carroll	24	1932CST			0	0		5K	Hail (0.75)
Dallas County									
1 SW Dawson	24	2057CST			0	0		5K	Hail (0.75)
Dallas County									
Dawson	24	2101CST			0	0	1K	5K	Hail (1.00)
Bremer County									
6 N Waverly	24	2122CST			0	0	1K	5K	Hail (1.00)
Adair County									
12 NE Greenfield	24	2156CST			0	0		5K	Hail (0.75)
Madison County									
Earlham	24	2159CST			0	0	10K	10K	Hail (1.75)
Black Hawk County									
2 W Waterloo	24	2213CST			0	0	1K	3K	Hail (0.75)
<p>A moist and unstable airmass remained in place over Iowa. Following the passage of a tropical low pressure area to the west the previous night, a cold front began sinking southeast into the state. Dew point temperatures ahead of the cold front were in the 70 to 75 degree range. Wind profiles were weak, which limited the severe weather potential. Thunderstorms fired up ahead of the cold front during the late afternoon hours and a few of them became severe toward evening into the evening hours. The storms produced heavy rainfall and gusty winds, however no severe winds were reported. Hail was common with many of the storms with most of the hail around pea size. Larger hail did occur with some of the storms for a brief period. Golf ball size hail fell in Sac County as one of the stronger storms passed. Another storm became severe briefly and produced golf ball size hail in Madison County. Other reports of hail included fairly small hail, an inch or less in diameter.</p>									
Webster County									
Gowrie	29	1518CST			0	0	1K		Thunderstorm Wind (G52)
Butler County									
12 E Greene	29	1700CST			0	0	5K	10K	Hail (1.75)

A very unstable air mass was in place over Iowa with lifted indices near -12 degrees C and CAPE values around 4500 J/kg. Two features moved into the state. The first was an outflow boundary from a mesoscale convective system that had been over South Dakota and southwest Minnesota the previous night. The second was a mesoscale convective vorticity maximum moving into eastern Nebraska. Thunderstorms developed along the outflow boundary and also with the vorticity maximum. Most of the storms

Storm Data and Unusual Weather Phenomena

June 1997

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

IOWA, Central

were not severe, but did produce heavy rainfall of 2 inches per hour and pea size hail along with wind gusts to around 40 MPH. There were several reports of local urban flooding in towns. Some of the worst was in Waterloo, however no significant flooding occurred. There were two storms that became severe. One developed a well developed meso on the WSR-88D over Webster County. No tornado occurred, however there was a brief gust to 60 MPH in the town of Gowrie. Farther east along the outflow boundary, another storm dropped large hail over northern Butler County. Golf ball size hail occurred briefly east of Greene. Outside of the storms and rain, there were numerous reports of funnel clouds, however none of the threatened to touch down.

IOWA, East Central and Southeast

Dubuque County

Peosta	20	2238CST		0	0			Hail (1.50)
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Buchanan County

Fairbank	21	0010CST		0	1			Thunderstorm Wind (G60)
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Man struck by falling tree when he went outside to check on his dog during the storm. Numerous trees and power lines were also downed across Fairbank.

Buchanan County

Fairbank	21	0012CST		0	0	50K		Thunderstorm Wind (G60)
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Considerable damage was done to area football grandstands, a baseball batting cage, and a pressbox. Damage also reported to several roofs and cars.

Buchanan County

Hazleton	21	0012CST		0	0			Thunderstorm Wind (G60)
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Three foot diameter trees reported snapped at base.

Buchanan County

1 N Lamont	21	0015CST		0	0			Hail (2.00)
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Benton County

Vinton	21	0025CST		0	0			Thunderstorm Wind (G75)
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86 mph wind gust reported with numerous trees and power lines downed.

Linn County

Center Pt	21	0028CST		0	0			Thunderstorm Wind (G60)
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Trees downed.

Benton County

Vinton	21	0032CST		0	0	10K		Thunderstorm Wind (G60)
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Tree fell on house, numerous reports of trees downed on power lines.

Linn County

Central City	21	0037CST		0	0			Thunderstorm Wind (G60)
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Numerous trees and branches down.

Linn County

Coggon	21	0040CST		0	0			Hail (1.75)
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Linn County

Prairieburg	21	0042CST		0	0			Hail (1.75)
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Linn County

Prairieburg	21	0042CST		0	0			Thunderstorm Wind (G57)
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Winds downed a local landmark 80 foot tall Cedar tree. The tree damaged the roof of a vacant, soon to be demolished, house.

Linn County

4 N Troy Mills	21	0042CST		0	0			Thunderstorm Wind (G57)
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65 mph wind gust reported.

Delaware County

Hopkinton	21	0057CST		0	0			Thunderstorm Wind (G52)
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60 mph wind gust reported by Fire Department.

Delaware County

Ryan	21	0057CST		0	0			Hail (1.25)
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Iowa County

Parnell	21	0115CST		0	0			Thunderstorm Wind (G60)
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Trees downed.

Johnson County

Countywide	21	0115CST		0	0			Thunderstorm Wind (G60)
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Countywide reports of downed or destroyed five to six inch diameter trees.

Linn County

Cedar Rapids	21	0130CST		0	0	15K		Lightning
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Lightning was blamed for starting a fire in an air conditioner unit. This fire quickly spread and gutted a mobile home.

Jackson County

Andrew	21	0138CST		0	0			Thunderstorm Wind (G60)
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Numerous trees downed.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, East Central and Southeast</u>									
Jackson County Maquoketa	21	0138CST			0	0			Thunderstorm Wind (G60)
		Large trees down.							
Keokuk County Delta	21	0308CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and power lines down.							
Keokuk County Sigourney	21	0310CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and power lines down.							
Washington County Wellman	21	0310CST			0	0	20K		Thunderstorm Wind (G60)
		One home struck by several large trees.							
Keokuk County What Cheer	21	0315CST			0	0			Thunderstorm Wind (G60)
		Trees and power lines downed.							
Washington County 4 W Brighton	21	0317CST			0	0			Thunderstorm Wind (G60)
		Trees and power lines downed.							
Jefferson County Pekin	21	0320CST			0	0			Thunderstorm Wind (G60)
		Numerous trees and branches downed.							
Washington County Washington	21	0320CST			0	0			Thunderstorm Wind (G60)
		Numerous trees downed.							
Louisa County Wapello	21	0328CST			0	0			Thunderstorm Wind (G60)
		Numerous large trees downed.							
Jefferson County Fairfield	21	0330CST			0	0			Thunderstorm Wind (G60)
		Trees and branches downed.							
Jefferson County Fairfield Muni Arpt	21	0330CST			0	0	50K		Thunderstorm Wind (G60)
		Several aircraft and aircraft hangers damaged.							
Van Buren County Keosauqua	21	0330CST			0	0	20K		Thunderstorm Wind (G60)
		Numerous trees downed. One homeowner reported her windows and window fan were blown out of her bedroom. Still another damage report was that of a top torn off a grain bin.							
Washington County Brighton	21	0330CST			0	0	5K		Thunderstorm Wind (G60)
		Barn blown down along with numerous trees.							
Washington County Washington	21	0332CST			0	0			Thunderstorm Wind (G51)
		Report of 59 mph wind gust recieved from the automated school net observing station.							
Henry County Countywide	21	0335CST			0	0			Thunderstorm Wind (G60)
		Trees down across county roads.							
Henry County Oakland Mills	21	0335CST			0	0			Thunderstorm Wind (G60)
		Trees and limbs downed.							
Henry County Winfield	21	0335CST			0	0	40K		Thunderstorm Wind (G60)
		Winds damaged roof of farm house and destroyed one mobile home, six metal grain bins, three wooden bins, two outbuildings, and one barn.							
Muscatine County West Liberty	21	0400CST			0	1	15K		Thunderstorm Wind (G60)
		An eleven year old girl was injured by flying glass when a tree struck her home. The tree struck the house and smashed a window as the girl and her parents were running to the basement for shelter. The family also lost numerous trees and one grain bin.							
Louisa County Grandview	21	0410CST			0	0	5K		Thunderstorm Wind (G60)
		Barn damaged and trees downed.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, East Central and Southeast</u>									
Muscatine County									
Muscatine	21	0412CST			0	0			Thunderstorm Wind (G70)
Muscatine County									
2 W Pleasant Prairie	21	0412CST			0	0	40K		Thunderstorm Wind (G70) Wind damage was reported to have damaged or destroyed one third of a house.
Des Moines County									
Burlington Arpt	21	0414CST			0	0			Thunderstorm Wind (G59) Burlington automated surface observing unit measured wind.
Cedar County									
Durant	21	0415CST			0	0	5K		Thunderstorm Wind (G70) A flying barn door took the roof off a silo.
Clinton County									
2 NW Delmar	21	0415CST			0	0	20K		Thunderstorm Wind (G70) Winds destroyed a large barn killing one of four steers inside.
Clinton County									
10 W Dewitt to 7 SW Dewitt	21	0415CST			0	0	10K		Thunderstorm Wind Thunderstorm winds plowed a broad path of destruction over western Clinton County downing numerous trees across the County and along the Wapsipinicon River.
Clinton County									
1 E Wheatland	21	0415CST			0	0			Thunderstorm Wind (G70) Numerous trees down.
Scott County									
Blue Grass	21	0415CST			0	0	40K		Thunderstorm Wind (G80) Winds destroyed a two story building at a local race track. This building housed the announcer's booth, concession stand, and track offices.
Scott County									
5 N Long Grove to 2 N Long Grove	21	0415CST			0	3	90K		Thunderstorm Wind Thunderstorm winds plowed a broad path of destruction over northern Scott County and along the Wapsipinicon River. Winds tore a garage off its foundation, caused roof damage to three homes and destroyed one home completely. A person in the destroyed home was thrown out of the house and suffered cuts and bruises, on his knees and back, requiring more than 50 stitches to close wounds. Numerous trees were downed with one tree landing on a 1995 Windstar minivan and its camper/trailer, destroying both.
Scott County									
Davenport	21	0420CST			1	2			Thunderstorm Wind (G80) Winds downed a large tree into an occupied tent. One 12 year old boy was crushed beneath the tree with two others in the tent slightly injured. A fourth boy was unharmed. These four and several others were camped out in the backyard of the "family" home and were there for a family reunion. All were sleeping when the winds struck. M12UT
Scott County									
Davenport	21	0420CST			0	0			Thunderstorm Wind (G80) Five inch diameter trees snapped off.
Scott County									
Davenport Arpt	21	0420CST			0	0	100K		Thunderstorm Wind (G80) Strong winds hit the Davenport airport on the Quad City Air Show weekend. This meant that numerous aircraft were on site and unprotected. Winds moved a C-46 300 feet into a field and flipped a Cessna C-206, causing extensive damage. Other planes were rotated between 90 and 180 degrees, including several T6 and T28 aircraft and one C-130 was turned 90 degrees. Winds also flattened every tent at the Airshow and wind blown debris caused some minor damage to two F-18 aircraft.
Scott County									
Mt Joy	21	0422CST			0	0			Thunderstorm Wind (G80) Numerous trees downed.
Jackson County									
3 S Maquoketa to Maquoketa	21	0430CST			0	0			Thunderstorm Wind (G56) Measured wind gust.
Clinton County									
Bryant	21	0440CST			0	0			Thunderstorm Wind (G70) 100 foot wide path of trees damaged.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, East Central and Southeast</u>									
Strong and damaging winds swept through Eastern Iowa and Northwestern Illinois causing several injuries and one fatality. Many large healthy, even landmark, trees were downed. Downed trees caused widespread power outages and blocked roads. The most severe winds tracked along portions of the Wapsipicon River causing extreme damage to homes and cabins. Strong winds also struck the Davenport area damaging aircraft at the Airshow and killing one boy when a tree fell on the tent in which he was sleeping.									
<u>IOWA, Northeast</u>									
Floyd County Marble Rock	05	1206CST			0	0			Hail (0.75)
Mitchell County Osage	05	1335CST			0	0			Hail (0.88)
Mitchell County Osage	05	1338CST			0	0			Hail (0.88)
Widely scattered severe thunderstorms produced dime to nickel size hail in northeast Iowa.									
Floyd County Charles City Arpt	15	1348CST			0	0	12K		Thunderstorm Wind (G53)
Chickasaw County 2 S New Hampton	15	1355CST			0	0	3.5K		Thunderstorm Wind (G53)
Allamakee County Dorchester	15	1402CST			0	0	4K		Thunderstorm Wind (G52)
Winneshiek County Bluffton	15	1415CST			0	0	10K		Thunderstorm Wind (G52)
Allamakee County 2 E Waukon	15	1450CST			0	0	2.5K		Thunderstorm Wind (G55)
Clayton County Mc Gregor	15	1515CST			0	0	15K		Thunderstorm Wind (G53)
Fayette County West Union	15	1528CST			0	0	10K		Thunderstorm Wind (G52)
Clayton County 1 SE Elkader	15	1620CST			0	0	8K		Thunderstorm Wind (G55)
Clayton County Garber	15	1638CST			0	0		15K	Hail (1.00)
Wind gusts of 60 to 65 mph knocked down numerous trees and power lines.									
Chickasaw County New Hampton	15	1400CST			0	0	50K		Lightning
45 cattle were killed instantly when lightning struck the tree they were standing under.									
Floyd County 10 SE Charles City	20	2220CST			0	0		15K	Hail (1.75)
Fayette County Westgate	20	2350CST			0	0	15K		Thunderstorm Wind (G61)
Fayette County .5 E Oelwein	20	2357CST			0	0	12K		Thunderstorm Wind (G70)
Fayette County Oelwein	20	2357CST			0	0	15K		Thunderstorm Wind (G70)
Fayette County 2 S Oelwein	21	0005CST			0	0	40K		Thunderstorm Wind (G70)
Fayette County Oelwein	21	0010CST			0	0	30K		Thunderstorm Wind (G61)
Clayton County Strawberry Point	21	0030CST			0	0	20K		Hail (2.00)
Clayton County Strawberry Point	21	0040CST			0	0	10K		Thunderstorm Wind (G56)
A cluster of severe thunderstorms with golf ball size hail and winds gusting to 80 mph damaged trees, barns, power lines and blew part of the roof off a restaurant near Oelwein.									
Floyd County Charles City	22	2110CST			0	0	15K		Thunderstorm Wind (G53)
Howard County Chester	22	2225CST			0	0	12K		Thunderstorm Wind (G53)
Winds gusted to around 60 mph knocking over trees and power lines.									

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Woodbury County 2 E Sioux City	19	2133CST			0	0			Thunderstorm Wind (G55)
Plymouth County Le Mars	20	0205CST			0	0	10K		Thunderstorm Wind (G62)
									Thunderstorm winds caused tree damage.
Woodbury County Hornick	20	2010CST			0	0			Hail (2.50)
Woodbury County Smithland	20	2025CST			0	0			Hail (1.75)
									Large hail fell but was limited in coverage area and amount with no reports of significant damage received.
<u>IOWA, Southwest</u>									
IAZ079-090			Mills - Fremont						
	01	0000CST			0	0			Flood
	30	2359CST							
									Minor flooding along the Missouri river continued as a result of continued high releases from upstream dams.
Shelby County Kirkman	12	1600CST			0	0			Hail (0.88)
									East of County Road M36.
Harrison County 2 W Persia	15	1948CST			0	0			Hail (0.88)
Harrison County Logan	20	0000CST			0	0	2K		Thunderstorm Wind
									Numerous trees downed.
Harrison County Mondamin	20	2300CST			0	0			Thunderstorm Wind (G61)
									Trees and limbs downed.
Mills County Malvern	21	0030CST			0	0			Thunderstorm Wind (G52)
									50+ large tree limbs downed. Power lines downed.
Pottawattamie County Oakland	21	0030CST			0	0	1K		Thunderstorm Wind
									Tree branches downed.
Montgomery County Red Oak Muni Arpt	21	0045CST			0	0			Thunderstorm Wind (G53)
Page County Shenandoah	21	0050CST			0	0			Thunderstorm Wind (G65)
									Trees uprooted and power lines downed.
Montgomery County Red Oak	21	0110CST			0	0			Thunderstorm Wind (G53)
Page County Shenandoah	21	0208CST			0	0			Thunderstorm Wind (G65)
									Some trees uprooted.
Harrison County Logan	29	1500CST			0	0			Thunderstorm Wind (G52)
									Trees downed and power poles broken.
Harrison County Logan	29	1539CST			0	0			Thunderstorm Wind (G54)
									Many trees downed.
<u>KANSAS, East</u>									
Marshall County .5 N Marysville	11	1527CST			0	0			Hail (1.00)
Marshall County Marysville	11	1538CST			0	0			Hail (1.00)
Marshall County Marysville	11	1538CST			0	0	30K		Thunderstorm Wind (G61)
									Strong winds destroyed two sheds, broke windows on one house and knocked down several large trees.
Marshall County Home	11	1555CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Marshall County Winifred	11	1600CST			0	0			Thunderstorm Wind (G50) Strong winds broke several large tree limbs.
Marshall County Winifred	11	1600CST			0	0			Hail (0.75)
Marshall County Frankfort	11	1600CST			0	0	2K		Thunderstorm Wind (G56) Strong winds tore the roof off a machine shed.
Marshall County Lillis	11	1600CST			0	0	40K	160K	Hail (2.75)
Marshall County Lillis	11	1600CST			0	0	150K	50K	Thunderstorm Wind (G57) Strong winds downed numerous trees and power lines. A strong wind gust tore the roof off a gymnasium and tossed it 100 yards to the east. Strong winds also toppled a wind mill onto the roof of a nearby house and destroyed two small storage sheds at a baseball field. Gold ball to baseball size hail accompanying the winds covered the ground up to 6 inches deep in spots. The wind blown hail shattered numerous windows on homes, including 17 windows on one of the larger houses alone. The hail also tore holes in the garage roof of another house, dented vehicles and caused widespread damage to crops.
Marshall County 2 S Lillis	11	1615CST			0	0			Funnel Cloud A funnel cloud was observed by a farmer near Lillis.
Marshall County Lillis	11	1615CST			0	0			Thunderstorm Wind (G50) Strong winds destroyed a barn at Bucks Grove near Lillis.
Pottawatomie County 2 NE Onaga	11	1635CST			0	0			Hail (1.00)
Pottawatomie County 1 S Havensville	11	1645CST			0	0			Hail (1.75)
Marshall County Beattie	11	1700CST			0	0	70K		Thunderstorm Wind (G60) Strong winds destroyed a barn, a machine shed, and a former old school house building. Several large trees were also knocked down.
Nemaha County Baileyville	11	1705CST			0	0			Thunderstorm Wind (G61) Strong winds knocked down several large trees.
Marshall County Axtell	11	1710CST			0	0			Hail (0.75)
Marshall County Axtell	11	1710CST			0	0	5K		Thunderstorm Wind (G61) Strong winds damaged two barns and broke several large tree limbs.
Jackson County 2 NW Mayetta	11	1710CST			0	0	10K		Thunderstorm Wind (G62) Strong winds pushed a trailer home off of it's foundation.
Jackson County 1 N Mayetta	11	1715CST			0	0	40K		Thunderstorm Wind (G54) Strong winds tore the roof off a pre-manufactured home and shattered several windows.
Jackson County 2 S Mayetta	11	1725CST			0	0			Thunderstorm Wind (G61)
Jackson County 2 S Mayetta	11	1725CST			0	0			Hail (1.00)
Jefferson County Rock Creek	11	1737CST			0	0	60K		Thunderstorm Wind (G57) Strong winds ripped off of the front porch along with part of the roof of a house and destroyed two barns.
Jefferson County Ozawkie	11	1737CST			0	0	2K		Thunderstorm Wind (G52) Strong winds damaged a barn near the intersection of highways 92 and K-4.
Jefferson County Ozawkie	11	1737CST			0	0			Hail (0.75)
Jackson County 2 S Denison	11	1748CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, East</u>									
Jefferson County Ozawkie	11	1800CST			0	0			Thunderstorm Wind (G50) Strong winds downed power lines.
Jefferson County 5 NW Perry	11	1805CST			0	0			Thunderstorm Wind (G52)
Jefferson County 4 N Meriden	11	1806CST			0	0	80K		Thunderstorm Wind (G61) Strong winds damaged a house, four sheds and power lines.
Jefferson County Meriden	11	1808CST			0	0	20K		Thunderstorm Wind (G52) Strong winds peeled the roof off of a mobile home.
Jefferson County Thompsonville	11	1810CST			0	0			Thunderstorm Wind (G52) Winds gusted to 60 mph at Perry Lake Dam.
Douglas County 1 E Lawrence	11	1830CST			0	0	10K		Thunderstorm Wind (G61) A strong wind gust flipped over a mobile home trailer on Interstate 70.
Cloud County Aurora	11	2135CST			0	0			Thunderstorm Wind (G52)
Ottawa County Ada	11	2200CST			0	0			Thunderstorm Wind (G50)
Clay County 7 SW Clay Center	11	2250CST			0	0			Thunderstorm Wind (G52) Strong winds downed several large limbs.
Coffey County 5 W Waverly	13	1500CST			0	0			Funnel Cloud County sheriff's office received several reports of a funnel cloud in the northern part of the county.
Coffey County 1 W Lebo	13	1808CST			0	0			Funnel Cloud Sheriff's office received a report of a funnel cloud.
Washington County 5 SW Barnes	15	1825CST			0	0			Hail (0.75)
Marshall County 5 S Blue Rapids	15	1850CST			0	0			Hail (0.75)
Clay County 5 SW Clay Center	21	2020CST			0	0			Hail (0.75)
Clay County Clay Center	21	2020CST			0	0			Hail (0.75)
Marshall County Marysville	24	2125CST			0	0			Hail (0.75)
<u>KANSAS, Extreme Southeast</u>									
Crawford County Girard	13	0250CST			0	0	0	0	Thunderstorm Wind Thunderstorm winds downed three inch diameter limbs.
Cherokee County Roseland	13	0300CST			0	0	5K	0	Hail (1.00) Thunderstorm winds downed trees.
Cherokee County Columbus	13	0310CST			0	0	5K	0	Thunderstorm Wind Thunderstorm winds downed numerous large trees and power lines, mainly in the southwest part of town.
Bourbon County Ft Scott	16	0158CST			0	0	0	0	Thunderstorm Wind Thunderstorm winds downed a large tree.

Storm Data and Unusual Weather Phenomena

June 1997

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

Crawford County
7 E Girard

16	0300CST				0	0	0	0	Flash Flood
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Up to two inches of rain fell in a three hour period flooding several county roads.

Bourbon County
Devon

29	2000CST				0	0	0	0	Flash Flood
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Heavy rainfall of up to three inches in one and a half hours caused flooding of roads and low lying areas around Devon. Minor flooding was also reported west and south of Fort Scott along Old Highway 69.

KANSAS, North Central

Phillips County
Phillipsburg

11	1948CST				0	0	50K	250K	Hail (1.75)
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Smith County
Smith Center

11	2005CST				0	0	0	50K	Thunderstorm Wind (G60)
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Phillips County
Logan

11	2015CST				0	0	0	100K	Hail (0.75)
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Jewell County
Mankato

11	2048CST				0	0	0	50K	Thunderstorm Wind (G60)
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Rooks County
Stockton

11	2104CST				0	0	0	100K	Hail (0.75)
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Mitchell County
Beloit

11	2105CST				0	0	0	0	Thunderstorm Wind (G60)
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Thunderstorms moved out of south-central Nebraska and rolled southeast across north-central Kansas. Storms dropped hail up to the size of golf balls and produced wind gusts to near 60 mph.

Phillips County
2 W Logan

15	2207CST				0	0	30K	400K	Hail (1.00)
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Thunderstorms that moved out of south-central Nebraska produced some large hail near Logan. Crops in this area were damaged.

Mitchell County
Beloit

24	2200CST				0	0	40K	100K	Thunderstorm Wind (G60)
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Thunderstorms that moved out of south-central Nebraska continued to move southeast. The storms produced small hail and gusty winds into north-central Kansas. Winds did peak out around 60 mph as the storm past through Beloit.

Phillips County
5 W Phillipsburg

25	2209CST				0	0	10K	60K	Thunderstorm Wind (G63)
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Phillips County
Logan

25	2300CST				0	0	10K	60K	Thunderstorm Wind (G63)
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A strong thunderstorm that moved through western Phillips county produced wind gusts over 60 mph.

KANSAS, Northeast

Leavenworth County
4 W Linwood to
Linwood

11	1837CST 1840CST				0	0			Thunderstorm Wind (G75)
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A severe thunderstorm over Leavenworth County produced a 60 MPH wind gust 4 miles west of Linwood. Tree limbs, 3 inches in diameter, were knocked down. In Linwood, a 75 MPH winds gust damaged the roof and blew over a semi-truck at a Kansas Turnpike service plaza.

Johnson County
De Soto

11	1845CST				0	0			Thunderstorm Wind (G70)
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A severe thunderstorm produced 70 MPH winds in De Soto.

Johnson County
Kenneth

16	0230CST				0	0			Urban/Sml Stream Fld
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Heavy rains during thunderstorms produced road flooding in parts of southeast Johnson County. Water covered Kenneth Road along Negro Creek.

KSZ025-103

Atchison - Leavenworth

25	0000CST				0	0			Flood
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Minor river flooding occurred along the Missouri River during June.

Missouri River

Atchison, KS

Storm Data and Unusual Weather Phenomena

June 1997

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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KANSAS, Northeast

Flood Stage 22 ft
Above Flood Stage 6/25 to 6/28
Crest 23.1 ft on 6/26

Leavenworth, KS

Flood Stage 20 ft
Above Flood Stage 6/26 to 6/27
Crest Estimated 20 ft on 6/26

Doniphan County

Severance 28 2100CST 0 0 Urban/Sml Stream Fld
2200CST
Heavy rains from thunderstorms resulted in roadway flooding in Severance.

Doniphan County

7 W Troy 28 2114CST 0 0 Hail (0.75)
Dime-size hail was reported by the sheriff's office 7 miles west of Troy during a severe thunderstorm.

Linn County

5 S Mound City 29 1945CST 0 0 Flash Flood
The Linn County Sheriff's office reported several county gravel roads flooded in Southern Linn County about 5 miles south of Mound City.

KANSAS, Northwest

Gove County

16 S Gove 02 0200CST 0 0 Hail (0.88)

Decatur County

6 W Dresden 02 0215CST 0 0 Hail (0.75)

Rawlins County

3 NW Herndon 02 0215CST 0 0 Hail (0.75)

Sheridan County

6 SW Hoxie 02 0215CST 0 0 Hail (0.88)

Rawlins County

3 NW Herndon 02 0230CST 0 0 Hail (0.75)

Wallace County

9 SSE Weskan 11 1400MST 0 0 Hail (1.00)

Wallace County

7 SSW Weskan 11 1418MST 0 0 Hail (1.50)

Greeley County

13 N Tribune 11 1429MST 0 0 Hail (0.88)

Greeley County

15 WNW Tribune to 11 1435MST 1.5 100 0 0 Tornado (F0)
14 WNW Tribune 1440MST
Tornado observed by farmer moving east at 20 mph over open country.

Thomas County

Colby 11 1544CST 0 0 Hail (1.00)

Thomas County

4 E Colby 11 1605CST 0 0 Hail (1.75)

Thomas County

Halford 11 1620CST 0 0 Hail (0.88)

Thomas County

4 E Halford 11 1635CST 0 0 Hail (1.50)

Sheridan County

6 SSE Menlo 11 1655CST 0 0 Hail (1.00)

Wichita County

6 W Lydia 11 1705CST 0 0 Hail (0.75)

Sheridan County

5 E Angelus 11 1720CST 0 0 Hail (1.00)

Graham County

Hill City 11 2100CST 0 0 Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, Northwest</u>									
Graham County 4.5 SE Hill City	11	2104CST 2105CST	0.1	50	0	0			Tornado (F0)
Brief tornado reported by citizen moving east at 30 mph.									
Sherman County 9 SW Goodland	12	1523MST			0	0			Hail (0.75)
Wallace County 15 N Sharon Spgs	12	1610MST			0	0			Hail (1.00)
Wallace County Wallace	12	1655MST			0	0			Hail (1.75)
Logan County 14 W Russell Spgs	12	1755CST			0	0			Hail (0.75)
Logan County 11 SW Russell Spgs	12	1815CST			0	0			Thunderstorm Wind (G52)
Tree branches 4 to 5 inches in diameter were downed.									
Logan County 11 SW Russell Spgs	12	1815CST			0	0			Hail (0.88)
Sherman County 9 SSW Ruleton	15	1830MST			0	0			Hail (0.75)
Sherman County 9 SSW Ruleton	15	1845MST			0	0			Hail (0.75)
Norton County 10 N Norton	15	2122CST			0	0			Hail (0.88)
Three quarter inch hail also reported 5 miles north of Norton at 2135 CST.									
Sherman County 2 S Goodland	18	2001MST			0	0			Thunderstorm Wind (G51)
Goodland CATV reported 59 mph wind gust.									
Sherman County 2 W Ruleton	19	2102MST			0	0			Thunderstorm Wind (G56)
Sherman County 2 S Goodland	19	2310MST			0	0			Thunderstorm Wind (G68)
Cheyenne County 10 N Bird City	20	2218CST			0	0			Hail (0.75)
Rawlins County 8 N Mc Donald	20	2240CST			0	0			Hail (1.00)
Decatur County 2 E Jennings	24	1535CST			0	0			Hail (2.75)
Windshield shattered by baseball size hail. Golfball size hail also reported 5 SE Jennings at 1540 CST									
Sheridan County .5 N Seguin	24	1605CST			0	0			Hail (1.00)
Norton County 3 N Clayton	24	1605CST			0	0			Hail (0.75)
Greeley County 10 SW Tribune	24	1615MST			0	0			Hail (1.00)
Decatur County 2 S Norcatgur	24	1616CST			0	0			Hail (0.75)
Sheridan County Seguin	24	1620CST			0	0			Hail (1.00)
Greeley County 10 SW Tribune	24	1635MST			0	0			Hail (2.00)
Sheridan County 5 W Hoxie	24	1635CST			0	0			Funnel Cloud
Sheridan County 4 E Menlo	24	1640CST			0	0			Hail (1.00)
Sheridan County 8 W Hoxie	24	1642CST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Sheridan County 14 N Hoxie	24	1648CST			0	0			Hail (1.25)
Greeley County 9 NW Horace	24	1655MST			0	0			Hail (0.88)
Sheridan County 2 S Angelus	24	1700CST			0	0			Funnel Cloud
Sheridan County 12 SE Hoxie	24	1700CST			0	0			Hail (0.75)
Graham County 2 S St Peter	24	1735CST			0	0			Hail (0.88)
Wallace County 12 SE Sharon Spgs	24	2013MST			0	0			Hail (0.88)
Wallace County 12 SE Sharon Spgs	24	2013MST			0	0			Thunderstorm Wind (G61)
Sherman County 10 S Goodland	25	1815MST			0	0			Thunderstorm Wind (G52)
	Gustnado observed by law enforcement.								
Sherman County 2 S Goodland	25	1825MST			0	0			Thunderstorm Wind (G50)
Cheyenne County Bird City Arpt	25	1835CST			0	0			Thunderstorm Wind (G53)
Rawlins County 3 N Mc Donald	25	1851CST			0	0			Thunderstorm Wind (G52)
	Branches up to 4 inches in diameter downed.								
Thomas County Colby Muni Arpt	25	1940CST			0	0			Thunderstorm Wind (G51)
Decatur County 5 SW Oberlin	25	1949CST			0	0			Hail (1.00)
Norton County 9 WNW Norton	25	2006CST			0	0			Funnel Cloud
Norton County 9 WNW Norton	25	2010CST	0.1	30	0	0			Tornado (F0)
	Brief tornado over open country.								
Gove County Quinter	25	2040CST			0	0			Thunderstorm Wind (G52)
	Branches up to 6 inches in diameter downed.								
Gove County 12 S Quinter	25	2055CST			0	0			Thunderstorm Wind (G52)
	Tree split by strong wind. Other large branches downed.								
Graham County 7 N Hill City	25	2106CST			0	0			Thunderstorm Wind (G52)
Graham County Hill City Arpt	25	2113CST			0	0			Thunderstorm Wind (G51)
Sherman County 1 N Ruleton	29	1703MST			0	0			Thunderstorm Wind (G52)
Sherman County 2 S Goodland	29	1714MST			0	0			Thunderstorm Wind (G69)
	Winds up to 79 mph at Goodland CATV tore down a few large branches. NWSO Goodland reported 58 mph gust.								
Wallace County Sharon Spgs	29	1749MST			0	0			Hail (1.00)
Thomas County 11 S Brewster	29	1850CST			0	0			Thunderstorm Wind (G52)
Thomas County 11 S Brewster	29	1850CST			0	0			Hail (1.00)
Logan County 8 N Mc Allaster	29	1910CST			0	0			Thunderstorm Wind (G57)
	Tree two feet in diameter blown over by 60 to 70 mph wind. Several branches broken on other trees.								

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Logan County									
8 N Mc Allaster	29	1910CST			0	0			Hail (1.00)
Gove County									
13 S Campus	29	1955CST			0	0			Thunderstorm Wind (G61)
			Tree topped by winds up to 70 mph.						
<u>KANSAS, Southeast</u>									
Russell County									
10 N Russell	11	2217CST			0	0			Hail (0.75)
Saline County									
Brookville	11	2251CST			0	0			Thunderstorm Wind (G52)
Barton County									
Susank	11	2317CST			0	0			Thunderstorm Wind (G52)
Rice County									
Bushton	11	2345CST			0	0			Thunderstorm Wind (G54)
Mepherston County									
Mc Pherson	12	0030CST			0	0			Hail (2.00)
Reno County									
10 N Hutchinson	12	0030CST			0	0			Hail (1.75)
Reno County									
Hutchinson	12	0033CST			0	0			Hail (0.88)
Reno County									
Hutchinson	12	0035CST			0	0			Hail (1.75)
Sumner County									
2 E Mulvane	12	1843CST			0	0			Hail (0.75)
Cowley County									
Rock	12	1927CST			0	0			Hail (1.75)
Butler County									
Douglass	12	1942CST			0	0			Hail (1.00)
Cowley County									
6 W Atlanta	12	1959CST			0	0			Hail (0.75)
Cowley County									
3 N Rock	12	2013CST			0	0			Hail (1.00)
Butler County									
Rose Hill	12	2014CST			0	0			Hail (0.75)
Butler County									
3 E Rose Hill	12	2022CST			0	0			Hail (1.25)
Butler County									
2 E Rose Hill	12	2030CST			0	0			Hail (1.75)
Harvey County									
2 E Mc Lains	12	2030CST			0	0			Hail (0.75)
Butler County									
2 E Augusta	12	2032CST			0	0			Hail (1.75)
Cowley County									
1 N Atlanta	12	2035CST			0	0			Hail (1.00)
Harvey County									
15 NE Newton	12	2042CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	12	2048CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	12	2052CST			0	0			Hail (1.00)
Sedgwick County									
Bellaire	12	2100CST			0	0			Hail (1.75)
Sedgwick County									
Wichita	12	2112CST			0	0			Hail (1.75)
Sedgwick County									
Derby	12	2211CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	12	2211CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Marion County									
Peabody	12	2215CST			0	0			Hail (1.00)
Sedgwick County									
Derby	12	2220CST			0	0			Hail (1.00)
Sedgwick County									
Derby	12	2222CST			0	0			Hail (1.25)
Sedgwick County									
Wichita	12	2225CST			0	0			Hail (1.50)
Harvey County									
Hesston	12	2230CST			0	0			Hail (1.00)
Sedgwick County									
1 W Derby	12	2230CST			0	0			Hail (2.75)
Sedgwick County									
Wichita	12	2235CST			0	0			Hail (2.75)
Sedgwick County									
Mc Connell Afb	12	2246CST			0	0			Hail (1.00)
Sedgwick County									
3 E Derby	12	2250CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	12	2250CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	12	2305CST			0	0			Hail (1.00)
Kingman County									
8 E Kingman	12	2330CST			0	0			Thunderstorm Wind (G61)
Sumner County									
Genda Spgs	13	0003CST			0	0			Thunderstorm Wind (G61)
Sedgwick County									
Clearwater	13	0005CST			0	0			Thunderstorm Wind (G56)
Sedgwick County									
Wichita	13	0010CST			0	0			Thunderstorm Wind (G56)
Cowley County									
8 N Arkansas City	13	0013CST			0	0	15K		Thunderstorm Wind (G56)
		CESSNA 150 OVERTURNED AT STROTHER FIELD.							
Cowley County									
Winfield	13	0017CST			0	0			Thunderstorm Wind (G56)
Sedgwick County									
5 N Derby	13	0022CST			0	0			Thunderstorm Wind (G61)
Cowley County									
2 S Arkansas City	13	0023CST			0	0			Thunderstorm Wind (G52)
Butler County									
Douglass	13	0047CST			0	0			Thunderstorm Wind (G52)
Butler County									
El Dorado	13	0112CST			0	0			Thunderstorm Wind (G52)
Reno County									
Plevna	15	2112CST			0	0			Thunderstorm Wind (G61)
Reno County									
20 W Hutchinson	15	2131CST			0	0			Thunderstorm Wind (G61)
Chase County									
Cottonwood Falls	15	2215CST			0	0			Thunderstorm Wind (G52)
Sedgwick County									
Goddard	15	2216CST			0	0			Thunderstorm Wind (G52)
Marion County									
Marion	15	2318CST			0	0			Flash Flood
		MUD CREEK FLOODED OLD HWY 56							
Reno County									
1.5 S Pretty Prairie	24	0230CST			0	0			Thunderstorm Wind (G56)
		TREE UPROOTED. SHED BLOWN DOWN.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, Southeast</u>									
Sedgwick County 2 S Cheney	24	0230CST			0	0			Thunderstorm Wind (G52) CARPORT BLOWN INTO A TREE. TREE DAMAGE.
Sedgwick County 2.5 N Goddard	24	0240CST			0	0			Thunderstorm Wind (G65) METAL BARN LOST 1/2 IT'S ROOF & HAD SOUTHWARD FACING LIFTED OVER IT. POSTS 6" BY 6" RIPPED FROM GROUND.
Russell County Gorham	24	1958CST			0	0			Thunderstorm Wind (G70) TREES BLOWN DOWN.
Barton County 2 N Albert	24	2010CST			0	0			Thunderstorm Wind (G52)
Russell County Russell	24	2010CST			0	0	50K		Thunderstorm Wind (G70) TWO TRAILERS FLIPPED OVER, TREES & POWER LINES DOWNED.
Russell County 1 N Russell	24	2010CST			0	0	10K		Thunderstorm Wind (G70) SECTIONS OF ROOF TORN FROM LARGE METAL STORAGE WAREHOUSES.
Russell County Russell	24	2013CST			0	0			Thunderstorm Wind (G61)
Russell County Russell	24	2019CST			0	0	25K		Thunderstorm Wind (G62) MOBILE HOME DEMOLISHED. PICKUP TRUCK & STORAGE SHED DAMAGED.
Russell County Bunker Hill	24	2020CST			0	0			Thunderstorm Wind (G78)
Barton County 1 S Olmitz	24	2025CST			0	0			Thunderstorm Wind (G56)
Russell County Paradise	24	2035CST			0	0			Thunderstorm Wind (G61)
Lincoln County 4 W Sylvan Grove to 4 N Sylvan Grove	24	2047CST			0	0			Thunderstorm Wind (G52)
Russell County Russell	24	2050CST			0	0			Hail (0.75)
Lincoln County Ash Grove	24	2114CST			0	0			Thunderstorm Wind (G52)
Lincoln County 4 N Sylvan Grove	24	2127CST			0	0			Thunderstorm Wind (G70)
Ellsworth County Holyrood	24	2140CST			0	0			Hail (0.75)
Cowley County 3 S Winfield	25	1718CST			0	0			Hail (1.75)
Elk County 6 W Howard	25	1721CST			0	0			Hail (0.88)
Cowley County Atlanta	25	1739CST			0	0			Hail (0.75)
Cowley County Hackney	25	1750CST			0	0			Thunderstorm Wind (G52)
Cowley County Arkansas City	25	1753CST			0	0			Hail (0.88)
Kingman County 5 SE Kingman	25	2106CST			0	0			Hail (1.75)
Kingman County Murdock	25	2120CST			0	0	30K		Hail (1.75) ONE HOME BADLY DAMAGED.
Sedgwick County Cheney	25	2129CST			0	0			Hail (1.75)
Sedgwick County Cheney	25	2129CST			0	0			Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Cowley County Winfield	25	2336CST			0	0			Hail (1.00)
Barton County Hoisington	26	0330CST			0	0			Flash Flood
BLOOD CREEK FLOODED MANY ROADS IN HOISINGTON.									
Kingman County Kingman	29	1550CST			0	0			Hail (0.75)
Kingman County 3 N Rago	29	1609CST			0	0			Hail (1.75)
Kingman County Norwich	29	1631CST			0	0			Hail (1.00)
Mcperson County 4 S Lindsborg	29	1633CST			0	0			Hail (1.75)
Harper County Harper	29	1648CST			0	0			Hail (1.75)
Sumner County 2 N Milton	29	1648CST			0	0			Hail (0.75)
Harper County Danville	29	1652CST			0	0			Thunderstorm Wind (G61)
Harper County Runnymede	29	1652CST			0	0			Hail (1.75)
Harper County Runnymede	29	1652CST			0	0			Thunderstorm Wind (G61)
Sumner County Argonia	29	1653CST			0	0			Thunderstorm Wind (G61)
Harper County Runnymede	29	1702CST			0	0			Hail (2.75)
Sumner County 5 S Argonia	29	1716CST	0.5	50	0	0	75K		Tornado (F0)
ONE LARGE BARN DESTROYED ALONG WITH SOME FARM EQUIPMENT.									
Butler County Cassoday	29	1728CST			0	0	50K		Thunderstorm Wind (G61)
RADIO TOWER, 192 FEET TALL, TIPPED OVER, LANDING ON TOP OF GAS STATION.									
Harper County Danville	29	1750CST			0	0	75K		Thunderstorm Wind (G61)
ONE BARN DESTROYED & ONE SILO DAMAGED.									
Sedgwick County Bentley	29	1802CST			0	0			Thunderstorm Wind (G52)
Sedgwick County 2 E Maize	29	1804CST			0	0			Thunderstorm Wind (G65)
Sumner County Geuda Spgs	29	1804CST			0	0	35K		Thunderstorm Wind (G78)
GRAIN BIN BLOWN OVER, ROOFS TORN FROM BARNES & HOUSES, TOPPLED POWER POLES & OVERTURNED CAMPERS.									
Butler County 3 N El Dorado	29	1812CST			0	0			Thunderstorm Wind (G65)
Sedgwick County Wichita	29	1817CST			0	0			Thunderstorm Wind (G56)
Butler County Potwin	29	1818CST			0	0			Thunderstorm Wind (G61)
Cowley County Silverdale	29	1828CST			0	0			Thunderstorm Wind (G61)
Greenwood County Eureka	29	1840CST			0	0			Thunderstorm Wind (G52)
Harper County Waldron	29	1920CST			0	0			Hail (1.00)
Wilson County Fredonia	29	1934CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Wilson County 5 E Altoona	29	1951CST			0	0			Thunderstorm Wind (G61)
Neosho County Chanute	29	2000CST			0	0			Thunderstorm Wind (G56)
									ROAD SIGNS BLOWN DOWN NEAR CHANUTE.
<u>KANSAS, Southwest</u>									
Clark County 18 SW Ashland	11	0420CST			0	0			Hail (0.88)
Meade County 7 SW Meade	11	1705CST			0	0			Hail (1.00)
Ness County Ness City	11	1853CST			0	0			Hail (0.88)
Ness County Ness City	11	1905CST			0	0			Hail (1.00)
Hodgeman County Hanston	11	2044CST			0	0			Hail (0.75)
Ellis County Walker	11	2230CST			0	0			Hail (1.75)
									Siding damaged and windows broken.
Ellis County Walker	11	2230CST			0	0	5K		Thunderstorm Wind
									Power lines blown down...few trees uprooted.
Kearny County Lakin	12	1845CST			0	0			Thunderstorm Wind (G58)
Stanton County 12 NW Johnson	12	1910CST			0	0			Thunderstorm Wind (G52)
Scott County 3 NNE Modoc	12	1920CST			0	0			Hail (0.88)
Finney County 2 NW Garden City	12	1950CST			0	0	3K		Thunderstorm Wind
									Power lines and power poles blown down.
Finney County 2 S Holcomb	12	1950CST			0	0	1M		Thunderstorm Wind
									Sunflower electric reported damage as greater than 60 knot thunderstorm wind passed through. A six story coal stacker was moved 240 feet! Damage was done to the stacker and coal cars.
Finney County Garden City Arpt	12	2021CST			0	0			Thunderstorm Wind (G52)
Finney County Garden City	12	2030CST			0	0			Lightning
									A house on the east side of the city sustained damage from a lightning strike. The bolt demolished a chimney, blew light switches and plaster off the walls and put a hole in the roof. Subsequently, there was water damage from the hole in the roof.
Haskell County 15 N Sublette	12	2030CST			0	0			Thunderstorm Wind (G52)
Clark County 9 NW Englewood	12	2032CST			0	0			Thunderstorm Wind (G52)
Finney County Pierceville	12	2035CST			0	0	0.50K		Thunderstorm Wind
									Window blown out of a house.
Gray County 3 S Cimarron	12	2036CST			0	0			Thunderstorm Wind (G52)
Meade County 11 SSE Meade to 11 SS Meade	12	2045CST			0	0			Hail (0.75)
Meade County 11 SSE Meade	12	2045CST			0	0	1K		Thunderstorm Wind
									Three inch tree limbs blown down.
Finney County 4 SSW Kalvesta	12	2050CST			0	0			Thunderstorm Wind (G59)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Clark County 15 SE Ashland	12	2105CST			0	0			Hail (0.88)
Comanche County 8 NW Coldwater	12	2134CST			0	0			Hail (1.75)
Clark County 3 NW Ashland	12	2203CST			0	0	10K		Thunderstorm Wind
									12 power poles blown down.
Stafford County 3 S St John	12	2209CST			0	0			Hail (0.88)
Stafford County 3 S St John	12	2209CST			0	0			Thunderstorm Wind (G52)
Barber County 2 N Sharon	12	2230CST			0	0			Hail (1.00)
Stafford County 7 N Zenith	12	2245CST			0	0			Hail (0.75)
Pratt County Pratt	12	2300CST			0	0	4K		Thunderstorm Wind
									Four inch diameter tree limbs blown down along with power lines.
Trego County 13 N Cedar Bluff Res	15	1615CST			0	0			Hail (0.75)
Morton County Elkhart	15	1651CST			0	0			Hail (1.25)
Trego County Cedar Bluff Res	15	1653CST			0	0			Hail (0.75)
Gray County Montezuma	15	1800CST			0	0			Hail (0.75)
Seward County Liberal	15	1800CST			0	0			Hail (0.75)
Gray County Montezuma	15	1805CST			0	0			Hail (1.00)
Grant County 12 SW Ulysses	15	1811CST			0	0			Hail (0.75)
Meade County 11 SW Meade	15	1812CST			0	0			Hail (0.75)
									At the Meade State Park.
Rush County 2 W Nekoma	15	1821CST			0	0			Hail (0.75)
Meade County 11 SW Meade	15	1822CST			0	0			Hail (1.00)
									At the Meade State Park.
Meade County 5 S Plains	15	1823CST			0	0			Hail (0.75)
Rush County Nekoma	15	1824CST			0	0			Hail (1.00)
Gray County Cimarron	15	1839CST			0	0			Hail (0.75)
Gray County Cimarron	15	1843CST			0	0			Hail (2.75)
Gray County Cimarron	15	1845CST			0	0			Hail (1.50)
Rush County 3 S Rush Center	15	1859CST			0	0			Hail (0.75)
Meade County Fowler	15	1912CST			0	0			Hail (1.00)
Finney County Garden City	15	1930CST			0	0			Thunderstorm Wind (G52)
									Greater than 50 knot wind last 10 minutes.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Clark County 5 S Ashland	15	1940CST			0	0			Thunderstorm Wind (G52)
Clark County 9 NE Ashland	15	1957CST			0	0			Thunderstorm Wind (G73)
Hodgeman County 5 S Jetmore	15	2001CST			0	0			Hail (0.75)
Comanche County 4 NW Coldwater	15	2008CST			0	0	0.50K		Thunderstorm Wind
			Window blown out of a house.						
Finney County 5 N Garden City	15	2101CST			0	0			Hail (1.00)
Pratt County 8 SW Pratt	15	2110CST			0	0			Thunderstorm Wind (G90)
			Railroad boxcar blown off tracks.						
Pratt County Pratt	15	2110CST			0	0			Thunderstorm Wind (G64)
			Large tree blown down.						
Pratt County 5 E Pratt	15	2135CST			0	0			Hail (0.75)
Stafford County 12 E St John	15	2138CST			0	0			Thunderstorm Wind (G64)
Grant County 14 NE Ulysses	16	1330CST			0	0			Hail (0.75)
Seward County 20 N Liberal	16	1400CST			0	0			Hail (0.75)
Seward County 10 NNE Liberal	16	1416CST			0	0			Hail (0.75)
Barber County 5 W Kiowa	16	1515CST			0	0	500K		Hail (0.75)
			Two to three mile swath of hail. Some of the hail piled 4 feet deep at the corner of one fenced in area.						
Barber County 2 E Hardtner	16	1527CST			0	0			Hail (2.75)
Ford County Dodge City	16	1635CST			0	0			Thunderstorm Wind (G59)
Gray County 5 ENE Montezuma	23	1848CST			0	0			Hail (0.88)
Morton County 6 W Richfield	23	1953CST			0	0			Hail (0.75)
Stanton County 3 SE Johnson	23	2018CST			0	0			Hail (1.00)
Stanton County Saunders	24	1638CST			0	0			Hail (0.75)
Stevens County 2 E Moscow	24	1640CST			0	0			Thunderstorm Wind (G90)
			Three railroad boxcars blown off the tracks.						
Morton County 7 E Richfield	24	1710CST			0	0			Hail (1.00)
Stanton County Johnson	24	1715CST			0	0			Thunderstorm Wind (G52)
Stevens County 7 S Hugoton	24	1730CST			0	0			Hail (0.75)
Stevens County Moscow	24	1730CST			0	0			Hail (1.00)
Stevens County Hugoton	24	1732CST			0	0			Hail (0.75)
Hamilton County 2 SE Coolidge	24	1735CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, Southwest</u>									
Stevens County									
Moscow	24	1740CST			0	0			Thunderstorm Wind (G63)
			450,000 bushel grain bin blown over and demolished. The demolished bin landed on an occupied pickup. The driver escaped injury by laying down in the passenger seat.						
Haskell County									
Satanta	24	1755CST			0	0	3K		Thunderstorm Wind
			Four inch tree limbs blown down.						
Hamilton County									
8 W Syracuse	24	1800CST			0	0			Hail (1.75)
Trego County									
5 N Collyer	24	1800CST			0	0			Hail (1.75)
Haskell County									
Sublette	24	1810CST			0	0	1K		Thunderstorm Wind
			Tree limbs blown down.						
Trego County									
2 SE Wakeeney	24	1816CST			0	0			Hail (0.75)
			Location is WaKeeney.						
Gray County									
5 NNW Montezuma	24	1827CST			0	0			Thunderstorm Wind (G60)
Finney County									
10 SW Garden City	24	1838CST			0	0			Hail (1.00)
Trego County									
6 S Ogallah	24	1840CST			0	0			Hail (1.00)
Gray County									
Cimarron	24	1843CST			0	0			Thunderstorm Wind (G52)
Trego County									
4 SE Trego Center	24	1850CST			0	0			Hail (1.75)
			Hail lasted 15 minutes and covered the ground. Ninety percent of the wheat was destroyed. Farmers in the area had expected the yield on the wheat to be the best ever, before the hail hit.						
Trego County									
7 ESE Trego Center	24	1855CST			0	0			Hail (1.00)
Finney County									
Pierceville	24	1858CST			0	0			Thunderstorm Wind (G59)
Gray County									
Charleston	24	1858CST			0	0			Thunderstorm Wind (G59)
Kearny County									
11 N Deerfield	24	1900CST			0	0	5K		Thunderstorm Wind
			Four inch "live" tree limbs blown down.						
Ellis County									
Hays	24	1918CST			0	0			Thunderstorm Wind (G52)
Ellis County									
Hays	24	1926CST			0	0			Hail (0.75)
Ellis County									
Hays	24	1930CST			0	0	5K		Lightning
			Lightning bolt destroyed a chimney. The debris fell on a car.						
Ellis County									
Munjor	24	1935CST			0	0	4K		Thunderstorm Wind
			Eight power poles blown down.						
Ness County									
9 SW Ness City	24	1935CST			0	0			Thunderstorm Wind (G60)
Ellis County									
Victoria	24	1945CST			0	0	2K		Thunderstorm Wind
			Power poles blown down.						
Ness County									
1 N Ransom	24	1951CST			0	0			Hail (0.75)
Ellis County									
Victoria	24	1955CST			0	0			Hail (0.88)
Lane County									
Shields	24	2015CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Rush County 4 NE Mc Cracken	24	2027CST			0	0	3K		Thunderstorm Wind
			Four inch "live" tree limbs blown down.						
Rush County La Crosse	24	2057CST			0	0	1K		Thunderstorm Wind
			Tree blown down.						
Stevens County Hugoton	25	1902CST			0	0			Hail (0.75)
Kiowa County Greensburg	25	2120CST			0	0			Hail (0.75)
Pratt County 7 S Pratt	25	2155CST			0	0			Hail (1.75)
Kiowa County 6 SE Greensburg	25	2200CST			0	0			Hail (0.75)
Finney County Garden City	25	2220CST			0	0			Thunderstorm Wind (G63)
Pratt County 3 W Pratt	25	2220CST			0	0			Hail (1.00)
Barber County 3 N Lake City	25	2234CST			0	0			Hail (0.75)
Gray County 5 S Charleston	25	2240CST			0	0			Thunderstorm Wind (G63)
Stevens County 3 E Hugoton	25	2241CST			0	0			Hail (1.00)
Ford County 6 N Ford	25	2245CST			0	0			Hail (1.00)
Finney County Pierceville	25	2255CST			0	0			Thunderstorm Wind (G52)
Ellis County Hays	25	2256CST			0	0			Thunderstorm Wind (G53)
Ford County 4 NNE Ford	25	2300CST			0	0			Hail (0.88)
Gray County 2 E Charleston	25	2300CST			0	0			Hail (0.75)
Rush County 10 E Rush Center	25	2300CST			0	0			Flash Flood
			Roads washed out.						
Barber County 10 S Isabel	25	2307CST			0	0			Hail (1.00)
Seward County Liberal	25	2331CST			0	0			Hail (0.75)
Gray County 3 S Ensign	25	2335CST			0	0			Hail (0.75)
Seward County Liberal	25	2335CST			0	0			Thunderstorm Wind (G53)
Gray County 6 SW Cimarron	25	2345CST			0	0			Thunderstorm Wind (G70)
			Five to six inch diameter tree limbs blown down.						
Ford County 3 W Dodge City	25	2352CST			0	0			Thunderstorm Wind (G63)
Comanche County Protection	27	1908CST			0	0			Hail (1.75)
Comanche County 10 SW Coldwater	27	1950CST			0	0			Hail (1.00)
Rush County Hargrave	29	0700CST			0	0			Flash Flood
			Four and one half inch rain washed roads out.						

Storm Data and Unusual Weather Phenomena

June 1997

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									
9 W Pratt	29	0755CST			0	0			Hail (0.75)
Pratt County									
Coats	29	0804CST			0	0			Hail (1.00)
Pratt County									
Coats	29	0806CST			0	0			Hail (0.75)
Barber County									
10 N Medicine Lodge	29	0832CST			0	0			Hail (1.00)
Morton County									
13 NW Elkhart	29	1715CST			0	0			Hail (0.75)
Meade County									
15 S Meade	29	1953CST			0	0			Hail (0.75)
Meade County									
16 S Meade	29	2018CST			0	0			Hail (1.00)
<u>KENTUCKY, Central</u>									
Washington County									
Springfield	02	0600EST 0800EST			0	0			Urban/Sml Stream fld
									Minor street flooding reported by police in Springfield.
Lincoln County									
Stanford	02	1640EST			0	0			Hail (0.75)
									Dime size hail reported by the county dispatch.
Garrard County									
Buckeye	02	1710EST			0	0			Hail (0.75)
									Dime size hail reported by the county dispatch.
Boyle County									
Perryville	02	1730EST			0	0			Hail (0.75)
									Dime size hail reported by the Perryville Fire Department.
KYZ045									
									Nelson
	03	0800EST			0	0			Flood
	04	0200EST							
									The Rolling Fork of the Salt River at Boston crested at 36.2 feet (flood stage is 35 feet) at 8 pm edt on June 3. This resulted in minor bottomland flooding.
Hancock County									
Various Parts	08	0300EST 0400EST			0	0			Flash Flood
									Water covered one lane of Highway 60. Numerous roads were also water covered.
Breckinridge County									
Various Parts	08	0300EST 0400EST			0	0			Flash Flood
									Water covered numerous county roads.
Oldham County									
Pewee Vly	08	1300EST 1500EST			0	0			Flash Flood
									Oldham county police reported 2 inches of rain fell in less than 2 hours causing roads in the Pee Wee valley area to be water covered.
KYZ045									
									Nelson
	09	2300EST			0	0			Flood
	11	0430EST							
									The Rolling Fork of the Salt River at Boston crested at 36.9 feet (35 foot flood stage) at 13:30 est on June 10. Only minor agricultural bottomland flooding resulted.
Clark County									
Winchester	12	1855EST			0	0			Thunderstorm Wind (G50)
									Several trees reported down.
Meade County									
Garrett	13	1415EST			0	0			Thunderstorm Wind (G60)
									Several trees uprooted.
Anderson County									
Countywide	13	1530EST 1700EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Central									
Spotter reported 3 inches of rain fell in an hour 5 miles south of Lawrenceburg causing flooding of some property. Many county roads were also water covered across various parts of the county.									
Jessamine County Various Parts	13	1530EST 1645EST			0	0			Flash Flood
Flash flooding was observed over a large part of the county as 1-4 inches of rain fell in less than 2 hours. State road 127 had several feet of water over it.									
Woodford County Various Parts	13	1530EST 1645EST			0	0			Flash Flood
Flash flooding was observed over a large part of the county as 1-4 inches of rain fell in less than 2 hours. Several feet of water covered state road 169.									
Madison County Richmond	13	1544EST			0	0			Thunderstorm Wind (G175)
Golf ball size hail reported.									
Madison County Richmond	13	1600EST 1700EST			0	0			Flash Flood
Several streets were closed due to flash flooding in the city.									
Russell County Jamestown	13	1630EST			0	0			Thunderstorm Wind (G50)
Several trees and power lines down.									
Casey County Countywide	13	1645EST 1655EST			0	0			Thunderstorm Wind (G50)
Several trees down as a squall line moved through.									
Lincoln County Stanford	13	1645EST			0	0			Thunderstorm Wind (G50)
Several trees down as a squall line moved through.									
Butler County Countywide	13	1845EST 1915EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down across various parts of the county.									
Warren County Bowling Green	13	1850EST			0	0			Thunderstorm Wind (G50)
Several trees were reported down.									
Edmonson County Western Parts	13	1900EST 1915EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down across western parts of the county.									
Barren County Countywide	13	1930EST 2000EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down across various parts of the county.									
Adair County Countywide	13	2020EST 2030EST			0	0			Thunderstorm Wind (G50)
Police and DES reported several trees down across various parts of the county.									
Cumberland County Countywide	13	2030EST 2040EST			0	0			Thunderstorm Wind (G50)
Police and DES reported several trees down across various parts of the county.									
KYZ045 Nelson	16	0000EST 0400EST			0	0			Flood
The Rolling Fork of the Salt River at Boston crested at 35.1 feet (flood stage is 35 feet) at 01:00 est on June 16. Only minor agricultural bottomland flooding resulted.									
Warren County Richardsville	16	1921EST 1922EST	0.5	50	0	0	13.5K		Tornado (F0)
A brief F0 tornado touched down in Richardsville blowing off a few roofs and downing several trees. DES and the public sighted the tornado, and one resident captured it on video.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Central</u>									
Bourbon County									
Paris	16	2015EST 2016EST	0.5	50	0	0	30K		Tornado (F0)
									A brief F0 tornado produced severe damage to a horse barn including the concrete block section. Several horses were in their stalls as the barn was thrown, however non of them were seriously injured. Report was from the DES.
Clark County									
Southern Part	16	2100EST 2330EST			0	0			Flash Flood
									Several roads were washed out in the southern part of the county as around 2 inches of rain fell in an hour period. A few roads in Winchester were also water covered for a brief time.
Butler County									
Quality	17	2025EST 2026EST	0.5	50	0	0			Tornado (F0)
									Local Fire Department and DES reported a weak F0 tornado briefly touched down downing several trees.
Grayson County									
Eastern Part	21	1135EST 1225EST			0	0			Flash Flood
									A heavy thunderstorm dumped as much as 1.5 inches of rain in less than an hour across eastern parts of the county. Several roads were water covered.
Edmonson County									
Various Parts	21	1235EST 1335EST			0	0			Flash Flood
									A heavy thunderstorm dropped as much as 1.5 inches of rain in less than an hour across parts of the county which resulted in several roads being water covered.
Warren County									
Various Parts	21	1235EST 1335EST			0	0			Flash Flood
									A heavy thunderstorm dropped as much as 1.5 inches of rain in less than 1 hour across parts of the county causing several roads to be water covered.
Hardin County									
Northern Part	21	1300EST 1330EST			0	0			Flash Flood
									A half a foot of water covered Highway 31 West across the northern part of the county as a heavy thunderstorm produced as much as 1.5 inches of rain in less than an hour.
Jefferson County									
Eastern Part	21	1315EST 1430EST			0	0			Flash Flood
									A heavy thunderstorm dropped around 1.5 inches of rain in less than an hour across eastern parts of Jefferson county. Several roadways were water covered. Interstate 264 had several cars stalled along the roadways near St. Matthews.
Jefferson County									
Jeffersontown	21	1330EST			0	0			Thunderstorm Wind (G50)
									Several trees were blown down.
Edmonson County									
Mammoth Cave	21	1330EST			0	0			Thunderstorm Wind (G50)
									Several trees were reported down around Mammoth Cave.
<u>KENTUCKY, Eastern</u>									
Fleming County									
Fairview	02	1520EST			0	0	0	0	Hail (1.00)
Estill County									
Irvine	02	1525EST			0	0	0	0	Hail (1.00)
Breathitt County									
Talbert	02	2200EST 2300EST			0	0	3K	0	Flash Flood
									A bridge at Pipemud and Turners Creek was flooded.
Mccreary County									
8 SE Whitley City	12	1645EST 1745EST			0	0	5K	0	Flash Flood
									Flash flooding occurred along Hayes and Marsh Creeks. A car was washed downstream.
Laurel County									
Pittsburg	12	1720EST			0	0	0	0	Thunderstorm Wind
									Winds of 60 mph were estimated by law enforcement.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Eastern</u>									
Laurel County									
Pittsburg	12	1740EST			0	0	0	0	Thunderstorm Wind
									Winds of 60 mph were estimated by law enforcement.
Lee County									
6 N Beattyville	13	1545EST			0	0	0	0	Hail (1.00)
Breathitt County									
Jackson	13	1615EST			0	0	0	0	Hail (1.00)
Jackson County									
Mc Kee	13	1630EST			0	0	3K	0	Thunderstorm Wind
									Power lines were downed at the water plant.
Pulaski County									
Faubush	13	1650EST			0	0	3K	0	Thunderstorm Wind
									Power lines were downed.
Wayne County									
Monticello	13	1650EST			0	0	0	0	Thunderstorm Wind
									Trees were downed at various locations around the county.
Pulaski County									
Burnside	13	1700EST			0	0	10K	0	Thunderstorm Wind
									The metal roof was blown off of a business building.
Rockcastle County									
Brodhead	13	1700EST 1800EST			0	0	3K	0	Flash Flood
									A person was temporarily trapped in a van after it was washed off a road.
Mccreary County									
Blue Heron	13	1710EST			0	0	3K	0	Thunderstorm Wind
									Trees were blown down.
Mccreary County									
Revelo	13	1715EST 1717EST	0.2	25	0	0	5K	0	Tornado (F0)
									A small tornado downed trees and power lines.
Whitley County									
Williamsburg	13	1735EST			0	0	3K	0	Thunderstorm Wind
									Trees were downed and there was some minor roof damage.
Bell County									
Frakes	13	1745EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Bell County									
Middlesboro	13	1754EST 1757EST	0.3	25	0	0	3K	0	Tornado (F0)
									A small tornado damaged trees and downed power lines.
Bell County									
1 W Pineville to Jenson	13	1755EST 1805EST	5	30	0	0	10K	0	Tornado (F0)
									The path of the tornado was intermittent. Trees were downed, and there was some minor structural damage.
Whitley County									
Williamsburg	13	2130EST			0	1	0	0	Lightning
									A man received minor injuries when he was struck by lightning.
Whitley County									
Williamsburg	14	1305EST 1900EST			0	0	5K	0	Flash Flood
									Numerous roads were flooded in and around Williamsburg. One mile east of town a mudslide dislodged a trailer from its foundation.
Morgan County									
White Oak	16	2130EST			0	0	0	0	Hail (1.00)
Powell County									
Stanton	16 17	2145EST 0200EST			0	1	3.3M	1.7M	Flash Flood
Wolfe County									
Campton	16 17	2200EST 0200EST			0	0	1M	4M	Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

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

KENTUCKY, Eastern

Breathitt County

Keck	16	2230EST			0	0	10K	10K	Flash Flood
	17	0200EST							

Estill County

Irvine	16	2230EST			0	0	50K	100K	Flash Flood
	17	0200EST							

Three to five inches of rain within a 1 to 3 hour period resulted in extensive flash flooding. In Powell County about 50 homes and a dozen businesses sustained flood damage, and numerous roads had to be closed. The gift shops along Mill Creek at Natural Bridge suffered heavy flood damage. A car was swept off the road on Steam Shovel Hill, and the driver suffered a broken ankle. In Wolfe county almost all the roads except the Mountain Parkway had to be closed for a time, and two mobile homes were washed away. Several businesses in Campton were flooded. About 44 vehicles were heavily damaged at a car dealership. In Estill County the flooding was mostly confined to the northern part of the county, with northeastern sections especially hard hit. Numerous roads were damaged in Estill County, and a mobile home was washed away. In Breathitt County, flash flooding was confined to the northern part of the county. A bridge at Keck was washed out, and several roads were flooded.

KENTUCKY, Northeast

Carter County

5 NE Olive Hill	02	1400EST			0	0			Hail (0.75)
									Dime size hail fell around Carter Caves State Park.

Lawrence County

Gladys	12	1450EST			0	0			Hail (0.75)
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Greenup County

Flatwoods	12	1845EST			0	0			Hail (0.75)
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KENTUCKY, Northern

Boone County

Countywide	01	0000EST 0400EST			0	0	25K		Flood
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Heavy rainfall caused creeks and streams to rise out of their banks. Numerous roads and a bridge were flooded.

Campbell County

Countywide	01	0000EST 0300EST			0	0	10K		Flood
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Persistent heavy rainfall caused many roads and creeks to be flooded.

Mason County

Countywide	01	0000EST 0300EST			0	0	25K		Flash Flood
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Persistent heavy rainfall caused creeks and streams to rise out of their banks. Several cars were washed away in Maysville.

Gallatin County

Countywide	01	1100EST 1230EST			0	0	5K		Flood
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Numerous roads flooded.

Owen County

Countywide	01	1100EST 1230EST			0	0	5K		Flood
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Numerous roads flooded.

Bracken County

Bradford	02	1645EST			0	0	3K		Thunderstorm Wind
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Trees downed across Rt 8.

Lewis County

Vanceburg	02	2000EST 2100EST			0	0	5K		Flood
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Roads flooded.

An upper level cut-off low pressure lingered across the Ohio valley from May 31st through the June 2nd. Much of northern Kentucky received 2-4 inches of rain on the 31st and 1st in widespread rain. Scattered thunderstorms with very heavy rainfall developed on the 2nd.

Kenton County

Independence	16	1800EST 2000EST			0	0	50K		Flood
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Persistent heavy rainfall caused Banklick Creek to overflow its banks. Pioneer Park was under 3-4 feet of water and 10 homes were evacuated.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Northern</u>									
Boone County									
Countywide	18	0845EST 1000EST			0	0	5K		Flood
			Heavy rainfall caused numerous roads to be closed across the county.						
Kenton County									
Ft Mitchell	18	1000EST 1100EST			0	0	5K		Flood
			Numerous roads closed due to heavy rainfall.						
Grant County									
Countywide	18	1440EST 1545EST			0	0	5K		Flood
			Area creeks and streams including Eagle Creek rose out of their banks and flooded some roads mainly over the northern part of the county.						
Lewis County									
Trinity	19	1930EST 2025EST			0	0	10K		Flood
			An isolated thunderstorm dropped an estimated 4 inches of rain causing several roads to be washed out.						
<u>KENTUCKY, Southwest</u>									
Henderson County									
Henderson	02	1800CST 1900CST			0	0			Urban/Sml Stream Fld
			Radar estimated rainfall rates from one to 1.5 inches per hour. High water was reported at one intersection.						
Hopkins County									
Madisonville	02	1800CST 1900CST			0	0			Urban/Sml Stream Fld
			Minor flooding was reported on a few streets in Madisonville.						
KYZ014									
Union									
	06	1700CST			0	0			Flood
	10	1200CST							
			The Ohio River crested less than a foot above flood stage at Uniontown. Flooding of agricultural bottomlands was the main problem.						
Union County									
Morganfield	13	1149CST			0	0			Thunderstorm Wind (G50)
			Trees were down along Highway 56						
Henderson County									
Henderson	13	1215CST			0	0	5K		Thunderstorm Wind (G50)
			Several trees and a power line were down in and around Henderson.						
Hickman County									
Clinton	13	1503CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down.						
Fulton County									
Hickman	13	1545CST 1645CST			0	0			Flash Flood
			Thunderstorms repeatedly moved over the same areas that were drenched with rain earlier in the day. Radar estimated 1 to 2 inches fell within an hour. Numerous streets were flooded.						
Hickman County									
Clinton	13	1545CST 1645CST			0	0			Flash Flood
			Thunderstorms repeatedly affected areas that were drenched with heavy rain earlier in the day. Radar estimated 1 to 2 inches of rain fell within an hour. Street flooding was fairly common.						
Marshall County									
Calvert City	13	1549CST			0	0			Thunderstorm Wind (G53)
			A National Weather Service employee measured a wind gust to 63 MPH at the Purchase Parkway exit of I-24.						
Calloway County									
Almo	13	1553CST			0	0	10K		Thunderstorm Wind (G50)
			Trees and power lines were down, mainly across northern parts of the county.						
Trigg County									
Cadiz	13	1623CST			0	0			Thunderstorm Wind (G52)
			Numerous trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Christian County									
Herndon to 2 N Hopkinsville	13	1636CST 1650CST			0	0	200K		Thunderstorm Wind (G65)
	<p>Microbursts associated with a line of thunderstorms caused extensive damage at several locations in Christian County. A damage survey conducted by the National Weather Service determined wind speeds reached 70 to 75 MPH in the primary microburst which occurred in Hopkinsville. This microburst, which was about a mile long and 2/3 mile wide, damaged siding on a convenience store and pulled a phone booth out of the ground. Large trees were uprooted, causing damage to some homes. About 7 miles west of Hopkinsville, a barn was destroyed. A few trees or tree limbs were downed in scattered locations over primarily the west central part of the county.</p>								
Muhlenberg County									
6 SW Greenville to 2 E Greenville	13	1713CST 1725CST	6	120	0	2	120K		Tornado (F2)
	<p>The tornado tracked through wooded farmlands, so damage was relatively light. The most severe damage occurred to a mobile home and a log home located about 500 feet apart. The mobile home practically disintegrated. The entire structure was lifted from its site and deposited 50 to 100 feet away as a pile of debris. The log home was completely unroofed. Considerable damage occurred to the walls and interior of the log home. Two occupants of the log home who had taken shelter in a small room near the exterior of the house were injured. They sustained very minor cuts and bruises due to falling debris. Several other homes in the area received minor damage. Vehicles were thrown into each other. Numerous trees were down. The maximum winds in this tornado were close to F-3 intensity, probably near 150 MPH.</p>								
Todd County									
Kirkmansville	13	1715CST			0	0			Thunderstorm Wind (G52)
	<p>Trees were blown down.</p>								
Ballard County									
Wickliffe to Bandana	13	2010CST			0	0			Thunderstorm Wind (G52)
	<p>Trees were down at Barlow, Wickliffe, and Bandana.</p>								
Graves County									
Mayfield	13	2130CST			0	0			Thunderstorm Wind (G50)
	<p>Trees were down.</p>								
Christian County									
Oak Grove	16 17	2200CST 0015CST			0	0			Flash Flood
	<p>Radar indicated between 2 and 2.5 inches of rain fell within 3 hours time across southern Christian County between Oak Grove and Hopkinsville. Some road flooding occurred.</p>								
Todd County									
Guthrie	16	2200CST 2300CST			0	0			Flash Flood
	<p>Thunderstorms moved slowly over the same local parts of southern Todd County. Radar estimated up to 2.7 inches of rain fell in three hours between Elkton and Guthrie. Several roads were reported under water at the time of heaviest rain.</p>								
Christian County									
5 SE Hopkinsville	17	1620CST 1622CST	1.3	50	0	0	100K		Tornado (F1)
	<p>The primary damage was to a tobacco barn, which was destroyed. At least three other barns received some roof damage. The damage path was narrow and well-defined. A nearby wheat field showed the appearance of several smaller vortices with a convergent path of damage associated with each one. An eyewitness gave a very detailed description of the tornado, very similar to the one in the Oak Grove area. He said there was more than one vortex and that each one formed and dissipated rather quickly. He estimated that the individual vortices were as little as 6 feet across. This tornado event and the Oak Grove event were both associated with non-severe thunderstorms.</p>								
Christian County									
Oak Grove	17	1823CST 1824CST	0.7	30	0	2	200K		Tornado (F1)
	<p>Several eyewitnesses including at least a half dozen policemen or firemen had nearly identical reports of very narrow rope shaped vortices descending to the ground briefly. There were at least two separate occurrences in the Oak Grove area with another occurring adjacent to the Fort Campbell air field. A 52 MPH wind was reported at the air field, although it was not thought to be in the direct path of the funnel cloud. Some descriptions sounded like the funnel clouds formed in conjunction with towering cumulus clouds instead of cumulonimbus clouds (thunderstorms). Nobody remembered hearing any thunder although a minority reported some rain. A television station in Hopkinsville obtained videotape of the Oak Grove tornado. The primary damage was in a mobile home park, where a mobile home was overturned and destroyed. Two occupants of the mobile home were slightly injured, but did not require treatment at any hospital. Other mobile homes in the park were slightly damaged. An estimated 130,000 dollars damage occurred at the Fort Campbell Army Post due to a brief funnel touchdown. Most of the damage at the base occurred in the shop area of the Directorate of Logistics building, where it tore off the roof, exposing expensive test equipment. The upper part of a wall in an adjacent building was damaged.</p>								

Storm Data and Unusual Weather Phenomena

June 1997

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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KENTUCKY, Southwest

Calloway County

Almo	21	1258CST			0	0			Thunderstorm Wind (G50)
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Crews were called out to remove downed trees near New Concord and Almo.

Livingston County

1 E Joy	21	1430CST			0	0	5K		Thunderstorm Wind (G52)
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Several trees and a power line were down.

Lyon County

3 W Kuttawa	28	0500CST 0800CST			0	0	100K		Flash Flood
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Thunderstorms moved repeatedly over the same parts of western Lyon County. Radar estimated about 3 inches of rain fell in a few hours. Some homes were flooded, and a road was partially washed out. A trailer park was evacuated.

LOUISIANA, Northeast

NONE REPORTED.

LOUISIANA, Northwest

Caddo Parish

Shreveport	09	1735CST			0	0			Urban/Sml Stream Fld
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Localized street flooding occurred in the Southfield subdivision. Youree Drive was inundated with a foot of water. Other streets suffered minor flooding throughout the city.

Natchitoches Parish

Natchitoches	09	1915CST			0	0			Lightning
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Lightning struck a substation in town knocking out power to many portions of the city.

La Salle Parish

2 E Jena	12	1645CST			0	0			Thunderstorm Wind (G60)
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Several trees and power lines were toppled by the high winds.

Caddo Parish

Vivian	13	1856CST			0	1	2M		Thunderstorm Wind (G90)
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Thunderstorms moved across extreme northwest Caddo Parish downing numerous trees and powerlines. The entire town of Vivian was left without power and Highway 1 from Vivian to Rodessa was closed due to tree blockage. One man was injured when a tree fell across a house pinning a man to his bed until fire fighters could remove the tree. So much damage was reported that extra power crews from Dallas, Texas and Little Rock, Arkansas were called in to help with repair work. There were two motor vehicle accidents, one of which involved a driver trapped in a vehicle with a tree on top of it. The driver was not injured.

Bossier Parish

Plain Dealing	13	1920CST			0	0			Thunderstorm Wind (G65)
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Trees uprooted along Hwy 3.

Caddo Parish

3 W Blanchard	13	1944CST			0	0			Hail (0.75)
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Caddo Parish

Keithville	13	2007CST			0	0			Hail (0.75)
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Bienville Parish

Gibbsland	13	2020CST			0	0			Thunderstorm Wind (G60)
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Trees and power lines were blown over.

Bienville Parish

Castor	13	2022CST			0	0			Thunderstorm Wind (G60)
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Bienville Parish

Bryceland	13	2025CST			0	0			Thunderstorm Wind (G60)
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Numerous trees and power lines were blown over.

Bossier Parish

Bossier City	13	2030CST			0	0			Thunderstorm Wind (G60)
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A few trees were toppled from the high winds.

De Soto Parish

1 W Mansfield	13	2030CST			0	0	2K		Thunderstorm Wind (G65)
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Front porch to a house was completely blown off.

De Soto Parish

Stonewall	13	2030CST			0	0			Thunderstorm Wind (G60)
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Trees and power lines were toppled in town.

Jackson Parish

Hodge	13	2050CST			0	0			Thunderstorm Wind (G65)
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Trees and power lines were toppled.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
LOUISIANA, Northwest									
Jackson Parish 2 SE Jonesboro	13	2055CST			0	0			Thunderstorm Wind (G65)
									Trees and power lines were blown down.
Winn Parish Dodson	13	2058CST			0	0			Thunderstorm Wind (G60)
									Trees and power lines were blown down temporarily blocking Hwy 167.
Winn Parish Winnfield	13	2105CST			0	0			Thunderstorm Wind (G60)
									Trees and power lines were blown over.
Caddo Parish Shreveport	13	2200CST			0	0	7K		Lightning
									Lightning struck a tree which in-turn toppled onto a house in the 600 block of Stephenson Street in Shreveport.
Caddo Parish Shreveport	17	0300CST			0	0			Thunderstorm Wind (G65)
									Numerous trees and power lines were toppled causing power outages in south Shreveport.
Caddo Parish Mooringsport	17	0305CST			0	0			Thunderstorm Wind (G60)
Red River Parish 10 N Coushatta	17	0420CST			0	0			Thunderstorm Wind (G65)
									Numerous trees down across Hwy 1.
Red River Parish 2 E Coushatta	17	0425CST			0	0			Thunderstorm Wind (G60)
									Trees down on Hwy 155.
Red River Parish 5 N Coushatta	17	0430CST			0	0			Thunderstorm Wind (G70)
									Several trees were uprooted along Hwy 71 and Hwy 783.
Bienville Parish 7 S Bienville	17	0450CST			0	0			Thunderstorm Wind (G60)
									Numerous trees down along Hwy 9.
Natchitoches Parish 20 N Natchitoches	17	0455CST			0	0			Thunderstorm Wind (G65)
									Several large trees down.
Winn Parish 10 NW Winnfield	17	0500CST			0	0			Thunderstorm Wind (G60)
									Several large trees down across Hwy 126.
Winn Parish 8 N Winnfield	17	0515CST			0	0			Thunderstorm Wind (G60)
									Trees and power lines down along Hwy 505 and Hwy 167.
Ouachita Parish Fairbanks	17	0520CST			0	0	15K		Thunderstorm Wind (G75)
									Numerous trees down in the community. One tree fell on top a church causing moderate damage.
Ouachita Parish Monroe	17	0530CST			0	0			Thunderstorm Wind (G60)
									A few trees were toppled causing minor electrical outages.
Union Parish Spearsville	17	0437CST			0	0	78K		Thunderstorm Wind (G70)
									A commercial chicken house was heavily damaged and two vehicles were crushed by fallen trees.
De Soto Parish Keatchie	22	1430CST			0	0	10K		Thunderstorm Wind (G70)
									A roof was blown off a barn along Hwy 169.
Caddo Parish Ida	22	1615CST			0	0			Thunderstorm Wind (G60)
									Numerous trees and power lines were toppled along Hwy 71.
Lincoln Parish 4 E Ruston	26	1535CST			0	0			Thunderstorm Wind (G60)
Ouachita Parish Monroe	26	1610CST			0	0			Hail (0.75)
Sabine Parish 7 W Negreet	27	1700CST			0	0	0.50K		Lightning
									A pickup truck truck was struck by lightning on the Pendleton Bridge while the occupants were across the road fishing. The owner

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
LOUISIANA, Northwest									
owner of the truck said fire flew from the truck and the bridge when the lightning struck.									
Caddo Parish Shreveport	27	2010CST			0	0			Thunderstorm Wind (G60)
Numerous trees and power lines were toppled producing widespread power outages.									
Caddo Parish Shreveport	27	2015CST			0	0			Hail (1.75)
Bossier Parish 3 S Plain Dealing	28	1339CST			0	0			Thunderstorm Wind (G70)
Numerous trees and power lines were toppled along Old Plain Dealing Road.									
Webster Parish 3 E Springhill	28	1500CST			0	0			Thunderstorm Wind (G70)
Numerous trees and power lines were toppled east of the city leading to widespread power outages in the city.									
LOUISIANA, Southeast									
Iberville Parish Plaquemine	06	1615CST			0	0			Funnel Cloud
An employee at a chemical plant reported a funnel cloud.									
Ascension Parish Gonzales	08	0800CST 1000CST			0	0			Urban/Sml Stream Fld
Five inches of rain in an hour caused flooding of several houses.									
Iberville Parish Plaquemine to White Castle	17	0900CST 1800CST			0	0	150K		Flash Flood
The Iberville Parish Office of Emergency Preparedness reported several roadways in the parish were flooded, including Louisiana Highway 1, due to heavy rainfall of up to 7 inches in a few hours time. In addition, damage survey by the Red Cross indicated approximately 50 houses in the parish were flooded by several inches of water. Areas suffering flooding included the communities of Plaquemine, White Castle, Bayou Goula, and St. Gabriel.									
East Baton Rouge Parish Baton Rouge	17	0900CST 1500CST			0	0	30K		Flash Flood
The Parish Office of Emergency Preparedness reported numerous streets and highways were flooded and cars submerged after a 4 to 5 inch rain between 7:30 a.m. and noon.									
Iberville Parish Plaquemine	17	1030CST			0	0	80K		Lightning
Lightning struck a radio tower and knocked out the 911 emergency telephone system causing extensive damage.									
Ascension Parish Gonzales	17	1100CST 1800CST			0	0	20K		Flash Flood
Ascension Parish Prairieville	17	1100CST 1800CST			0	0	20K		Flash Flood
Between 7 and 9 inches of rain fell in 24 hours flooding several houses, covering many streets with a foot of water and closing 44 roads around the parish.									
Lafourche Parish Thibodaux	18	0320CST			0	0	0.20K		Thunderstorm Wind
Thunderstorm winds downed 2 trees.									
Lafourche Parish Thibodaux	18	0500CST 0900CST			0	0	40K		Flash Flood
Heavy rain caused extensive street flooding, submerging 2 automobiles and flooding of 6 houses with 5 inches of water.									
Tangipahoa Parish Hammond	28	1300CST			0	0	2K		Lightning
Lightning struck a fire station damaging the radio system.									
St. Tammany Parish 5 S Slidell	29	1013CST			0	0			Funnel Cloud
A funnel cloud was reported by the public at the Rigolets.									
Tangipahoa Parish Hammond	29	1300CST			0	0	2K		Lightning
Lightning struck damaging the police station radio system and a hospital paging system.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>LOUISIANA, Southeast</u>									
Lafourche Parish									
Thibodaux	30	1300CST 1500CST			0	0	10K		Urban/Sml Stream Fld
One and a half inch of rain fell in a short period of time flooding streets and collapsing a car dealership's metal roof and damaging 4 automobiles.									
<u>LOUISIANA, Southwest</u>									
Allen Parish									
Oakdale	07	0000CST 0130CST			0	0			Urban/Sml Stream Fld
Between three and five inches of rain fell across northern Allen Parish, resulting in several creeks flooding roads for a short time.									
St. Mary Parish									
Franklin	10	2110CST 2200CST			0	0	10K		Urban/Sml Stream Fld
Between three to five inches of rain fell in less than two hours between Charenton, Baldwin, and Franklin. Several homes had water reach their doors, but very little entered any homes.									
St. Mary Parish									
Franklin	17	0300CST 1000CST			0	0	100K		Flood
Thunderstorms dumped between eight and twelve inches of rain across Franklin in three hours, resulting in severe damage to ten homes and one hotel/restaurant. The Yokley Canal was out of its banks near LA Highway 182. Water rose to two to three feet in some homes. Other cities hit with flood problems included Centerville, Morgan City, Bayou Vista, and Berwick.									
St. Martin Parish									
St Martinville	17	0500CST			0	0	5K		Urban/Sml Stream Fld
Between four and six inches of rain fell over a two hour period, resulting in street flooding across St. Martinville.									
St. Mary Parish									
Morgan City	17	0530CST			0	0	10K		Thunderstorm Wind
Severe thunderstorms had wind gusts of 60 mph, resulting in minor damage to a store front on Morgan City. Several trees and power lines were also reported blown down in the city.									
Vermilion Parish									
Delcambre	17	1000CST			0	0	5K		Urban/Sml Stream Fld
Between four and six inches of rain fell across northern Vermilion Parish. Minor street flooding occurred in Delcambre and Erath									
Iberia Parish									
Loreauville	17	1000CST			0	0	15K		Urban/Sml Stream Fld
Around six inches of rain fell in less than two hours, resulting in flooding across northern sections of Loreauville. Several homes had three inches of water in them.									
Iberia Parish									
New Iberia	25	0900CST			0	1	5K		Lightning
Lightning struck near a man working with a piece of electrical equipment at the Port of Iberia. The lightning bolt surged through the machine the man was working on, knocking him unconscious. He was taken to a nearby hospital where he was treated and released.									
<u>MAINE</u>									
Penobscot County									
Bangor	12	0920EST 0955EST			0	0			Hail (1.00)
A slow moving severe thunderstorm dropped 1 inch hail and caused minor street flooding in the Bangor area.									
Oxford County									
Brownfield	12	1407EST			0	0			Hail (0.75)
Cumberland County									
Bridgton	12	1415EST			0	0			Hail (0.75)
Cumberland County									
Gorham	12	1530EST			0	0			Hail (0.75)
Severe thunderstorms moving through Oxford and Cumberland Counties dropped 3/4 inch hail in Brownfield, Bridgton, and Gorham. Lightning from the storm caused about 8000 customers to lose electrical service.									
Franklin County									
Wilton	13	1730EST 1740EST			0	0			Thunderstorm Wind (G56)
Winds from a severe thunderstorm gusted to 64 mph in the town of Wilton. Half inch hail was also reported covering the ground.									
Kennebec County									
Rome	21	1600EST	0.2	50	0	0			Tornado (F1)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MAINE</u>									
Kennebec County									
Waterville Arpt	21	1615EST			0	0			Thunderstorm Wind (G62)
Waldo County									
Liberty	21	1638EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm with gusty winds moved through Kennebec County into Waldo County causing damage to numerous trees along its path. Winds gusted to 71 mph at the Waterville Airport. A small tornado touched down briefly near the town of Rome and snapped and uprooted numerous trees.
Oxford County									
Andover	21	1840EST			0	1			Lightning
									A camper was struck and injured by lightning while closing the lid on the back of his truck. The man was unconscious for several minutes and then experienced numbness, tingling, and weakness in his arm and leg. He was taken to an area hospital for evaluation.
Franklin County									
Jay	22	1200EST			0	0			Flood
	23	1300EST							
Franklin County									
New Sharon	22	1200EST			0	0			Flood
	23	1300EST							A line of heavy thunderstorms moved through southern Franklin County dumping 1 to 3 inches of rain in one hour. Many roads were washed out in Jay and New Sharon. There was one unofficial report of 4.5 inches of rain in two hours.
Kennebec County									
Rome	22	1220EST			0	0			Thunderstorm Wind (G50)
Kennebec County									
Belgrade Lakes	22	1224EST			0	0			Thunderstorm Wind (G55)
Kennebec County									
Oakland	22	1231EST			0	0			Thunderstorm Wind (G60)
Kennebec County									
North Sidney	22	1236EST			0	0			Thunderstorm Wind (G60)
Kennebec County									
Sidney	22	1238EST			0	0			Thunderstorm Wind (G60)
Kennebec County									
Winslow	22	1239EST			0	0			Thunderstorm Wind (G55)
Kennebec County									
Vassalboro	22	1245EST			0	0			Thunderstorm Wind (G55)
Kennebec County									
China	22	1250EST			0	0			Thunderstorm Wind (G55)
Waldo County									
Unity	22	1258EST			0	0			Thunderstorm Wind (G50)
Lincoln County									
Newcastle	22	1319EST			0	0			Thunderstorm Wind (G50)
Lincoln County									
Boothbay	22	1352EST			0	0			Thunderstorm Wind (G50)
Hancock County									
Ellsworth	22	1354EST			0	0			Thunderstorm Wind (G50)
									Severe thunderstorms developed over Kennebec County, then moved into Lincoln, Waldo, and Hancock Counties. Numerous large trees were knocked down as these thunderstorms moved southward and eastward. Particularly hard hit was the Oakland/North Sidney area where numerous trees were felled along the shores of Messalonski Lake. These storms knocked out electrical service to about 15,000 customers.
Kennebec County									
Litchfield	25	1905EST			0	0			Thunderstorm Wind (G50)
									A thunderstorm moving through Kennebec County knocked over limbs onto power lines in the Litchfield area.
<u>MARYLAND, Central</u>									
Prince George'S County									
Clinton	13	1230EST			0	0	20K		Lightning
									A house fire was ignited by a lightning strike in Clinton, causing moderate property damage.
Allegany County									
2 E Cumberland	18	1510EST			0	0	1K		Hail (1.75)
									Golfball-sized hail fell in a pulse-severe thunderstorm near Cumberland.

Storm Data and Unusual Weather Phenomena

June 1997

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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MARYLAND, Central

Washington County

4 E Hancock to 5 NE Hancock	18	1629EST 1634EST	2	15	0	0	10K		Tornado (F0)
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A small tornado touched down near the Chesapeake and Ohio (C&O) Canal 4 miles east of Hancock, knocking down several trees and limbs before crossing interstate 70. After crossing the highway, the twister snapped tree tops and lifted several cages and parts of a fence at a local farm. Witnesses noted the trees swirling "like a blender" as the twister moved through.

Montgomery County

Potomac to Bethesda	18	1717EST 1732EST			1	0	300K		Thunderstorm Wind (G55)
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M57VE

Montgomery County

Bethesda to Silver Spg	18	1733EST 1745EST			0	0	500K		Thunderstorm Wind (G55)
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A wet microburst, associated with a heavy-precipitation supercell moving out of northern Virginia, produced a 13-mile swath of scattered tree and power line damage across extreme southern Montgomery Co. The microburst, which had a width of about 1/3 mile, snapped hundreds of mainly soft wood trees and large limbs. However, some of the trees fell onto homes and vehicles, causing substantial damage. In Potomac, a vehicle was crushed by a falling oak tree. The driver, waiting out the storm along the side of a road, was killed instantly. Numerous large limbs and dozens of small trees were snapped and/or uprooted in Potomac.

Farther east, at least 50 trees and limbs were snapped, most of them evergreens, at the Bethesda Country Club. Scattered light damage continued through North Chevy Chase, then damage increased again in the Woodside section of Silver Spring. Unfortunately, at least four homes sustained substantial damage from fallen trees in Silver Spring. The heaviest damage occurred at the intersection of Highland and Second Avenue, where three oak trees and limbs combined to cause major damage to one home whose second story was smashed to the ground. The next-door neighbor's home had a snapped oak crash into its garage. Damage to the other two homes was not quite as severe. At the intersection of Spring Street and Second Ave., an uprooted locust tree smashed into the side wall, chimney, and roof. Another home, located at the intersection of Georgia Ave. and Noyes Drive, suffered minor roof damage from a fallen tree. An adjacent shed was crushed by a snapped large silver maple tree.

The damage lightened up as the storm moved into the Takoma Park neighborhoods just east of Silver Spring. In all, the combination of wind and lightning cut power to 37,500 customers in the Potomac Electric Power Co service area.

Montgomery County

White Oak	18	1745EST 1750EST			0	0			Hail (1.00)
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An off-duty NWS employee reported nickel to quarter-sized hail at his residence in the White Oak section of Silver Spring.

Calvert County

Lusby	18	1935EST			0	0	20K		Thunderstorm Wind
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Thunderstorm winds knocked a large limb onto a house in Lusby. Several broken branches were also reported in the vicinity as well.

Anne Arundel County

Riviera Beach	22	1500EST			0	0	3K		Lightning
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Anne Arundel County

Riviera Beach	22	1500EST			0	0	8K		Thunderstorm Wind
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An isolated severe thunderstorm knocked down several trees in Riviera Beach, causing minor peripheral damage to property. Lightning strikes apparently split two trees, with one limb falling onto a car. Wind gusts snapped several large limbs, including one which caused minor damage to a shed and a deck, and another which fell onto a car. No injuries were reported with the storm.

MDZ011

Southern Baltimore

25	1100EST			0	0				Excessive Heat
26	1500EST								

The first bona-fide summer heat wave in nearly two years arrived in the city after a three month period of below normal temperatures. The maximum temperature on the 25th at Baltimore/Washington International Airport (BWI) reached 99 degrees, shattering the previous record by 1 degree. At Baltimore's Custom House, the reading soared to 104. Readings rose to 96 at BWI on the 26th before a line of strong thunderstorms cooled the atmosphere. Heat indices in town surpassed 105 for a brief period on the 25th; however, the values likely remained at or above 90 degrees for much of the overnight hours in the more densely populated sections of the city, including the downtown sector.

The heat wave was potentially more dangerous than most since it occurred early in the season and was preceded by a three month period of below normal temperatures and several cloudy periods.

No serious injuries or fatalities occurred due to the heat. However, several persons were admitted to area hospitals for brief stays

Storm Data and Unusual Weather Phenomena

June 1997

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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MARYLAND, Central

due to minor heat exhaustion.

Anne Arundel County

**Crownsville to
Annapolis**

26	1410EST 1415EST				0	0	80K		Thunderstorm Wind (G54)
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An apparent microburst snapped or uprooted over 30 trees, including large poplars that were between 50 and 100 feet tall and two feet wide. Wind measuring equipment recorded a gust of 63 mph. The trees were blown from east to west, indicated that the core of the microburst moved through the location. The back-side microburst (easterly wind gusts) blew down the trees. One tree crashed into a home near Mathiers Point, knocking out the chimney and tearing a hole in the roof. This storm was an individual cell well ahead of the main squall line which produced additional rainfall later that afternoon.

Other damage was noted near the Chesapeake Bay Bridge. Along Whitehall Road and federal highway 50, two fast food establishments had sign damage. At Revell Downs, a subdivision near Sandy Point State Park, at least a dozen trees and large limbs were downed. Baltimore Gas and Electric reported 3400 customers were without power after the main line of storms passed through at around 6:30 PM.

**Montgomery County
Countywide**

26	1440EST 1455EST				0	0	30K		Lightning
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**Montgomery County
Countywide**

26	1440EST 1455EST				0	0	100K		Thunderstorm Wind
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**Prince George'S
County
Central Portion**

26	1450EST 1515EST				0	0	325K		Lightning
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**Prince George'S
County
Central Portion**

26	1510EST 1515EST				0	0	20K		Thunderstorm Wind
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**Prince George'S
County
Croom to
Upper Marlboro**

26	1530EST 1615EST				0	0	10K		Flash Flood
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**Charles County
Waldorf**

26	1547EST 1602EST				0	0	5K		Thunderstorm Wind
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**St. Mary'S County
Leonardtown**

26	1557EST				0	0	5K		Thunderstorm Wind
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**Calvert County
Chesapeake Beach**

26	1600EST				0	0	10K		Thunderstorm Wind
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A pre-frontal squall line, progressing into a very unstable atmosphere, generated widespread but scattered tree and wire damage across central and lower southern Maryland during the mid to late afternoon of the 26th. Tree damage was most pronounced in Montgomery Co, where over 3 dozen large limbs and trees were knocked down between Poolesville and Rockville. In Gaithersburg, the 200-year-old famed Forest Oak's demise was aided by the winds, although it had been gradually rotting. In Bethesda, winds along the gust front (estimated between 50 and 60 mph at their peak) blew a large oak onto a home, causing substantial roof damage. In one Germantown neighborhood, seven trees were reported down, including one onto a vehicle. In the northeast portion of the county, a man was trapped in his automobile by downed power wires. Several roads were blocked during the height of the storm; the combination of lightning, wind, and excessive load on the power grid from air conditioning left approximately 41,000 customers without electricity at the height of the storm.

The lightning may have contributed to 4 knocked out substations in the county; lightning also struck and felled a tree in Gaithersburg.

Similar damage occurred in lower southern Maryland, from Prince George's Co through Calvert and St. Mary's Cos. Lightning-related fires caused substantial damage to at least four homes in central Prince George's, including one with an estimated \$250,000 in damage. Four fire fighters were injured battling the blaze. Other homes were struck by lightning in Clinton, Ardmore, and Forestville. Large limbs and wires were blown down in Beltsville, with one limb onto an automobile. Other tree damage was noted in Upper Marlboro. Farther south, scattered tree and wire damage was seen in Chesapeake Beach, and estimated winds of 60 to 70 mph knocked down large limbs/trees in Waldorf. the storms passed across the Chesapeake Bay shortly after 5 PM.

Storm Data and Unusual Weather Phenomena

June 1997

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

Downpours associated with one of the more intense cells may have dumped as much as 2 inches of rain in an hour in central Prince George's Co. Two creeks spilled over their banks in Croom and Upper Marlboro. In both cases, low-lying bridges were flooded by rapidly rising water. Along Croom Road, an automobile unsuccessfully attempted to navigate through the flooding Charles Branch. The vehicle stalled, and the motorist was rescued by volunteer fire and state highway personnel when the water level reached the hood of his car. The flood waters receded on all creeks within an hour after the storm's passage.

MARYLAND, Northeast

Caroline County

Greensboro	18	2030EST			0	0	0	0	Thunderstorm Wind
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A severe thunderstorm tore down trees and snapped poles in half across the northern half of Caroline County.

MDZ008-012-015-019>020

Cecil - Kent - Queen Annes - Talbot - Caroline

21	0900EST			0	0			Excessive Heat
26	1800EST							

The first heat wave of 1997 brought the warmest weather in two years to the Delmarva Peninsula. The highest temperatures reached near or around the 100 degree mark in many places on the 25th and 26th. A strong cold front brought an end to the excessive humidity on the 26th, although some places reached around 90 degrees on the 27th. The heat wave started for a few spots on the peninsula on the 20th. All locations reached the 90s on the 21st. A weak cold front briefly brought drier air into the region on the 23rd. But that was short-lived as both heat and humidity levels became oppressive again on the 24th. The highest temperatures included 99 degrees at the Baltimore-Washington International Airport and 98 degrees in Salisbury. Both high temperatures occurred on the 25th.

Caroline County

Hillsboro to Burrsville	26	1600EST 1615EST			0	0	0	0	Thunderstorm Wind
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A severe thunderstorm uprooted numerous trees and caused power outages throughout Caroline County.

Talbot County

Easton	26	1630EST			0	5	1M	0	Lightning
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A thunderstorm with frequent lightning started a fire that destroyed eight condominiums and damaged eight others in Easton. Five persons were injured, including two firefighters, and as many as 30 persons were left homeless. Damage was estimated at one million dollars. The lightning struck the roof of the wood-frame complex about 530 p.m. EDT and quickly spread. A fire wall and the efforts of the 50 firefighters on the scene prevented the fire from spreading to the adjoining eight units. The fire was brought under control at about 730 p.m. EDT.

MDZ008-012-015-019>020

Cecil - Kent - Queen Annes - Talbot - Caroline

30	2359EST			0	0			Unseasonably Dry
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June 1997 was drier than normal throughout the Maryland Eastern shore. On a county weighted average, deficits averaged between 1 and 2 inches. Only Talbot County was within an inch of normal. Coupled with the hot weather from June 21st onward, the lack of rain started to stress growing areas.

MARYLAND, South

Dorchester County

Cambridge	26	1635EST			0	0	2K		Thunderstorm Wind
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Several trees down.

Somerset County

Countywide	26	1645EST 1700EST			0	0	3K		Thunderstorm Wind
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Trees down throughout the county.

Wicomico County

Countywide	26	1715EST 1800EST			0	0	3K		Thunderstorm Wind
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Trees down throughout the county.

Worcester County

Countywide	26	1730EST 1800EST			0	0	20K		Thunderstorm Wind
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Trees and power lines down throughout the county. Also, roof was blown off of a building in Ocean City.

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

Norfolk County

Westwood	22	1350EST			0	0	100K		Lightning
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Storm Data and Unusual Weather Phenomena

June 1997

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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MASSACHUSETTS, Central and East

Plymouth County									
Hull	22	1420EST			1	0			Thunderstorm Wind (G90)
			Peddocks Island M64BO						
Suffolk County									
Boston	22	1423EST			0	2			Lightning
			Boston Harbor...						
Plymouth County									
Norwell	22	1440EST			0	0			Hail (0.75)
Bristol County									
Raynham	22	1550EST			0	0			Thunderstorm Wind (G50)
Plymouth County									
Duxbury	22	1600EST			0	0			Thunderstorm Wind (G50)
Bristol County									
Attleboro to Norton	22	1605EST			0	0			Thunderstorm Wind (G50)
Bristol County									
Seekonk	22	1610EST			0	1			Lightning
Bristol County									
Fall River	22	1620EST			0	0			Thunderstorm Wind (G55)
Bristol County									
Dartmouth	22	1645EST			0	0			Hail (0.75)
Bristol County									
Fall River	22	1650EST			0	0			Hail (0.75)
Bristol County									
New Bedford	22	1715EST			0	0	2K		Lightning

Severe thunderstorms moved southeastward through the southern portion of the Greater Boston area and parts of Plymouth and Bristol Counties, resulting in one death and three injuries. Off Point Allerton and Peddocks Island, the northernmost points in Plymouth County, a mariner reported a wind gust to 104 mph. In the same area, just south of Peddocks Island, a 64-year-old man was knocked overboard and then drowned after attempting to take down a sail in the high winds. Numerous large trees were reported blown down on Peddocks Island. In Boston Harbor, near Gallops Island, a couple was slightly injured when a lightning struck their boat. Lightning struck a landmark colonial house in Westwood and the resulting fire caused considerable damage. In the Hyde Park section of Boston, a lightning strike ignited a house fire. Several electric companies reported power outages. Four to five thousand Boston Edison Company electric customers lost power in an area including the towns of Norfolk, Sharon, Waltham, Burlington, Brighton, Sudbury, Walpole, Framingham, and Chelsea. Up to 9,600 other electric customers lost power in other surrounding towns served by the Massachusetts Electric Company.

Farther south in Plymouth County, dime size hail was reported at Norwell and numerous trees were reported down in a section of Duxbury. In Bristol County, one tree was reported blown down in Attleboro. Several trees were reported blown down in Raynham and one in Norton. A peak wind gust to 64 mph was measured by a spotter in Fall River and dime size hail fell in both Fall River and Dartmouth. A man was slightly injured by a lightning strike while standing on his porch in Seekonk. Lightning struck a church in New Bedford, causing minor fire damage. Numerous other lightning strikes occurred in the Greater New Bedford area, resulting in power outages affecting up to 12,000 customers at the height of the storm.

MASSACHUSETTS, West

NONE REPORTED.

MICHIGAN, East

MIZ083

Monroe

01	1200EST	0	0	50K	Flood
03	1800EST				

Low pressure tracked slowly across Kentucky during the 1st, 2d and 3rd, spreading rain across southern Michigan. Heavy rains were confined to the far south. Some two day rain totals included 2.63 inches at Adrian, in Lenawee county, and 2.20 inches at Monroe, in Monroe county. Radar indicated that as much as 3 inches fell farther south, along the Michigan-Ohio state-line. The combination of heavy rain and a persistent northeast wind brought lakeshore flooding to the lake Erie shoreline, where 1 1/2 feet of water covered the Morin Point Road. Farther inland, nearly every stream in southern Monroe county was reported to be over its bank, including the Bay, Halfway and Otter creeks. Widespread yard, street and basement flooding was reported throughout the southern part of the county.

MIZ082

Lenawee

03	0800EST	0	0		Flood
05	0300EST				

The River Raisin at Adrian went above its 11 foot flood stage at 8 am EST on the 3rd. The river crested at 11.4 feet at 3 pm EST on the 3rd and fell back below flood stage at 3 am EST on the 5th.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, East</u>									
MIZ082									
Lenawee									
	03	0800EST			0	0			Flood
	04	1530EST							
The River Raisin at Tecumseh went above its 9 foot flood stage at 8 am EST on the 3rd. The river crested at 9.5 feet at 5 pm EST on the 3rd, then fell back below flood stage at 330 pm EST on the 4th.									
Livingston County									
Fowlerville									
	20	1340EST			0	0			Thunderstorm Wind (G55)
Thunderstorm winds downed a 4 foot diameter tree.									
Lenawee County									
8 NW Adrian									
	20	2154EST			0	0			Hail (1.75)
Lenawee County									
Adrian									
	21	0000EST			0	0	15K		Lightning
Lightning struck a house, igniting a fire that destroyed most of the upstairs portion of the house. A dog and kitten were killed in the fire.									
Genesee County									
Clio									
	21	1612EST	0.1	10	0	0			Tornado (F0)
Genesee County									
1 N Swartz Creek									
	21	1645EST			0	0			Thunderstorm Wind (G55)
Genesee County									
Flint									
	21	1700EST 1730EST			0	0			Flash Flood
Lapeer County									
Almont									
	21	1700EST			0	0			Thunderstorm Wind (G55)
Lapeer County									
Clifford									
	21	1700EST 1730EST			0	0			Flash Flood
Sanilac County									
Marlette									
	21	1725EST			0	0			Thunderstorm Wind (G55)
Genesee County									
Otisville									
	21	1745EST			0	8			Lightning
Oakland County									
(Ptk)Pontiac Arpt									
	21	1746EST			0	0			Thunderstorm Wind (G55)
Oakland County									
Novi									
	21	1756EST			0	0	5K		Thunderstorm Wind (G55)
Sanilac County									
3 S Croswell									
	21	1800EST			0	0	0.50K		Thunderstorm Wind (G55)
St. Clair County									
5 E Yale									
	21	1800EST			0	0			Thunderstorm Wind (G55)
Wayne County									
Dearborn									
	21	1835EST			0	0			Thunderstorm Wind (G55)
Macomb County									
Macomb									
	21	1840EST			0	0			Thunderstorm Wind (G55)
Low pressure tracked across central Michigan during the afternoon of the 21st, resulting in an outbreak of severe thunderstorms. AnF0 tornado touched down near Clio in Genesee county, with no damage reported. Most of the damage with these storms was the result of strong winds bringing down trees and powerlines. A roof was blown off of a buisness in Novi, in Oakland county, and windows were blown out of a house in Croswell, in Sanilac county. Localized heavy rains resulted in brief road flooding in Genesee and northern Lapeer counties. In Otisville, lightning struck a building that was housing a children's event. Eight children were taken to the hospital after complaining of numbness and tingling. None of the injuries were serious.									
Shiawassee County									
Laingsburg									
	23	1558EST			0	0			Hail (1.75)
Midland County									
Hope									
	24	2243EST			0	0			Thunderstorm Wind (G54)
<u>MICHIGAN, Extreme Southwest</u>									
NONE REPORTED.									
<u>MICHIGAN, North</u>									
Manistee County									
Wellston									
	20	0545EST			0	0			Thunderstorm Wind (G52)
WIND GUSTS OF 60 MPH DOWNED SEVERAL TREES IN THE WELLSTON AREA.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MICHIGAN, North</u>									
Missaukee County Lake City	24	2115EST			0	0			Thunderstorm Wind (G52) WIND GUSTS OF 60 MPH DOWNED SEVERAL TREES IN LAKE CITY.
Roscommon County 2 S Houghton Lake	24	2125EST			0	0			Thunderstorm Wind (G60) WIND GUSTS OF 70 MPH DOWNED SEVERAL TREES.
Roscommon County Prudenville	24	2145EST			0	0			Thunderstorm Wind (G60)
Roscommon County St Helen	24	2150EST			0	0			Thunderstorm Wind (G52) WIND GUSTS OF 60 MPH DOWNED TREES AND POWERLINES.
Ogemaw County Skidway Lake	24	2219EST			0	0			Thunderstorm Wind (G50) WIND GUSTS OF NEARLY 60 MPH DOWNED TREES AND POWERLINES.
Ogemaw County Lupton	24	2220EST			0	0			Thunderstorm Wind (G50) WIND GUSTS OF NEARLY 60 MPH DOWNED TREES AND POWERLINES.
Iosco County South Branch	24	2245EST			0	0			Thunderstorm Wind (G52) SEVERAL TREES UP TO 17" IN DIAMETER WERE DOWNED OR SNAPPED OFF PARTWAY UP THE TRUNK BY 60 MPH WIND GUSTS.
Alcona County Harrisville	24	2330EST			0	0			Thunderstorm Wind (G52) WIND GUSTS OF 60 MPH UPROOTED A LARGE TREE IN DOWNTOWN HARRISVILLE.
<u>MICHIGAN, Upper</u>									
Ontonagon County Rockland	23	0815EST			0	0			Hail (0.75) Hail of mixed sizes covered the ground.
Menominee County Faithorn	24	1830EST			0	0			Thunderstorm Wind (G60) Top 3/4 of tree, 12 inches in diameter, broke off near Faithorn.
Dickinson County Kingsford	24	1850EST			0	0			Thunderstorm Wind (G60) Tree fell across Maple Street in Kingsford.
Dickinson County 5 N Iron Mtn	24	1900EST			0	0			Thunderstorm Wind (G60) 16 inch diameter tree snapped off.
Iron County Stambaugh	24	1905EST			0	0			Thunderstorm Wind (G60) 10 inch diameter branch fell off at the intersection of Hemlock and Ross.
<u>MICHIGAN, West</u>									
Eaton County 2 Nw Dimondale	12	1357EST			0	0			Funnel Cloud Eaton County emergency management officials reported a funnel cloud near the intersection of Lansing Road (U.S. Highway 27) and Canal Road in Windsor Township at 2:57 PM EDT. Windsor Township paramedics reported the rotating funnel cloud dropped to within several hundred feet of the ground.
Ionia County Lake Odessa	13	1550EST			0	0	2.5K		Thunderstorm Wind Numerous trees downed and pea-sized hail reported from a severe thunderstorm.
Newaygo County Croton	20	0700EST			0	0			Hail (0.88) A trained National Weather Service spotter at Croton Dam reported nickle-sized hail.
Kalamazoo County Oshtemo	20	1230EST			0	1			Lightning A Friday afternoon lightning strike sent Tom Williams, a 15 year-old male, to the hospital and sparked a fire that did minimal damage to his family's home on Stadium Drive in Oshtemo Township. The teen was in his basement playing his video game console when he was shocked during an electrical storm. He was treated and released from Borgess Medical Center later the same day.

Storm Data and Unusual Weather Phenomena

June 1997

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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MICHIGAN, West

Eaton County 1 E Charlotte

20 1305EST 0 0 20K Thunderstorm Wind

A wet microburst just east of Charlotte in Eaton County totally destroyed a new home in Sandstone Estates which was under construction and pushed or moved several vehicles parked in the area. Eaton County police and fire department officials confirmed siting 2 funnel clouds with this storm, but neither funnel touched the ground.

Eaton County Brookfield

20 1320EST 0 0 2.5K Thunderstorm Wind

Thunderstorm winds downed trees at the intersection of Spicerville Highway and Brookfield Road in Brookfield Township.

Ingham County Lansing

20 1335EST 0 0 2.5K Thunderstorm Wind
1343EST

Ingham County Central Dispatch and reported several trees and power lines down in Lansing.

Kent County Sparta

20 1525EST 0 0 250K 100K Tstm Wind/Hail

A severe thunderstorm caused widespread wind damage across the city of Sparta and hail damage to fruit tree crops in the adjacent Peach Ridge area. Officials from the National Weather Service Office in Grand Rapids did a post-storm survey and estimated straight-line winds in the storm reached 70 to 80 mph. Numerous large trees were downed across the small city, many landing on homes, resulting in minor roof damage to several residences. Shingles were blown off many homes and a chimney was blown over on one home. Several local businesses also had minor roof damage from the storm. The damage path was approximately 1300 m long by 800 m wide. The damage extended from the intersection of Pine Street and South State Street on the south side of town to West Division Street on the north, and from Blossom Drive on the west side to Martindale Road on the east.

Ottawa County County-Wide

20 1830EST 0 2 1.4M Flash Flood
21 1200EST

Slow-moving thunderstorms developed over Lake Michigan and moved east across Ottawa County throughout the day of Friday, June 20th. With the soil already saturated from 2 to 4 inches of rainfall from this training effect of thunderstorm activity during the day, a line of severe thunderstorms developed early Friday evening and moved across the county, depositing another 1-5 inches of rainfall within a 2 hour period, causing widespread flash flooding. Southern Ottawa County bore the brunt of the flash flooding,

including the cities of Holland and Zeeland, Zeeland Township, Jamestown Township, Holland Township, Wright Township, and Chester Township. Notable rainfall totals for the 24 hour period ending at midnight included 5.47 inches in the city of Holland, 9.16 inches at Holland State Park, and an unofficial report of 13 inches of rainfall in Zeeland.

Extensive damage was done to roads, bridges, and homes. Approximately 44 roads were flooded including parts of U.S. Highway 31. Of this number, 40 roads were deemed impassable due to washouts. During the peak of the flash flooding, many motorists were stranded for several hours until emergency personnel could free them. Shortly after midnight, a U.S. Coast Guard helicopter rescued four occupants off the top of their overturned car stranded in deep water at 80th Avenue and Adams Street in Zeeland Township. The Coast Guard rescued a total of 12 people from stranded vehicles Friday evening. In addition to the road washouts, 6 bridges were damaged. Zeeland officials reported 15-20 percent of the city's streets were flooded during the peak of the storm. In addition, 2 sewage lift stations were disabled, causing sewage backups at many residences.

Ottawa County officials reported approximately 150 homes and 11 businesses damaged. Most of the damage was from flooded basements. No injuries were reported Friday evening. However, 2 boys, aged 12 and 11, received minor injuries Saturday afternoon when their raft overturned in the swollen north branch of the Black River in Holland.

On Monday, June 23rd, Ottawa County declared a local State of Emergency. On Friday, June 27th, Governor John Engler issued a state disaster declaration for Ottawa County as a result of the widespread flooding damage.

Kent County Kentwood

20 1840EST 0 0 Thunderstorm Wind (G53)

A trained National Weather Service spotter reported a wind gust to 61 mph (53 knots) with a severe thunderstorm. Wind damage consisted of several trees and power lines downed across Kentwood. Damage estimates were not available.

Ottawa County Holland

20 1840EST 0 0 25K Thunderstorm Wind
1910EST

Severe thunderstorm winds downed power lines and transformers across the city of Holland. The highest measured wind gust with this line of storms was 42 mph, at 1 mile east of Holland State Park at 8:10 PM EDT. Marble-sized hail was also reported in Holland at 7:40 PM EDT.

Allegan County County-Wide

20 1845EST 0 4 2M 5M Flash Flood
21 1200EST

Allegan County, which borders Ottawa County to the south, was impacted by the same slow-moving thunderstorms which trained across the area throughout the day of Friday, June 20th. The line of severe thunderstorms which moved across Allegan County Friday evening resulted in widespread flash flooding, with the worst of the flooding concentrated across the northern half of the county. The most significant damage occurred in the following Allegan County townships: Salem, Overisel, Hopkins, Wayland, Saugatuck, and Dorr. Notable rainfall totals for the 24 hours ending at midnight included 4.63 inches at Douglas, 5.40

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	Standard			Killed	Injured	Property	Crops	

MICHIGAN, West

inches at Allegan, 6.15 inches at Hamilton, and 7.20 inches at Wayland.

Allegan County officials reported an extensive list of damage done to roads, drainage channels, homes, and businesses. Four people were injured, including a woman whose vehicle went nose-first into an 8-foot deep pit caused by a road washout. Extensive agricultural damage occurred in low-lying areas near flooded rivers and streams.

Approximately 48 roads had near total or severe washouts (43 of which were closed for several days following the flooding). In addition, 126 roads had partial washouts. All totaled, 9 homes were destroyed, including 2 vacation cottages at Glenn Shores, 44 homes received major damage, and another 216 homes reported minor damage. Rain and draining groundwater caused a bluff along Lake Michigan at Glenn Shores, near Glenn, to collapse. The collapsing dune took several trees and 2 vacation cottages with it, 60 feet down onto the immediate lake shoreline. Eleven homes around Swan Lake in Cheshire Township were surrounded by water when the lake flooded. One business was destroyed, 7 reported major damage, and 30 received minor damage from flash flooding. The roof of the Regent Theater in the town of Allegan collapsed under the weight of rainwater. The 600-seat theater received major damage, but was not a total loss. The Otsego Lumber Company building also reported a roof collapse.

Allegan County officials declared a local State of Emergency at 2:11 AM Saturday, June 21st, when they determined that local emergency recovery efforts were unable to handle the magnitude of the flooding situation. On Friday, June 27th, Governor John Engler issued a state disaster declaration for Allegan County.

Allegan County

Allegan

20	1903EST			0	0	25K	Thunderstorm Wind
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A line of severe thunderstorms downed trees and power lines on the west side of the city of Allegan.

Barry County

Hastings

20	1907EST			0	0		Hail (1.00)
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The Barry County Sheriff's Department reported 1 inch diameter hail in the city of Hastings.

Barry County

Hastings

20	1907EST			0	0	25K	Thunderstorm Wind
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Barry County Central Dispatch reported trees and power lines downed across the city of Hastings as a gust front associated with a line of severe thunderstorms moved through.

Allegan County

Dorr

20	1910EST			0	0	10K	Thunderstorm Wind
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A trained National Weather Service spotter reported trees downed in the Dorr area of Allegan County.

Barry County

Gun Lake

20	1915EST			0	0	25K	Thunderstorm Wind
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A line of severe thunderstorms which moved across Barry County downed trees and power lines in the Gun Lake area. One Gun Lake home sustained minor damage. A Rutland Township man went out in the storm and became entangled in a downed power line in the 3800 block of Gun Lake Road, but escaped without injury.

Barry County

Middleville

20	1915EST			0	0	50K	Thunderstorm Wind
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Barry County Central Dispatch reported several large trees and power lines downed across the Middleville and Yankee Springs area of northwest Barry County. Many trees fell across roads, creating hazardous driving conditions for motorists. One Middleville home, at 3240 N. Yankee Springs Road (Highway M-37), sustained damage from 2 trees downed in the front yard. The downed trees damaged the resident's garage, front picture window, and roof.

Allegan County

Hopkinsburg

20	1932EST			0	0	25K	Thunderstorm Wind
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A trained National Weather Service spotter reported numerous trees, utility poles, and power lines downed across the Hopkinsburg area.

Allegan County

Wayland

20	2020EST			0	0	25K	Thunderstorm Wind
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The Wayland Police Department reported numerous trees and power lines downed across the area. Some people were trapped in vehicles under felled power lines.

MIZ064

Allegan

20	2030EST			0	0	500K	Flood
23	1200EST						

During the height of the heavy rain event Friday evening, June 20th, water over-topped the City of Allegan's Imperial Carving Dam. Allegan city officials, concerned that the dam might fail, were forced to open 2 main flood gates to drain the rising water into Lake Allegan and down the Kalamazoo River. The dam did not fail, but as a result of the added flow into the Kalamazoo River, flooding resulted downstream. Most of the flooding affected already flooded rural agricultural areas over the weekend, but additional flood damage occurred downstream in Saugatuck. The river rose steadily over the weekend in the Lake Michigan resort village and flooding began late Sunday afternoon, June 22nd. Businesses along the river's edge reported flood damage on Monday, June 23rd. Approximately 11 businesses suffered damages, from the south end of Lake Street to the north end of Water Street, which was closed to traffic because of the flooding. The river crested late Monday afternoon, and flood waters receded on Tuesday morning, June 24th.

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	Date			Killed	Injured	Property	Crops	
MICHIGAN, West								
Kalamazoo County								
Kalamazoo	20	2045EST		0	0	15K		Thunderstorm Wind
National Weather Service spotters reported trees and power lines downed in portions of the city of Kalamazoo. The peak wind gust reported by a trained spotter was 47 mph in Galesburg.								
Van Buren County								
County-Wide	20	2200EST		0	0	125K		Flash Flood
	21	0500EST						
Van Buren County officials reported damage from flash flooding late Friday night and early Saturday morning, June 20th and 21st, respectively. The flooding caused 8 road washouts and 35 additional roads were impassable for a time due to water flowing across them. A 15-foot section of the Kal-Haven Trail (a bike and nature trail) was washed out, leaving a gully 8-feet deep. Baer Park in downtown South Haven was also flooded. Unofficially, 5 to 7 inches of rain fell in the 5-hour time period ending 4:00 AM EDT in Lawrence.								
During Friday, June 20th, very warm, moist and unstable air was in place across much of Michigan's Lower Peninsula, ahead of a strong, slow-moving cold front across the western Great Lakes region. Atmospheric conditions were ripe for the development of strong to severe thunderstorms containing wind gusts to 70 mph and very heavy rain. Numerous thunderstorms reached severe criteria due to damaging wind gusts. However, the most significant damage was caused by flash flooding across Allegan and Ottawa Counties, which was caused by the training effect of slow-moving thunderstorms during the day, followed by a line of severe thunderstorms which moved through during the early evening hours. Thunderstorms during the day saturated the soil across the counties, then heavy rainfall of 1 to 5 inches in a 2 hour period from a line of severe thunderstorms during the evening created extensive runoff, resulting in extensive flash flood damage.								
Cass County								
Marcellus	21	0200EST		0	0	12.5K		Thunderstorm Wind
A severe thunderstorm downed a tree and several large limbs in the village of Marcellus. The downed tree landed on a vehicle parked at the corner of S. Centre and Dibble Street. Limbs and power lines were downed on N. Centre and North Streets and at the corner of Arbor and Snyder Street.								
Barry County								
2 NW Hastings	21	1524EST		0	0	2.5K		Thunderstorm Wind
Barry County Central Dispatch reported trees and power lines downed 2 miles northwest of Hastings.								
Clinton County								
Ovid	21	1550EST		0	0	50K		Thunderstorm Wind
Severe thunderstorm winds leveled 2 buildings near the intersection of Hollister and Taft roads in Ovid Township. In addition, several buildings in the area had minor roof damage and several trees were downed. Destroyed buildings were a pole barn and a garage. No one was injured.								
Cass County								
Edwardsburg	21	1608EST		0	0	2.5K		Thunderstorm Wind
Cass County Central Dispatch reported power lines downed in Edwardsburg.								
Eaton County								
Dimondale	21	1619EST		0	0			Hail (0.88)
A trained severe weather spotter reported nickle-sized hail in Dimondale.								
St. Joseph County								
Centreville	21	1650EST		0	0	2.5K		Thunderstorm Wind
St. Joseph County Central Dispatch reported several large trees downed in Centreville area.								
On Saturday afternoon, June 21st, a line of strong thunderstorms associated with a cold front moving across Michigan's Lower Peninsula caused damage in portions of southwest and south central Lower Michigan. Most damage was caused by isolated incidences of straight-line winds.								
Eaton County								
Charlotte	23	1440EST		0	0	1K		Thunderstorm Wind
A local radio station in Charlotte reported several large tree limbs downed, with wind gusts estimated at 60 mph.								
Ingham County								
Mason	23	1455EST		0	0	2.5K		Thunderstorm Wind
Ingham County Central Dispatch reported several trees downed around Mason.								
Ingham County								
Dansville	23	1500EST		0	0	1K		Thunderstorm Wind
A trained severe weather spotter reported several 12 inch diameter limbs downed in thunderstorm winds.								
Clinton County								
4 SW Ovid	23	1550EST		0	0			Hail (1.00)
Public reported quarter-sized hail in Sleepy Hollow State Park.								

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<u>MICHIGAN, West</u>									
Muskegon County									
Montague	24	2004EST			0	0	2.5K		Thunderstorm Wind
Muskegon County Central Dispatch relayed public reports of trees and power lines down in Montague.									
Mecosta County									
Big Rapids	24	2110EST			0	0	2.5K		Thunderstorm Wind
Several trees were downed in the Big Rapids area.									
Osceola County									
Evart	24	2110EST			0	0	1K		Thunderstorm Wind
Power lines were downed in Evart, resulting in power outages. The same thunderstorm sparked lightning fires in LeRoy, in the northwest portion of Osceola County.									
Montcalm County									
Howard City	24	2120EST			0	0	2.5K		Thunderstorm Wind
Several trees were downed in a trailer park in Howard City.									
Clare County									
3 SW Lake George	24	2130EST			0	0	2.5K		Thunderstorm Wind
One tree reported downed near M-115 in southwest Clare County. Other trees were downed across county from this severe thunderstorm.									
Isabella County									
Mt Pleasant	24	2215EST			0	0	10K		Thunderstorm Wind
Tree reported down on vehicle in Mount Pleasant. Trees also reported downed in Blanchard, Weidman, Winn, and Shepherd from severe thunderstorm.									
Isabella County									
2 SW Winn	24	2215EST			0	0	15K		Thunderstorm Wind
Straight-line winds blew down a barn along Fremont Road in Rolland Township. Large pieces of sheet metal from the barn could be found nearly 3/4 mile to the north.									
A line of thunderstorms redeveloped as it moved inland from Lake Michigan on the evening of June 24th, as a gust front from a complex of severe thunderstorms which occurred in Wisconsin encountered the unstable air mass over Lower Michigan. The storms produced damaging wind gusts over portions of west central and central Lower Michigan.									
Kent County									
Sparta	30	1520EST			0	0	1K		Thunderstorm Wind
Trees reported downed in Sparta.									
Mecosta County									
Big Rapids	30	1545EST			0	0	50K		Thunderstorm Wind
A wet microburst downed nearly a dozen large trees and 5 utility poles in the city of Big Rapids. No structural damage was reported to homes or businesses, but downed trees damaged 3 vehicles. Three traffic lights were knocked from their cables and approximately 2,400 Consumers Energy customers lost power. No injuries were reported.									
Lake County									
Chase	30	1655EST			0	0			Hail (0.75)
<u>MINNESOTA, Central and South Central</u>									
Morrison County									
Motley	04	1558CST			0	0			Hail (0.75)
Freeborn County									
5 S Albert Lea	05	1035CST			0	0			Hail (1.00)
Freeborn County									
Twin Lakes	05	1045CST			0	0			Hail (0.75)
Goodhue County									
8 SE Red Wing	05	1145CST			0	0			Hail (0.75)
Dakota County									
6 SE Farmington	07	1217CST			0	0			Hail (1.00)
Rice County									
3 E Northfield	07	1255CST			0	0			Hail (0.75)
Hennepin County									
Minneapolis	07	1303CST			0	0			Thunderstorm Wind (G52)
Pea Size Hail also reported.									
Hennepin County									
Hopkins	15	1320CST			0	0			Thunderstorm Wind (G50)
10 inch diameter tree branches knocked down. Estimated windspeed.									

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					Killed	Injured	Property	Crops	
<u>MINNESOTA, Central and South Central</u>									
Ramsey County									
St Paul	15	1334CST			0	0			Hail (0.75)
			Thunderstorm winds also knocked down several large trees.						
Washington County									
Oakdale	15	1345CST			0	0			Hail (0.75)
Stevens County									
Donnelly	17	1445CST			0	0			Funnel Cloud
Hennepin County									
Wayzata	20	1511CST			0	0			Thunderstorm Wind (G50)
			Large tree branches down. Estimated windspeed.						
Kandiyohi County									
Lake Lillian to 5 SE Lake Lillian	22	1515CST			0	0			Hail (0.75)
			Hail swath continued from Lake Lillian to Renville county border. Significant crop damage.						
Meeker County									
3 W Cosmos to 3 SE Cosmos	22	1525CST 1530CST			0	0	400K		Hail (0.75)
			5000 acres with varying degrees of crop damage. Some soybean fields a total loss.						
Meeker County									
2 S Cosmos	22	1530CST			0	0			Thunderstorm Wind (G50)
			Trees down. Estimated windspeed.						
Renville County									
Churchill	22	1555CST			0	0			Thunderstorm Wind (G50)
			Large branches down. Estimated windspeed.						
Renville County									
4 NW Lakeside	22	1600CST			0	0			Thunderstorm Wind (G50)
			4 inch diameter branches down.						
Mcleod County									
2 S Stewart	22	1630CST			0	0			Thunderstorm Wind (G50)
			Gas grill knocked over. Estimated windspeed.						
Lac Qui Parle County									
1 N Madison	22	1645CST			0	0			Thunderstorm Wind (G50)
			Power poles knocked down. Grain bin destroyed. Large tree blown over onto house. Estimated windspeed.						
Chippewa County									
4 NE Watson	22	1720CST			0	0			Strong Wind Gust
			Shed damage.						
Redwood County									
2 W Walnut Grove	22	1820CST			0	0			Thunderstorm Wind (G50)
			Large trees down. Estimated windspeed.						
Watonwan County									
Butterfield	22	1830CST			0	0			Thunderstorm Wind (G56)
			Trees down. Small hail also reported.						
Martin County									
Sherburn	22	1850CST			0	0			Thunderstorm Wind (G52)
Watonwan County									
2 S Butterfield	22	1911CST 1920CST			0	0			Hail (1.75)
			15,000 acres damaged by hail.						
Watonwan County									
St James	22	1920CST			0	0			Thunderstorm Wind (G52)
			Measured by local radio station.						
Martin County									
Welcome	22	1930CST			0	0			Thunderstorm Wind (G52)
Martin County									
3 E Sherburn	22	1937CST			0	0			Thunderstorm Wind (G61)
Martin County									
Fairmont	22	1951CST			0	0			Hail (1.00)
Martin County									
Fairmont	22	1955CST			0	0			Thunderstorm Wind (G56)

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MINNESOTA, Central and South Central									
Martin County 4 E Granada	22	2000CST			0	0			Thunderstorm Wind (G50) 10 inch diameter tree branches down.
Watonwan County St James	22	2000CST			0	0			Flash Flood Three and one half inches of rain fell in 30 minutes. Numerous streets flooded and several basements flooded. Two feet of water on north side of town. Deer Park flooded.
Faribault County Huntley	22	2005CST			0	0			Thunderstorm Wind (G50) Trees down. Estimated windspeed.
Martin County 2 S Welcome	22	2010CST			0	0			Flash Flood Road washed out.
Brown County 5 SE Sleepy Eye	22	2030CST			0	0	15K		Lightning Significant damage to farmhouse.
Douglas County Alexandria	22	2347CST			0	0			Hail (1.00)
Todd County 5 N West Union	23	0005CST			0	0			Hail (1.00)
Todd County 5 SE Philbrook to 1 NW Lincoln	28	0440CST			0	0			Hail (0.88)
Morrison County 1 SW Cushing	28	0500CST			0	0			Hail (0.88) Some crop damage.
Morrison County Flensburg	28	0515CST			0	0			Hail (1.00)
Morrison County 14 W Little Falls	28	0528CST			0	0			Hail (1.00)
Morrison County 1 W Flensburg	28	0530CST			0	0			Hail (0.75) Some crop damage.
Benton County Rice	28	0625CST			0	0			Hail (1.75)
Benton County 3 N Sauk Rapids	28	0625CST			0	0			Thunderstorm Wind (G50) Power lines down.
Benton County 5 NW Gilman	28	0650CST			0	0			Hail (0.75)
Benton County Glendorado	28	0705CST			0	0			Hail (0.88)
Anoka County Coon Rapids	28	0755CST			0	0			Hail (1.75)
Hennepin County Brooklyn Park	28	0755CST			0	0			Hail (1.75)
Ramsey County Mounds View	28	0825CST			0	0			Hail (0.88)
Ramsey County St Paul	28	0856CST			0	0			Hail (0.75)
Washington County Woodbury	28	0904CST			0	0			Thunderstorm Wind (G50) 4 inch diameter tree limbs down. Estimated windspeed.
Washington County Woodbury	28	0915CST			0	0			Hail (0.75) Three inches of rain and street flooding reported in area.
Washington County Cottage Grove	28	0940CST			0	0			Hail (1.50)

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<u>MINNESOTA, Central and South Central</u>									
Stevens County Morris	28	1125CST			0	0			Thunderstorm Wind (G50)
			Trees blown down. Estimated windspeed.						
Douglas County 2 N Miltona to Rose City	28	1130CST			0	0			Thunderstorm Wind (G50)
			Numerous trees down. Estimated windspeed.						
Pope County Sedan	28	1130CST			0	0			Thunderstorm Wind (G50)
			Large branches down. Estimated windspeed.						
Kandiyohi County 2 W Willmar	28	1225CST			0	0			Thunderstorm Wind (G55)
			Roof off building. Estimated windspeed.						
Kandiyohi County Willmar	28	1235CST			0	1			Thunderstorm Wind (G55)
			Large tree blown onto hood of car. One passenger injured.						
Todd County Browerville	28	1245CST			0	0			Thunderstorm Wind (G50)
			Trees down. Estimated windspeed.						
Morrison County Randall	28	1250CST			0	0			Thunderstorm Wind (G50)
			Trees blown down. Estimated windspeed.						
Meeker County Eden Vly	28	1300CST			0	0			Thunderstorm Wind (G55)
			Numerous trees and power lines down. Corn crib and shed blown over. Estimated windspeed. Damage extended across county line into Stearns county.						
Morrison County 9 SE Motley	28	1310CST			0	0			Thunderstorm Wind (G61)
Stearns County Paynesville	28	1310CST			0	0			Thunderstorm Wind (G55)
			Trees blown down. Roof ripped off garage and flipped onto nearby house. Estimated windspeed.						
Meeker County 2 S Cosmos	28	1320CST			0	0			Hail (0.75)
Wright County 4 NE Annandale	28	1325CST			0	1			Thunderstorm Wind (G50)
			One woman critically injured when a tree branch was blown off a tree and struck her in the head.						
Wright County 3 N Cokato	28	1335CST			0	0			Thunderstorm Wind (G50)
			Power lines and large branches down. Trees also reported down in Waverly. Estimated windspeed.						
Meeker County 2 NE Kingston	28	1338CST	0.1	50	0	0			Tornado (F0)
			Brief touchdown on northern bay of Lake Francis. Dock, boat and boat lift flipped over in water.						
Wright County 3 NW French Lake	28	1338CST	0.1	50	0	0			Tornado (F0)
			Brief touchdown on northern bay of Lake Francis. Dock, boat and boat lift flipped into water.						
Renville County 4 NE Fairfax	28	1340CST			0	0			Hail (1.00)
			Trees also blown down.						
Mcleod County 1 N Hutchinson	28	1345CST			0	0			Thunderstorm Wind (G50)
			Trees blown down. Estimated windspeed.						
Mille Lacs County 1 NW Isle	28	1345CST			0	0			Hail (1.75)
			Hail pelted Scenic Bay resort launch about 1 mile from shore on Lake Mille Lacs. Strong winds accompanied the hail.						
Mille Lacs County Onamia	28	1345CST			0	0			Thunderstorm Wind (G50)
			4 inch branches down. Outdoor furniture blown around.						
Nicollet County 9 NW St George	28	1355CST			0	0			Thunderstorm Wind (G50)
			Large branches and tents down in Fort Ridgely state park. Estimated windspeed.						

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MINNESOTA, Central and South Central									
Kanabec County 10 N Mora	28	1400CST			0	0			Thunderstorm Wind (G50) Trees down. More trees down reported at same time 3 miles south of Mora.
Nicollet County Lafayette	28	1400CST			0	0			Hail (1.00) Hail lasted for 10 minutes. Some crop damage.
Sibley County 4 NW Arlington	28	1400CST			0	0			Thunderstorm Wind (G50) 5 inch branches down. 8 inches of rain also reported. Storm sewers were overflowing in Winthrop. Estimated windspeed.
Sherburne County 6 N Zimmerman	28	1407CST			0	0			Thunderstorm Wind (G50) Large branches and power lines down. Estimated windspeed.
Isanti County 4 SE Isanti	28	1410CST			0	0			Thunderstorm Wind (G50) Trees down. Also trees reported down at Cambridge state hospital.
Isanti County Braham	28	1415CST			0	0			Thunderstorm Wind (G55) Large trees blown over. Estimated windspeed.
Chisago County 5 E North Branch	28	1430CST			0	0			Thunderstorm Wind (G50) Trees blown down. Estimated windspeed.
Hennepin County St Bonifacius	28	1435CST			0	0			Thunderstorm Wind (G50) Power lines and trees down. Estimated windspeed.
Anoka County 1 N Andover to Oak Grove	28	1445CST			0	0			Hail (0.75)
Anoka County Ramsey	28	1445CST			0	0			Hail (0.75)
Carver County Chaska	28	1445CST			0	0			Thunderstorm Wind (G50) 6 inch branches down. Estimated windspeed.
Anoka County Coon Rapids	28	1450CST			0	0			Thunderstorm Wind (G50) Trees down. Several trees down also in Fridley. Estimated windspeed.
Le Sueur County 9 S Le Center	28	1450CST			0	0			Hail (0.75) Trees also reported down on south side of Jefferson Lake.
Scott County Marystown	28	1455CST			0	0			Hail (2.00)
Dakota County South St Paul	28	1500CST			0	0			Thunderstorm Wind (G50) Trees down. Estimated windspeed.
Ramsey County Maplewood	28	1500CST			0	0			Thunderstorm Wind (G50) Trees down at intersection of highways 36 and 61. Estimated windspeed.
Scott County Elko	28	1500CST			0	0			Thunderstorm Wind (G50) Shed damage. Also reported in New Market. Estimated windspeed.
Brown County New Ulm	28	1515CST			0	0			Thunderstorm Wind (G50) Trees and large branches down on west side of city. Estimated windspeed. About one and one half inches of rain in one half hour resulted in minor flooding at a mobile home park.
Washington County 1 S Stillwater	28	1515CST			0	0			Thunderstorm Wind (G50) Power lines and large branches down. Estimated windspeed.
Kandiyohi County Willmar	28	1550CST			0	0			Flash Flood Streets flooded. Cars stranded.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Goodhue County Cannon Falls	28	1600CST			0	0			Thunderstorm Wind (G50)
			Large tree branches blown down. Estimated windspeed.						
Blue Earth County 2 E Lake Crystal	28	1615CST			0	0			Hail (0.75)
Rice County 3 SE Ruskin	28	1615CST			0	0			Hail (0.75)
Watonwan County 2 W La Salle	28	1630CST			0	0			Hail (1.50)
			Hail covered ground and lasted for 10 minutes.						
Martin County Truman	28	1710CST			0	0			Hail (0.75)
Blue Earth County 6 SE Mapleton	28	1715CST			0	0			Hail (0.88)
			About 6,000 acres of crops sustained severe hail damage in Blue Earth county.						
Faribault County Delavan	28	1720CST			0	0			Hail (0.75)
Faribault County 6 E Blue Earth	28	1730CST			0	0			Hail (0.88)
Kandiyohi County 6 NE New London	28	1740CST			0	0			Hail (1.00)
Martin County 2 N Granada	28	1740CST			0	0			Hail (1.50)
Kandiyohi County 10 S Willmar	28	1813CST			0	0			Hail (1.75)
Mcleod County Lester Prairie	28	1815CST			0	0			Hail (0.88)
Meeker County 2 S Cosmos	28	1830CST			0	0			Hail (1.00)
			Some crop damage.						
Renville County 4 NW Churchill to 6 S Cosmos	28	1900CST			0	0			Hail (0.75)
Sibley County 2 NE Winthrop	28	1927CST			0	0			Hail (0.75)
Renville County Hector Muni Arpt	28	1950CST			0	0			Hail (0.88)
			6 inches of rain also reported.						
Nicollet County 7 W Lafayette	28	2030CST			0	0			Hail (1.75)
Renville County Hector	28	2049CST			0	0			Hail (0.75)
Renville County Buffalo Lake	28	2054CST			0	0			Hail (1.25)
			Hail covered ground. Significant crop damage.						
Mcleod County 3 E Stewart	28	2125CST			0	0			Hail (0.88)
Mcleod County Brownton	28	2130CST			0	0			Flash Flood
			Flooded basement resulted in wall collapse. Water over highway 22.						
Yellow Medicine County 6 W Canby	28	2130CST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Mcleod County Brownton	28	2132CST			0	0			Hail (0.75)
Mcleod County Brownton	28	2140CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Lac Qui Parle County									
5 S Madison	28	2145CST			0	0			Hail (0.75)
McLeod County									
4 S Glencoe	28	2330CST			0	0			Hail (1.00)
Hail damaged paint and shutters.									
Stearns County									
Paynesville	29	0005CST			0	0			Hail (1.00)
Meeker County									
Cosmos	29	0030CST			0	0			Hail (0.75)
5 inches of rain also reported.									
McLeod County									
Stewart	29	0220CST			0	0			Hail (0.88)
Renville County									
6 NW Lakeside	29	0230CST			0	0			Hail (1.00)
Nicollet County									
1 E Bernadotte	29	0300CST			0	0			Lightning
Lightning struck tree, throwing chunks of wood airborne. One chunk broke a window on a nearby farmhouse.									
<u>MINNESOTA, Northeast</u>									
Itasca County									
Balsam Lake	04	1710CST			0	0			Hail (1.75)
Lake County									
Two Harbors to 8 SW Two Harbors	24	1600CST 1900CST			0	0			Flash Flood
St. Louis County									
Duluth to 19 NE Duluth	24	1600CST 1900CST			0	0			Flash Flood
A band of heavy rain developed from downtown Duluth to just north of Two Harbors. Nearly five and a half inches of rain fell in Duluth's Lakeside neighborhood earlier in the day. The steep hillside in Duluth helped create torrents of water that closed many streets, forced up manhole covers, and overwhelmed sanitary sewers. The rushing water washed out railroad tracks and ripped the asphalt right off the roads. Many roads and driveways along State Highway 61 between Duluth and Two Harbors were either washed out or had standing water through the evening.									
Itasca County									
Bigfork	27	2100CST			0	0			Hail (2.50)
Koochiching County									
Big Falls	28	0100CST			0	0			Lightning
Lightning struck an electrical feeder line, causing a fire that destroyed a house. No dollar estimate was available, and no one was injured.									
Crow Wing County									
Brainerd	28	1302CST			0	0			Thunderstorm Wind (G87)
Wind equipment on the roof of the county courthouse peaked at 100 mph (87 knots). A few trees were blown down, and a pontoon boat on Horseshoe Lake just north of the city was lifted out of the water and severely damaged.									
Crow Wing County									
Crosby	28	1306CST			0	0			Thunderstorm Wind (G70)
Strong thunderstorm winds caused heavy tree and power line damage in and around the city and along the north shore of Serpent Lake. Damage to a house occurred when a tree limb fell through the roof of the living room. Other trees were reported down across the county. Wind speed is estimated.									
Aitkin County									
Aitkin	28	1350CST			0	0			Thunderstorm Wind (G55)
Strong thunderstorm winds blew down many trees and power lines across a wide area from east and north of Mille Lacs Lake to the vicinity of Aitkin. Wind speed is estimated.									
Carlton County									
Moose Lake	28	1420CST			0	0			Thunderstorm Wind (G52)
Pine County									
Sandstone	28	1430CST			0	0			Thunderstorm Wind (G55)
Strong thunderstorm winds blew down many trees and power lines from the Sandstone area south to near Pine City. Wind speed is estimated.									
Itasca County									
Talmoon	28	2223CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds estimated at 50 knots blew down two trees.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northwest									
Hubbard County Laporte	04	1330CST			0	0			Hail (1.00)
Hubbard County 1 S Akeley	04	1425CST			0	0			Hail (1.50)
Hubbard County Akeley	04	1440CST			0	0			Hail (0.75)
Grant County 6.5 S Elbow Lake	17	1500CST			0	0	10K		Thunderstorm Wind
									Strong wind blew several trees over and took the roof off a barn.
Polk County 1 E Euclid	19	1600CST			0	0			Hail (0.75)
									Drifts of hail were reported.
Polk County 1 W Euclid	19	1639CST			0	0			Hail (0.75)
Polk County 5 NE East Grand Forks	19	1710CST	0.1	25	0	0			Tornado (F0)
									Brief touchdown in a field.
Polk County 4 SE Harold	19	1853CST			0	0			Hail (0.75)
Otter Tail County 7 SW Battle Lake	19	2140CST			0	0			Thunderstorm Wind (G50)
									High wind downed tree limbs and tossed boats around.
Grant County Norcross	22	2225CST			0	0			Hail (1.50)
Grant County 3 SW Elbow Lake	22	2258CST			0	0			Hail (1.00)
Grant County 3 S Elbow Lake	22	2303CST			0	0			Hail (1.75)
Polk County Mentor	23	2310CST			0	0			Hail (1.00)
Polk County Maple Bay	23	2340CST			0	0			Hail (0.75)
Polk County Maple Lake	24	0430CST			0	0	50K		Flash Flood
									Six inches of rain caused a hill to erode, dumping two inches of mud and water on the floor of a resort store. Two boats at the resort were sunk due to the heavy rain.
Polk County Erskine	24	0500CST			0	0	200K		Flash Flood
									Seven inches of rain caused many basements to fill with several inches to several feet of water. Several township roads were also washed out.
Clearwater County Gonvick	24	0530CST			0	0			Flash Flood
									Several roads were washed out due to the heavy rain.
Roseau County 10 NE Greenbush to 3 E Greenbush	27	1535CST 1645CST	11	150	0	1	250K		Tornado (F2)
									A tornado damaged 2 homes, several farm buildings, and 2 steel grain bins as it struck 10 miles north and 2 miles east of Greenbush. One man barely made it out of his trailer home before the tornado struck. As the tornado travelled between the 2 homes, it came close to a tractor plowing a field. A man in the tractor had glass blown into his eyes as the glass tractor cab shattered. A third home, 3 miles east and 2 miles north of Greenbush, was shifted off its foundation as the tornado passed. The tornado crossed highway 11, damaging a fourth home located 3 miles east of Greenbush, before dissipating.
Roseau County Badger	27	1619CST			0	0			Hail (0.75)
Roseau County Badger	27	1654CST			0	0	100K		Hail (1.75)
Roseau County 12 S Roseau	27	1712CST	0.5	25	0	0			Tornado (F1)
Roseau County 10 SW Greenbush	27	1739CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northwest									
Roseau County 1 E Strathcona	27	1805CST			0	0			Hail (0.75)
									The ground was white with hail.
Marshall County Thief Lake Refuge	27	1845CST			0	0			Hail (0.75)
Marshall County Thief Lake Refuge	27	1855CST			0	0			Hail (0.75)
Beltrami County 11 NE Grygla	27	1930CST			0	0	5K		Thunderstorm Wind
									Strong wind knocked down several large trees.
Beltrami County 2 W Fourn town	27	1959CST	0.2	25	0	0			Tornado (F1)
Beltrami County 7 SW Waskish	27	2005CST			0	0	10K		Thunderstorm Wind
									Numerous large trees were blown over.
Hubbard County 30 N Park Rapids	27	2030CST			0	0			Hail (0.75)
Beltrami County 20 NE Clearbrook	27	2040CST	0.5	25	0	0			Tornado (F1)
Clearwater County Gonvick	27	2115CST			0	0			Hail (1.00)
Pennington County 10 N Gully	27	2145CST			0	0			Hail (0.75)
Clearwater County 5 N Bagley	27	2155CST			0	0			Hail (0.75)
Polk County 3 N Gully	27	2223CST			0	0			Hail (0.75)
Beltrami County Blackduck	27	2230CST			0	0			Hail (3.00)
Beltrami County Bemidji Arpt	27	2255CST			0	0			Thunderstorm Wind (G50)
Clearwater County 3 N Bagley	27	2314CST			0	0			Hail (0.75)
Polk County Lengby	27	2314CST			0	0			Hail (0.75)
Polk County Lengby	27	2345CST			0	0			Hail (1.50)
Beltrami County 1 W Bemidji	27	2345CST			0	0	5K		Thunderstorm Wind
									Several large trees were blown down.
Mahnomen County 1.5 S Naytahwaush	27	2345CST			0	0			Hail (1.75)
Clearwater County Bagley	27	2350CST			0	0			Hail (1.00)
Polk County Fosston	27	2356CST			0	0			Flash Flood
									Heavy rain flooded many roads.
Clearwater County 5 NW Bagley	27	2359CST			0	0			Hail (1.00)
Mahnomen County 1 S Naytahwaush	28	0010CST			0	0			Hail (1.25)
Polk County Lengby	28	0015CST			0	0			Flash Flood
									Numerous roads washed out and a basement caved in.
Mahnomen County 1 S Naytahwaush	28	0030CST			0	0			Hail (1.25)
Hubbard County 6 NW Laporte	28	0035CST			0	2	10K		Thunderstorm Wind
									Strong winds flipped a car over.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MINNESOTA, Northwest</u>									
Hubbard County									
33 N Park Rapids	28	0100CST			0	0	2K		Thunderstorm Wind
			A fish house was blown over due to the strong wind.						
Mahnomen County									
6 NE Beaulieu	28	0130CST			0	0			Hail (0.75)
Mahnomen County									
Island Lake	28	0145CST			0	0			Hail (0.75)
Mahnomen County									
6 NE Beaulieu	28	0200CST			0	0			Flash Flood
			4.1 inches of rain flooded several roads.						
Becker County									
Ogema	28	0216CST			0	0			Hail (0.75)
Clearwater County									
Ebro	28	0230CST			0	0			Flash Flood
			Flooding closed US Highway 2 near Ebro.						
Polk County									
Lengby	28	0230CST			0	0			Flash Flood
			Heavy rain, falling over saturated soil, quickly caused low-lying areas to fill with water.						
Becker County									
4 S Detroit Lakes	28	0800CST			0	0			Hail (0.75)
Otter Tail County									
Vergas	28	0910CST			0	0			Hail (0.75)
Becker County									
Frazee	28	1100CST			0	0	30K		Lightning
			Lightning struck a house near Acorn Lake, igniting a fire in the attic.						
Wadena County									
Wadena	28	1130CST			0	0			Hail (0.75)
Otter Tail County									
Battle Lake	28	1148CST			0	0			Hail (0.75)
Wadena County									
Wadena	28	1200CST			0	0			Hail (0.75)
Otter Tail County									
Parkers Prairie	28	1215CST			0	0			Hail (0.75)
Otter Tail County									
Vergas	28	1950CST			0	0			Hail (1.00)
Otter Tail County									
Vergas	28	2030CST			0	0			Hail (1.00)
Becker County									
Detroit Lakes	29	1700CST			0	0	50K		Urban/Sml Stream Fld
			2.5 to 4.5 inches of rain fell in two hours, flooding city streets and low areas.						
<u>MINNESOTA, Southeast</u>									
Wabasha County									
Wabasha	05	1208CST			0	0			Hail (1.50)
Wabasha County									
1 SE Wabasha	05	1215CST			0	0			Hail (1.50)
Wabasha County									
Millville	05	1225CST			0	0			Hail (0.75)
Wabasha County									
Elgin	05	1240CST			0	0			Hail (0.75)
Winona County									
Winona	05	1255CST			0	0			Hail (0.88)
Olmsted County									
Eyota	05	1301CST			0	0			Hail (0.88)
Olmsted County									
2 E Eyota	05	1307CST			0	0			Hail (0.88)
Olmsted County									
Pleasant Grove	05	1330CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Southeast									
Fillmore County Spring Valley	05	1345CST			0	0			Hail (0.75)
Winona County Nodine	05	1424CST			0	0			Hail (0.75)
Houston County Houston	05	1430CST			0	0			Hail (0.75)
Winona County Rollingstone	05	1532CST			0	0			Hail (0.88)
Winona County Winona Muni Arpt	05	1535CST			0	0			Hail (0.75)
Winona County Altura	05	1559CST			0	0			Funnel Cloud
Winona County Stockton	05	1600CST			0	0			Hail (0.88)
Winona County Utica	05	1600CST			0	0			Hail (1.75)
Winona County 1 NE Utica to 1 NW Utica	05	1607CST 1612CST	2	80	0	0			Tornado (F0)
Winona County Utica	05	1615CST			0	0			Funnel Cloud
Hail up to the size of golf balls occurred with scattered severe thunderstorms across southeast Minnesota. Spotters reported a brief tornado touchdown in an open field near Utica.									
Houston County Caledonia	15	1350CST			0	0	5K		Thunderstorm Wind (G53)
Houston County Spring Grove	15	1400CST			0	0	8K		Thunderstorm Wind (G52)
Wind gusts around 60 mph knocked down large branches and power lines as a line of severe thunderstorms hit the southeast corner of Minnesota .									
Fillmore County 2 E Ostrander	19	1846CST			0	0			Hail (0.88)
Fillmore County Cherry Grove	19	1920CST			0	0	8K		Hail (1.75)
Fillmore County Harmony	19	1950CST			0	0			Hail (0.75)
Fillmore County Harmony	19	1956CST			0	0			Hail (0.88)
Fillmore County 2 NW Harmony	19	2007CST	1	50	0	0			Tornado (F0)
Houston County Caledonia	19	2119CST			0	0		10K	Hail (0.88)
An isolated severe thunderstorm produced a brief tornado and hail as large as golf balls.									
Mower County 10 SE Austin	22	2145CST			0	0			Thunderstorm Wind (G52)
Fillmore County 4 W Spring Valley	22	2202CST			0	0			Thunderstorm Wind (G52)
Mower County Grand Meadow	22	2220CST			0	0	2K		Thunderstorm Wind (G52)
Fillmore County 2 E Spring Valley	22	2222CST			0	0			Thunderstorm Wind (G52)
Fillmore County Spring Valley	22	2222CST			0	0	6K		Thunderstorm Wind (G52)
Fillmore County 3 S Ostrander	22	2225CST			0	0	8K		Thunderstorm Wind (G52)
60 mph wind gusts blew down numerous large tree branches onto power lines.									
Wabasha County Zumbro Falls	28	1644CST			0	0	1K		Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Southeast</u>									
Olmsted County 8 W Rochester	28	1705CST			0	0			Hail (0.75)
Winona County St Charles	28	1710CST			0	0			Thunderstorm Wind (G52)
Winona County 8 SW Winona	28	1748CST			0	0	1K		Thunderstorm Wind (G52)
Fillmore County Spring Valley	28	1752CST			0	0	1K		Thunderstorm Wind (G53)
Houston County La Crescent	28	1810CST			0	0			Thunderstorm Wind (G52)
Houston County Yucatan	28	1810CST			0	0	1K		Thunderstorm Wind (G52)
Winds gusted to around 60 mph, which knocked down numerous trees and large branches.									
<u>MINNESOTA, Southwest</u>									
Lincoln County 10 NW Lake Benton to 5 N Tyler	22	1645CST 1730CST			0	0	100K	15M	Hail (1.75)
Large hail devastated crops in most of Lincoln County. An estimated 180 thousand acres of crops were affected, with 80 thousand acres totally destroyed.									
Lincoln County 10 NW Lake Benton to 5 N Tyler	22	1645CST 1730CST			0	0	100K		Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage and other minor property damage in much of Lincoln County.									
Lyon County 5 SW Minneota to 5 S Ghent	22	1655CST 1730CST			0	0	100K	4M	Hail (1.75)
Large hail devastated about 40 thousand acres of crops in western Lyon County. The area just south of Minneota was the most affected.									
Lyon County 5 SW Minneota to 5 S Ghent	22	1655CST 1730CST			0	0	50K		Thunderstorm Wind (G52)
Thunderstorm winds caused tree and minor building damage and blew down signs.									
Pipestone County 5 NW Pipestone to Woodstock	22	1715CST 1745CST			0	0	100K	5M	Hail (2.00)
Large hail devastated crops with an estimated 63 thousand acres totally or partially wiped out, mostly in the northwestern quarter of Pipestone County.									
Murray County Slayton to Fulda	22	1730CST 1815CST			0	0	200K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage and blew over a garage in Slayton, destroyed boat lifts and 2 trailers on the east side of Lake Shetek, and caused tree and power line damage at Fulda.									
Cottonwood County Westbrook	22	1800CST			0	0	20K	50K	Thunderstorm Wind (G52)
Cottonwood County Storden	22	1807CST			0	0	20K	50K	Thunderstorm Wind (G52)
Cottonwood County Bingham Lake	22	1900CST			0	0	20K	50K	Thunderstorm Wind (G52)
Cottonwood County 10 S Westbrook	22	1900CST			0	0	100K	50K	Thunderstorm Wind (G67)
Cottonwood County Windom	22	1900CST 1901CST			0	0	50K	50K	Thunderstorm Wind (G67)
Thunderstorm winds caused tree and power line damage, and along with small hail caused areas of crop damage. Three large trailers were overturned and severely damaged at Talcott Lake.									
Jackson County Jackson	22	1930CST			0	0			Thunderstorm Wind (G52)
Cottonwood County 2 N Jeffers	28	1550CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>							
Pipestone County							
3 N Edgerton	29	0500CST 0700CST			0	0	10K Heavy Rain
Rainfall of 4 to 8 inches over a small area just north of Edgerton caused brief flooding of low lying areas and of the Rock River. A few roads were flooded.							
<u>MINNESOTA, West</u>							
NONE REPORTED.							
<u>MINNESOTA, West Central</u>							
Big Stone County							
Beardsley	15	0247CST			0	0	Thunderstorm Wind (G61)
Traverse County							
15 E Browns Valley	19	2142CST			0	0	Hail (0.75)
Big Stone County							
5 SE Graceville	19	2157CST			0	0	Hail (1.00)
A 1 by 2 square mile area of soybeans was destroyed.							
Traverse County							
8 N Wheaton	22	2150CST			0	0	Hail (0.75)
Traverse County							
12 NE Wheaton	22	2214CST			0	0	Hail (1.75)
<u>MISSISSIPPI, Central</u>							
Holmes County							
Lexington	10	0000CST 0900CST			0	0	10M Flash Flood
Over six inches of rain fell in Lexington in a little over three hours. The heavy rain caused Bear creek to over flow and flood much of the town of Lexington. Forty five business were affected by the flooding and thirty of these suffered major losses. As many as 300 homes had water damage.							
Lawrence County							
Monticello	10	0100CST 0300CST			0	0	Flash Flood
Many roads were flooded. One road has as much as two and a half feet of water over it.							
Hinds County							
Jackson	10	0530CST 0700CST			0	0	Flash Flood
Several streets in West Jackson were under water. One nursing home had to be evacuated due to rising water.							
Warren County							
Vicksburg	10	0530CST 0700CST			0	0	Flash Flood
Highway 80 and many other streets were flooded in and around Vicksburg.							
Madison County							
Canton to Canton	10	0600CST 0800CST			0	0	300K Flash Flood
Six homes were flooded in Canton.							
Rankin County							
Florence	10	0600CST 0800CST			0	0	Flash Flood
Many roads and streets were flooded. One persons car was engulfed by water, but the person was rescued.							
Oktober County							
Starkville	16	1645CST			0	0	3K Thunderstorm Wind
Several trees and power lines were blown down.							
Warren County							
Vicksburg	17	0600CST			0	0	10K Thunderstorm Wind
Numerous trees and power lines were blown down. Over one thousand people were without power.							
Yazoo County							
3 W Eden to Eden	17	0745CST			0	0	2K Thunderstorm Wind
Several trees were blown down.							
Attala County							
20 N Kosciusko	17	0830CST			0	0	2K Thunderstorm Wind
Several trees were blown down.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSISSIPPI, Central									
Warren County Vicksburg	17	0830CST			0	0	50K		Thunderstorm Wind
	One business and four homes had major damage.								
Lincoln County 15 NE Brookhaven	17	0835CST			0	0	20K		Thunderstorm Wind
	The roof of a carport and a chicken house were blown off. One half of a garage was blown down. Two trees were blown down.								
Marion County Columbia	18	0400CST 0900CST			0	0	15M		Flash Flood
	Over six inches of rain fell in Columbia in a three hour period and eight and a quarter inches fell in a 24 hour period. Water entered thirty businesses in Columbia. Twelve of the business suffered major damage. Eight homes also suffered flood damage. Many roads were washed out and had to be closed. Numerous cars were under water.								
Forrest County Brooklyn	18	0500CST 0700CST			0	0			Flash Flood
	Several roads were flooded across the south half of Forrest county.								
Marion County Sandy Hook	19	1315CST			0	0			Hail (0.75)
Lamar County Purvis	19	1400CST			0	0			Hail (1.75)
Clarke County Enterprise	20	1803CST			0	0	5K		Thunderstorm Wind
	Numerous trees and power lines were blown down.								
Clarke County Stonewall	20	1815CST			0	0	4K		Thunderstorm Wind
	Numerous trees were blown down.								
Lauderdale County Lauderdale	20	1823CST			0	0	4K		Thunderstorm Wind
	Numerous trees were blown down along Highway 19 south.								
Kemper County De Kalb	20	1917CST			0	0	5K		Thunderstorm Wind
	Numerous trees were blown down.								
Lauderdale County Daleville	20	1935CST			0	0	4K		Thunderstorm Wind
	Numerous trees were blown down.								
Oktibbeha County Osborn	20	2200CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
Choctaw County Ackerman	20 21	2300CST 0200CST			0	0			Flash Flood
	Extensive flooding of roads and streets occurred in Ackerman.								
Oktibbeha County Starkville	20 21	2300CST 0030CST			0	0			Flash Flood
	Several streets and roads were flooded.								
Jasper County Heidelberg	23	1308CST			0	0	4K		Thunderstorm Wind
	Several trees and power lines were blown down.								
Jasper County Bay Spgs to Bay Springs	23	1400CST 1500CST			0	0			Flash Flood
	Numerous streets and roads were flooded.								
Covington County Mt Olive	23	1403CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
Simpson County Magee	23	1420CST			0	0	1K		Thunderstorm Wind
	A couple of trees were blown down.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSISSIPPI, Central</u>									
Kemper County									
Preston	23	1450CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Webster County									
3 N Bellefontaine	23	1630CST			0	0	1K		Thunderstorm Wind
			A few trees were blown down.						
Marion County									
Columbia	25	1030CST 1200CST			0	0			Flash Flood
			Several streets and roads were flooded on the east side of Columbia.						
Bolivar County									
1 N Cleveland	28	1640CST			0	0	1K		Thunderstorm Wind
			A few trees were blown down.						
Lauderdale County									
Toomsuba	28	2000CST 2100CST			0	0			Flash Flood
			Several roads were underwater.						
Montgomery County									
Duck Hill	28	2030CST 2130CST			0	0			Flash Flood
			Six inches of water were over Highway 51.						
Neshoba County									
1 N Philadelphia	28	2105CST			0	0	25K		Thunderstorm Wind
			Three sections of roof were blown off a motel. One vehicle was damaged by roof parts.						
Scott County									
4 ESE Forest	29	1345CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down along Interstate 20.						
Hinds County									
Jackson	29	1400CST			0	1			Lightning
			A security guard was patrolling a parking lot at a mall in her pickup when lightning struck close to her vehicle. She was struck by the residual effects of the lightning. She was taken to a local hospital where she was in stable condition.						
<u>MISSISSIPPI, North</u>									
Monroe County									
Smithville	02	1800CST 2100CST			0	0	0.10K		Flood
			A nearby creek flooded the front yard and driveway of one home.						
Panola County									
5 E Crenshaw	08	1620CST 1625CST			0	0	5K		Thunderstorm Wind
			Several trees and power lines were blown down between Crenshaw and Como.						
Panola County									
1 W Como to Sardis	08	1650CST 1730CST			0	0	10K		Thunderstorm Wind
			Trees and power lines were knocked down in Como, about 4 miles north of Batesville and just north and west of Sardis.						
Panola County									
4 N Batesville to 2 SE Batesville	08	1715CST 1745CST			0	0	0.78K		Hail (1.75)
Itawamba County									
Fulton	13	1300CST 1305CST			0	0	0.05K		Hail (0.88)
Lee County									
Baldwyn	16	1235CST 1240CST			0	0	0.01K		Hail (0.75)
Pontotoc County									
Ecu	16	1335CST 1340CST			0	0	1K		Thunderstorm Wind
			Several trees and power lines were blown down.						
Lee County									
Saltillo to Verona	16	1340CST 1355CST			0	0	2K		Thunderstorm Wind
			Some trees and power lines were knocked down in Saltillo and Verona.						

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Itawamba County									
Fulton	16	1400CST 1405CST			0	0	1K		Thunderstorm Wind
									A few trees and power lines were blown down.
Clay County									
West Pt	16	1650CST			0	0	1K		Thunderstorm Wind
									Several trees were knocked down.
De Soto County									
2 E Penton	17	0115CST 0120CST			0	0	1K		Thunderstorm Wind
									A couple of trees were knocked down.
Calhoun County									
Derma	21	0120CST 0330CST			0	0	2K		Flash Flood
									Several houses were flooded after over 6 inches of rain fell in the area.
Lowndes County									
Columbus	21	0545CST 0550CST			0	0	0.05K		Hail (0.88)
Alcorn County									
Corinth	21	1715CST 1845CST			0	0	1K		Flash Flood
									Numerous underpasses were flooded after 5 inches of rain fell in the Corinth area.
Lafayette County									
Oxford	23	1735CST 1740CST			0	0	2K		Thunderstorm Wind
									Part of a building's copper roofing was rolled back. Several trees and power lines were knocked down.
Tishomingo County									
Belmont	23	2000CST 2005CST			0	0	5K		Thunderstorm Wind
									Several houses suffered roof damage. Several trees and power lines were knocked down. Some of the trees damaged a carport and a porch.
Lee County									
Tupelo	27	1645CST 1650CST			0	0	0.02K		Hail (0.75)
De Soto County									
Olive Branch	27	1830CST 1835CST			0	0	10K		Thunderstorm Wind
									Numerous large trees were blown down.
Alcorn County									
Corinth	27	2030CST 2035CST			0	0	10K		Thunderstorm Wind
									A few houses were damaged. Several trees and power lines were knocked down.
Lee County									
Salttillo	28	1805CST 1815CST			0	0	0.01K		Hail (0.75)
<u>MISSISSIPPI, South</u>									
Pike County									
Summit	17	0850CST			0	0	3K		Thunderstorm Wind
									Numerous trees and power lines were downed. Several houses were damaged by fallen trees. A 12 foot door was blown in at a business and several trucks were damaged.
Pike County									
Summit	17	0850CST			0	0	2K		Lightning
									Lightning struck a house damaging the electrical system which resulted in a fire when electrical service was re-established.
Walthall County									
6 S Tylertown	17	2015CST			1	0	10K		Thunderstorm Wind
									The Sheriff's Office reported that an oak tree fell on a passing automobile killing a 6 month old infant. FIVE
Hancock County									
Diamondhead	19	0955CST			0	0			Hail (1.75)
									The police department reported golfball size hail.
Harrison County									
Biloxi	23	1430CST			0	0			Hail (1.00)
									Quarter size hail was reported by radio station personnel.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, South</u>							
Harrison County							
Biloxi	23	1430CST			0 0	8K	Thunderstorm Wind
	Thunderstorm winds damaged several business's roofs and downed trees. Fallen limbs damaged a few automobiles.						
Hancock County							
Bay St Louis	26	1000CST			0 0	2.8K	Lightning
	Lightning struck the Sheriff's Office communication center causing extensive damage to equipment.						
<u>MISSISSIPPI, Southeast</u>							
George County							
10 S Lucedale	17	1445CST 1446CST			0 0	1K	Tstm Wind/Hail
	A couple of trees were blown down near MS HWY 63 about 10 miles south of Lucedale. An observer estimated the wind speeds at 45 to 50 mph. One of the trees fell across a mobile home and damaged it. Lightning also struck the home.						
Perry County							
New Augusta	18	0530CST 0532CST			0 0	2K	Thunderstorm Wind (G50)
	Several large limbs were blown down along MS HWY 29 just north of New Augusta. A bridge was damaged due to undermining from a swollen creek. The road across the creek was temporarily closed until the water receded.						
Stone County							
Wiggins	18	0545CST 0547CST			0 0	1K	Thunderstorm Wind (G50)
	Several trees were blown down in the community of Wiggins.						
George County							
Lucedale	20	1815CST 1817CST			0 0	1K	Thunderstorm Wind (G50)
	Several trees were blown down southeast of Lucedale.						
<u>MISSOURI, East</u>							
Franklin County							
Pacific	06	1655CST			0 0		Hail (0.75)
	Pacific police reported 3/4 inch hail.						
Gasconade County							
Drake	06	1655CST			0 0		Hail (0.75)
	County sheriff reported 3/4 inch hail.						
Gasconade County							
Owensville	06	1705CST			0 0	1M	Hail (2.00)
	Hail up to 2 inches in diameter pounded parts of Owensville. Initial reports estimated the damage to be at least 1 million. The storm cut a relatively narrow swath from the industrial park on the north side to town, then to the south-southeast through Memorial Park and the Oak Brook Subdivision. In the Industrial Park, businesses suffered varying degrees of damage to roofs, vent tops and gutters. Windows were broken at homes including one large window at the Gasconade Manor Nursing Home. At Owensville High School, skylights in the gymnasium roof were cracked and two large air conditioner coils damaged. Numerous vehicles were damaged. Insurance company officials commented that most vehicles had \$2,000 or more in damages.						
Washington County							
Belgrade	13	1540CST			0 0		Thunderstorm Wind (G56)
	County sheriff reported trees down on the east side of Belgrade.						
Washington County							
1 W Caledonia	13	1550CST			0 0		Thunderstorm Wind (G56)
	County sheriff reported trees down on county road 627.						
St. Francois County							
Bismarck	13	1615CST			0 0		Thunderstorm Wind (G56)
	County sheriff reported trees down and some roof shingles blown off on the west side of Bismarck.						
St. Francois County							
Farmington	13	1630CST			0 0		Thunderstorm Wind (G56)
	Farmington police reported large tree limbs down across the city.						
Madison County							
3 N Fredericktown	13	1745CST			0 0		Thunderstorm Wind (G56)
	County sheriff reported some minor wind damage at the Fredricktown airport.						
Jefferson County							
De Soto	21	1820CST			0 0	100K	Thunderstorm Wind (G61)
	County sheriff reported numerous trees and power lines down. About a dozen homes were damaged mainly from the falling trees. About 10 vehicles were also damaged by the falling trees.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSOURI, East									
Washington County Old Mines	21	1912CST			0	0			Thunderstorm Wind (G52)
	County sheriff reported trees down.								
Franklin County Countywide	22	0000CST 0330CST			0	0			Flash Flood
Jefferson County Countywide	22	0000CST 0330CST			0	0			Flash Flood
Warren County Countywide	22	0000CST			0	0			Flash Flood
Washington County Countywide	22	0000CST 0330CST			0	0			Flash Flood
	Rainfall of 3 to 5 inches caused widespread flash flooding across the area. The Franklin County sheriff reported Highway H closed with the Boone Bridge underwater. Numerous county roads went underwater in Jefferson County, with one rescue needed after a pick-up truck was swept off a road by a flooded creek. In Potosi, Washington County, some homes had to be evacuated due to the flooding of a creek in town. The Red Cross opened an emergency shelter over the weekend. In Warren County, small creeks rose over their banks flooding county roads.								
Crawford County Countywide	22	0100CST 0700CST			0	0			Flash Flood
	Rainfall of 3-5 inches caused flash flooding across the county. Creeks rose over their banks flooding many county roads. Campers along the Meramec River in Meramec State Park had to be evacuated due to the rising water.								
Callaway County Countywide	22	0200CST 0700CST			0	0			Flash Flood
Montgomery County Countywide	22	0200CST 0700CST			0	0			Flash Flood
	Rainfall of 3 to 4 inches washed out some county roads and caused small streams to rise over their banks. Bear Creek south of Big Spring in Montgomery rose over its banks flooding county roads.								
Audrain County Countywide	22	0300CST 0700CST			0	0			Flash Flood
	Rainfall of 3 to 4 inches flooded many county roads.								
Gasconade County Countywide	22	0400CST 0800CST			0	0			Flash Flood
Monroe County Countywide	22	0400CST 0800CST			0	0			Flash Flood
	Rainfall of 2 to 4 inches caused flash flooding across the area. Frene Creek in Herman rose over its banks flooding a city park. Street flooding was reported in Owensville.								
Boone County Countywide	22	0500CST 0730CST			0	0			Flash Flood
Cole County Countywide	22	0500CST 0730CST			0	0			Flash Flood
	Rainfall of 3 to 4 inches caused flash flooding, primarily across eastern Boone County and in the Jefferson City area. Several homes had to be evacuated in Jefferson City by the Fire Department due to a flooding creek.								
MOZ064 St. Louis (C)	25	0000CST 2300CST			1	0			Excessive Heat
	A man was found dead on June 25, 1997, with hyperthermia as the probable cause of death. The man had not been seen since 6/20/97. High temperatures during the dates in question had been in the lower to middle 90s. M57PH								
St. Genevieve (C) St Marys	25	1830CST			0	0			Thunderstorm Wind (G50)
	Winds gusts downed a couple of small trees in the city park.								

Storm Data and Unusual Weather Phenomena

June 1997

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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MISSOURI, East

**Jefferson County
Countywide**

27	1530CST				0	0			Flash Flood
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**St. Francois County
Countywide**

27	1530CST				0	0			Flash Flood
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2 to 3 inches of rain in just a little over an hour caused scattered flash flooding across southern Jefferson and primarily the north half of St. Francois counties. Highway E in Jefferson County became impassable. Street flooding was reported in Park Hills and Desloge in St. Francois County.

**Pike County
Countywide**

29	1545CST				0	0			Flash Flood
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2 to 3 inches of rain flooded roads across the county. Highway 79 was flooded in places as was Route D. Route NN south of Louisiana also flooded.

MISSOURI, Lower

NONE REPORTED.

MISSOURI, Northwest

MOZ020-038>039-054 Buchanan - Lafayette - Saline - Henry

01	0000CST				0	0			Flood
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30 2359CST
Minor river flooding occurred along the Missouri River and South Grand River during June.

Missouri River

St. Joseph, MO

Flood Stage	17 ft		
Above Flood Stage	6/1 to 6/18	6/22 to 6/30	
Crest	20.97 ft on 5/3	20.84 ft on 6/26	

Napoleon, MO

Flood Stage	17 ft		
Above Flood Stage	6/1 to 6/2	6/26 to 6/30	
Crest	17.77 ft on 5/31	17.72 on 6/28	

Waverly, MO

Flood Stage	20 ft		
Above Flood Stage	6/1 to 6/2	6/26 to 6/30	
Crest	20.66 ft on 5/31	20.67 ft on 6/27	

Miami, MO

Flood Stage	18 ft		
Above Flood Stage	6/27		
Crest	Estimated 18 ft		

South Grand River

Urich, MO

Flood Stage	24 ft		
Above Flood Stage	6/1 to 6/2	6/16 to 6/18	
Crest	27.95 ft on 5/28	26.3 ft on 6/16	

**Jackson County
1 E Oak Grove**

13	1540CST	0.1	25	0	0	5K	Tornado (F0)
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An F0 tornado briefly touched down a mile east of Oak Grove. A Jackson County resident saw and reported the tornado. Damage was done to aluminum siding of a house and 3 to 4 inch diameter trees were knocked down at their base.

**Atchison County
Tarkio**

21	0100CST			0	0	30K	Thunderstorm Wind
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Severe thunderstorm winds knocked down large trees, 6 inches or more in diameter, into utility lines in Tarkio.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
MISSOURI, Northwest							
Nodaway County							
Elmo	21	0105CST			0 0	20K	Thunderstorm Wind
The Nodaway County sheriff's office reported large trees blown down in Elmo.							
Randolph County							
Moberly	22	0315CST			0 0		Flash Flood
The Moberly Police Department reported numerous stalled cars from street flooding.							
Chariton County							
4 SE Brunswick	22	0800CST 1000CST			0 0		Urban/Sml Stream Fld
Up to 3.5 inches of rain fell during thunderstorms. This rainfall resulted in a 4 to 5 inch build up of water on a roadway one to two miles south of Route 24. The road flooding occurred 4 miles southeast of Brunswick.							
Saline County							
1.5 S Slater	22	2130CST			0 0		Urban/Sml Stream Fld
Heavy rains during thunderstorms caused road flooding along Route 240 a mile and a half south of Slater.							
Holt County							
1 N Mound City	29	2050CST			0 0		Flash Flood
Water covered roadways a mile north of Mound City. The Holt County Sheriff's office reported that mud had to be cleared from the several roads. One to two inches of rain fell during the thunderstorms that caused the flooding.							
Pettis County							
Green Ridge	28	1700CST 1900CST			0 0		Urban/Sml Stream Fld
Heavy rain from slow moving thunderstorms resulted in a foot of water building over Highway 127 and Route B.							
Atchison County							
Tarkio	28	2115CST			0 0		Hail (1.25)
Half dollar-size hail was reported by the sheriff's office in Tarkio. The same severe thunderstorm that produced the large hail in Tarkio dropped over 3 inches of rain in various other sections of the county. A University of Missouri agricultural weather station measured 3.33 inches of rain in one hour at Nishnabotna.							
MISSOURI, Southeast							
MOZ087							
Cape Girardeau							
	01	0001CST			0 0		Flood
	02	2200CST					
The Mississippi River crested only about 6 inches above flood stage at Cape Girardeau. Minor flooding of agricultural bottomland was the main effect.							
New Madrid County							
La Forge	05	1700CST			0 0		Funnel Cloud
The New Madrid Police Department sighted several funnel clouds near LaForge. The funnels were not associated with strong or severe thunderstorms.							
Mississippi County							
Dorena	13	1600CST			0 0		Thunderstorm Wind (G52)
A spotter reported trees were down.							
Ripley County							
Pine	13	1630CST			0 0		Thunderstorm Wind (G50)
Trees were down.							
Perry County							
3 W Brewer to 6 SW Brewer	13	1730CST 1830CST			0 0		Thunderstorm Wind (G50)
A severe thunderstorm moved into western Perry County, downing trees in a swath from the western county line into Brewer. After this cell weakened and moved east, another cell in a line of storms caused some tree damage in western Perry County south of Brewer.							
Wayne County							
Greenville	13	1825CST			0 0		Thunderstorm Wind (G52)
Winds were estimated in excess of 60 MPH.							
Wayne County							
Greenville	13	1825CST			0 1		Lightning
A man who was struck by lightning was burned on the arm and abdomen. He refused treatment for his injuries.							
Bollinger County							
4 S Zalma	13	1835CST			0 0		Hail (1.75)
Butler County							
Poplar Bluff	13	1900CST			0 0		Thunderstorm Wind (G52)
Tree limbs were blown down across the county.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSOURI, Southeast</u>									
Stoddard County									
Advance	13	1902CST			0	0	20K		Hail (1.75)
Stoddard County									
Advance	13	1902CST			0	0	20K		Thunderstorm Wind (G60) The roof was torn off a building.
Scott County									
1 S Salcedo	13	1910CST	0.1	25	0	0			Tornado (F0) A weak tornado briefly touched down in an open field. No damage was reported.
Bollinger County									
Marble Hill	17	0900CST 1230CST			0	0			Flash Flood
Cape Girardeau County									
Jackson to 3 W Cape Girardeau	17	0900CST 1400CST			0	0	10K		Flash Flood Slow-moving showers and thunderstorms dumped heavy rain over southern Bollinger and Cape Girardeau Counties. The heaviest rain, which radar estimated to be around 3 inches, fell between Zalma and Delta. Several primary and secondary roads were water-covered and impassable. In Cape Girardeau County, flooded roads included County Roads 222 and 231, County Road 214 at Williams Creek, and Highway F.
Stoddard County									
Essex	17	1050CST			0	0			Funnel Cloud State troopers and trained spotters reported a funnel cloud. This was one of numerous funnel clouds that occurred throughout the day and into the evening. A couple of brief touchdowns occurred, but they were not associated with any reported damage. The funnels developed from non-severe thunderstorms in a weakly sheared environment.
Stoddard County									
1 N Essex	17	1145CST 1245CST	0.2	30	0	0			Tornado (F0) A weak tornado briefly touched down in an open farm field. No damage occurred. Numerous funnel clouds were reported on this day, several of which briefly touched down. The funnels were associated with non-severe thunderstorms.
Butler County									
5 W Quilin to 4.5 W Quilin	17	1830CST 1832CST	0.5	30	0	0			Tornado (F0) Law enforcement personnel reported a funnel cloud briefly touched ground in open country. No damage was reported. Numerous funnel clouds were reported during the day, none of which were spawned by severe thunderstorms.
Perry County									
Longtown	21	2030CST			0	0			Funnel Cloud Two spotters observed the funnel cloud near Highway 61.
Stoddard County									
Essex	22	0300CST 0400CST			0	0			Flash Flood Radar estimated that about 4 inches of rain fell in two hours in a small part of eastern Stoddard County. A road was underwater.
Carter County									
Fremont to Ellsinore	28	1430CST 1600CST			0	0			Flash Flood A cluster of thunderstorms with torrential rain produced around 2 inches per hour, according to radar estimates near Fremont. Another storm developed near Ellsinore and remained stationary for a couple of hours, producing an estimated 3 to 4 inches of rain,
Mississippi County									
Wyatt	28	1900CST 2000CST			0	0			Flash Flood Radar estimated between 2 and 3 inches of rain fell in an hour in a small part of Mississippi County.
<u>MISSOURI, Southwest</u>									
Pulaski County									
Waynesville	06	1605CST			0	0			Hail (1.00)
Laclede County									
5 E Lebanon	06	1720CST			0	0			Hail (0.88)
Newton County									
Neosho	12	0430CST			0	0	0	0	Flash Flood Heavy rainfall caused flooding of streets and low lying areas throughout the county.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSOURI, Southwest									
Barry County Cassville	12	0600CST			0	0	0	0	Flash Flood
	Heavy rainfall caused street flooding.								
Texas County 8 S Tyrone	12	0800CST			0	0	0	0	Flash Flood
	Heavy rainfall caused flooding of several low water bridges off Highway 137, south of Tryone.								
Vernon County 2 S Walker	13	0300CST			0	0	0.50K	0	Thunderstorm Wind
	A small metal shed was blown down by thunderstorm winds.								
Newton County Seneca	13	0325CST			0	0	0	0	Thunderstorm Wind
	Thunderstorm winds downed a large tree.								
Newton County 5 E Neosho	13	0335CST			0	0			Hail (0.75)
Jasper County Carthage	13	0335CST			0	0	0	0	Thunderstorm Wind
	A utility pole was blown down by thunderstorm winds.								
Oregon County Thomasville	13	0340CST			0	0			Hail (0.75)
Mcdonald County Pineville	13	0345CST			0	0	5K	0	Thunderstorm Wind
	Thunderstorm winds downed numerous trees and power lines across the county.								
Vernon County 8 S Nevada	13	0345CST			0	0	0	0	Thunderstorm Wind
	Thunderstorm winds downed a large tree.								
Barton County Lamar	13	0400CST			0	0	0	0	Thunderstorm Wind
	Tops of trees were broken off by strong thunderstorm winds.								
Cedar County Cedar Springs	13	0400CST			0	0	0	0	Thunderstorm Wind
	Thunderstorm winds downed large tree limbs.								
St. Clair County Tiffin	13	0410CST			0	0	2K	0	Thunderstorm Wind
	Thunderstorm winds caused minor damage to a roof.								
Dallas County Buffalo	13	0445CST			0	0			Hail (0.75)
Polk County 2 N Half Way	13	0450CST			0	0	0	0	Thunderstorm Wind (G52)
Greene County Walnut Grove	13	0500CST			0	0	0	0	Thunderstorm Wind
	Thunderstorm winds downed large tree limbs.								
Taney County Branson	13	0530CST			0	0	0	0	Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

June 1997

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									
			Thunderstorm winds downed trees along Foggy River Road.						
Wright County 5 S Grovespring	13	0530CST			0	0	0	0	Thunderstorm Wind
			Thunderstorm winds downed trees.						
Laclede County Lebanon	13	0555CST			0	0	0	0	Thunderstorm Wind
			Thunderstorm winds downed a large tree.						
Camden County Roach	13	0600CST			0	0	0	0	Thunderstorm Wind
			Thunderstorm winds downed a large tree across Highway AA.						
St. Clair County Taberville	13	0600CST			0	0	0	0	Flash Flood
			Heavy rain caused brief flooding of low water crossings along Highway H.						
Wright County Grovespring	13	0630CST			0	0	0	0	Flash Flood
			Heavy rainfall caused flooding of low water bridges in the area.						
Oregon County Rover	13	1520CST			0	0			Hail (1.00)
Dent County Salem	13	1715CST			0	0	0	0	Flash Flood
			One to two inches of rain falling on already saturated ground caused flooding of low lying areas across the county.						
Greene County Republic	16	0320CST			0	0	15K	0	Thunderstorm Wind (G60)
			Strong winds along the leading edge of thunderstorms flipped an empty trailer on its side in the Wal-Mart parking lot and damaged the store's greenhouse. Winds also blew down limbs up to eight inches in diameter causing some minor roof damage to homes. In addition, a commercial greenhouse two miles west of town sustained minor damage.						
Greene County Springfield	16	0330CST			0	0	40K	0	Thunderstorm Wind (G70)
			Strong winds along the leading edge of thunderstorms caused damage to homes in the Park West Village subdivision in the southwest part of the city. Two homes sustained moderate damage with vinyl siding, shingles, and sections of plywood ripped off the exterior of the homes. A fence was blown down with numerous trees and mailboxes also blown down.						
Cedar County El Dorado Springs	16	2110CST			0	0	0	0	Flash Flood
			Heavy rainfall caused street flooding.						
Vernon County Milo	16	2135CST			0	0			Hail (0.88)
Vernon County 5 S Nevada	16	2200CST			0	0	0	0	Flash Flood
			Heavy rainfall caused minor low lying flooding.						
Barton County 10 W Lamar	17	1430CST			0	0	0	0	Flash Flood
			Heavy rainfall caused flooded sections of county roads in the western part of the county.						
Maries County Vienna	17	1500CST			0	0	0	0	Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

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									
									Heavy rainfall flooded portions of county road 640 near town.
Christian County									
Ozark	17	1500CST			0	0	0	0	Flash Flood
									Heavy rainfall caused street flooding and of low lying areas.
Maries County									
Belle	22	0600CST			0	0	0	0	Flash Flood
									3.50 inches of rain fell during the early morning hours causing street flooding.
Vernon County									
Nevada	25	1520CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed numerous trees and power lines along Country Club Drive.
Greene County									
Springfield	25	1655CST			0	0	0	0	Thunderstorm Wind (G52)
									Thunderstorm winds downed trees in scattered locations in central and south parts of the city.
Maries County									
Vienna	25	1700CST			0	0			Flash Flood
									Rainfall of up to three inches caused street flooding.
Vernon County									
4 N Walker	25	1800CST			0	0			Flash Flood
									Heavy rainfall of up to two inches caused flooding along Highway C, 4 miles north of Walker.
Benton County									
Warsaw	25	1900CST			0	0			Flash Flood
									Heavy rainfall of up to two inches caused flooding of Hwy 65, 4 miles north and south of Warsaw.
Greene County									
Springfield	26	1753CST			0	0	0	0	Thunderstorm Wind (G50)
									Thunderstorm winds downed 4 inch diameter tree limbs near Plainview and National Ave.
Greene County									
Springfield	26	1805CST			0	0			Flash Flood
									Heavy rainfall of up to two inches in less than an hour caused street flooding across the central and southern sections of the city.
Christian County									
Ozark	26	1905CST			0	0			Flash Flood
									Heavy rainfall of over two inches in less than an hour produced street flooding in the city.
Stone County									
6 NW Branson	27	1250CST			0	0			Hail (1.00)
Christian County									
Clever	27	2108CST			0	0			Hail (0.88)
Newton County									
Neosho	28	0713CST			0	0	0	0	Flash Flood
									Two inches of rain fell in less than an hour producing street flooding.
McDonald County									
Anderson	28	1100CST			0	0	0	0	Flash Flood
									Heavy rainfall caused flooding along Indian Creek to the northeast of Anderson.
Miller County									
Eldon	28	1600CST			0	0	0	0	Flash Flood
									Heavy rainfall of between two and three inches caused flooding in low water crossings across northwest sections of the county.

Storm Data and Unusual Weather Phenomena

June 1997

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

Camden County

2 SW Osage Beach

28 1600CST
0 0 0 0 **Flash Flood**
Three inches of rain fell in a one and a half hour period causing flooding of low water bridges and low lying areas.

Morgan County

Gravois Mills

28 1615CST
0 0 0 0 **Flash Flood**
Heavy rainfall with rates of two inches per hour flooded many low water crossings and low lying areas in the county. A mobile home park in Gravois Mills had to be evacuated due to rising water.

Dade County

1 N Everton

29 1517CST
0 0 **Hail (0.75)**

Barton County

Lamar

29 2000CST
0 0 0 0 **Flash Flood**
Heavy rainfall of two inches in an hour caused flooding of streets and low lying areas in the towns of Lamar, Liberal and Burgess.

Vernon County

Nevada

29 2043CST
0 0 0 0 **Flash Flood**
Heavy rainfall of two inches in an hour caused flooding of numerous roads and streets in the Nevada and Walker areas.

Newton County

Neosho

29 2245CST
0 0 0 0 **Flash Flood**
One inch of rain in less than an hour caused street flooding.

MONTANA, Central

Lewis And Clark County

4 W Augusta

04 1700MST
0 0 **Hail (1.75)**

Teton County

Choteau

04 1742MST
0 0 **Hail (0.75)**

Teton County

11 NE Choteau

04 1755MST
0 0 **Hail (0.75)**

Teton County

Choteau

04 1757MST
0 0 **Hail (1.25)**

Teton County

15 NE Dutton

04 1825MST
0 0 **Hail (0.75)**

Pondera County

20 E Conrad

04 1910MST
0 0 **Thunderstorm Wind (G51)**

Lewis And Clark County

Helena

06 1423MST
0 0 **Hail (1.00)**

Lewis And Clark County

Helena Arpt

06 1430MST
0 0 **Hail (1.25)**

Lewis And Clark County

3 N Helena

06 1435MST
0 0 **Hail (3.00)**

Chouteau County

10 S Geraldine

06 1540MST
0 0 **Hail (2.75)**

Cascade County

11 S Eden

06 1543MST
0 0 **Hail (2.00)**

Cascade County

11 S Eden

06 1543MST
0 0 **Thunderstorm Wind (G52)**

Cascade County

9 NW Monarch

06 1600MST
0 0 **Hail (2.75)**

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, Central</u>									
Chouteau County 13 E Geraldine	06	1610MST			0	0			Hail (1.75)
Chouteau County 15 E Geraldine	06	1613MST			0	0			Hail (2.50)
Blaine County Turner	06	1630MST			0	0			Thunderstorm Wind (G54)
Judith Basin County 2 NW Raynesford	06	1700MST			0	0			Thunderstorm Wind (G69)
Judith Basin County 5 W Raynesford	06	1706MST			0	0			Hail (1.75)
Judith Basin County 5 W Raynesford	06	1706MST			0	0			Thunderstorm Wind (G61)
Chouteau County 2 NW Warrick	06	1715MST			0	0			Hail (0.75)
Fergus County 8 N Denton	06	1735MST			0	0			Hail (1.75)
Chouteau County 13 E Geraldine	06	1745MST			0	0			Hail (1.75)
Chouteau County Iliad	06	1755MST			0	0			Hail (1.75)
Fergus County 10 E Lewistown	06	1948MST	0.1	20	0	0			Tornado (F0)
		BRIEF TOUCHDOWN							
MTZ012		Cascade/Eastern Teton/Judith Basin							
	09	0800MST			0	0			Flood
	27	0800MST							
		Widespread lowland flooding with hundreds of acres of grain destroyed. Six families evacuated homes.							
Chouteau County 6 N Big Sandy	15	1802MST			0	0			Hail (0.75)
Judith Basin County 10 SW Utica	16	1730MST			0	0			Flash Flood
		SEVERAL GRAVEL ROADS WASHED OUT							
Gallatin County 12 SSW Bozeman	18	1700MST			0	0			Hail (0.75)
Lewis And Clark County Helena	27	1815MST	0.1	10	0	0	2K		Tornado (F0)
Cascade County Cascade	28	1715MST			0	0			Hail (1.25)
Cascade County Great Falls	28	1752MST			0	0			Hail (0.75)
Cascade County Great Falls	28	1806MST			0	0			Hail (1.25)
Judith Basin County Hobson	29	1602MST			0	0			Hail (1.25)
<u>MONTANA, East</u>									
Garfield County Mosby	06	0045MST			0	0			Hail (0.75)
Garfield County 28 E Jordan	06	0700MST 0800MST			0	0	15K		Flash Flood
		Five inches of rain falling in less than 3 hours caused flash flooding along Dead Horse Creek. The gravel road running from Hwy 200 to Hwy 22 had numerous washouts.							
Phillips County 10 E Malta	06	1604MST			0	0			Hail (0.75)
Phillips County 45 S Malta	06	2048MST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MONTANA, East									
Phillips County 10 E Malta	06	2145MST			0	0			Thunderstorm Wind (G52)
Valley County 8 SE Hinsdale	06	2207MST			0	0			Thunderstorm Wind (G50)
Dawson County 10 WSW Glendive	08	1715MST			0	0			Hail (0.75)
Dawson County 14 NW Richey	08	1824MST			0	0			Hail (0.88)
Petroleum County 15 N Cat Creek to 28 N Cat Creek	10	1633MST 2030MST			0	0			Flash Flood
MTZ024>026									
Richland - Dawson - Prairie									
16	18	0915MST 0600MST			0	0			Flood
Snow melt from the mountains in the western portion of the state caused the Yellowstone River to rise. The flooding mainly affected low lying land along the river. Beet fields along the river suffered the most damage.									
Prairie County Terry	18	1615MST			0	0			Hail (0.75)
Prairie County Terry	18	1630MST			0	0			Hail (1.00)
Prairie County 4 E Terry	18	1650MST			0	0			Hail (1.00)
Richland County Sidney	22	1504MST			0	0			Thunderstorm Wind (G53)
Richland County 3 S Sidney	22	1505MST			0	0			Thunderstorm Wind (G71)
Richland County Sidney	22	1510MST			0	0			Hail (0.75)
Richland County Savage	22	1640MST			0	0			Hail (1.00)
Richland County Fairview	22	1719MST			0	0			Hail (0.75)
Mccone County 10 N Circle	22	1750MST			0	0			Hail (0.75)
Dawson County 4 N Lindsay	22	1800MST			0	0			Hail (1.00)
Richland County Sidney	22	1840MST			0	0			Hail (1.75)
Dawson County 5 W Bloomfield	22	1900MST			0	0			Hail (1.00)
Richland County 12 NW Sidney	22	1900MST 2200MST			0	0	10K	250K	Flash Flood
More than 6 inches of rain falling in less than 2 hours caused a total loss of wheat which was pounded by heavy rain or washed away. Rapid runoff caused Hay Creek to rise rapidly and the high flow and velocity took out a bridge on County Road 350. Further downstream the creek washed out a bank causing a telephone pole to be toppled as well as taking out a shed and a propane tank. The resident of the property estimated he lost about 125 square feet of property.									
Dawson County 4 E Bloomfield	22	1910MST			0	0	5K		Hail (1.75)
Richland County Savage	22	1915MST			0	0			Hail (1.00)
Richland County 4 S Savage	22	1955MST			0	0			Hail (1.75)
Richland County 16 W Sidney to 8 NE Lambert	22	2000MST			0	0	5K		Flash Flood

A bridge northeast of Lambert sustained damage due to flash flood waters.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, East</u>									
Dawson County									
10 NW Bloomfield	22	2030MST 2130MST			0	0			Flash Flood
Heavy rain caused wash outs on numerous secondary roads.									
Valley County									
5 S Hinsdale	26	2025MST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds to 60 mph picked up and blew around wind rows of hay.									
Valley County									
8 SW Lustre	26	2105MST			0	0			Thunderstorm Wind (G54)
Roosevelt County									
Bainville	29	1538MST			0	0			Hail (1.00)
Valley County									
17 W Glasgow	29	1908MST			0	0			Thunderstorm Wind (G52)
Valley County									
3 W Wheeler	29	1925MST			0	0			Hail (1.00)
Valley County									
Ft Peck	29	1935MST			0	0			Thunderstorm Wind (G52)
<u>MONTANA, South</u>									
MTZ028-034>035-037									
Wheatland/Park/Sweet Grass - Stillwater/Carbon - Yellowstone/Big Horn - Carter									
01		0000MST			0	0			Flood
30		0000MST							
Record flooding occurred during the month of July across southeast and southcentral Montana during June. Record snowpack...heavy rains and unusually warm temperatures were the reasons for the flooding. Damages from the flooding include the gage house falling into the river near Shawmut on the Musselshell River, low land flooding contributing to road repair totaling more than \$294,000 in Park County, several bridges were washed away in Sweet Grass County, undercutting from high water at the dike in Miles City in Custer County. Along the Yellowstone River in Yellowstone County an estimated 2.2 millions dollars of damages occurred during the month of June, including housing, public utilities, businesses, roads, irrigation districts and companies and county levee and dike systems.									
Sweet Grass County									
5 S Mc Leod	05	1820MST			0	0			Hail (0.75)
Spotter 5 south of McLeod reported 3/4" hail. Ground is white with hail.									
Sweet Grass County									
7 S Mc Leod	05	1820MST 1830MST			0	0			Flash Flood
Sheriffs office in Big Timber reported about 3 inches of rain in 30 minutes. Flash flooding of raod near East Boulder River.									
Wheatland County									
Harlowton	05	1838MST 1842MST			0	0			Hail (1.00)
Wheatland County									
12 SSE Judith Gap to 8 SSE Judith Gap	05	1908MST 1923MST	0	0	0	0			Tornado (F0)
Tornado reported on ground for 15 minutes south of Judith Gap. Length and path width are not know.									
Yellowstone County									
Billings	06	1700MST 1705MST			0	0			Hail (0.75)
Big Horn County									
Decker	07	1930MST			0	0			Flood
Big Horn county DES reports minor washouts of gravel county roads with several creeks out of banks.									
MTZ034									
Stillwater/Carbon									
08		1846MST 2000MST			0	0			Flood
Water covering streets in downtown area of Park City.									
MTZ035									
Yellowstone/Big Horn									
08		2115MST 2300MST			0	0			Flood
Emergency traffic only in downtown billings with most city streets full of water.									
Yellowstone County									
Laurel	17	2230MST 2235MST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

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, South</u>									
Yellowstone County Ballantine	17	2240MST 2245MST			0	0			Thunderstorm Wind (G78)
									strong winds turned over old unused 10,000 gallon gasoline storage tank. Also some plate glass windows blown out of truck stop.
Yellowstone County Billings	18	1430MST 1435MST			0	0			Hail (0.75)
Yellowstone County Billings Hgts	18	1440MST 1445MST			0	0			Hail (0.88)
Yellowstone County Billings Hgts	18	1440MST 1445MST			0	0			Hail (0.75)
Yellowstone County Lockwood	18	1505MST 1509MST			0	0			Funnel Cloud
Big Horn County 12 N Hardin to Hardin	18	1545MST 1550MST			0	0			Hail (0.75)
Big Horn County Kirby	18	1736MST 1740MST			0	0			Hail (0.88)
Fallon County 20 N Baker	18	1754MST 1759MST			0	0			Thunderstorm Wind (G52)
Yellowstone County Billings	18	1950MST 2000MST			0	0			Hail (0.88)
Yellowstone County Billings	18	1950MST 1955MST			0	0			Hail (1.75)
Yellowstone County Billings	18	1955CST 2000CST			0	0			Hail (1.00)
Yellowstone County Billings	18	2021MST 2025MST			0	0			Hail (0.88)
Treasure County 5 SE Hysham	18	2030MST 2035MST			0	0			Funnel Cloud
									Sheriff reported funnel cloud.
Big Horn County Hardin	18	2050CST 2055CST			0	0			Hail (0.75)
Rosebud County 4 N Rosebud	18	2100MST 2105MST			0	0			Hail (0.75)
Big Horn County Crow Agency	18	2105MST 2110MST			0	0			Hail (0.75)
Rosebud County 3 W Rosebud	22	1855MST 1900MST			0	0			Hail (0.88)
Big Horn County Hardin to Fort Smith	28	1555MST 1600MST			0	0			Hail (0.75)
Big Horn County Wyola	28	1700MST 1705MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1997

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, South</u>									
Big Horn County 20 SW St Xavier to St Xavier	28	1815MST 2020MST			0	0			Thunderstorm Wind (G52)
Powder River County Broadus	28	1915MST 1920MST			0	0			Thunderstorm Wind (G52)
Powder River County Broadus	28	1915MST 1922MST			0	0			Thunderstorm Wind (G52)
Musselshell County Melstone	28	2035MST 2040MST			0	0			Thunderstorm Wind (G51)
Wheatland County Harlowton	29	1555MST 1610MST			0	0			Funnel Cloud
		funnel cloud reported by sheriff.							
Wheatland County Harlowton	29	1605MST 1615MST			0	0			Hail (1.00)
Rosebud County Ingomar	29	1624MST			0	0			Hail (1.00)
Treasure County Bighorn	29	1704MST 1720MST			0	0			Funnel Cloud
		funnel cloud reported by public went up and down several times.							
Yellowstone County Laurel	29	1745MST 1747MST			0	0			Thunderstorm Wind (G52)
Musselshell County Roundup	29	1817MST 1825MST			0	0			Hail (1.00)
Musselshell County Roundup	29	1830MST 1836MST			0	0			Hail (1.25)
Rosebud County Colstrip	29	1832MST 1835MST			0	0			Hail (1.50)
Custer County Volborg	29	1930MST 1935MST			0	0			Thunderstorm Wind (G57)
Powder River County 4 NW Broadus	29	2240MST 2243MST			0	0			Hail (1.00)
Powder River County Broadus	29	2252MST 2258MST			0	0			Hail (1.00)
		hail was in drifts.							
Carter County 20 S Ekalaka	29 30	2350MST 2355MST			0	0			Hail (0.75)
<u>MONTANA, West</u>									
MTZ002		West Glacier/Bob Marshall Region							
	01	0600MST 1600MST			0	0			Flood
		Rain from overnight thunderstorms flooded the North Fork of Flathead River. Water was over roads with several cabins flooded.							
MTZ004		Lower Clark Fork/Bitterroot Mountains							
	03	0800MST 1600MST			0	0			Flood
		Continued flooding from snowmelt in the Clark Fork River caused flooding in basements and high ground water in Plains, while East River Road and Vermillion Road saw erosion.							

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Powell County									
Garrison	04	1640MST 1645MST			0	0			Hail (1.25)
									One to one and a quarter inch hail from a thunderstorm, with one report of a broken window...in Garrison to 5 miles northwest of there.
MTZ005									
Missoula/Bitterroot Valleys									
	06	0000MST			0	0			Flood
	13	2359MST							Due to continued flooding from the Clark Fork River from snowmelt runoff and high ground water, numerous health warnings were posted in Mullan Trail subdivision near Missoula, affecting 82 homes with contaminated ground water and flooded basements.
Deer Lodge County									
Warm Spgs	06	1330MST			0	0			Lightning
									Lightning struck the Opportunity Store and started a fire, and they received alot of hail of unknown size with it.
Silver Bow County									
Butte	12	1322MST 1330MST			0	0			Funnel Cloud
									Several reports of a funnel cloud were received, and one video was taken showing a long rope-like funnel.
Lake County									
Ronan	13	1900MST			0	0			Funnel Cloud
									Funnel cloud reported, 5 miles south of Ronan.
Deer Lodge County									
Anaconda	14	0900MST 1000MST			0	0			Urban/Sml Stream Fld
									Low lying flooding caused by thunderstorm rain, washed out several culverts and closed Houser Ave in Anaconda.
<u>NEBRASKA, Central</u>									
Keith County									
Paxton	11	1410MST			0	0			Hail (0.75)
Keya Paha County									
3 SSW Springview	11	1505CST			0	0			Hail (1.50)
Lincoln County									
8 SSE North Platte	11	1545CST			0	0			Hail (1.00)
Lincoln County									
15 SSW North Platte	11	1600CST			0	0			Hail (0.75)
Custer County									
10 NW Sargent	11	1620CST			0	0			Hail (1.00)
Loup County									
2 SSE Taylor	11	1625CST			0	0			Hail (0.88)
Lincoln County									
6 NNE Wellfleet	11	1630CST			0	0			Hail (1.00)
Custer County									
12 NE Sargent	11	1640CST			0	0			Hail (1.50)
Lincoln County									
12 E Wellfleet	11	1650CST			0	0			Hail (1.75)
Lincoln County									
15 S Brady	11	1700CST			0	0			Hail (1.00)
Frontier County									
6 ENE Curtis	11	1708CST			0	0			Hail (0.75)
Frontier County									
8 NNE Stockville	11	1715CST			0	0			Hail (1.00)
Frontier County									
Moorefield	11	1725CST			0	0	6M		Hail (1.75)
Frontier County									
1 N Curtis	11	1726CST			0	0			Hail (0.88)
Brown County									
7 E Ainsworth	11	1730CST			0	0			Hail (0.75)
Rock County									
6 W Bassett	11	1735CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Frontier County 8 SE Stockville	11	1805CST			0	0			Hail (0.75)
Frontier County 10 SE Stockville	11	1820CST			0	0	35K		Thunderstorm Wind
					Thunderstorm winds blew over a center pivot irrigation system 3 miles north of Medicine Creek Dam.				
Holt County 12 SW Atkinson	11	1912CST			0	0			Hail (0.75)
Holt County 6 ENE Chambers	11	2018CST			0	0			Hail (0.75)
Sheridan County 8 SSW Hay Spgs	14	1910MST			0	0			Hail (0.88)
Deuel County 4 S Chappell	14	1930MST			0	0			Hail (1.00)
Cherry County 40 SSW Merriman	15	1320MST			0	0			Hail (0.75)
	17	1320MST							
Cherry County 50 SSE Merriman	15	1420MST			0	0			Hail (1.00)
Cherry County 14 SW Brownlee	15	1500MST			0	0			Hail (1.00)
Thomas County 3 NE Thedford	15	1630CST			0	0			Hail (0.75)
Blaine County 3 SW Dunning	15	1715CST			0	0			Hail (0.75)
Custer County 13 NW Anselmo	15	1725CST			0	0			Hail (1.00)
Custer County Anselmo	15	1730CST			0	0	70K	1M	Hail (1.75)
					Large hail and thunderstorm winds damaged young growing corn and blew over center pivot irrigation systems.				
Custer County 3 E Westerville	15	1820CST			0	0	15K		Hail (2.75)
					Large wind driven hail broke windows and caused roof damage in homes.				
Cherry County 5 S Sparks	18	1625CST			0	0			Hail (1.50)
Keya Paha County 6 NW Norden	18	1700CST			0	0			Hail (0.75)
Keya Paha County 21 NW Springview	18	1720CST			0	0			Hail (0.88)
Perkins County 10 NNE Venango	18	1735MST			0	0			Hail (0.75)
Keya Paha County Springview	18	1740CST			0	0			Hail (1.00)
Keya Paha County 16 SE Springview	18	1820CST			0	0			Hail (1.00)
Rock County 8 N Newport	18	1845CST			0	0			Hail (1.00)
Rock County 22 S Newport	18	1905CST			0	0			Hail (1.00)
Holt County 10 NW Atkinson	18	1920CST			0	0			Hail (0.88)
Holt County 5 SSW Amelia	18	2020CST			0	0			Hail (1.00)
Holt County Chambers	18	2045CST			0	0			Hail (1.75)
Sheridan County White Clay	19	1455MST			0	0			Hail (1.00)
Sheridan County 6 N Gordon	19	1515MST			0	0	250K		Hail (1.25)
					Thunderstorm winds in excess of 60 mph damaged roofs and blew a tree over which landed on a parked vehicle in the town of				

Storm Data and Unusual Weather Phenomena

June 1997

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									
Gordon.									
Cherry County 8 S Merriman	19	1530MST			0	0			Hail (0.75)
Cherry County 51 SSE Merriman	19	1605MST			0	0			Hail (1.00)
Cherry County 23 W Brownlee	19	1630MST			0	0			Hail (0.75)
Perkins County 2 N Grant	19	1714MST			0	0			Hail (1.00)
Perkins County 5 WNW Madrid	19	1730MST			0	0			Hail (0.75)
Holt County 12 N Stuart	19	1900CST			0	0			Hail (0.75)
Holt County 3 N Chambers	19	1920CST			0	0			Hail (1.00)
Holt County 9 NW Ewing	19	1944CST			0	0			Thunderstorm Wind (G60)
60 mph thunderstorm winds blew a Winnebago off the road 9 miles northwest of Ewing.									
Lincoln County 4 NE Wellfleet	19	2200CST			0	0			Hail (0.75)
Lincoln County 20 SSE Brady	19	2230CST			0	0			Hail (0.75)
Frontier County 2 W Eustis	19	2240CST			0	0			Hail (0.75)
Sheridan County 11 NW Antioch	20	1530MST			0	0			Hail (1.75)
Sheridan County 14 N Antioch	20	1640MST			0	0			Hail (0.88)
Arthur County 13 ENE Arthur	20	1740MST			0	0			Hail (1.75)
Mpherson County 12 W Tryon	20	1900CST			0	0			Hail (3.50)
Mpherson County 5 NE Tryon	20	1930CST			0	0	6K		Hail (0.88)
Thunderstorm winds blew down large tree branches in Tryon.									
Lincoln County 10 W North Platte	20	1940CST			0	0			Hail (1.00)
Logan County 2 SW Stapleton	20	1955CST			0	0			Hail (0.88)
Thomas County 17 S Seneca	20	1955CST			0	0			Hail (0.75)
Logan County 12 E Stapleton	20	2012CST			0	0	10K	400K	Hail (0.88)
A fast developing thunderstorm brought torrential rain, hail and high winds which damaged several thousand acres of crops.									
Blaine County 6 NW Dunning	20	2030CST			0	0			Hail (0.75)
Custer County Callaway	20	2039CST			0	0			Thunderstorm Wind (G60)
Perkins County 2 S Venango	20	2050MST			0	0			Hail (0.75)
Lincoln County 12 NE Wellfleet	20	2130CST			0	0			Hail (0.88)
Lincoln County 9 NNE Wellfleet	20	2200CST			0	0			Hail (0.88)
Hayes County 8 ENE Hamlet	20	2230CST			0	0			Hail (0.88)
Sheridan County 6 N Rushville	21	2140MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Sheridan County									
Gordon	21	2150MST			0	0	750K		Hail (1.00)
Keya Paha County									
21 WSW Springview	22	0500CST			0	0			Hail (1.75)
Perkins County									
Perkins	15	0010MST 0220MST			0	0	50K		Flash Flood
Chase County									
Chase	15	0030MST 0240MST			0	0	50K		Flash Flood
Thunderstorms moving slowly along the same path produced rainfall in excess of four inches which caused flash flooding along Sandraw and Horse Creeks in Chase and Perkins counties. Some roads were reported covered with water with several washouts on county roads.									
Holt County									
4 NNE Stuart	18	1915CST			0	0	30K		Thunderstorm Wind
Thunderstorm winds blew over a center pivot irrigation system.									
Sheridan County									
White Clay	24	2315MST			0	0	2K		Thunderstorm Wind
Large tree branches blown down.									
Garden County									
7 ENE Oshkosh	25	1410MST			0	0			Hail (1.75)
Keith County									
19 NNW Brule	25	1410MST			0	0			Hail (1.00)
Keith County									
4 NW Ogallala	25	1422MST			0	0	750K		Hail (1.00)
Keith County									
2 W Ogallala	25	1425MST	0.1	10	0	0			Tornado (F0)
Brief tornado touchdown reported by highway patrol.									
Keith County									
3 N Ogallala	25	1437MST			0	0			Hail (0.75)
Deuel County									
8 E Chappell	25	1510MST			0	0	4M		Hail (2.00)
Perkins County									
6 N Grant	25	1510MST			0	0			Hail (1.00)
Keith County									
4 SE Paxton	25	1515MST			0	0			Hail (1.00)
Perkins County									
4 W Grant	25	1600MST			0	0	14M		Hail (1.00)
Perkins County									
4 SE Elsie	25	1615MST			0	0			Hail (2.00)
Lincoln County									
7 NE Wallace	25	1645CST			0	0	1.5M	1.5M	Hail (1.75)
Thunderstorms with large hail and 60 mph winds damaged crops and property in a path across Southwest Nebraska.									
Hayes County									
18 NW Hayes Center	25	1730CST			0	0	250K		Hail (0.75)
Lincoln County									
Wellfleet	25	1730CST			0	0	1.5M	1.4M	Hail (1.75)
Scattered thunderstorms with large hail and winds in excess of 60 mph destroyed crops and property in a path across Southwest Nebraska.									
Frontier County									
Maywood	25	1750CST			0	0	3M		Hail (1.75)
Extensive tree damage incurred.									
Frontier County									
Curtis	25	1810CST			0	0	300K		Thunderstorm Wind
Wind and hail broke windows throughout Curtis. A center pivot irrigation system was blown over 2 miles northeast of Curtis.									

Storm Data and Unusual Weather Phenomena

June 1997

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									
Frontier County									
Maywood	25	1830CST			0	0	50K		Flash Flood
Heavy thunderstorm rains produced flash flooding on Medicine Creek and Mitchell Creek which caused damage to roads and agricultural land.									
Frontier County									
6 SE Curtis	25	1840CST			0	0	2K	11M	Thunderstorm Wind
Thunderstorm winds blew a tool shed 100 feet from foundation.									
Rock County									
10 NNW Rose	27	2040CST			0	0			Hail (1.75)
Thomas County									
20 S Seneca	29	0300CST			0	0			Hail (1.75)
Arthur County									
11 NW Arthur	29	2340MST			0	0			Hail (0.88)
Cherry County									
Nenzel	30	1500MST			0	0			Hail (1.50)
Cherry County									
2 SE Wood Lake	30	1651CST			0	0			Hail (1.75)
Brown County									
13 SSW Johnstown	30	1700CST			0	0	1.2M	3.4M	Hail (2.00)
Scattered supercells with winds in excess of 60 mph moved southeast across North Central Nebraska . The severe thunderstorms produced large hail which severely damaged crops and property.									
Brown County									
Johnstown	30	1718CST			0	0			Hail (1.75)
Brown County									
4 WNW Johnstown	30	1720CST			0	0			Hail (1.75)
Brown County									
4 W Ainsworth	30	1754CST			0	0	600K	500K	Hail (1.75)
Cherry County									
30 SW Valentine	30	1800MST			0	0			Hail (0.75)
Brown County									
5 S Ainsworth	30	1819CST			0	0			Hail (1.75)
Brown County									
23 SSE Ainsworth	30	1900CST			0	0	4K		Hail (1.75)
Thunderstorm winds blew down large tree limbs.									
Rock County									
10 NNW Rose	30	1915CST			0	0			Hail (0.75)
Brown County									
22 S Long Pine	30	1940CST			0	0	4K		Hail (1.50)
Thunderstorm winds blew down large tree limbs.									
Brown County									
Long Pine	30	2000CST			0	0	500K		Flash Flood
Flash flooding washed out a bridge near Long Pine. People were evacuated along Long Pine Creek.									
Rock County									
3 W Rose	30	2000CST			0	0			Hail (1.75)
Brown County									
30 S Ainsworth	30	2015CST			0	0			Hail (1.00)
Brown County									
14 S Johnstown	30	2020CST			0	0	4K		Thunderstorm Wind
Thunderstorm winds blew down large tree limbs.									
Blaine County									
6 N Dunning	30	2030CST			0	0			Hail (1.00)
Loup County									
Taylor	30	2030CST			0	0	4K		Thunderstorm Wind
Thunderstorm winds blew down a large tree.									
Loup County									
10 NW Almeria	30	2035CST			0	0			Hail (2.50)
Loup County									
13 W Taylor	30	2052CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Loup County									
10 NW Almeria	30	2057CST			0	0			Hail (2.50)
Custer County									
7 W Comstock	30	2058CST			0	0			Hail (0.75)
Custer County									
4 SW Comstock	30	2115CST			0	0			Hail (1.75)
Loup County									
4 E Taylor	30	2135CST			0	0			Hail (1.75)
Custer County									
6 S Comstock	30	2145CST			0	0			Hail (1.00)
<u>NEBRASKA, East</u>									
NEZ067>068-091-093									
Cass - Otoe - Nemaha - Richardson									
01		0000CST			0	0			Flood
30		2359CST							
Minor flooding along the Missouri river continued as a result of continued high releases from upstream dams.									
Jefferson County									
3 W Fairbury	11	1415CST			0	0	15K		Thunderstorm Wind
Jefferson County									
Endicott	11	1445CST			0	0	4K		Lightning
Lightning struck a storage shed owned by Union Pacific Railroad.									
Jefferson County									
Plymouth to	11	1535CST			0	0	210K	40K	Tstm Wind/Hail
1 SE Plymouth		1536CST							
High winds and hail caused damage in and around Plymouth and just east and southeast of town. Three center pivots were overturned and another was destroyed. Many light poles and tree limbs were downed. One tree fell on a home and damaged the roof. A farm building was severely damaged and a soybean crop was destroyed. A grain bin was blown off its foundation. Windows were broken in a home.									
Gage County									
4 W Beatrice	11	1545CST			0	0			Thunderstorm Wind (G52)
Jefferson County									
3 W Fairbury	11	1550CST			0	0	15K		Thunderstorm Wind
Machine shed destroyed and cattle shed damaged.									
Gage County									
Wymore to	11	1600CST			0	0	23K		Thunderstorm Wind
2 N Wymore		1616CST							
Two grain bins and a sheet metal shed badly damaged. A truck was also damaged when the grain bin went airborne and slammed into it. Numerous tree limbs as large as eight inches in diameter downed.									
Gage County									
1 S Beatrice to	11	1614CST			0	0			Thunderstorm Wind (G50)
Beatrice		1615CST							
Tree limbs and power lines downed. Small hail accumulated to a depth of six inches.									
Gage County									
1 S Liberty	11	1635CST			0	0			Hail (0.75)
Gage County									
Blue Spgs	11	1645CST			0	0	10K		Thunderstorm Wind
Blue Springs cemetery severely damaged. Six large trees downed with many others damaged. Many headstones overturned.									
Douglas County									
3.5 SW Omaha Eppley	11	2156CST			0	1			Lightning
Arpt									
Man struck by lightning while in doorway of home.									
Pawnee County									
Du Bois	15	1720CST			0	0	30K		Thunderstorm Wind
Large cottonwood tree fell on house. Shed and swing set torn out and flipped over.									
Sarpy County									
2 NE Gretna	15	2040CST			0	0			Hail (1.50)
Sarpy County									
2 NNE Gretna	17	2030CST			0	0	2K		Thunderstorm Wind
Numerous trees uprooted as a result of a microburst along Giles Rd. from 192nd to 197th Streets.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
NEBRASKA, East							
Richardson County 2 W Humboldt to Humboldt	19	0800CST			0 0	10K	Thunderstorm Wind (G50)
							Trees downed. Few outbuildings on a farm just west of cemetery damaged.
Antelope County Orchard	19	2020CST			0 0	1K	Thunderstorm Wind
Pierce County 6 SSW Plainview to 6 SW Plainview	19	2020CST			0 0	28K	Lightning
							Lightning struck a home causing damage.
Pierce County Pierce	19	2045CST			0 0		Thunderstorm Wind (G61)
Madison County Norfolk	19	2050CST			0 0	40K	Thunderstorm Wind
							Numerous trees and power lines downed.
Stanton County .5 E Norfolk to 6 NE Norfolk	19	2052CST 2056CST			0 0	20K	Thunderstorm Wind (G74)
							Trees and power lines downed, especially in the Woodland Park housing area on the northeast side of Norfolk. Heavy tree damage and some small outbuildings destroyed.
Wayne County 6 NE Norfolk to 4 E Hoskins	19	2052CST 2056CST			0 0	4K	Thunderstorm Wind (G74)
							Numerous trees and power lines downed. Debris near the intersection of Highways 57 and 35. Cars pushed around.
Stanton County 6 NNE Stanton to Pilger	19	2058CST 2108CST			0 0	16K	Thunderstorm Wind (G62)
							An equipment shed at Pilger Park was crushed by a falling tree. Numerous other trees and power lines were downed. A barn was destroyed by high winds. Power lines were ripped off houses.
Cuming County Wisner to Beemer	19	2108CST 2110CST			0 0	56K	Thunderstorm Wind (G61)
							A roof blown off a building in Wisner. A machine shed and barn destroyed by high winds in Beemer. Numerous trees down. Part of a tree fell on a home near Beemer causing minor damage.
Wayne County 5 W Wayne	19	2115CST			0 0		Thunderstorm Wind (G52)
Cuming County West Pt	19	2120CST			0 0	1K	Thunderstorm Wind (G52)
							Trees down.
Cuming County 3 N West Pt to 3 N Snyder	20	0010CST 0500CST			0 0	15K	Flash Flood
							4.5 to 5 inches of rain fell in a few hours causing widespread flash flooding. Considerable erosion of topsoil in fields occurred and water flowed across some roads. The Alco store in West Point was flooded causing some damage and losses in inventory. An auditorium was also flooded.
Dodge County 3 N Snyder to 1 NW Snyder	20	0010CST 0500CST			0 0		Flash Flood
Dodge County 3 N Fremont	20	1922CST			0 0		Hail (1.75)
Dodge County Snyder	20	2000CST			0 0		Hail (1.00)
Boone County Loretto to Boone	20	2000CST			0 0		Hail (1.50)
Cuming County West Pt	20	2015CST			0 0		Thunderstorm Wind (G53)
							Tree limbs downed.
Cuming County West Pt	20	2019CST			0 0		Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
NEBRASKA, East									
Dodge County 2 N Dodge	20	2030CST			0	0	1K		Hail (1.50)
	Hail broke some windows in a home near the Dodge-Cuming county line								
Cuming County 2 N Dodge	20	2030CST 2045CST			0	0	25K	15K	Hail (2.75)
	Four roofs destroyed by hail on a farm on the Dodge-Cuming county line. Also 20 windows were broken and part of the corn crop was lost as well.								
Dodge County 2 N Dodge to 1.5 N Dodge	20	2030CST			0	0	1K		Thunderstorm Wind (G52)
	Thunderstorm winds blew a door off a machine shed on a farm on the Dodge-Cuming county line.								
Cuming County 2 N Dodge	20	2030CST			0	0	1K		Thunderstorm Wind (G52)
	Thunderstorm winds blew a door off a machine shed on a farm.								
Antelope County 3 N Neligh	20	2034CST			0	0	6K		Thunderstorm Wind
	High winds blew down a large tree which fell on a deck. Also, a center pivot irrigation system was toppled and damaged.								
Antelope County Oakdale	20	2045CST			0	0			Hail (1.75)
Dodge County Fremont	20	2049CST			0	0			Hail (1.75)
Madison County Battle Creek	20	2055CST			0	0			Thunderstorm Wind (G52)
Pierce County Pierce	20	2055CST			0	0			Thunderstorm Wind (G58)
	Few tree limbs downed.								
Cuming County 7 W West Pt	20	2119CST			0	0			Hail (1.75)
Burt County Tekamah	20	2200CST			0	0	50K		Thunderstorm Wind
	Trees downed, two of which fell on houses causing damage. Power lines downed. A minimart convenience store had its roof blown off. Roofs blown off houses.								
Platte County 3 W Columbus	20	2243CST			0	0			Thunderstorm Wind (G52)
Butler County Surprise	20	2245CST			0	0	3K		Thunderstorm Wind
	Full grown trees blown down.								
Seward County Utica	20	2250CST			0	0	2K		Thunderstorm Wind
	Ten inch tree limbs downed.								
Platte County (Olu)Columbus Arpt	20	2253CST			0	0			Thunderstorm Wind (G54)
Butler County David City to Surprise	20	2259CST			0	0	100K		Thunderstorm Wind
	At David City, strong winds collapsed a large airport hanger and toppled at least five center pivots irrigation systems. Trees fell on two homes in the Surprise area causing damage. Severe tree damage occurred at Garrison and Rising City. Many power lines were downed.								
Seward County Utica to Tamora	20	2307CST 2310CST			0	0			Thunderstorm Wind (G52)
	A few windows broken in Tamora by high winds.								
Seward County Milford	20	2308CST			0	0			Thunderstorm Wind (G67)
	Numerous trees and power lines downed.								
Jefferson County Daykin to 5 E Daykin	20	2312CST 2314CST			0	0			Thunderstorm Wind (G52)
	Some tree branches downed.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
NEBRASKA, East									
Seward County 2 S Seward	20	2316CST			0	0	3K		Thunderstorm Wind Several wood pallets blown around by high winds causing damage to vehicles at Metromail parking lot.
Seward County Beaver Crossing	20	2319CST			0	0			Thunderstorm Wind (G70)
Saline County Dorchester	20	2330CST			0	0			Thunderstorm Wind (G52)
Burt County Tekamah	20	2330CST			0	0	40K		Thunderstorm Wind Numerous trees downed. Roofs blown off houses.
Lancaster County 1.5 S Lincoln to 2 S Lincoln	20	2330CST			0	0	5K		Thunderstorm Wind Large tree branch fell on a home.
Saunders County Valparaiso	20	2345CST			0	0	70K		Thunderstorm Wind Nearly 200 trees and branches downed. Two cars smashed by falling trees. Power poles downed.
Saunders County Ashland	20	2348CST			0	0	50K		Thunderstorm Wind (G70) Trees downed. Trees fell on several trailers at a trailer court causing damage.
Jefferson County Fairbury	20	2349CST			0	0			Thunderstorm Wind (G52) Tree blown down on county courthouse lawn.
Sarpy County Springfield	20	2355CST			0	0			Thunderstorm Wind (G61)
Cass County Murdock	20	2359CST			0	0	1K		Thunderstorm Wind Very large tree downed.
Douglas County 2 W Millard	21	0000CST			0	0			Thunderstorm Wind (G71)
Sarpy County Bellevue	21	0005CST			0	0			Thunderstorm Wind (G51) Wind estimated at TRACON site.
Cass County Louisville	21	0014CST			0	0	3K		Thunderstorm Wind Large tree fell on a car and crushed it.
Cass County Murdock	21	0015CST			0	0			Thunderstorm Wind (G56) Numerous trees and power lines downed.
Cass County Weeping Water	21	0015CST			0	0			Thunderstorm Wind (G56) Numerous trees and power lines downed.
Douglas County 5 SW Omaha Eppley Arpt	21	0030CST			0	0	20K		Lightning Lightning struck a tree which fell on a house.
Sarpy County Bellevue	21	0033CST			0	0	1K		Thunderstorm Wind Wires downed east of county road 42D.
Nemaha County Brownville	21	0037CST			0	0			Thunderstorm Wind (G70)
Burt County Lyons	23	2130CST			0	0			Lightning Lightning struck a tree causing it to fall.
Sarpy County 2 S Offutt Afb	24	0200CST			0	0	1.1M		Flood Heavy rains caused debris to clog a drainage ditch near a railroad track. The ditch filled with water and washed part of the track away. This led to a derailment of 28 train box cars that were filled with grain.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, East</u>									
Platte County 1.5 S Columbus	24	1726CST			0	0			Funnel Cloud
Jefferson County Fairbury	25	0200CST 1200CST			0	0	8K		Flood
									Ten homes had basements flooded as the Little Blue river rose out of its banks.
Richardson County Stella	27	0400CST			0	0	60K		Lightning
									Lightning struck a roof of a home and caused a fire.
Cass County Plattsmouth	29	0230CST			0	0			Thunderstorm Wind (G53)
									Large tree downed in Plattsmouth.
Platte County Columbus	29	1230CST			0	0	3K		Lightning
									Lightning struck a home.
Madison County Norfolk	29	1315CST			0	0			Flood
									Considerable street flooding.
Cuming County West Pt	29	1350CST			0	0	2K		Lightning
									Lightning strikes nearby knocked out cash register scanners at a supermarket.
Dodge County Scribner	29	1405CST			0	0			Thunderstorm Wind (G50)
									Numerous tree limbs downed.
Dodge County 3 N Ames to 1.5 N Fremont	29	1415CST 1422CST	6.5	10	0	0			Tornado (F0)
									Tornado remained in open county and caused no damage.
Burt County Oakland	29	1420CST			0	0			Thunderstorm Wind (G54)
									Thunderstorm winds caused dozens of trees to be uprooted or damaged.
Dodge County 2 N Hooper	29	1429CST			0	0		10K	Hail (0.75)
									Hail damaged crops on a farm.
Dodge County Hooper	29	1430CST			0	0			Thunderstorm Wind (G50)
									Trees downed.
Washington County 1 N Arlington	29	1436CST			0	0			Thunderstorm Wind (G52)
									Tree limbs downed.
Dodge County Winslow	29	1440CST			0	0			Thunderstorm Wind (G52)
									Large tree limbs downed.
Washington County Talbasta	29	1443CST			0	0		10K	Hail (0.75)
Burt County Tekamah Arpt	29	1453CST			0	0			Thunderstorm Wind (G54)
Burt County 7 SE Tekamah	29	1455CST			0	0	12K	19K	Thunderstorm Wind
									Thunderstorms winds blew down a tree into a grain bin. Also two fields of corn were partially flattened.
Washington County Blair	29	1510CST			0	0			Thunderstorm Wind (G52)
									Trees blown down.
Boone County 4 W Boone	30	2320CST			0	0			Hail (1.75)

NEBRASKA, Extreme Northeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

June 1997

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 Southwest</u>									
Red Willow County 9 NW Mc Cook	11	1805CST			0	0			Hail (1.75)
Red Willow County 6 NE Indianola	18	1650CST			0	0			Hail (0.75)
Red Willow County 6 NE Indianola	18	1650CST			0	0	2K		Thunderstorm Wind
Tree limbs 6 to 7 inches in diameter broken and blown 75 feet across the yard. Roof damaged.									
Dundy County Benkelman	20	2100MST			0	0			Hail (0.75)
Hitchcock County 5 W Stratton	20	2202CST			0	0			Hail (0.75)
Dundy County Benkelman	25	1720MST			0	0			Thunderstorm Wind (G61)
Two branches 4 inches in diameter were downed.									
Dundy County 3 W Parks	25	1730MST			0	0			Thunderstorm Wind (G52)
Six branches 3 inches in diameter downed.									
Red Willow County 2 N Mc Cook	25	1850CST	0.2	30	0	0			Tornado (F0)
Brief tornado over open country.									
Red Willow County (Mck)Mc Cook Arpt	25	1858CST			0	0			Thunderstorm Wind (G50)
<u>NEBRASKA, South Central</u>									
Hamilton County 6 E Stockham	11	1240CST			0	0	125K	300K	Hail (1.50)
Hamilton County 4 SW Hampton	11	1244CST			0	0	25K	50K	Thunderstorm Wind (G60)
York County Henderson	11	1255CST			0	0	75K	1.5M	Hail (1.25)
Fillmore County 3 N Grafton	11	1300CST			0	0	25K	150K	Hail (0.75)
Fillmore County Fairmont	11	1325CST			0	0	25K	150K	Hail (0.75)
Early afternoon thunderstorms developed between Grand Island and York and moved slowly southeast. The storms produced very gusty winds and hail up to the size of golf balls. Several irrigation pivots were overturned across this area. Numerous funnel clouds were reported in northern Fillmore County but none reached the ground.									
Valley County 5 W Ord	11	1700CST			0	0	25K	1M	Hail (1.00)
Valley County 3.5 NE Arcadia	11	1725CST			0	0	75K	1M	Hail (2.25)
Valley County 2 E Arcadia	11	1745CST			0	0	75K	1M	Hail (2.00)
Sherman County Loup City	11	1813CST			0	0	125K	200K	Thunderstorm Wind (G80)
Furnas County 1 NE Hollinger	11	1830CST			0	0	75K	1M	Hail (2.50)
Furnas County Arapahoe	11	1834CST			0	0	75K	1M	Hail (1.75)
Numerous funnel clouds were reported in Furnas County along with extensive crop damage from the hail.									
Sherman County 4.5 NW Rockville to 4 NW Rockville	11	1839CST	0.5	25	0	0	0	25K	Tornado (F0)
A brief touchdown was reported by spotters northwest of Rockville.									
Furnas County Oxford	11	1900CST			0	0	25K	500K	Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Sherman County									
Ashton	11	1908CST			0	0	90K	500K	Hail (1.75)
Harlan County									
Alma	11	1910CST			0	0	25K	500K	Hail (1.75)
Harlan County									
Stamford	11	1910CST			0	0	0	250K	Hail (0.75)
Howard County									
Boelus	11	1920CST			0	0	50K	500K	Hail (2.00)
Howard County									
Dannebrog	11	1920CST			0	0	25K	1.5M	Thunderstorm Wind (G70)
Hall County									
2 N Cairo to 4 SE Cairo	11	1925CST 1940CST	6	75	0	0	750K	100K	Tornado (F1)
Franklin County									
Franklin	11	1944CST			0	0	50K	100K	Thunderstorm Wind (G80)
Hall County									
4 N Doniphan to 3.5 N Doniphan	11	1950CST	0.5	25	0	0	0	50K	Tornado (F0)
Severe thunderstorms developed in central Nebraska and moved south. These storms dropped hail up to the size of tennis balls and produced winds up to 80 mph. Damage to crops and property extended from near Ord to near Doniphan. Brief weak tornadoes were reported near Rockville and near Doniphan. A stronger tornado set down near Cairo and moved southeast. A farmhouse was severely damaged. The owner of the home escaped injury by taking shelter in the basement. Other storms developed in south-central Nebraska near Arapahoe. These storms also produced large hail and strong winds. Several reports of funnel were received but none reached the ground.									
Sherman County									
10 W Loup City	15	1845CST			0	0	60K	150K	Hail (2.75)
Sherman County									
Rockville	15	1915CST			0	0	20K	150K	Hail (0.75)
Howard County									
Boelus	15	1928CST			0	0	20K	100K	Hail (0.75)
Hall County									
7 W Cairo	15	1940CST			0	0	30K	150K	Thunderstorm Wind (G60)
Hall County									
4 SW Cairo	15	1950CST			0	0	100K	1M	Hail (0.75)
Hall County									
Alda	15	2005CST			0	0	150K	1M	Hail (1.00)
Furnas County									
6 S Arapahoe	15	2115CST			0	0	40K	500K	Hail (1.25)
Thunderstorms developed northwest of Grand Island and moved southward. These storms produced hail generally the size of golf balls but at times a little bigger than tennis balls. The hail was propelled by winds around 60 mph. Crops were severely damaged in the area, especially in western Hall County along with tree damage across the area.									
Gosper County									
5 N Elwood	19	2250CST			0	0	20K	75K	Hail (0.75)
Buffalo County									
11 SE Ravenna	20	0226CST			0	0	40K	100K	Thunderstorm Wind (G77)
Hall County									
Cairo	20	0314CST			0	0	40K	150K	Thunderstorm Wind (G65)
Hall County									
Grand Is	20	0320CST			0	0	40K	125K	Thunderstorm Wind (G60)
Nuckolls County									
Lawrence	20	0430CST			0	0	35K	0	Lightning
A thunderstorm developed north of Kearney and moved east through Grand Island. Strong winds, over 75 mph, caused crop and tree damage in the area. Another thunderstorm in Nuckolls County produced a lightning bolt that struck a home. A fire was started by this lightning bolt that burned parts of the attic. The fire was limited to only the attic and was quickly extinguished.									
Howard County									
St Libory	20	1857CST			0	0	40K	75K	Hail (0.75)
Merrick County									
1 SW Palmer	20	1904CST			0	0	60K	125K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Nance County Fullerton	20	2133CST			0	0	40K	500K	Hail (0.75)
Valley County Ord	20	2135CST			0	0	30K	75K	Thunderstorm Wind (G63)
Howard County 3 S Cushing	20	2140CST			0	0	80K	200K	Hail (1.50)
Buffalo County Kearney Arpt	20	2154CST			0	0	80K	300K	Thunderstorm Wind (G61)
Hall County Cairo	20	2158CST			0	0	40K	200K	Thunderstorm Wind (G60)
Nance County Fullerton	20	2200CST			0	0	40K	250K	Hail (0.75)
Hall County Grand Is Arpt	20	2207CST			0	0	60K	150K	Thunderstorm Wind (G71)
Buffalo County Shelton	20	2208CST			0	0	50K	150K	Thunderstorm Wind (G75)
Greeley County Wolbach	20	2210CST			0	0	50K	100K	Thunderstorm Wind (G75)
Hamilton County 2 W Phillips	20	2210CST			0	0	100K	300K	Thunderstorm Wind (G70)
Hamilton County 7 SW Aurora	20	2230CST			0	0	400K	300K	Thunderstorm Wind (G70)
Adams County 4 N Hastings	20	2232CST			0	0	50K	125K	Thunderstorm Wind (G64)
York County 4 S Henderson	20	2233CST			0	0	60K	160K	Thunderstorm Wind (G60)
York County York Arpt	20	2240CST			0	0	75K	150K	Thunderstorm Wind (G78)
Hamilton County 4 NE Hampton	20	2245CST			0	0	150K	300K	Thunderstorm Wind (G65)
Fillmore County Fairmont	20	2303CST			0	0	30K	100K	Thunderstorm Wind (G65)
Polk County Osceola	20	2306CST			0	0	100K	300K	Thunderstorm Wind (G60)
Fillmore County Grafton	20	2313CST			0	0	40K	125K	Thunderstorm Wind (G60)
Clay County Sutton	20	2324CST			0	0	40K	150K	Hail (0.75)
Thunderstorms along Interstate 80 produced a variety of weather across south-central Nebraska. Winds from 60 to 75 mph along with hail up to an inch and a half in diameter causes considerable crop and property damage. Several funnel clouds were spotted in Dawson County. A well developed wall cloud and a few funnels occurred in Merrick County.									
NEZ086									
Nuckolls									
24	0200CST				0	0	100K	100K	Flood
25	1700CST								
Heavy rains of 2 to 6 inches fell during the night. This caused flooding to occur in the town of Superior from the Republican River and Lost Creek. Several roads and basements became flooded. Most water receded on the 25th.									
Adams County 4 N Hastings	24	1724CST			0	0	30K	250K	Hail (1.00)
Adams County Hastings	24	1750CST			0	0	50K	200K	Hail (1.00)
Clay County 3 E Fairfield	24	1929CST			0	0	60K	500K	Hail (0.75)
Thayer County Davenport	24	2015CST			0	0	30K	600K	Hail (0.75)
Thayer County Carleton	24	2030CST			0	0	20K	400K	Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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, South Central</u>									
Thayer County									
Carleton	24	2030CST			0	0	15K	400K	Thunderstorm Wind (G60)
									Thunderstorms developed near Hastings and moved southeast. The storms dropped one inch diameter hail at the NWS office north of Hastings. Hail up to one inch continued to be reported from this storm as it moved toward the Kansas border. Strong winds also were reported from this storm.
NEZ087									
Thayer	25	1100CST 1600CST			0	0	50K	100K	Flood
									Heavy rains that fell on June 24 caused some flooding along the Big Sandy Creek. A crest on the creek was about a foot over flood stage. Most damage was confined to near the creek.
Valley County									
7 W Ord	30	2145CST			0	0	40K	400K	Hail (1.00)
Valley County									
North Loup	30	2220CST			0	0	30K	300K	Hail (0.75)
Greeley County									
Scotia	30	2227CST			0	0	30K	400K	Hail (0.75)
Valley County									
Arcadia	30	2228CST			0	0	30K	400K	Hail (0.75)
Sherman County									
Loup City	30	2240CST			0	0	60K	300K	Thunderstorm Wind (G70)
Greeley County									
4 E Scotia	30	2245CST			0	0	30K	200K	Hail (0.75)
									Thunderstorms moved through central and south-central Nebraska. These storms produced hail up to an inch in diameter and winds to 70 mph. The airport at Loup City was very hard hit as several hangers were damaged or destroyed. Four airplanes also received substantial damage.
<u>NEBRASKA, West</u>									
Kimball County									
Bushnell	01	1645MST 1650MST			0	0	0	0	Hail (0.88)
Kimball County									
1 SW Bushnell	01	1725MST 1727MST			0	0	0	0	Thunderstorm Wind
									Gustnado 1SW of Bushnell I-80 interchange
Kimball County									
2 SW Kimball	01	1730MST 1735MST			0	0	0	4K	Hail (1.50)
									At I-80 mile post 18
Kimball County									
Kimball	01	1743MST 1748MST			0	0	30K	5K	Hail (1.75)
Kimball County									
5 SW Kimball	01	1746MST 1747MST	0.1	6	0	0	0	0	Tornado (F0)
									Brief touchdown occurred 2S of I-80 mile post 18 in open country.
Kimball County									
4 S Kimball	01	1804MST 1805MST	0.1	5	0	0	0	0	Tornado (F0)
									Brief touchdown occurred 3SSE of I-80 mile post 18 in open country.
Kimball County									
12 SE Kimball	01	1810MST 1815MST			0	0	2K	5K	Hail (1.75)
Cheyenne County									
10 NW Sidney	01	1845MST 1848MST			0	0	0	0	Thunderstorm Wind (G50)
Banner County									
12 W Harrisburg	02	1730MST 1735MST			0	0	0	0	Hail (0.75)
Banner County									
Countywide	02 03	1800MST 1200MST			0	0	250K	250K	Flood
									Widespread flash flooding then flooding caused crop, road and bridge damage.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Morrill County									
Countywide	02	1800MST			0	0	500K	250K	Flood
	04	1200MST							
	Widespread flash flooding followed by flooding along tributaries of the North Platte River caused crop, road and bridge damage. Several culverts and bridges were washed out on county roads. 100 people were briefly evacuated in Northport due to flooding.								
Scotts Bluff County									
Countywide	02	1800MST			0	0	500K	100K	Flood
	03	1200MST							
	Widespread flash flooding then flooding with crop, road and bridge damage. All county roads were closed from 1900 MST 6/2/97 until 0500 MST 6/3/97. Minor to heavy silt damage was recorded on 40% of county roads.								
Kimball County									
17 SW Bushnell	14	1715MST 1720MST			0	0	0	0	Hail (0.75)
Kimball County									
15 NE Bushnell	14	1715MST 1720MST			0	0	0	0	Hail (0.75)
Cheyenne County									
Potter	14	1800MST 1802MST	0.1	15	0	0	15K	0	Tornado (F1)
	Power poles downed, treetops snapped.								
Banner County									
3 SE Harrisburg	19	1311MST 1316MST			0	0	0	0	Hail (0.75)
Box Butte County									
11 N Hemingford	20	1430MST 1433MST			0	0	5K	0	Hail (1.75)
Box Butte County									
8 NW Hemingford	20	1430MST 1434MST			0	0	2K	0	Hail (1.50)
	Window knocked out of car.								
Kimball County									
11 NE Kimball	20	1450MST 1455MST			0	0	0	0	Hail (1.00)
Kimball County									
10 N Dix	20	1453MST 1458MST			0	0	0	0	Hail (1.00)
Cheyenne County									
2 N Potter	20	1516MST 1518MST			0	0	0	0	Thunderstorm Wind (G56)
Cheyenne County									
6 NE Gurley	20	1530MST 1532MST			0	0	0	10K	Hail (1.75)
Cheyenne County									
10 SE Sidney	20	1530MST 1532MST			0	0	0	0	Hail (1.75)
Cheyenne County									
10 NW Sidney	20	1530MST 1534MST			0	0	0	0	Hail (1.00)
Box Butte County									
6 W Hemingford	20	1540MST 1542MST			0	0	5K	0	Hail (1.75)
Box Butte County									
4 W Hemingford to 2 W Hemingford	20	1540MST 1545MST			0	0	0	0	Hail (0.75)
Cheyenne County									
Brownson	20	1543MST 1545MST			0	0	5K	5K	Hail (1.75)
Cheyenne County									
Brownson	20	1545MST 1547MST			0	0	0	0	Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Box Butte County 4 W Hemingford	20	1547MST 1549MST			0	0	5K	0	Hail (1.75)
Box Butte County Berea	20	1550MST 1552MST			0	0	5K	0	Hail (1.75)
Box Butte County 4 SW Hemingford	20	1550MST 1555MST			0	0	0	0	Hail (0.75)
Cheyenne County Sidney	20	1550MST 1552MST			0	0	50K	10K	Hail (2.50)
									Several windshields broken and vehicles dented.
Box Butte County 12 N Alliance	20	1612MST 1613MST			0	0	10K	0	Hail (3.00)
Kimball County 4 E Dix	20	1638MST 1640MST			0	0	10K	10K	Hail (1.50)
Cheyenne County Potter	20	1645MST 1649MST			0	0	5K	0	Hail (1.00)
Cheyenne County Sidney	20	1717MST 1723MST			0	0	20K	10K	Hail (1.75)
Cheyenne County Potter to 10 E Potter	20	1728MST 1750MST			0	0	30K	20K	Hail (2.00)
									A line of thunderstorms producing hail up to 2 inches in diameter moved east across Potter into central Cheyenne County north of Interstate 80.
Kimball County Dix	20	1735MST 1737MST			0	0	15K	0	Hail (1.75)
Cheyenne County Potter	20	1740MST 1743MST			0	0	30K	0	Hail (2.00)
Banner County Harrisburg	25	1215MST 1219MST			0	0			Hail (0.88)
Kimball County 5 NW Kimball	25	1250MST 1251MST	0.1	10	0	0	0	0	Tornado (F0)
									Brief touchdown in open country.
Kimball County 1 S Kimball	25	1328MST 1329MST			0	0	1M	6M	Hail (1.75)
									6000 acres of crops damaged: several roads damaged.
Cheyenne County Potter	25	1330MST 1333MST			0	0	10K	0	Hail (1.75)
Cheyenne County 2 W Potter	25	1330MST 1331MST	0.1	5	0	0	0	0	Tornado (F0)
									Brief touchdown in open country.
Cheyenne County Potter	25	1340MST 1345MST			0	0	0	0	Hail (0.75)
Kimball County Kimball	25	1340MST 1342MST			0	0	15K	5K	Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1997

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, West</u>									
Kimball County 10 SE Kimball	25	1358MST 1359MST			0	0	10K	10K	Hail (1.75)
<u>NEVADA, North</u>									
Elko County (Eko)Harris Fld Elko to 8 W Of Eko	07	1355PST			0	0			Flash Flood
Elko County Carlin	07	1407PST			0	0			Flash Flood
A complex of very slow moving thunderstorms dropped very heavy rain over parts of Southwest Elko county causing flash flooding. At Hunter...8 miles west of Elko a mudslide covered much of Interstate 80 for two hours causing traffic delays. In the city of Carlin...0.75 inches of rain fell in 45 minutes causing widespread street flooding.									
Lander County Battle Mountain	07	1440PST			0	0			Hail (1.75)
Golf ball size hail was reported by the Nevada Highway Patrol 5 miles south of Battle Mountain during a severe thunderstorm.									
Lander County Red Butte	08	1600PST			0	0			Flash Flood
A nearly stationary thunderstorm dropped 1.73" of rain in one hour causing local flash flooding at Red Butte...40 miles south of Battle Mountain.									
Elko County Elburz	09	1430PST			0	0			Thunderstorm Wind (G55)
A severe micro-burst type thunderstorm produced winds estimated at 60 mph producing reduced visibility in dust.									
Elko County Contact to Jackpot	09	1535MST 1540MST			0	0			Hail (0.75)
A severe thunderstorm produced dime size hail which covered U.S. Hwy 93 between Contact and Jackpot.									
Eureka County (P68)Eureka to Diamond Valley	11	1200PST 1215PST			0	0	100K		Hail (0.50)
A very strong thunderstorm produced a one-half mile wide one-half inch diameter hail swath which caused considerable damage to alfalfa crops.									
<u>NEVADA, South</u>									
NVZ020									
Las Vegas Valley	06	1900PST 1930PST			0	0			Dust Storm
A wall of dust, produced by thunderstorms in nearby northwest Arizona, swept through the Las Vegas Valley accompanied by southeast winds of 30 to 40 mph. The visibility dropped to near zero and forced the grounding of all departing flights from McCarran International airport for approximately 45 minutes.									
<u>NEVADA, West</u>									
Washoe County 4 SW Stead Afb	09	1300PST 1303PST			0	0			Funnel Cloud
A funnel cloud was reported near the Stead Airport (4 miles southwest of Stead) in southern Washoe County. The funnel cloud lasted about three minutes before dissipating.									
Lyon County 10 SW Silver Spgs	09	1510PST 1515PST	0	0	0	0			Tornado (F0)
A funnel cloud was reported by several people near Stagecoach in Lyon County (about 10 miles southwest of Silver Springs). News reports later showed video, confirming this to be a tornado. The tornado lasted about five minutes. No damage was reported as the tornado was in open country. There was no confirmation on path width and length.									
Washoe County 5 E Sutcliffe	09	1540PST 1545PST			0	0			Funnel Cloud
A funnel cloud was reported on the east side of Pyramid Lake in Washoe County. The funnel cloud lasted several minutes before dissipating.									
Churchill County 13 S (Nfl)Nas Fallon	14	0905PST 0907PST	0	0	0	0			Tornado (F0)
Navy pilots reported a weak tornado 13 miles south of the Fallon Naval Air Station near Carson Lake and Bass Flat. The tornado was on the ground for about two minutes and then dissipated. There was no confirmation on path width and length as the tornado was in open country.									

Storm Data and Unusual Weather Phenomena

June 1997

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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NEVADA, West

Lyon County

Silver Spgs	14	1030PST 1035PST			0	0			Funnel Cloud
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Law enforcement officers observed two funnel clouds in the Lahontan Reservoir and Silver Springs area. The funnel clouds lasted several minutes before dissipating.

NEW HAMPSHIRE, North and Central

Carroll County

North Conway	12	1300EST			0	0			Hail (0.75)
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Thunderstorms moving through northern New Hampshire dropped 1/2 to 3/4 inch hail in the North Conway area. Lightning from the storm caused power outages to about 5000 customers.

NEW HAMPSHIRE, Southern

NONE REPORTED.

NEW JERSEY, Northeast

Bergen County

Old Tappan	13	1815EST			0	0			Lightning
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Lightning ignited the shingle roof of a town house at Lakeview Drive. The fire, which began when lightning struck a peak in the roof, burned through the cathedral ceiling and destroyed a second floor bedroom. The fire also caused smoke damage to the second floor and water damage to the first floor. Firefighters were at the scene for about 2 hours.

Passaic County

Paterson	22	1605EST			0	0			Thunderstorm Wind (G50)
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Bergen County

Ridgefield Park to Hasbrouck Hgts	22	1620EST			0	0			Lightning
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Bergen County

Lyndhurst to Hasbrouck Hgts	22	1625EST			0	0			Thunderstorm Wind (G50)
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Essex County

West Orange	22	1630EST			0	0			Thunderstorm Wind (G50)
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Severe thunderstorms moved southeast over the area. They caused high winds and frequent lightning.

High winds downed trees in Paterson, blew two chimneys off roofs in Lyndhurst, and downed power lines in Hasbrouck Hgts and Moonachie (Bergen County).

Lightning struck and destroyed two houses and caused electrical outages for more than 17,000 customers of Public Service Electric and Gas Company. The house fires were ignited at 58 College place in Ridgefield Park and 236 Baldwin Ave. in Hasbrouck Hgts. Residents were not home.

High winds also downed trees in the Gregory and St. Clouds Sections of West Orange (Essex County).

NEW JERSEY, South and Northwest

Burlington County

Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
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Hunterdon County

Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
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Mercer County

Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
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Middlesex County

Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
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Monmouth County

Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
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Storm Data and Unusual Weather Phenomena

June 1997

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									
Morris County									
Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
Ocean County									
Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
Somerset County									
Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
Sussex County									
Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
Warren County									
Countywide	01 03	2300EST 0700EST			0	0			Heavy Rain
<p>A series of low pressure systems moving east off the North Carolina coast and a relatively strong high pressure system over Eastern Canada brought a prolonged period of rain to Central and Northwest New Jersey from around Midnight EDT on the 2nd through the morning on the 3rd. The heaviest rain fell during the day on the 2nd. Storm totals averaged between 1 and 2 inches, although amounts exceeded 3 inches on Long Beach Island. Since the rain was spread over about a 30 hour period, flooding was limited to low-lying and poor drainage locations mainly during the day on the 2nd. Storm totals included 3.57 inches in Harvey Cedars (Ocean County), 1.82 inches in Wertsville (Hunterdon County), 1.74 inches in Princeton (Mercer County), 1.57 inches in Long Pond (Morris County), 1.43 inches in Brick (Ocean County), 1.40 inches in Pottersville (Somerset County), 1.23 inches in New Brunswick (Middlesex County), 1.14 inches in Belvidere (Warren County) and 1.07 inches in McGuire AFB. Storm totals farther south in New Jersey were generally lighter, mostly between 0.50 and 1.00 inch.</p>									
NJZ014-024>026									
		Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean							
	02 03	1500EST 2000EST			0	0			Coastal Flooding
NJZ014-024>026									
		Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean							
	02 03	1800EST 1100EST			0	0			Wind
<p>A series of low pressure systems moving east off the North Carolina coast and a relatively strong high pressure system over Eastern Canada brought a strong and persistent northeast flow from the 2nd through the 4th. The onshore flow peaked during the evening of the 2nd and the morning of the 3rd and produced some minor tidal flooding at times of high tide. Peak wind gusts of 51 mph were reported in Cape May City, 49 mph in Seaside Park and 48 mph in North Wildwood. A wind gust of 48 mph was also reported by the Cape May-Lewes Ferry the morning of the 3rd. Tidal departures averaged around 2 feet above normal, peaking the morning of the 3rd. The maximum tide in Atlantic City was 6.8 feet above mean low water at 745 a.m. EDT the morning of the 3rd (Departure of 2.3 feet above normal). The maximum tide in North Wildwood was 7.1 feet above mean low water the evening of the 2nd. The heavy surf also caused some minor beach erosion.</p>									
Mercer County									
Trenton	13	1300EST			0	0	0		Lightning
<p>Frequent cloud to ground lightning damaged several homes and buildings in and around Trenton. Lightning struck the corner of the Mercer County Courthouse and sprayed pieces of a concrete railing onto the street. Lightning struck a rotten tree near a home on Riverside Avenue in Trenton and knocked it down. The tree damaged the home's roof and crushed its garage. Lightning also struck two homes, one in Trenton and one in Hamilton and caused minimal damage. Lightning hit a transformer outside of the Saint Francis Medical Center in Trenton. A 13,000 volt cable disconnected from the transformer and was "dancing around" in the street before power was turned off. The medical center had to run on generator power for 30 minutes.</p>									
Monmouth County									
Countywide	13	1300EST 1400EST			0	0			Tstm Heavy Rain
<p>Thunderstorms with heavy rain caused some urban and poor drainage flooding in Freehold and Long Branch. A SKYWARN SPOTTER in Freehold reported 1.84 inches of rain in 50 minutes.</p>									
Monmouth County									
Spring Lake	13	1338EST			0	0	0		Thunderstorm Wind
<p>Large limbs were torn from trees by a severe thunderstorm in Spring Lake.</p>									
NJZ016>019-021									
		Salem - Gloucester - Camden - Burlington - Cumberland							
	21 26	0900EST 1800EST			0	0			Excessive Heat
<p>The first heat wave of 1997 brought the hottest weather in two years to the Philadelphia Metropolitan Area. The highest temperatures reached near 100 degrees on the 25th. The heat wave started on the 21st. A weak cold front brought drier air briefly into the region on the 23rd. But that was short-lived as both heat and humidity levels became oppressive again on the 24th. A stronger cold front ended the heat wave on the 26th. The highest temperatures included 99 degrees at Millville (Cumberland County), 97 degrees at Mount Holly (Burlington County), Seabrook (Cumberland County) and Glassboro (Cumberland County)</p>									

Storm Data and Unusual Weather Phenomena

June 1997

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

and 96 degrees in Somerdale (Camden County) and at the Philadelphia International Airport. The 96 degree high at the Philadelphia International Airport was the hottest day at the airport since August 18, 1995 when the high was 97 degrees.

Hunterdon County

Clinton	22	1331EST			0	0	0		Lightning
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Lightning struck a home in Clinton.

Sussex County

Fredon	22	1505EST			0	0	0		Thunderstorm Wind
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Sussex County

Newton	22	1505EST			0	0			Hail (0.75)
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A severe thunderstorm uprooted a few trees around Fredon. The same thunderstorm also dropped penny size hail around Newton.

Morris County

Woodstock	22	1515EST			0	0	0		Lightning
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Lightning struck a home in Jefferson Township.

Ocean County

Jackson to Brick Town	22	1845EST 1855EST			0	0	0		Lightning
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An intense thunderstorm produced frequent lightning across the extreme northern part of Ocean County. Houses were struck by lightning and set on fire in Jackson and Brick Townships. Pea size hail also fell with the thunderstorm. A wind gust of 48 mph was reported in Seaside Park.

NJZ009>010-012>013-015-020>026

Hunterdon - Somerset - Middlesex - Western Monmouth - Mercer - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean

25	0900EST		0	4					Excessive Heat
26	1800EST								

The first hot spell of 1997 brought the hottest weather in two years to New Jersey. The highest temperatures reached near 100 degrees on the 25th. Four persons were hospitalized in Trenton because of the excessive heat, one suffered a heat stroke and the others suffered heat exhaustion. All four were found sitting in hot apartments. The hot weather started on the 21st. A weak cold front briefly brought cooler and drier air into the region on the 23rd. But that was short-lived as humidity levels increased on the 24th and both the heat and humidity became oppressive again on the 25th and 26th. The highest temperatures included 99 degrees in Brick and Toms River (both Ocean County) and Millville (Cumberland County), 98 degrees in Hammonton (Atlantic County), 97 degrees in Estell Manor (Atlantic County) 96 degrees in Atlantic City and Long Branch (Monmouth County), 95 degrees in Freehold (Monmouth County) and Belle Mead (Somerset County) and 94 degrees in Hightstown (Mercer County).

NJZ001-007>010-012>026

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

30	2359EST		0	0					Unseasonably Dry
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June 1997 was drier than normal throughout New Jersey. On a county weighted average, deficits averaged between 1.5 and 2 inches in most counties. Deficits though were within an inch of normal in Atlantic, Cape May, Mercer, Middlesex and Ocean Counties. The largest deficits were in southwest New Jersey where less than half of the normal rainfall fell with only 40 percent of normal precipitation in Salem and Cumberland Counties. Half of the rain fell during the first three days of the month and coupled with the hot weather at the end of the month, the lack of rain started to stress growing areas. Some representative monthly rainfall totals included 2.26 inches in Flemington (Hunterdon County), 1.87 inches in Long Branch (Monmouth County), 1.83 inches in South Harrison (Gloucester County), 1.66 inches in Toms River (Ocean County), 1.34 inches in Hainesville (Sussex County), 1.24 inches in Mount Holly (Burlington County), 1.16 inches in Hammonton (Atlantic County) and 0.94 inches in Millville (Cumberland County).

NEW MEXICO, Central and North

Mora County

Wagon Mound	01	1353MST			0	0			Hail (0.88)
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Colfax County

7 NNW Raton	02	1758MST 1803MST			0	0			Hail (1.75)
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The Port of Entry north of Raton reported 5 minutes of golfball hail.

Guadalupe County

Santa Rosa	04	2335MST			0	0			Hail (0.88)
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Chaves County

Roswell	04	2340MST 2358MST			0	0			Hail (0.75)
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Chaves County

Roswell	04	2345MST			0	0			Thunderstorm Wind (G60)
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Chaves County

Roswell	05	0013MST			0	0			Hail (1.75)
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Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEW MEXICO, Central and North</u>									
Several severe thunderstorms moved across southeast New Mexico during the late evening producing large hail and locally heavy rain. Gusts of 69 mph downed several large trees, while hail as large as golfballs was reported in Roswell. Hail caused considerable damage to young cotton and sorghum crops within Chaves county.									
Quay County 12 SW Nara Visa	05	2038MST			0	0			Hail (1.00)
Curry County Clovis Arpt	05	2119MST			0	0			Hail (1.00)
San Miguel County Pecos	07	0000MST			0	0	80K		Flood
	08	1800MST							
The Pecos River, already swollen by late season snowmelt, rose quickly during 12 to 18 hours of steady rain which totaled nearly 3 inches in the watershed above Pecos. The combined heavy runoff caused damage to several private bridges and filled low crossings with mud and debris.									
Santa Fe County 5 SW Santa Fe Muni Arpt	07	1500MST			0	0	200K		Flash Flood
	08	0000MST							
The Santa Fe River rose sharply during heavy rain of 2 to 3 inches. A large washout on County Road 56 south of the Santa Fe airport caused the highway department to close one lane for over a month.									
Santa Fe County Galisteo	08	1135MST			0	0			Funnel Cloud
Galisteo residents observed a brief funnel cloud.									
Colfax County Maxwell	10	1530MST			0	0			Hail (1.00)
State Police reported 1 inch hail in Maxwell.									
Chaves County Dexter	11	1323MST			0	0			Hail (1.75)
Chaves County Roswell	11	1323MST			0	0			Hail (1.75)
Roosevelt County Milnesand	14	1420MST			0	0			Thunderstorm Wind (G52)
De Baca County Ft Sumner	14	1512MST			0	0			Thunderstorm Wind (G52)
NWS observers estimated winds gusts of 50 to 60 mph in both Milnesand and Fort Sumner.									
Santa Fe County 5 S Santa Fe Muni Arpt	15	1344MST			0	0			Funnel Cloud
A brief funnel cloud was observed from the Santa Fe FAA Control Tower.									
Quay County Glenrio	16	1303MST			0	0			Hail (0.75)
Curry County Clovis	16	1401MST			0	0			Funnel Cloud
A brief funnel cloud was observed by SKYWARN ham radio spotters.									
Curry County Clovis Arpt	25	0034MST			0	0	10K		Thunderstorm Wind (G68)
A small and generally dry thunderstorm produced a microburst which downed 5 power poles in western Clovis and damaged trees at the Municipal Golf Course.									
Colfax County Ute Park	25	1315MST			0	0			Hail (0.88)
<u>NEW MEXICO, South Central and Southwest</u>									
Grant County Pinos Altos	07	1224MST 1300MST			0	0			Hail (1.00)
Weather Spotter reports hail up to one inch covering the ground.									
Dona Ana County Las Cruces	07	1702MST 1715MST			0	0	3.5M		Hail (1.50)
Dona Ana County White Sands	07	1800MST 1830MST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEW MEXICO, South Central and Southwest</u>									
Dona Ana County									
Hatch	07	2050MST 2105MST			0	0			Hail (1.00)
<u>NEW MEXICO, Southeast</u>									
Eddy County									
9 SSW Carlsbad	04	1935MST			0	0			Hail (1.00)
Eddy County									
2 SE Loving	04	1945MST			0	0	100K		Hail (1.75) Farms southeast of Loving were hit hard with cotton and oats being destroyed.
Eddy County									
Loving to 1 NW Malaga	04	1945MST			0	0	600K		Thunderstorm Wind (G54) Very intense severe thunderstorm pummelled Loving, especially the southeast part of town, with hail up to golfball size and 60-65 mph winds. Numerous windows were broken out of homes by the fast-moving hail. Also, tree damage ranged from being uprooted to losing large branches, to being stripped of all their leaves. A few power poles were blown down as well. The damage covered about a 10 city block area. One mobile home was considered totaled by an insurance company. The storm moved southeast but weakened as it approached Malaga. An upper level ridge over the area that had suppressed thunderstorm activity over the previous two days, weaken slightly, and with a moist upslope flow into the Sacramento Mountains, thunderstorms developed. An upper level flow from the north-northwest brought the storms into the plains where dew points were in the lower 60s. Thunderstorms intensified over the Carlsbad and Loving areas then quickly diminished just after 900 pm MDT.
Eddy County									
7 NW Artesia	10	1825MST			0	0			Hail (1.75)
Eddy County									
7 NW Artesia	10	1825MST			0	0			Thunderstorm Wind (G52)
Eddy County									
5 NW Artesia	10	1840MST			0	0	10K		Hail (2.75) A storm that formed over the Sacramento Mountains moved into northern Eddy County and became an LP supercell northwest of Artesia where baseball size hail was produced. Damage included cracked windshields, broken windows in cars and houses, and a barn that had holes punched in its corrugated metal roof and walls. Surface temperatures in the area were in the upper 80s with dew points in the lower 60s.
Eddy County									
31 ESE Carlsbad	11	1440MST			0	0			Hail (1.75)
Lea County									
33 WSW Eunice	11	1440MST 1442MST			0	0			Hail (1.75) Golfball size hail was reported along the Eddy/Lea County line on State Highway 128.
Lea County									
1 SSE Lovington	11	1545MST			0	0	200K		Thunderstorm Wind A large warehouse suffered heavy damage from microburst winds. The event was very localized as the manager of the warehouse was in an adjacent building and did not notice any extreme winds. No one was in the warehouse when it was hit by the winds. The manager was alerted to a problem when the alarm for the sprinkler system for the warehouse was activated. The winds blew out parts of the west and east walls as well as damaged much of the roof. This storm moved rapidly to the ENE and joined in the line that formed in West Texas.
Lea County									
Jal	11	1550MST			0	0			Hail (1.00)
Lea County									
2 S Jal	11	1606MST			0	0	3K		Thunderstorm Wind A carport was picked up and thrown by downbursting winds from an HP Supercell RFD. Also a large, but dead, elm tree was uprooted. These storms formed in the Sacramento Mountains and moved to the east into rich moisture. The storms were originally multicell clusters, but as the storms moved into Lea County southward development briefly developed an HP Supercell that crossed over Jal. RFD winds from this southern-most cell caused damage south of Jal.
Lea County									
Crossroads	11	1530MST			0	0			Thunderstorm Wind (G52) 60 mph wind gust reported by a rainfall observer. The winds were the result of a collapsing cell in a large cluster.
Eddy County									
18 SW Carlsbad	14	1216MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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

Eddy County Carlsbad

	14	1229MST 1233MST			0	0			Thunderstorm Wind (G57)
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A large area of showers was moving to the northeast through southeastern New Mexico with embedded thunderstorms. One of the storms that passed over Carlsbad had 65 mph wind gusts that snapped large tree limbs.

Lea County 2 E Hobbs

	14	1330MST			0	0	1K		Thunderstorm Wind
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This same area of showers and storms moved into Lea County and knocked down power lines and snapped off numerous tree limbs. Strong winds were reported across much of Lea County, but resulted in little damage.

Several factors came together on this Saturday afternoon. In the upper levels the remnants from Tropical Storm Blanca passed through the area in a southwesterly flow. At the surface, dew points were near 70 degrees over much of the region and the dry line was located just east of the mountains.

The first storms were generated in the relatively dry air and formed into a NW-SE oriented line. When this line intersected the dry line, storms began to form southward along this convergent area.

The modified 1200 UTC MAF sounding on the SHARP workstation indicated a mean parcel buoyancy of 2900 J/kg and a best parcel buoyancy of 5200 J/kg.

NMZ029

Lea

	16	1600MST 1630MST			0	0	300K		High Wind (G61)
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Strong gradient winds behind a developing late-season cold front were enhanced by thunderstorm outflow to produce damaging winds Hobbs. Thunderstorms remained well to the north of the city and the widespread nature of the winds suggested that the thunderstorms had only a minor role in the generation of the winds. Damage was reported in the southern 3/4 of Hobbs.

Numerous large trees were downed or lost main limbs. Sections of many roofs were peeled up, and power lines and poles were knocked down as well. The emergency manager estimated the winds gusting to 70 mph in some parts of town. The airport west of town sustained a 52 mph gust but reported no damage.

Eddy County 14 W Carlsbad

	26	2300MST			0	0			Flash Flood
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Heavy rains west of Carlsbad started arroyos running that covered State Highway 137. Several water crossings were 2 feet deep with running water.

Eddy County 1 W Lakewood

	27	0100MST 0230MST			0	0			Flash Flood
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State Highway 381 flooded west of Lakewood at the northern branch of the Seven Rivers Arroyo crossing.

NEW YORK, Central

Broome County Triangle

	06	1650EST			0	0			Hail (0.75)
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A slow moving thunderstorm briefly intensified to severe levels across northern Broome county. The cell produced large hail in the town of Triangle. Shortly after this occurrence, the thunderstorm weakened as it gradually pushed westward.

Oneida County New Hartford

	09	1400EST			0	1			Lightning
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A cluster of thunderstorms developed over southern Oneida county. Although these storms did not reach severe limits, they produced intense cloud to ground lightning and very heavy rain. A 15 year old boy was struck by lightning in his backyard. He sustained first and second degree burns on his legs.

Oneida County Utica

	10	1530EST			0	5	5K		Lightning
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A slow moving band of thunderstorms again developed over central and southern Oneida county on this afternoon. The storms produced vivid cloud to ground lightning and locally heavy downpours. Five young boys were burned, one seriously, when lightning struck a metal dugout in which the youths were sitting during a little league baseball contest. The dugout itself also sustained significant damage as a large utility pole, which was also struck by lightning, toppled onto it.

NEW YORK, Coastal

Rockland County Suffern to Nyack

	13	1715EST 1915EST			0	0			Flash Flood
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Storm Data and Unusual Weather Phenomena

June 1997

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

NEW YORK, Coastal

Thunderstorms produced torrential rain across Central and Southern Rockland County. Doppler radar estimated 4 to 5 inches of rain fell during 3 hours over this area.

There were several reports of serious widespread street flooding in Nanuet, West Nyack and Orangeberg. Streams and brooks rose significantly with some overflowing their banks.

Rockland County									
Suffern	22	1315EST			0	0			Lightning
Westchester County									
Port Chester	22	1400EST			0	0			Lightning
Queens County									
Countywide	22	1425EST			0	0			Thunderstorm Wind (G75)
Suffolk County									
Huntington to Northport Harbor	22	1440EST			0	0			Thunderstorm Wind (G50)
Suffolk County									
Patchogue	22	1545EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms moved southeast over the area. They caused high winds and frequent lightning.

High winds in Queens downed more than 60 trees, which fell on cars, houses, and powerlines. Three houses along 222nd Street suffered damage together with five cars. Each car was crushed by fallen trees. Three other cars were also damaged.

High winds also downed trees, some of which fell on cars in Suffolk County.

In Suffern, lightning struck the antennas on the roof of a two-family house on Ramapo Ave. The fire was confined to the attic area and the damage was minimal.

In Port Chester, lightning struck the roof of a three story apartment building. The lightning caused severe damage to the top floor of this building located at 19-21 Parker Street. It took more than 45 firefighters almost an hour to control the flames. All of the building's 20 occupants were evacuated and taken to an emergency shelter.

Orange County									
Greenwood Lake to Newburgh	26	1445EST			0	7			Thunderstorm Wind (G50)
Rockland County									
Nanuet to Nyack	26	1505EST			0	0			Hail (0.75)
Rockland County									
Nanuet to Tallman	26	1510EST			0	0			Thunderstorm Wind (G50)
Westchester County									
White Plains	26	1529EST			0	0			Hail (1.00)
Westchester County									
Irvington to Harrison	26	1530EST			0	0			Thunderstorm Wind (G50)
Nassau County									
Bayville	26	1550EST			0	0			Thunderstorm Wind (G50)
Suffolk County									
Huntington to East Farmingdale	26	1553EST			0	0			Thunderstorm Wind (G50)
Nassau County									
Bayville to Syosset	26	1604EST			0	0			Funnel Cloud
Nassau County									
North Massapequa	26	1604EST			0	0			Thunderstorm Wind (G50)
Suffolk County									
Fire Island	26	1625EST	0.1	20	0	0			Tornado (F0)

A line of scattered severe thunderstorms developed in a moist unstable airmass ahead of an approaching cold front. These storms produced high winds and hail. High winds downed several trees and power lines in several areas. The "swath" of greatest damage

Storm Data and Unusual Weather Phenomena

June 1997

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 YORK, Coastal

extended from Central Rockland County southeast across Southern Westchester County, Northern Nassau County and Northwest Suffolk County. High winds also downed trees and power lines in Greenwood Lake and Chester (Orange County). They resulted in accidents, causing seven people to get injured in Newburgh. A driver and passenger were injured in Newburgh when a tree fell across Route 52 and landed on their car.

Meteorologists from the National Weather Service Upton Office confirmed that a weak F0 tornado occurred late Thursday afternoon in the Cherry Grove Community on Fire Island. Damage was light with a few businesses, houses, and boats at the ferry terminal at Cherry Grove being affected. The damage was limited to awnings, windows, roofs, and trees.

The tornado formed in a thunderstorm complex that produced severe wind damage across Southeast NY, from Central Rockland, southeast to Northwest Suffolk Counties. A 56 mph wind gust was measured by a Weather Access Automated Station at the Fire Island Coast Guard, which is about 10 miles west of Cherry Grove.

Additionally, it was learned that a cloud-to-ground lightning strike to one of the ferries servicing the area resulted in damage to the radio/navigation system on the vessel.

Funnel clouds were sighted from Bayville to Syosset in Northern Nassau County and in Huntington in Northwest Suffolk County.

NEW YORK, East

Washington County

North Granville

12	1427EST								
		0	0	6K					Lightning

Lightning struck a house and brought down several wires at North Granville in Washington County.

NEW YORK, North

St. Lawrence County

Norwood

13	1930EST 2030EST								
		0	0	10K					Lightning

A cold front moved across northern New York during the afternoon and evening of Friday (June 13, 1997). Thunderstorms developed along and ahead of the front with locally heavy rain, small hail and frequent lightning strikes.

Specifically, between 730 PM EST and 830 PM EST heavy rain and pea size hail fell in Norwood, NY (St. Lawrence County). There were several lightning strikes reported in Norwood, NY with tree damage and damage to radio towers.

Franklin County

Tupper Lake

21	0100EST 0110EST								
		0	0	20K					Lightning

Lightning struck the Police Department in Tupper Lake, NY (Franklin County) at approximately 1 AM EST early Saturday morning (June 21, 1997). Extensive damage to computer and communication systems resulted.

St. Lawrence County

Ogdensburg

22	1700EST 1705EST								
		0	0	5K					Thunderstorm Wind

A cold front moved across northern New York Sunday afternoon and evening (June 22, 1997). Thunderstorms developed along and following the front. Heavy rain, some hail and locally damaging winds accompanied a few of the storms.

Trees and power lines were blown down in Ogdensburg, NY (ST. Lawrence County).

NEW YORK, West

Lewis County

Bonaparte

07	1620EST								
		0	0	3K					Hail (0.75)

Allegany County

Angelica

18	1545EST								
		0	0	40K					Thunderstorm Wind

Allegany County

Belfast

18	1600EST 2000EST								
		0	0	15K					Flash Flood

An isolated thunderstorm crossed Allegany County bringing strong winds and heavy rains to Angelica, Belfast and Amity. The thunderstorm winds downed trees and power lines. Trees fell on several houses and crushed an unoccupied pickup truck. Flash flooding from the heavy rains washed out several roads in Belfast and Amity. A State of Emergency was declared in Amity.

Niagara County

Newfane

25	1630EST								
		0	0	11K					Thunderstorm Wind

Orleans County

Ridgeway

25	1655EST								
		0	0	15K					Thunderstorm Wind

Chautauqua County

Clymer

25	1740EST								
		0	0	10K					Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEW YORK, West</u>									
Cattaraugus County									
Red House	25	1815EST			0	0	15K		Thunderstorm Wind
Allegany County									
Wellsville	25	1900EST			0	0	10K		Thunderstorm Wind
Thunderstorms developed during the afternoon hours along lake breezes from Lakes Erie and Ontario. The thunderstorm winds downed trees and power lines. Scattered power outages were reported.									
Genesee County									
Alabama	30	1645EST			0	0			Hail (0.75)
<u>NORTH CAROLINA, Central</u>									
Moore County									
Foxfire Village	02	1135EST			0	0			Thunderstorm Wind (G50)
TREES AND POWER LINES WERE DOWNED CAUSING POWER OUTAGES IN THE FOXFIRE VILLAGE AREA AND NORTHEAST TO PINEHURST IN SOUTHEASTERN MOORE COUNTY.									
Lee County									
Lemon Springs	02	1250EST			0	0			Hail (0.75)
DIME SIZED HAIL WAS REPORTED FOR SEVERAL MINUTES IN THE LEMON SPRINGS COMMUNITY OF LEE COUNTY.									
Lee County									
Broadway	02	1315EST 1330EST			0	0			Hail (1.50)
1.50 INCH HAIL FELL IN AN AREA FROM 8 MILES SOUTH OF SANFORD NORTHEAST TO THE BROADWAY COMMUNITY OF LEE COUNTY.									
Wake County									
Cary	02	1505EST 1515EST			0	0			Hail (1.00)
1.00 INCH HAIL FELL IN THE MACGREGOR SUBDIVISION IN CARY. TREE DEBRIS WAS NOTED UNDER MANY MAPLE AND OAK TREES IN THE AREA DUE TO THE INTENSE HAIL AND HEAVY RAIN STORM.									
Wake County									
Cary	02	1515EST 1530EST			0	0			Hail (0.88)
0.88 HAIL FELL AT THE CROSSROADS PLAZA ON I-40 AND US-64 IN CARY/ SW RALEIGH.									
Wake County									
Nw Raleigh	02	1545EST 1555EST			0	0			Hail (1.00)
1.00 INCH HAIL FELL FROM NEAR THE CRABTREE VALLEY MALL AREA OF WEST RALEIGH ... NORTH TO THE INTERSECTIONS OF SIX FORKS AND NORWOOD ROADS IN NORTH RALEIGH. TREE DEBRIS WAS NOTED IN THE STREETS AND YARDS THROUGHOUT THE AREA.									
Wake County									
N Raleigh	02	1558EST			0	0			Hail (0.75)
DIME HAIL FELL AT THE SIX FORKS AND SAWMILL ROAD INTERSECTIONS OF NORTH RALEIGH.									
Davidson County									
Lexington	02	1600EST 1615EST			0	0			Hail (0.75)
DIME HAIL IN THE CITY OF LEXINGTON (SEVERAL LOCATIONS).									
Wake County									
Zebulon	02	1655EST			0	0			Thunderstorm Wind (G50)
A 50 KNOT WIND WAS RECORDED IN THE TOWN OF ZEBULON OF EASTERN WAKE COUNTY.									
Forsyth County									
Belows Lake	02	1715EST 1720EST			0	0			Hail (0.75)
DIME HAIL FELL AT BELEWS LAKE IN NORTHEAST FORSYTH COUNTY ABOUT 5 MILES WEST OF STOKESDALE.									
Stanly County									
Badin	13	2132EST 2145EST			0	0			Hail (0.75)
DIME SIZE HAIL FELL IN BADIN AND ALBEMARLE.									
Stanly County									
New London	13	2132EST 2145EST			0	0			Thunderstorm Wind (G50)
TREES WERE BLOWN DOWN IN NEW LONDON AND SURROUNDING AREAS.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Central</u>									
Montgomery County 10 W Troy	13	2200EST			0	0			Thunderstorm Wind (G50) TREES WERE DOWNED WEST OF TROY...PRODUCING POWER OUTAGES.
Alamance County 2 N Elon College	14	0035EST 0145EST			0	0			Flash Flood FLOODING WAS REPORTED IN SEVERAL SPOTS ALONG NC-87 IN NORTHWEST ALAMANCE COUNTY, MAINLY AROUND AND NORTH OF ELON COLLEGE. THE FLOODING WAS CONFINED TO LOW-LYING AREAS INCLUDING FARM LAND AND PARKING LOTS.
Orange County Hillsborough	14	0200EST			0	0			Lightning ORANGE COUNTY 911 REPORTED THAT A HOUSE CAUGHT FIRE AFTER A LIGHTNING STRIKE.. THE FIRE WAS QUICKLY EXTINGUISHED WITHOUT MAJOR DAMAGE.
Harnett County 15 SW Lillington	18	1800EST			0	0	25K		Lightning THE HARNETT COUNTY SHERIFF REPORTED THAT A HOUSE WAS STRUCK BY LIGHTNING, CAUSING SIGNIFICANT ROOF DAMAGE.
Stanly County Aquadale	21	1722EST 1930EST			0	0			Flash Flood EMERGENCY MANAGEMENT REPORTED THAT MANY STREETS IN THE AQUADALE COMMUNITY WERE UNDER WATER. HIGHWAY 138 WAS ALSO CLOSED DUE TO HIGH WATER. RADAR ESTIMATED THAT 4 TO 5 INCHES OF RAIN FELL IN THE AREA IN JUST 2 OR 3 HOURS.
Hoke County Raeford	22	1515EST			0	0			Lightning LIGHTNING STARTED A FIRE IN A HOME. FORTUNATELY, THE FIRE WAS EXTINGUISHED BEFORE CAUSING MAJOR DAMAGE.
Scotland County 5 E Laurinburg	22	1700EST			0	0			Thunderstorm Wind (G50) SEVERAL TREES WERE BLOWN DOWN.
Sampson County Garland	24	1330EST			0	0			Thunderstorm Wind (G50) TREES WERE BLOWN DOWN IN SOUTHERN SAMPSON COUNTY NEAR GARLAND. ROAD CREWS WERE KEPT BUSY CLEARING TREES FROM SEVERAL COUNTY ROADS.
<u>NORTH CAROLINA, Central Coastal</u>									
Martin County 6 NW Williamston	01	1710EST	0.4	100	0	0	20K		Tornado (F0) Touched down near Martin County Airport in Spring Green. Several outbuildings destroyed and some houses lost a portion of their roofs.
Martin County 3 E Robersonville	01	1715EST 1830EST			0	0			Funnel Clouds Several funnel clouds reported between Robersonville and Williamston.
Martin County Hamilton	01	1850EST			0	0			Funnel Clouds Two funnel clouds reported north of Route 125.
Jones County Phillips Xrds	03	1210EST			0	0	50K		Hail (1.75) 1350 acres of tobacco and 5400 acres of corn damaged.
Duplin County Wallace	03	1305EST			0	0			Hail (0.75)
Duplin County 1 S Wallace	03	1325EST			0	0			Hail (0.75) Hail covering the ground.
Onslow County Hubert	03	1415EST			0	0			Thunderstorm Wind (G50) Trees down on Route 172 just off Highway 24.

Storm Data and Unusual Weather Phenomena

June 1997

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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NORTH CAROLINA, Central Coastal

Carteret County									
Cape Carteret	03	1445EST			0	0			Hail (0.88)
Carteret County									
Cape Carteret	03	1500EST			0	0			Thunderstorm Wind (G50)
Power lines downed by trees.									
Dare County									
.7 NW Manteo to 1 NW Manteo	13	1530EST			0	0			Waterspout
Two waterspouts in Croatan Sound near Dare County Airport.									
Onslow County									
Piney Green	14	1400EST			0	0			Thunderstorm Wind (G50)
Trees down on power lines.									
Jones County									
Pollocksville	14	1405EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Lenoir County									
10 S Kinston	14	1405EST			0	0			Thunderstorm Wind (G50)
Numerous trees down and trailer destroyed.									
Craven County									
Bridgeton	14	1410EST			0	1			Thunderstorm Wind (G51)
Two foot diameter tree knocked down into bleachers.									
Jones County									
Trenton	14	1420EST			0	0			Thunderstorm Wind (G50)
Many trees down.									
Pamlico County									
Bayboro	14	1445EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down.									
Beaufort County									
1 SE Aurora	14	1515EST			0	0			Thunderstorm Wind (G50)
Trees down on Bay City Highway.									
Duplin County									
Magnolia	23	1515EST			0	0			Hail (0.75)

NORTH CAROLINA, Extreme Southwest

Cherokee County									
Ranger	21	1300EST			0	0			Hail (1.75)
Cherokee County									
Suit	28	1730EST 1830EST			0	0	15K		Flash Flood
Two private bridges (driveways) washed away and one heavily damaged on Crow Street in Suit. Also, 3 to 4 inches of water in the Easy Storage on Highway 294 near Oak Grove Road.									

NORTH CAROLINA, North Coastal

NONE REPORTED.

NORTH CAROLINA, Northwest and North Central

Wilkes County									
1 NW Ferguson	02	0900EST			0	0			Hail (0.75)
Ashe County									
Glendale Spgs	02	0950EST			0	0			Hail (0.75)
Ashe County									
3 NNE Glendale Spgs	02	1000EST			0	0			Hail (0.75)
Ashe County									
5 NE Glendale Spgs	02	1010EST			0	0			Hail (0.75)
Alleghany County									
Twin Oaks	02	1035EST 1040EST			0	0			Hail (1.00)
Severe thunderstorms during the morning hours on the 2nd produced hail up to quarter size. Hail up to quarter size accumulated to a depth of several inches in Twin Oaks.									

Hail up to dime size damaged gardens and accumulated to a depth of two to three inches one mile northwest of Ferguson. In this

Storm Data and Unusual Weather Phenomena

June 1997

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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NORTH CAROLINA, Northwest and North Central

same area, snowplows were used to help clear the roads of the hail.

Rockingham County

1 SW Wentworth	02	2115EST			0	0	0		Thunderstorm Wind
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Thunderstorm winds knocked down a tree 1 mile southwest of Wentworth during the evening hours on the 2nd.

Watauga County

Boone	13	1915EST			0	0	2K		Thunderstorm Wind
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Watauga County

Zionville	13	1915EST			0	0	0		Thunderstorm Wind
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Ashe County

Tuckerdale	13	2020EST			0	0	0		Thunderstorm Wind
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Severe thunderstorms during the evening hours on the 13th produced damaging winds.

Thunderstorm winds knocked down several trees in Tuckerdale, blew trees down across route 421 near Zionville, and blew a metal shed across a road in Boone.

Rockingham County

2 SW Oregon Hill	17	1700EST			0	0	2K		Lightning
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Rockingham County

3 S Eden	17	2020EST			0	0	500K		Lightning
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Rockingham County

Wentworth	17	2020EST			0	0	40K		Lightning
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Thunderstorms during the evening hours on the 17th produced damaging lightning.

Lightning started a fire which destroyed a 162 year old church 3 miles south of Eden. One fire fighter suffered minor injuries while fighting this fire.

A fire started by lightning destroyed the Arts and Crafts Building at the Rockingham Opportunity Center in Wentworth. Another fire started by lightning slightly damaged a barn 2 miles southwest of Oregon Hill.

Surry County

Pilot Mtn	20	1812EST			0	0			Hail (1.00)
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Surry County

Pilot Mtn	20	1812EST			0	0	0.40K		Thunderstorm Wind
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Surry County

6 SSW Low Gap	20	1855EST			0	0			Hail (1.25)
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Thunderstorms during the evening hours on the 20th produced hail up to half-dollar size and damaging winds.

Thunderstorm winds knocked down numerous signs in Pilot Mountain.

Yadkin County

1 W Marler	22	1500EST			0	0	0		Thunderstorm Wind
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Thunderstorm winds during the afternoon hours on the 22nd knocked down numerous trees 1 mile west of Marler.

Rockingham County

Eden	25	1500EST			0	0	30K		Lightning
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A thunderstorm during the afternoon hours on the 25th produced damaging lightning.

A lightning strike started a house fire which damaged a house in Eden. Structural damage was estimated at \$25,000 with \$5,000 in damage to contents of the house.

NORTH CAROLINA, South Coastal

Pender County

Scotts Hill	03	1130EST 1135EST			0	0			Hail (1.00)
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Brunswick County

Bolivia	03	1225EST 1230EST			0	0			Hail (1.50)
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New Hanover County

Wilmington	14	1154EST 1205EST			0	0			Tstm Wind/Hail
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WIND GUST OF 63 KNOTS MEASURED ON A HOME ANEMOMETER. 1 INCH HAIL REPORTED WITH THIS STORM IN THE LANDFALL COMMUNITY. TREES AND POWER LINES DOWN BETWEEN LANDFALL AND FIGURE 8 ISLAND

Robeson County

Orrum	14	1240EST			0	0			Hail (0.75)
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REPORTED BY SKYWARN SPOTTER

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, South Coastal</u>									
Columbus County									
Old Dock	27	1254EST			0	0			Hail (0.75)
Brunswick County									
Supply to Shalotte	27	1350EST			0	0			Urban/Sml Stream Fld
			FLOODING ON MT. PISGAH ROAD BETWEEN SUPPLY AND SHALLOTTE						
New Hanover County									
Wilmington	27	1359EST			0	0			Urban/Sml Stream Fld
			FLOODING AT THE 1900 BLOCK OF MARKET STREET, AT HARNETT AND 6TH, AT BLUE CLAY AND KERR AND ALSO AT 23RD STREET.						
<u>NORTH CAROLINA, Southwest</u>									
Transylvania County									
Connestee to Cedar Mtn	02	0400EST 0415EST			0	0			Thunderstorm Wind (G50)
Polk County									
Columbus	02	0430EST 0440EST			0	0			Hail (0.75)
McDowell County									
2 S Marion	02	0502EST 0512EST			0	0			Hail (1.00)
McDowell County									
Marion	02	0523EST 0533EST			0	0	2M		Hail (2.00)
Rutherford County									
5 S Rutherfordton to 2 SE Rutherfordton	02	0530EST 0545EST			0	0			Hail (2.00)
Rutherford County									
Forest City	02	0545EST 0555EST			0	0			Hail (2.00)
Polk County									
Tryon	02	0600EST			0	0	100K		Lightning
Rutherford County									
Union Mills	02	0600EST			0	0			Thunderstorm Wind (G50)
Rutherford County									
Forest City	02	0610EST 0620EST			0	0			Hail (0.75)
Burke County									
Morganton	02	0614EST 0624EST			0	0			Hail (1.00)
Burke County									
Morganton	02	0635EST 0645EST			0	0			Hail (0.88)
Caldwell County									
Baton	02	0645EST 0655EST			0	0			Hail (0.75)
Burke County									
10 NW Morganton	02	0652EST 0702EST			0	0			Hail (1.75)
Avery County									
Hughes	02	0700EST 0710EST			0	0			Hail (1.00)
Caldwell County									
Lenoir	02	0700EST 0710EST			0	0			Hail (0.75)
Burke County									
5 W Morganton	02	0715EST 0725EST			0	0			Hail (0.75)
Cleveland County									
Casar	02	0715EST 0725EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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>							
Catawba County							
Hickory	02	0820EST 0830EST			0	0	Hail (0.88)
Caldwell County							
Lenoir	02	0824EST 0834EST			0	0	Hail (0.75)
Catawba County							
Hickory	02	0900EST 0910EST			0	0	Hail (1.00)
Catawba County							
Newton	02	0900EST			0	0	15K Lightning
Severe thunderstorms moved in from Upstate South Carolina during the early morning hours becoming more widespread across portions of western North Carolina. Large and damaging hail occurred in many locations, and a number of places were affected by two or three different storms. The hail caused extensive damage and the dollar total will no doubt end up in the millions for both property and crop damage. The counties which were hit hardest were McDowell and Rutherford. At one car dealership in Marion the damage reached \$500 thousand quickly. At least one insurance company set up a disaster center to process claims involving many cars and roofs which were hail damaged. Only one downburst was known to have occurred and resulted in trees downed across Highway 221 north of Rutherfordton. At Tryon, an historic house and contents including some antiques, burned to the ground. Lightning at Newton struck several residences, causing fire damage.							
Buncombe County							
Candler	02	1200EST			0	0	Hail (1.00)
Mecklenburg County							
5 SE Charlotte	02	1220EST 1230EST			0	0	Hail (0.88)
Mecklenburg County							
Charlotte	02	1225EST 1235EST			0	0	Hail (1.75)
Buncombe County							
7 S Asheville	02	1328EST 1338EST			0	0	Hail (0.75)
Rutherford County							
Sunshine	02	1330EST 1340EST			0	0	Hail (0.75)
Buncombe County							
7 S Asheville	02	1351EST 1401EST			0	0	Hail (0.88)
Cleveland County							
Shelby	02	1500EST			0	1	Lightning
Henderson County							
2 W Fletcher	02	1515EST 1525EST			0	0	Hail (1.00)
Severe weather carried over from the morning in the foothills and into the piedmont, and developed in the mountains. Large hail caused much (although unknown dollar amounts) damage. The storms were quite slow moving, especially around Asheville and near Hendersonville, and caused hail for some time. In the city of Shelby, a man was struck and injured by lightning while mowing.							
Buncombe County							
Weaverville	13	2000EST			0	0	Thunderstorm Wind (G50)
Gaston County							
Gastonia	13	2003EST 2013EST			0	0	Hail (1.00)
Buncombe County							
Weaverville	13	2010EST			0	0	Funnel Clouds
Cleveland County							
Shelby	13	2030EST			0	0	5K Lightning
Gaston County							
Gastonia	13	2030EST 2200EST			0	0	Flash Flood
Cleveland County							
3 E Shelby	13	2038EST 2048EST			0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Gaston County East Gastonia	13	2100EST			0	0			Thunderstorm Wind (G50)
Mecklenburg County Charlotte	13	2115EST 2230EST			0	0			Flash Flood
Mecklenburg County 7 NNW (Clt)Charlotte/Dougl	13	2130EST			0	0			Thunderstorm Wind (G50)
Jackson County Cullowhee	14	0150EST			0	0			Thunderstorm Wind (G50) Slow moving thunderstorms developed in the mountains and one became briefly severe near Weaverville blowing down some trees. Weak funnel clouds were reported in the same area. Around Shelby, Gastonia and Charlotte late in the evening, thunderstorms repeated over the same areas causing some severe urban flooding. Damaging winds occurred from east Gastonia into the northwest side of the Charlotte area. The most concentrated damage happened northwest of the airport where numerous trees were downed. Some fell on homes and cars and streets were blocked for several hours. Roads were closed around the area because of flooding. Lightning started an attic fire in Shelby. After midnight, thunderstorms moved through the North Carolina mountains after crossing the Tennessee border. One became severe blowing down trees in Jackson county.
Jackson County Cashiers	14	0215EST			0	0			Lightning Two houses were struck by lightning during the early morning of the 14th. Both houses suffered total losses.
Polk County 4 WNW Tryon	14	1700EST 1710EST			0	0			Hail (0.88)
Henderson County 5 S Hendersonville to 5 E Hendersonville	14	1720EST 1740EST			0	0			Thunderstorm Wind (G50)
Cleveland County Shelby	14	1908EST			0	0	10K		Thunderstorm Wind (G50) Severe thunderstorms blew down trees and power lines in Henderson county and caused large hail near the South Carolina border in Polk county. The most damage occurred around Shelby where trees were blown down in 15 locations near town. At least one tree fell on a vehicle and another fell on a house.
Madison County Hot Spgs	20	1440EST 1450EST			0	0			Hail (0.75)
Macon County 3 W Franklin	20	1512EST 1612EST			0	0			Flash Flood
Alexander County Stony Pt	20	1850EST			0	2	50K		Thunderstorm Wind (G50) A slow moving thunderstorm dumped several inches of rain in a short time west of Franklin flooding at least one creek and closing the Old Murphy Road for a time. A severe storm near the Tennessee border caused large hail at the police station in Hot Springs. A downburst blew over a mobile home near the Fredell county border in Alexander county, injuring the two elderly people inside. Trees and power lines were downed over a small area and another mobile home was damaged
Buncombe County Hominy	21	1200EST			0	0	70K		Lightning
Madison County Big Pine	21	1315EST			0	0			Thunderstorm Wind (G50)
Macon County Gold Mine	21	1408EST 1418EST			0	0			Hail (1.50)
Caldwell County Joyceton	21	1600EST			0	0	100K		Lightning
Cleveland County 2 S Boiling Spgs	21	1640EST 1650EST			0	0			Hail (1.00)
Caldwell County Lenoir	21	1704EST			0	0			Thunderstorm Wind (G50)
Alexander County 2 SW Stony Pt	21	1720EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Southwest</u>									
Catawba County									
Hickory	21	1730EST 1740EST			0	0			Hail (1.00)
Catawba County									
Hickory	21	1730EST			0	0			Thunderstorm Wind (G50)
NCZ034									
Caldwell	21	1730EST			0	0			High Wind (G50)
A couple of severe thunderstorms developed in the mountains in the afternoon causing large hail south of Franklin and blowing down trees between Marshall and Hot Springs. A number of trees and power lines were downed at several locations in the foothills and piedmont. The most damage occurred in Hickory where numerous trees and power lines were downed. Caldwell county was hit hard. A cabinet shop and contents burned after being struck by lightning. Thunderstorm winds caused some damage, then high winds following the storm caused trees to fall in the Cahah's Mountain area. Lightning caused a fire in Buncombe county which destroyed a home.									
Burke County									
Morganton	26	1650EST			0	0			Hail (0.75)
Burke County									
Morganton	26	1700EST			0	0	5K		Lightning
Burke County									
Morganton	26	1710EST			0	0			Thunderstorm Wind (G50)
Caldwell County									
10 E Lenoir	26	1715EST 1725EST			0	0			Hail (1.75)
Alexander County									
6 W Taylorsville	26	1725EST 1735EST			0	0			Hail (1.75)
Mecklenburg County									
Davidson	26	1830EST			0	0			Thunderstorm Wind (G50)
Buncombe County									
2 SW Asheville	26	1945EST 2100EST			0	0			Flash Flood
Henderson County									
Fletcher	26	2045EST 2145EST			0	0			Flash Flood
Severe thunderstorms caused several reports of large hail and blew down trees and power lines around Morganton and in northern Mecklenburg county. Heavy rain from storms in the mountains caused relatively minor flooding around parts of Asheville and mostly street and road flooding in Fletcher. Lightning started a fire in Morganton which resulted in some damage to a home.									
<u>NORTH DAKOTA, Central and West</u>									
Grant County									
3 S Elgin	01	1530MST			0	1			Lightning
An 11 year old boy was struck by lightning while fishing with his father. He had holes burned into his shirt and was knocked unconscious. The boy also quit breathing, but his father and a friend used CPR to get the boy breathing again. The boy suffered some ear damage.									
Rolette County									
Belcourt	01	1830CST			0	0			Thunderstorm Wind (G52)
Rolette County									
Rolla	01	1855CST			0	0			Thunderstorm Wind (G50)
Foster County									
4 N Carrington	02	1710CST			0	0			Hail (0.75)
Stark County									
Dickinson	14	1625MST			0	0			Thunderstorm Wind (G52)
Stark County									
Dickinson	14	1635MST			0	0	25K		Hail (1.75)
Numerous reports of car windshields being cracked or broken out. Also reports of damage to the siding of houses. Damage amounts estimated.									
Stark County									
Dickinson	14	1655MST			0	0	20K		Hail (1.00)
A seperate second storm developed to the west of Dickinson and brought more hail to the town. More houses were damaged as well as more cars. Damage amounts estimated.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Stark County									
Gladstone	14	1735MST			0	0			Hail (1.75)
Mclean County									
Roseglen	14	1908CST			0	0			Hail (1.00)
Ward County									
Minot Afb	14	1940CST			0	0			Hail (0.75)
Morton County									
Hebron	14	2039CST			0	0			Hail (1.00)
Bowman County									
4 N Bowman	18	1848MST			0	0			Hail (1.00)
Slope County									
5 E Amidon	18	1900MST			0	0			Hail (0.75)
Bowman County									
6 E Bowman	18	2010MST			0	0			Hail (0.75)
Adams County									
2 W Hettinger	18	2055MST			0	0			Hail (1.75)
Adams County									
10 N Lemmon	18	2110MST			0	0			Hail (0.75)
Bottineau County									
2 NE Bottineau to 3 NE Bottineau	19	1145CST 1155CST	1	15	0	0	10K		Tornado (F0)
									Small tornado touched down briefly. While it was on the ground it tore down a few power poles and some trees. Property damage estimated.
Bottineau County									
4 N Westhope	19	1340CST	0.4	10	0	0	10K		Tornado (F0)
									Another weak tornado formed a few hours after the first. This tornado took out some more power lines and damaged a few small grain bins. Property damage amount estimated.
Rolette County									
Dunseith	19	1415CST			0	0	5K		Hail (1.00)
									reports of windows broken out of houses. damage amount estimated.
Slope County									
Amidon	22	2002MST			0	0			Hail (0.75)
									also wind gusts to 70 mph
Golden Valley County									
Golva	22	2020MST			0	0			Thunderstorm Wind (G56)
Golden Valley County									
8 N Sentinel Butte	22	2038CST			0	0			Thunderstorm Wind (G61)
Billings County									
Fairfield	22	2055MST			0	0			Thunderstorm Wind (G61)
Dunn County									
2 SW Manning	22	2056MST			0	0			Hail (1.00)
Dunn County									
Dunn Center	22	2105MST			0	0			Hail (0.75)
Mclean County									
16 N Turtle Lake	22	2350CST			0	0	15K		Thunderstorm Wind (G70)
									strong thunderstorm winds destroyed 2 wind breaks at a farm. The winds also rolled a 1000 bushel grain bin across the road and moved a 5000 bushel grain bin off of its foundation.
Burke County									
Lignite	23	0230CST			0	0	75K		Lightning
									Lightning struck a holding tank containing salt water. The resulting fire spread to other tanks before the fire could be brought under control. 4 tanks containing oil, 2 tanks containing salt water, and 2 empty tanks were lost. Damage amount estimated.
Foster County									
Juanita	27	1630CST			0	0			Hail (1.60)
Foster County									
Glenfield	27	1725CST			0	0			Hail (0.75)
La Moure County									
8 NW Lamoure	28	0645CST			0	0			Hail (1.75)
La Moure County									
Verona	28	0745CST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
<u>NORTH DAKOTA, Central and West</u>								
Dickey County Forbes	28	0800CST			0	0		Hail (1.75)
Bottineau County 5 W Eckman	28	2106CST	0.2	10	0	0		Tornado (F0) brief tornado touchdown.
Stark County Dickinson	28	2214MST			0	0		Thunderstorm Wind (G61)
Mchenry County 5 W Bantry	28	2215CST	0.2	10	0	0		Tornado (F0) report of brief tornado touchdown in pasture
Mchenry County Deering to 4 NE Deering	28	2218CST	4	20	0	0	25K	Tornado (F0) The tornado touched down just outside of the town. It moved northeast and hit the edge of a farm. A small barn was destroyed by the tornado as it moved through. Damage amount estimated
Stark County 10 SW Dickinson	28	2240MST 2245MST			0	0	25K	Thunderstorm Wind (G65) The strong winds collapsed a pole barn as well as ripped the roofs off of a few out buildings. Damage amount estimated.
Mchenry County 4 E Towner	28	2310CST	0.2	10	0	0		Tornado (F0) brief tornado touchdown reported by law enforcement
Mchenry County 2 N Towner	29	0005CST			0	0		Hail (1.00)
Morton County Mandan	29	0120CST			0	0		Thunderstorm Wind (G65) Large tree knocked down. wind speed estimated.
Burleigh County Bismarck	29	0130CST			0	0		Thunderstorm Wind (G52) 4 inch diameter branches down in northern Bismarck. wind speed estimated.
Bowman County Haley Dam	30	0110MST			0	0		Hail (0.75) The hail left a swath 1/2 mile wide and 1 mile long
Adams County Hettinger	30	0155MST			0	0		Thunderstorm Wind (G50)
Slope County Amidon	01	1530MST			0	0		Hail (0.75) Hail fell 12 SE Amidon
<u>NORTH DAKOTA, East</u>								
Barnes County Valley City	02	0100CST 0400CST			0	0		Flash Flood Over 3 inches of rain fell in Barnes county, causing some basements to fill with 4 feet of water. The westbound lane of Interstate 94 was closed west of Valley City due to water across the roadway.
Sargent County Cayuga	04	1609CST			0	0		Hail (0.75)
Sargent County 3 SW Cayuga	04	1623CST			0	0		Hail (0.75)
Barnes County 10 NW Sanborn	19	1509CST			0	0		Hail (0.75)
Grand Forks County (Rdr)Grand Forks Afb	19	1510CST			0	0		Thunderstorm Wind (G65)
Barnes County 2 W Rogers	19	1520CST			0	0		Hail (0.75)
Grand Forks County Gilby	19	1530CST			0	0		Hail (0.75)
Towner County Perth	19	1530CST			0	0		Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Towner County									
1 NE Perth	19	1535CST			0	0			Hail (0.75)
Steele County									
5 W Hope	19	1550CST			0	0			Hail (0.75)
Steele County									
6.5 W Hope	19	1600CST			0	0			Hail (0.75)
Steele County									
3 W Hope	19	1600CST			0	0			Hail (0.75)
Barnes County									
8 NE Litchville	19	1615CST			0	0			Hail (0.75)
Barnes County									
1 N Litchville	19	1625CST			0	0			Hail (0.75)
Cass County									
West Fargo	19	1825CST			0	0	2K		Thunderstorm Wind
									Gusty winds blew down a billboard-sized video screen at the Red River Valley Fair.
Ransom County									
Mc Leod	19	1930CST			0	0			Thunderstorm Wind (G50)
									Tree limbs were downed due to the strong wind.
Richland County									
4 NE Wyndmere	19	2030CST			0	0			Hail (1.00)
Barnes County									
3.5 E Valley City	22	1820CST			0	0			Hail (0.75)
Richland County									
1 SSW Lidgerwood	22	2050CST			0	0			Hail (1.75)
Richland County									
4 W Fairmount	22	2125CST			0	0			Hail (1.75)
Richland County									
9 S Hankinson	22	2223CST			0	0			Hail (1.25)
Cass County									
West Fargo	23	0000CST			0	0	5K		Thunderstorm Wind
									A small tree fell on a house.
Cass County									
Mapleton	23	0005CST			0	0			Thunderstorm Wind (G52)
Barnes County									
2 S Fingal	24	0630CST			0	0			Flash Flood
									4.6 inches of rain quickly flooded cropland and low-lying areas.
Walsh County									
Minto	25	1800CST			0	0			Hail (0.75)
Eddy County									
7 S Hamar	27	1615CST			0	0			Hail (0.75)
Eddy County									
7 S Hamar	27	1640CST			0	0			Hail (0.75)
Nelson County									
5 SE Lakota	27	1656CST			0	0			Hail (1.50)
Eddy County									
6 S Warwick	27	1700CST			0	0			Hail (1.25)
Nelson County									
Michigan	27	1705CST			0	0			Hail (2.50)
									The hail lasted for 12 minutes.
Nelson County									
Michigan	27	1715CST			0	0	10M		Hail (2.75)
									Most of the 190 homes in Michigan suffered roof damage and broken windows. Many vehicles were also dented. The two implement dealers in Michigan suffered extensive damage to their inventories.
Nelson County									
5 N Michigan	27	1725CST			0	0			Hail (2.50)
Nelson County									
Michigan	27	1725CST			0	0			Hail (2.75)
Grand Forks County									
3 SE Fordville	27	1746CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Nelson County 6 SW Mapes	27	1800CST			0	0			Hail (2.00)
Walsh County Minto	27	1818CST			0	0			Hail (0.75)
Nelson County Tolna	27	2025CST			0	0			Hail (1.50)
Nelson County Mc Ville	27	2050CST			0	0			Hail (2.75)
Nelson County Aneta	27	2106CST			0	0			Hail (1.00)
Nelson County Aneta	27	2110CST			0	0			Hail (1.00)
Grand Forks County Northwood	27	2150CST			0	0			Hail (1.00)
Grand Forks County Northwood	27	2153CST			0	0			Hail (1.75)
Traill County 4.5 N Portland	27	2230CST			0	0			Hail (1.00)
Traill County 1 S Buxton	27	2320CST			0	0			Hail (0.75)
Steele County 12 W Hatton	27	2330CST			0	0			Hail (2.50)
Steele County Golden Lake	27	2340CST			0	0			Hail (1.00)
Grand Forks County 9 NE Sharon	28	0017CST			0	0			Hail (1.75)
Steele County 3 E Sharon	28	0030CST			0	0			Hail (1.75)
Grand Forks County 9 NE Sharon	28	0035CST			0	0			Hail (2.00)
Ransom County 6 S Ft Ransom	28	0735CST	0.5	25	0	0			Tornado (F0)
Sargent County Cogswell	28	0800CST			0	0			Hail (0.75)
Sargent County Milnor	28	0920CST			0	0			Hail (0.75)
The hail lasted for 15 minutes.									
Sargent County Milnor	28	0930CST			0	0			Hail (0.75)
Richland County 5 SE Hankinson	28	1025CST	0.5	25	0	0			Tornado (F0)
Richland County Galchutt	28	1100CST			0	0	30K		Lightning
Lightning struck the steeple of a church, igniting a fire in the bell house.									
<u>OHIO, East</u>									
Coshocton County Coshocton	01 05	1720EST 1100EST			0	0			Flood
Prolonged heavy rainfall across the area caused tributaries of the Muskingum River to rise to near or just over their banks. Such tributaries included: Killbuck Creek, Kokosing River, and the Tuscarawas River. The increased runoff pushed the Muskingum River at Coshocton above its 13 foot flood stage on the evening of the 1st.									
State Routes 60 and 715, along the Killbuck Creek and Kokosing River respectively, were closed due to high water by the morning of the 2nd. The Muskingum River at Coshocton rose to near 14.5 feet on the morning of the 4th. The water level did not recede below flood stage until the morning of June 8.									
Columbiana County Rogers	02	1000EST 1130EST			0	0			Flood
Heavy rainfall, mainly in the northeast part of the county, led to low-land flooding and high water on State Routes 7 and 154 near									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OHIO, East									
Rogers as Little Bull Creek and its tributaries went out of their banks.									
Monroe County Woodsfield to Lewisville	02 03	1500EST 0600EST			0	0			Flash Flood
Minor low-land flooding was first reported in Woodsfield. In 45 minutes 1.2 inches of rain was recorded at Woodsfield and Lewisville. State Route 26 between Graysville and Rinard Mills was closed. SR 260 was closed near Sycamore Valley. Wills, Skin, Rich Fork and Wolfpen Creeks all went out of their banks. Numerous small streams were also flooded. SR 26, CR 68 and Twp 562 flooded near the Little Muskingum River. Flooding was also reported along SR 379 in Seneca Township. SR 78, west of Lewisville, was closed.									
Noble County Caldwell to Batesville	02 03	1530EST 0700EST			0	0			Flash Flood
Between 3 and 4 pm EST, a total of 3 inches of rain was reported 4 miles south of Caldwell. The strong thunderstorm also dropped pea size hail. Other thunderstorms in the county also caused significant street flooding. Street flooding was first reported in Caldwell. Numerous small streams were reported out of their banks. The intersection of SR 260 and SR 724 near Carlisle was flooded. CR 12 and SR 821 near Ava was flooded. A 1-2 mile stretch of SR 513 between Summersfield and Batesville was flooded. SR 215 was closed near Belle Valley.									
Muskingum County Duncan Falls	02	1548EST			0	0			Hail (0.75)
Muskingum County Zanesville	02	1600EST 1630EST			0	0	5K		Thunderstorm Wind
Thunderstorm winds downed several trees and power lines throughout Muskingum County.									
Belmont County Barnesville	02	1700EST 1740EST			0	0	10K		Flash Flood
A few basements were flooded in Barnesville. Five miles south-southeast of Barnesville, Little Captina Creek went out of its banks and water flooded Route 800S.									
Muskingum County Zanesville	02 03	1730EST 0000EST			0	0			Flash Flood
Numerous roads throughout the county were reported flooded.									
Columbiana County North Georgetown	03	0700EST 0800EST			0	0			Flood
Minor low-land flooding was reported near North Georgetown.									
OHZ048 Coshocton	05 08	1100EST 1000EST			0	0			Flood
After cresting nearly 1.5 feet above its 13 foot flood stage, the Muskingum River at Coshocton finally went below flood stage on the morning of June 8.									
Coshocton County 5 N Coshocton	18	1220EST 1520EST			0	0			Flash Flood
Repeated heavy rainfall from thunderstorms led to significant road flooding north of Coshocton. SR 83 near CR 405 and CR 207 was reported flooded. Also, SR 621 was briefly closed due to flooding. Eight nearby county roads were also flooded.									
Tuscarawas County 5 SW Mineral City	18	1300EST 1500EST			0	0	1K		Flash Flood
SR 800, 0.5 miles south of Dover Dam, had a mudslide that covered the road. A tree also fell in the slide. Flooding was also reported along SR 800 near Mineral City. SR 39 between Dover and Sugarcreek was also flooded and impassable.									
Columbiana County 1 SW Columbiana	18	1320EST 1400EST			0	0			Flash Flood
Two feet of water covered the intersection of Lower Elkton and Metz Roads following torrential thunderstorm rains.									
Carroll County 1.5 S Mechanicstown to Dellroy	18	1430EST 1515EST			0	0	1K		Flash Flood
Thunderstorm rains producing rainfall rates in excess of 1.0 inches per hour and training repeatedly over the same area led to significant road flooding across parts of Carroll County. SR 524, south of Mechanicstown was flooded. Just northwest of Perrysville, Bramble Road near SR 332 was flooded. An some trees were down due to mudslides onto SR 39 near Dellroy.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, East</u>									
Carroll County									
Wattsville	18	1715EST 1800EST			0	0			Flash Flood
Hazel Run flooded from previous heavy rains and flooded the nearby roads of SR 524 and Avon Road near Wattsville in eastern Carroll County.									
<u>OHIO, North</u>									
OHZ017									
Hancock									
	01	0530EST			0	5	1M		Flood
	03	1345EST							
The Blanchard River at Findlay exceeded its flood stage of 11 feet and crested at 15.5 feet at 1000 on 06/02/97. Local police used boats to ferry residents to and from their homes along the river when access was cut off due to the flooding. US Route 68 was closed as well as St. Rts. 236 and 568. The Red Cross used Findlay High School as a shelter and housed 60 people while another 106 people stayed at local hotels. The only north-south road open near Findlay for 14 hours was Interstate 75, which became clogged with traffic. A family of five was taken to the hospital after being overcome by fumes from a gas water pump which they were using to pump out their house.									
Fulton County									
Countywide	01	0710EST 1505EST			0	0	25K	15K	Flood
Henry County									
Countywide	01	0710EST 1510EST			0	0	30K	20K	Flood
Lucas County									
Countywide	01	0710EST 1505EST			0	0	70K	20K	Flood
Ottawa County									
Countywide	01	0710EST 1515EST			0	0	90K	20K	Flood
Seneca County									
Countywide	01	0710EST 1520EST			0	0	70K	40K	Flood
Wood County									
Countywide	01	0710EST 1510EST			0	0	70K	20K	Flood
Hancock County									
Countywide	01	0723EST 1515EST			0	0	100K	40K	Flood
Wyandot County									
Countywide	01	0729EST 1151EST			0	0	70K	40K	Flood
Erie County									
Countywide	01	0730EST 1520EST			0	0	50K	15K	Flood
Holmes County									
Countywide	01	0733EST 0935EST			0	0	20K	10K	Flood
Sandusky County									
Countywide	01	0740EST 1520EST			0	0	90K	50K	Flood
Huron County									
Countywide	01	0800EST 1151EST			0	0	70K	10K	Flood
Lorain County									
Countywide	01	0815EST 1510EST			0	0	80K	40K	Flood
Marion County									
Countywide	01	0815EST 1518EST			0	0	60K	20K	Flood
Medina County									
Countywide	01	0815EST 0959EST			0	0	70K	20K	Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Crawford County Countywide	01	0855EST 1525EST			0	0	60K	20K	Flood
Ashland County Countywide	01	0858EST 1545EST			0	0	80K	20K	Flood
Knox County Countywide	01	0900EST 1200EST			0	0	40K	15K	Flood
Morrow County Countywide	01	0900EST 1520EST			0	0	50K	20K	Flood
Richland County Countywide	01	0900EST 1203EST			0	0	70K	40K	Flood
Cuyahoga County Countywide	01	0915EST 1545EST			0	0	40K	15K	Flood
Summit County Countywide	01	0920EST 1329EST			0	0	40K	10K	Flood
Geauga County Countywide	01	0930EST 1039EST			0	0	30K	10K	Flood
Wayne County Countywide	01	0950EST 1513EST			0	0	40K	20K	Flood
Holmes County Countywide	01	1100EST 1535EST			0	0	40K	10K	Flood
Lake County Countywide	01	1150EST 1555EST			0	0	30K	15K	Flood
Stark County Countywide	01	1156EST 1517EST			0	0	30K	15K	Flood
Portage County Countywide	01	1215EST 1605EST			0	0	40K	20K	Flood
<p>Heavy thunderstorm rain that began in May continued to fall on saturated ground, causing flooding of streets, streams, homes, fields and low lying areas. Many roads were closed and berms washed out forcing the closing of some schools. In Bay Township (Ottawa County), Muddy Creek overflowed its banks and flooded a trailer park. Firemen dropped their hoses into the floodwater and used it to extinguish the blaze when one of the trailers caught on fire. In Bettsville (Seneca), the local fire department sandbagged several houses to keep the waters of Wolf Creek from flooding the homes. In Twinsburg (Portage), several homes, roads and low lying areas were flooded by Tinker's Creek, which rose to nearly six feet. Center Valley Park was closed and a footbridge in East Idlewood Park was under water. In Medina County at Chippewa Lake, 25 homes in Gloria Glens were flooded. Residents were evacuated and used rowboats to get to and from their houses. In Summit County, Sagamore Road in Sagamore Hills was washed out, while in Bath Township Yellow Creek Road and Boston Mills Road were closed due to mudslides. Another mudslide occurred in Garfield Heights (Cuyahoga) when the rain washed out an embankment and buried three corvettes at an auto performance shop. Also in Cuyahoga County, Martin Luther King Boulevard was closed for two hours due to flooding. In Wayne County, 29 people were evacuated on Prairie Lane Road and 23 people were provided temporary housing in local hotels. Health officials throughout Northern Ohio warned residents that wells and cisterns could be contaminated from the floodwaters and should be cleaned and tested before further use. Crop losses occurred due to continued delays in planting. A number of farmers planted soybeans, a less valuable crop, instead of corn.</p>									
OHZ009									
Erie									
	01	0900EST			0	0			Flood
The Vermilion River at Vermilion flooded low lying areas. The flooding was enhanced by high water levels in Lake Erie.									
Erie County									
Lake Erie Lakeshore	01	0900EST			0	0	200K		Storm Surge
	02	1500EST							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Character of Storm		
					Killed Injured	Property Crops			
OHIO, North									
Lorain County									
Lake Erie Lakeshore	01	0900EST			0	0	75K	Storm Surge	
	02	1500EST							
Lucas County									
Lake Erie Lakeshore	01	0900EST			0	0	25K	Storm Surge	
	02	1500EST							
Ottawa County									
Lake Erie Lakeshore	01	0900EST			0	0	200K	Storm Surge	
	02	1500EST							
Sandusky County									
Lake Erie Lakeshore	01	0900EST			0	0	25K	Storm Surge	
	02	1500EST							
<p>Businesses and homes were flooded when strong northeasterly winds and near record high lake levels produced waves of six to eight feet, aggravating shoreline erosion and slowing discharge of stream outflow into Lake Erie. In Erie County, seventy five to one hundred families evacuated near the Vermilion and Huron Rivers, while those on Mudbrook Road moved to the second floor to escape the flood waters. Also in Erie County, Riverside Avenue residents were evacuated as well as those in Franklin Flats, Rye Beach and White's Landing. Roads along the shoreline were flooded and covered with so much sand and debris that they had to be cleared with snow plows in Port Clinton and Marblehead. On Catawba Island, rising water flooded buildings and cars were submerged. Charter services cancelled trips and hundreds of travelers were stranded on South Bass Island when most ferry trips were also cancelled. In Erie County, the north end of Jackson Pier collapsed. As the water receded, a large number of fish were left behind in peoples yards.</p>									
OHZ011 Cuyahoga									
	01	0930EST			0	0		Flood	
<p>The Chagrin River at Gates Mills overflowed its banks causing flooding of roads.</p>									
OHZ011 Cuyahoga									
	01	1000EST			0	0	100K	Flood	
	02	1645EST							
<p>The Cuyahoga River at Independence exceeded its flood stage of 16 feet and crested at 20.8 feet at 1820 EST on 06/01/97. Several roads, homes and businesses were affected.</p>									
OHZ018 Seneca									
	01	1100EST			0	0	100K	Flood	
	02	1100EST							
<p>The Sandusky River at Tiffin exceeded its flood stage of 8 feet and crested at 11.4 feet at 0600 EST on 06/02/97. Flooding occurred along several county roads and some homes were also affected.</p>									
OHZ011 Cuyahoga									
	01	1100EST			0	0	400K	Flood	
<p>The Cuyahoga River at Valley View overflowed its banks. A number of businesses and numerous basements and roads were flooded, cars were submerged and some schools were closed on 06/02/97 because of impassable roads. Thirty five people were evacuated. The Cuyahoga Valley National Recreation Area and Cleveland Metroparks closed the federal park and the Brecksville Reservation because of Cuyahoga River flooding.</p>									
OHZ036 Marion									
	01	1115EST			0	0	50K	Flood	
	06	0600EST							
<p>The Scioto River at Prospect exceeded its flood stage of 9 feet and crested at 12.3 feet at 2000 EST on 06/04/97. Extensive flooding of crop land and roads occurred. Route 203 was closed.</p>									
Huron County									
Countywide	01	1152EST			0	0	25K	15K	Flood
		1435EST							
Wyandot County									
Countywide	01	1152EST			0	0	25K	15K	Flood
		1400EST							
Knox County									
Countywide	01	1201EST			0	0	25K	15K	Flood
		1550EST							
Richland County									
Countywide	01	1204EST			0	0	25K	15K	Flood
		1535EST							
Geauga County									
Countywide	01	1231EST			0	0	25K	15K	Flood
		1500EST							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Summit County									
Countywide	01	1330EST 1555EST			0	0	25K	15K	Flood
									Heavy thunderstorm rain caused flooding of low lying areas, roads and at least one basement. A bridge was underwater in a park in Twinsburg (Summit County). The rain, in some cases, aggravated flooding that had started during earlier thunderstorm rains.
OHZ012									
									Lake
	01	1200EST			0	0			Flood
									The Chagrin River at Eastlake overflowed its banks but flooding was confined to low lying areas.
OHZ006									
									Wood
	01	1200EST			0	0	50K		Flood
									The Portage River at Pemberville overflowed its banks and caused minor flooding, including flooding of the Township Hall.
OHZ032									
									Stark
	01	1300EST			0	0	50K		Flood
									The Tuscarawas River at Canal Fulton overflowed its banks, flooding the village park and some roads.
OHZ030									
									Ashland
	01	1300EST			0	0			Flood
									The Black Fork of the Mohican River flooded near Loudonville, but most of the flooding was confined to low lying areas near the river.
OHZ012									
									Lake
	01	1300EST			0	0			Flood
									The Grand River overflowed its banks forcing the closing of several roads.
OHZ008									
									Sandusky
	01	1330EST			0	0	150K		Flood
									The Sandusky River flooded low lying areas including a marina and campground along the Sandusky Bay. Campers had to be moved and 23 of 24 cottages were flooded. The flooding was enhanced by high water levels in Lake Erie and the Sandusky Bay.
OHZ014									
									Ashtabula
	01	1400EST			0	0	300K		Flood
									The Grand River overflowed its banks and forced some residents from their homes in Autinburg Township. A total of 78 homes and cottages were damaged.
OHZ012									
									Lake
	01	1430EST 1815EST			0	0	50K		Flood
									The Chagrin River at Willoughby exceeded its flood stage of 11 feet and crested at 11.3 feet at 1736 EST on 06/01/97. Flood waters affected low lying areas including Daniels Park.
OHZ036									
									Marion
	01	1500EST			0	0	25K		Flood
									The Kokosing River at Mount Vernon overflowed its banks. Roads were closed and some residents voluntarily left their homes due to the flooding.
Lorain County									
Countywide	01	1511EST 1715EST			0	0	30K	20K	Flood
Wayne County									
Countywide	01	1514EST 1745EST			0	0	30K	20K	Flood
Ottawa County									
Countywide	01	1516EST 1805EST			0	0	30K	20K	Flood
Stark County									
Countywide	01	1518EST 1810EST			0	0	30K	20K	Flood
Marion County									
Countywide	01	1519EST 1740EST			0	0	30K	20K	Flood
Morrow County									
Countywide	01	1521EST 1750EST			0	0	30K	20K	Flood
Holmes County									
Countywide	01	1536EST 1720EST			0	0	30K	20K	Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Sandusky County									
	01	1549EST 1755EST			0	0	30K	20K	Flood
	Heavy thunderstorm rain caused flooding of low lying areas and roads. Several roads were closed due to the flooding. The rain, in some cases, was aggravated by flooding that had started from earlier thunderstorm rains.								
OHZ008	Sandusky								
	01	1515EST			0	0	175K		Flood
	04	1100EST							
	The Portage River at Woodville exceeded its flood stage of 9 feet and crested at 13.3 feet at 0500 EST on 06/03/97. Many streets and residences were flooded.								
OHZ027	Wyandot								
	01	1900EST			0	0		25K	Flood
	02	1000EST							
	The Sandusky River at Upper Sandusky exceeded its flood stage of 13 feet and crested at 13.9 feet at 0600 EST on 06/02/97. Flooding occurred on some crop land and county roads along the river.								
OHZ009	Erie								
	01	1945EST			0	0	100K		Flood
	03	2100EST							
	The Huron River at Milan exceeded its flood stage of 14 feet and crested at 19.9 feet at 1914 EST on 06/03/97. There was flooding of cottages and homes in the lagoon communities. Flood waters also affected small businesses near Route 250 and several roads were impassable.								
OHZ038	Holmes								
	01	2000EST			0	0			Flood
	06	0330EST							
	The Killbuck Creek at Killbuck exceeded its flood stage of 16 feet and crested at 16.6 feet at 2000 EST on 06/02/97. Flooding was confined to low lying areas.								
OHZ036	Marion								
	01	2100EST			0	0		25K	Flood
	04	0500EST							
	The Scioto River at LaRue exceeded its flood stage of 11 feet and crested at 13.2 feet at 0550 EST on 06/02/97. Flooding occurred in crop lands and in low lying areas of the highways. Some schools were closed because of impassable roads.								
OHZ023	Trumbull								
	02	0300EST			0	0			Flood
	03	0415EST							
	The Mahoning River at Leavittsburg exceeded its flood stage of 10 feet and crested at 12.2 feet at 1400 EST on 06/02/97. Flooding was confined to low lying areas.								
OHZ005	Henry								
	02	0315EST			0	0			Flood
	05	2010EST							
	The Maumee River at Napoleon exceeded its flood stage of 12 feet and crested at 13.5 feet at 0600 EST on 06/03/97. Flooding was confined to low lying areas.								
OHZ008	Sandusky								
	02	1145EST			0	0	50K		Flood
	03	1900EST							
	The Sandusky River at Fremont exceeded its flood stage of 10 feet and crested at 13.8 feet at 1300 EST on 06/02/97. Flooding occurred in rural areas and on some county roads. Some homes were affected in Whitmans Grove.								
OHZ006	Wood								
	02	1330EST			0	0	25K		Flood
	04	1330EST							
	The Maumee River at Grand Rapids exceeded its flood stage of 15 feet and crested at 16.2 feet at 1100 EST on 06/03/97. There was considerable flooding of low lying areas. Extensive clean-up was needed due to rubble left along the river.								
OHZ033	Mahoning								
	02	2145EST			0	0			Flood
	04	0815EST							
	The Mahoning River at Youngstown exceeded its flood stage of 10 feet and crested at 11.1 feet at 0900 EST on 06/03/97. Flooding was confined to low lying areas.								
OHZ003	Lucas								
	02	2145EST			0	0	75K		Flood
	04	0815EST							
	The Maumee River at Waterville exceeded its flood stage of 9 feet and crested at 12.2 feet at 0900 EST on 06/03/97. There was flooding of Side Cut Park and other low lying areas. Basement flooding occurred in residences along the river.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
OHZ021									
Summit									
	05	0200EST			0	0			Flood
	09	1000EST							
The Cuyahoga River at Old Portage exceeded its flood stage of 8 feet and crested at 12.8 feet at 1330 EST on 06/05/97. Flooding occurred on several roads in low lying areas.									
Trumbull County									
Kinsman									
	12	1435EST			0	0			Flood
Heavy thunderstorm rain caused flooding of low lying areas and streets, especially near Route 7.									
Stark County									
Countywide									
	18	1500EST			0	0	10K		Flash Flood
Heavy thunderstorm rain caused flooding of streets and low lying areas. In Plain Township, the heavy rain caused a 36 inch storm sewer to collapse and create a 8' x 4' sinkhole at Stadium Park.									
Fulton County									
Fayette									
	21	1930EST			0	0			Flood
Lucas County									
Toledo									
	21	2000EST			0	0			Flood
Sandusky County									
Bellevue									
	21	2130EST			0	0			Flood
Heavy thunderstorm rain caused flooding of streets, railroad tracks and low lying areas.									
Wood County									
Hoytville									
	21	1950EST			0	0	5K		Thunderstorm Wind
Hancock County									
Countywide									
	21	2000EST			0	0	40K		Thunderstorm Wind
Sandusky County									
Countywide									
	21	2012EST			0	0	10K		Thunderstorm Wind
Ottawa County									
Countywide									
	21	2030EST			0	0	5K		Thunderstorm Wind
Seneca County									
Countywide									
	21	2046EST			0	0	10K		Thunderstorm Wind
Trees, limbs, power lines and at least one utility pole were downed, especially in the areas of Gibsonburg and Lindsey (Sandusky County), and Findlay and Benton Ridge (Hancock). Barns and outbuildings were also damaged in Benton Ridge, and fires occurred in Gibsonburg when power lines fell and transformers were struck by lightning.									
Lucas County									
Toledo									
	25	1710EST			0	0			Flood
Heavy thunderstorm rain caused flooding of streets.									
Lucas County									
Countywide									
	25	1715EST			0	0	10K		Thunderstorm Wind
Wood County									
Perrysburg									
	25	1733EST			0	0	10K		Thunderstorm Wind
Ottawa County									
Countywide									
	25	1800EST			0	0	10K		Thunderstorm Wind
Trees and power lines were downed.									
Summit County									
Countywide									
	25	1836EST			0	0	30K		Thunderstorm Wind
Ashtabula County									
Countywide									
	25	1850EST			0	0	75K		Thunderstorm Wind
Portage County									
Countywide									
	25	1900EST			0	0	30K		Thunderstorm Wind
Trumbull County									
Countywide									
	25	2010EST			0	0	10K		Thunderstorm Wind
Richland County									
Countywide									
	25	2015EST			0	0	10K		Thunderstorm Wind
Trees, large limbs and power lines were downed, especially in the areas of Aurora, Hiram and Garrettsville (Portage County), and Andover (Ashtabula). Also, in Andover, part of a barn was destroyed. In Twinsburg (Summit), winds were estimated to 60 miles per hour.									
Ashtabula County									
Andover									
	25	1850EST			0	0	50K		Flood
Heavy thunderstorm rain caused flooding of many basements.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, North</u>									
Summit County									
Twinsburg	25	1853EST			0	0			Hail (0.75)
Medina County									
Brunswick	25	1954EST			0	0			Flood
Heavy thunderstorm rain caused flooding of several streets.									
Seneca County									
Countywide	29	1440EST			0	0	5K		Thunderstorm Wind
Sandusky County									
Bellevue	29	1605EST			0	0	5K		Thunderstorm Wind
Trees, large limbs and power lines were downed.									
Huron County									
Norwalk	29	1500EST			0	0	100K		Lightning
Lightning struck two barns and the resulting blaze destroyed them both, although two cows were rescued.									
Erie County									
Castalia	29	1600EST			0	0			Hail (0.88)
Lucas County									
Berkey	30	1415EST			0	0	10K	5K	Flood
Fulton County									
Swanton	30	1450EST			0	0	10K	5K	Flood
Ottawa County									
Countywide	30	1630EST			0	0	10K	5K	Flood
Heavy thunderstorm rain caused flooding of fields, roads, and low lying areas. There was one foot of water standing in the streets of Elmore and Oak Harbor (Ottawa County).									
<u>OHIO, Northwest</u>									
NONE REPORTED.									
<u>OHIO, Southeast</u>									
Washington County									
Belpre to Marietta	01	2045EST 2230EST			0	0	10K		Flash Flood
Streams overflowed and blocked roads in the southeastern portion of the county.									
Washington County									
Belpre	02	1630EST 1800EST			0	0	10K		Flash Flood
Several township roads were flooded. No dwellings were affected.									
Lawrence County									
3 N Kitts Hill	02	1745EST 1900EST			0	0	20K		Flash Flood
Rains of 2 to 3 inches fell over the small basin of Paddle Creek. Water washed over roads and residential yards. One resident's car was washed down the creek.									
Gallia County									
Porter	02	1805EST			0	0			Hail (0.75)
Lawrence County									
Aid	02	1805EST			0	0			Hail (0.75)
<u>OHIO, Southwest</u>									
Adams County									
Countywide	01	0000EST 0300EST			0	0	5K		Flood
Heavy rainfall continued from late on May 31st causing many roads to be flooded.									
Brown County									
Countywide	01	0000EST 0300EST			0	0	5K		Flood
Heavy rainfall continued from late on May 31st causing many roads to be flooded from area creeks and streams.									
Clermont County									
Countywide	01	0000EST 0700EST			0	0	10K		Flood
Roads were flooded by persistent heavy rainfall. One person was trapped in a car in Miami Township.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OHIO, Southwest									
Highland County									
Countywide	01	0000EST 0300EST			0	0	5K		Flood
									Heavy rainfall continued from late on May 31st causing area creeks and streams to flood mainly in the western parts of the county.
Warren County									
Countywide	01	0200EST 1000EST			0	0	10K		Flood
									Numerous roads closed due to high water.
Butler County									
Countywide	01	0330EST 1000EST			0	0	450K		Flood
									Many county roads were flooded by persistent heavy rainfall. The New London Road bridge was washed out.
Hamilton County									
Countywide	01	0330EST 0700EST			0	0	10K		Flood
									Several roads closed due to flooding.
Putnam County									
Countywide	01	1100EST 1330EST			0	0	5K		Flood
									Several roads flooded due to persistent heavy rainfall.
Auglaize County									
Countywide	01	1230EST 1330EST			0	0	5K		Flood
									Several roads were flooded due to heavy rainfall.
Mercer County									
Countywide	01	1230EST 1330EST			0	0	5K		Flood
									Numerous roads flooded due to heavy rainfall.
Clark County									
Countywide	01	1700EST 1900EST			0	0	10K		Flood
									Thunderstorms with extremely heavy rainfall fell on already saturated ground causing water to flood across many county roads.
Franklin County									
Countywide	01	1900EST 2200EST			0	0	20K		Flood
									Thunderstorms with very heavy rainfall fell on an already saturated ground. Numerous roads were closed.
Champaign County									
Countywide	01	1930EST 2030EST			0	0	75K		Flood
									Thunderstorms with very heavy rainfall fell on already saturated ground causing water to overflow from ditches, sewers, and creeks. Roads were flooded across the county, but the hardest hit area was in the eastern part of the county. In North Lewisburg, 40 people were evacuated from an apartment complex and some roads were washed out. Overall, in less than 24 hours, nearly 5 inches of rain fell on parts of the county.
Madison County									
Countywide	01	1945EST 2200EST			0	0	100K		Flash Flood
									Thunderstorms trained across the same areas with the northern part of the county being hit the hardest. Many area creeks and streams rose out of their banks and numerous roads were closed due to flooding.
Logan County									
Countywide	01	1955EST 2200EST			0	0	5K		Flood
									Numerous roads closed due to torrential rains from thunderstorms.
Union County									
Countywide	01	2000EST 2215EST			0	0	3M		Flash Flood
									Thunderstorms moved repeatedly over the same areas causing most creeks and streams to overflow their banks and flood county roads. Several residents were evacuated as up to 7.5 inches of rain fell in less than 24 hours.
Delaware County									
Countywide	01	2100EST 2230EST			0	0	100K		Flash Flood
									From 4-7 inches of rain fell from late on May 31st until the night of June 1st, with flooding occurring as thunderstorms trained across the county during the evening. Numerous roads were flooded especially in the southern half of the county.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OHIO, Southwest									
Licking County									
Buckeye Lake	02	1750EST 1900EST			0	0	5K		Flood
Numerous roads flooded due to heavy rainfall moving over already saturated ground.									
Franklin County									
Countywide	02	1800EST 2000EST			0	0	10K		Flood
Thunderstorm rains brought area creeks and streams out of their banks.									
Scioto County									
Countywide	02	1800EST 2030EST			0	0	50K		Flash Flood
Thunderstorms with torrential rainfall caused area creeks and streams to flood county roads. One family was evacuated due to high water, and several vehicles were swept away in Minford.									
Fairfield County									
Countywide	02	1830EST 2000EST			0	0	5K		Flood
Heavy rainfall from thunderstorms which fell on already saturated ground caused county roads to be flooded.									
Pike County									
Countywide	02	1930EST 2030EST			0	0	5K		Flood
Heavy thunderstorm rains flooded county roads, with the northern part of the county being affected the most.									
Madison County									
Countywide	02	1945EST 2200EST			0	0	100K		Flood
Heavy rainfall fell for the third day in a row causing most county creeks and streams to rise further out of their banks. Numerous roads were closed due to the flooding.									
Adams County									
Countywide	02	2000EST 2100EST			0	0	10K		Flood
Heavy rainfall from thunderstorms which fell on already saturated ground caused county creeks and streams to rise out of their banks.									
Clark County									
South Vienna	02	2000EST 2200EST			0	0	5K		Flood
Numerous roads flooded from torrential thunderstorm rains.									
Franklin County									
Countywide	02	2050EST 2300EST			0	0	10K		Flood
All rainfall had stopped by this time in Franklin county, but area creeks and streams in the western part of the county continued to rise from very heavy rainfall that was still occurring in Madison county and then flowing into Franklin county.									
A cut-off low pressure in the upper levels of the atmosphere remained across the Ohio valley from late on May 31st through June 2nd. Heavy showers fell across Southern and Central Ohio from the 31st through the morning hours of the 1st. In the afternoon of both the 1st and 2nd, additional heavy rainfall occurred with afternoon thunderstorm development mainly over Central and South-Central parts of the state. A few areas around Columbus received nearly 10 inches of rain over the 3 day period.									
OHZ016-053-055-064-071-073-077>078-081>082	01 06	0100EST 2100EST			0	0	1M		Flood
A closed upper low pressure system remained across the Ohio valley from late on May 31st until June 2nd and dropped very heavy rainfall across central and southern Ohio. Several rivers rose out of their banks as a result of the heavy rainfall. The Scioto River flooded from Columbus to the Ohio river. At Frank Road in Columbus, the river crested at 24.19 feet around noon est on the 2nd. At Circleville, the river crested at 20.91 feet around 1100 am est on the 4th. Flood stage is 14.0 feet. At Chillicothe, the river crested at 16.25 feet around midnight est on the 5th. Flood stage is 16.0 feet. At Piketon, the river crested at 21.0 feet around 500 am est on the 6th.									
The Little Miami river also rose out of its banks. At Kings Mills, the river crested at 20.0 feet around 700 am est on the 1st. Flood stage is 17.0 feet. At Milford, the river crested at 19.33 feet around 500 am est on the 1st. Flood stage is 17.0 feet.									
The Great Miami river rose out of its banks at Miamitown. The river crested at 20.25 feet around 600 pm est on the 1st. Flood stage is 16.0 feet.									

Storm Data and Unusual Weather Phenomena

June 1997

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, Southwest

The Ohio Brush Creek also rose out of its banks at West Union. The creek crested at 16.5 feet around 0600 am est on the 1st. Flood stage is 15.0 feet.

The Blanchard river at Ottawa rose out of its banks at Ottawa. The river crested at 28.4 feet around 200 am est on the 2nd. Flood stage is 23.0 feet.

The Mad River at Springfield reached a crest of 12.0 feet around 900 pm est on the 1st. Flood stage is 11.0 feet.

The Big Darby Creek rose to an estimated 15.6 feet causing extensive flooding in Franklin and Pickaway counties. Flood stage is estimated to be 10.0 feet.

Hamilton County

Countywide

08	2330EST				0	0	20K		Flood
09	0400EST								

Heavy rainfall trained across Hamilton county for several hours causing water to flood numerous roads. Interstate 75 was closed for a while just north of the Cincinnati city limits.

Hamilton County

Covedale

16	1630EST				0	0	20K		Lightning
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Lightning hit a house which started a fire causing significant damage.

Hamilton County

Countywide

16	1800EST				0	0	10K		Flood
	1930EST								

Heavy rainfall caused numerous roads to be flooded, mainly in Anderson Township.

Clermont County

Batavia

16	1825EST				0	0	10K		Flood
	1945EST								

Persistent heavy rainfall caused roads to be flooded. Several cars became submerged in the water.

Franklin County

Countywide

16	1830EST				0	0	5K		Flood
	2000EST								

Heavy rainfall flooded some roads and underpasses.

Delaware County

Countywide

16	1900EST				0	0	5K		Flood
	2000EST								

Heavy rainfall for several hours caused many roads to be flooded across the county.

Hamilton County

Cincinnati

18	0850EST				0	0	5K		Flood
	1000EST								

Numerous roads flooded due to persistent heavy rainfall.

Warren County

Mason to

Morrow

18	0930EST				0	0	5K		Flood
	1030EST								

Persistent heavy rainfall caused creeks to overflow their banks along Mason-Morrow road.

Clermont County

Countywide

18	1000EST				0	0	5K		Flood
	1145EST								

Several roads were flooded from heavy rainfall.

Fairfield County

Pickerington

18	1130EST				0	0	5K		Flood
	1215EST								

Several roads closed due to heavy rainfall.

Licking County

Countywide

18	1200EST				0	0	5K		Flood
	1345EST								

Heavy rainfall caused area creeks and streams to overflow their banks and flood roads.

Licking County

Newark

18	1200EST				0	0	20K		Lightning
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Lightning struck a house which caused a fire that damaged the shed and a storage room.

Adams County

Manchester

19	1800EST				0	0	10K		Flood
	1900EST								

An isolated thunderstorm dropped an estimated 4 inches of rain in 2 hours causing water to flood across roads and a culvert to be

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<u>OHIO, Southwest</u>									
									washed out.
Van Wert County									
Van Wert	21	1844EST 1845EST			0	0			Thunderstorm Wind (G57)
									An observer measured a thunderstorm wind gust of 67 mph.
Putnam County									
Ottawa	21	1910EST 1915EST			0	0	5K		Thunderstorm Wind (G50)
									Numerous large limbs downed.
Allen County									
Countywide	21	2030EST 2040EST			0	0	10K		Thunderstorm Wind (G50)
									Numerous trees downed
Auglaize County									
Wapakoneta to New Bremen	21	2030EST 2040EST			0	0	10K		Thunderstorm Wind (G50)
									Numerous trees and power lines downed.
Hardin County									
Ada	21	2045EST 2050EST			0	0	5K		Thunderstorm Wind (G50)
									Several large tree limbs downed.
Paulding County									
Countywide	25	1745EST 1800EST			0	0	10K		Thunderstorm Wind (G50)
									Numerous trees downed.
Putnam County									
Columbus Grove	25	1830EST			0	0			Thunderstorm Wind (G54)
									An observer measured a gust to 64 mph.
Fayette County									
Pancoastburg	30	1930EST 2015EST			0	0	5K		Flood
									Persistent heavy rainfall caused water to flood across Rt. 207.
Van Wert County									
5 E Middle Pt to Middle Pt	30	2045EST 2115EST			0	0	5K		Flood
									Up to 4.5 inches of rain caused water to flood across numerous roads.
<u>OKLAHOMA, Eastern</u>									
Craig County									
Ketchum	12	0315CST			0	0	0.10K		Thunderstorm Wind
Rogers County									
3 NE Talala	12	0345CST			0	0	0.50K		Thunderstorm Wind
Mayes County									
5 E Pryor	12	0415CST			0	0	0.10K		Thunderstorm Wind
Cherokee County									
4 N Tahlequah	12	0505CST			0	0	0.10K		Thunderstorm Wind
Cherokee County									
Tahlequah	12	0509CST			0	0	0.10K		Thunderstorm Wind
Cherokee County									
4 E Pettit	12	0510CST			0	0	0.50K		Thunderstorm Wind
Cherokee County									
2 SE Tahlequah	12	0510CST			0	0	0.10K		Thunderstorm Wind
Adair County									
Stilwell	12	0512CST			0	0			Hail (0.75)
									Severe thunderstorms moved across northeast Oklahoma during the early morning of June 12th. Strong thunderstorm winds tore a small awning off a motor home and downed several large tree limbs at Cherokee Landing State Park 4 miles east of Pettit, and a privacy fence was blown down 3 miles northeast of Talala. 2 trees were blown down onto power lines in Ketchum, and a large tree was blown down across State Highway 82 4 miles north of Tahlequah. Trees were also blown down 5 miles east of Pryor, in Tahlequah, and 2 miles southeast of Tahlequah, and dime size hail fell at Stilwell.

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Eastern									
Creek County									
Oilton	13	0045CST			0	0	0.10K		Thunderstorm Wind
Osage County									
1 NE Pawhuska	13	0045CST			0	0	125K		Thunderstorm Wind
Washington County									
1 NW Dewey	13	0125CST			0	0	2K		Thunderstorm Wind (G52)
Delaware County									
4 NE Grove	13	0135CST			0	0			Hail (1.00)
Tulsa County									
Glenpool	13	0135CST			0	0	10K		Thunderstorm Wind
Craig County									
3 N Welch	13	0145CST			0	0	0.10K		Thunderstorm Wind
Tulsa County									
Tulsa	13	0200CST			0	0			Hail (0.75)
Wagoner County									
Coweta	13	0213CST			0	0	0.10K		Thunderstorm Wind
Wagoner County									
Porter	13	0230CST			0	0			Hail (0.75)
<p>Severe thunderstorms moved across northeast Oklahoma during the very early morning of June 13th. Strong thunderstorm winds destroyed 1 mobile home and badly damaged 7 manufactured homes 1 mile northeast of Pawhuska, and 3 houses were damaged by strong winds in the Glen Park Addition in Glenpool. 1 of the homes in Glenpool had its roof peeled back. 6 power poles were also blown down in Glenpool. 60 mile an hour winds caused minor damage to a house 1 mile northwest of Dewey, and trees were blown down 3 miles north of Welch and in Coweta. Several large tree limbs were blown down in Oilton, and quarter size hail fell 4 miles northeast of Grove. Dime size hail fell at the intersection of 11th Street South and Memorial Drive in the city of Tulsa, and dime size hail also fell at Porter.</p>									
Le Flore County									
Nr Page	13	1750CST			0	0			Hail (0.75)
Le Flore County									
2 SE Page	13	1805CST			0	0			Hail (2.50)
Le Flore County									
Page	13	1811CST			0	0			Hail (1.75)
Le Flore County									
Page	13	1815CST			0	0			Hail (2.00)
<p>A severe thunderstorm produced tennis ball size hail 2 miles southeast of Page, hail up to 2 inches in diameter at Page, and dime size hail near Page.</p>									
Le Flore County									
Heavener	15	1535CST			0	0			Hail (0.75)
<p>A severe thunderstorm produced dime size hail at Heavener.</p>									
Osage County									
Foraker	16	0030CST			0	0			Thunderstorm Wind (G52)
Washington County									
.5 E Copan	16	0100CST			0	0	0.10K		Thunderstorm Wind
Nowata County									
Lenapah	16	0115CST			0	0	0.10K		Thunderstorm Wind
Tulsa County									
1 NE Sperry	16	0252CST			0	0			Hail (0.75)
<p>Severe thunderstorms moved across northeast Oklahoma during the very early morning of June 16th. Strong thunderstorm winds broke the tops off trees and downed large tree limbs 0.5 miles east of Copan, and several large tree limbs were blown down in Lenapah. Thunderstorm winds gusted to 60 miles an hour in Foraker, and dime size hail fell 1 mile northeast of Sperry.</p>									
Okfuskee County									
1 NW Pharoah	16	1600CST			0	0			Hail (1.25)
Okfuskee County									
Pharoah	16	1610CST			0	0			Hail (0.75)

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June 1997

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					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Latimer County 2 S Red Oak	16	1618CST			0	0			Hail (1.00)
Okmulgee County Henryetta	16	1635CST			0	0			Hail (0.75)
Mcintosh County Stidham	16	1645CST			0	0			Hail (1.75)
Pittsburg County 5 S Hartshorne	16	1645CST			0	0			Thunderstorm Wind (G52)
Le Flore County Panama	16	1653CST			0	0			Hail (0.75)
Le Flore County Spiro	16	1700CST			0	0			Hail (0.75)
Le Flore County Spiro	16	1710CST			0	0			Hail (0.75)
Mcintosh County 1 NW Eufaula	16	1710CST	0.1	30	0	0			Tornado (F0)
Mcintosh County 7 N Eufaula	16	1712CST			0	0			Hail (1.00)
Latimer County 5 N Wilburton	16	1713CST			0	0			Hail (1.00)
Haskell County Whitefield	16	1715CST			0	0			Hail (1.00)
Mcintosh County 3 N Eufaula	16	1715CST			0	0			Hail (5.50)
Mcintosh County 5 N Eufaula	16	1715CST			0	0	4K		Hail (4.50)
Mcintosh County Eufaula	16	1718CST			0	0			Thunderstorm Wind (G61)
Mcintosh County 2 SSW Onapa	16	1721CST			0	0			Hail (1.75)
Okmulgee County Beggs	16	1722CST			0	0			Hail (1.00)
Mcintosh County Eufaula	16	1725CST			0	0			Hail (1.75)
Haskell County 2 W Enterprise	16	1745CST	0.1	30	0	0			Tornado (F0)
Mcintosh County Texanna	16	1745CST			0	0	10K		Hail (2.00)
Mcintosh County 1 S Eufaula	16	1748CST			0	0			Hail (1.00)
Haskell County Whitefield	16	1800CST			0	0			Hail (1.75)
Haskell County Whitefield	16	1800CST			0	0			Thunderstorm Wind (G52)
Muskogee County Porum	16	1805CST			0	0			Hail (1.00)
Muskogee County 2 S Porum	16	1805CST			0	0			Hail (1.00)
Sequoyah County 2 W Short	16	1825CST			0	0			Hail (0.75)
Le Flore County 2 SE Talihina	16	1830CST			0	0	0.10K		Thunderstorm Wind
Osage County 7 SW Burbank	16	1840CST			0	0			Thunderstorm Wind (G56)
Osage County 7 SW Burbank	16	1845CST			0	0			Thunderstorm Wind (G54)
Osage County 7 SW Burbank	16	1850CST			0	0			Thunderstorm Wind (G50)

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					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Osage County Fairfax	16	1850CST			0	0	0.50K		Thunderstorm Wind
Le Flore County Nr Octavia	16	1900CST			0	0	0.10K		Thunderstorm Wind
Osage County 5 W Hominy	16	1912CST			0	0			Thunderstorm Wind (G52)
Le Flore County Zafra	16	1915CST			0	0			Thunderstorm Wind (G52)
Pittsburg County 4 N Mc Alester	16	1930CST			0	0			Hail (1.75)
Pittsburg County Mc Alester	16	1930CST			0	0			Hail (1.25)
Pittsburg County 4 N Mc Alester	16	1930CST			0	0	0.10K		Thunderstorm Wind
Pittsburg County 3 N Mc Alester	16	1941CST			0	0			Hail (1.75)
Pittsburg County Mc Alester	16	1941CST			0	0			Hail (1.00)
Le Flore County Octavia	16	1945CST			0	0	0.50K		Thunderstorm Wind
Creek County 8 S Bristow	16	1955CST			0	0			Hail (0.75)
Okfuskee County 3 SW Welty	16	1955CST			0	0			Hail (1.75)
Okfuskee County Welty	16	1955CST			0	0			Hail (1.75)
Okfuskee County Welty	16	1955CST			0	0			Thunderstorm Wind (G61)
Pittsburg County 3 N Mc Alester	16	1955CST			0	0			Hail (1.75)
Washington County Bartlesville	16	1955CST			0	0			Hail (0.88)
Washington County Bartlesville	16	1955CST			0	0			Thunderstorm Wind (G52)
Haskell County Mc Curtain	16	2000CST 2100CST			0	0			Flash Flood
Latimer County W. Latimer County	16	2000CST 2100CST			0	0			Flash Flood
Latimer County Wilburton	16	2000CST 2100CST			0	0			Flash Flood
Le Flore County Poteau	16	2000CST 2200CST			0	0			Flash Flood
Nowata County 5 W Nowata	16	2000CST			0	0	0.10K		Thunderstorm Wind
Nowata County 7 W Nowata	16	2000CST			0	0	0.10K		Thunderstorm Wind
Okfuskee County 3 S Mason	16	2000CST	0.1	30	0	0			Tornado (F0)
Nowata County 3 SW Nowata to 1 SW Nowata	16	2005CST			0	0	5K		Thunderstorm Wind
Pittsburg County Mc Alester	16	2010CST			0	0			Hail (0.75)
Okfuskee County 4 ENE Mason	16	2015CST			0	0			Hail (1.75)

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					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Okfuskee County 4 ENE Mason	16	2015CST			0	0	40K		Thunderstorm Wind (G70)
Washington County Bartlesville	16	2015CST			0	0			Hail (0.88)
Washington County Bartlesville	16	2015CST			0	0			Thunderstorm Wind (G52)
Okfuskee County 2 SW Okfuskee	16	2030CST			0	0	10K		Thunderstorm Wind
Pittsburg County Mc Alester	16	2030CST 2130CST			0	0			Flash Flood
Pittsburg County West Of Mc Alester	16	2030CST 2130CST			0	0			Flash Flood
Okmulgee County Henryetta	16	2040CST			0	0			Thunderstorm Wind (G76)
Okmulgee County 1 W Schuler	16	2040CST	0.1	30	0	0			Tornado (F0)
Le Flore County Heavener	16	2046CST			0	0			Thunderstorm Wind (G52)
Muskogee County Muskogee	16	2100CST			0	0			Hail (1.00)
Muskogee County Muskogee	16	2107CST			0	0			Hail (1.50)
Okfuskee County Weleetka	16	2115CST			0	0	0.10K		Thunderstorm Wind
Pittsburg County Indianola	16	2115CST			0	0			Thunderstorm Wind (G52)
Mcintosh County Eufaula	16	2130CST 2200CST			0	0			Flash Flood
Pittsburg County Nr Quinton	16	2130CST 2200CST			0	0			Flash Flood
Cherokee County Tahlequah	16	2200CST			0	0	0.10K		Thunderstorm Wind
Muskogee County Porum	16	2200CST 2230CST			0	0			Flash Flood
Cherokee County In+N Of Tahlequah	16 17	2230CST 0000CST			0	0			Flash Flood

Severe thunderstorms moved across eastern Oklahoma during the late afternoon and evening of June 16th. The storms spawned 4 brief tornadoes and also produced damaging winds and large hail. The tornadoes touched down at 1710CST 1 mile northwest of Eufaula, at 1745CST 2 miles west of Enterprise, at 2000CST 3 miles south of Mason, and at 2040CST just west of Schuler. Large trees were downed by the tornado 3 miles south of Mason, but no structural damage occurred with any of the tornadoes, and all 4 tornadoes were rated F0 in intensity.

Thunderstorm winds estimated at 80 miles an hour damaged 2 homes, a school annex, and 6 barns and sheds 4 miles east northeast of Mason. Numerous trees were also blown down at a pecan orchard in this same area. Strong thunderstorm winds downed trees and caused structural damage 2 miles southwest of Okfuskee, and a tree was blown over into a trailer 3 miles southwest of Nowata. Strong winds blew a window out of City Hall and downed large tree limbs in Fairfax, and a fence was blown down in Octavia. Trees were blown down near Octavia and 4 miles north of McAlester, and trees and several large tree limbs were blown down 5 miles west of Nowata. Large tree limbs were blown down 2 miles southeast of Talihina, 7 miles west of Nowata, in Weleetka, and in Tahlequah. Thunderstorm winds gusted to 75 to 100 miles an hour in Henryetta, to 60 to 80 miles an hour in Welty, and to 70 miles an hour in Eufaula. Thunderstorm winds gusted up to 65 miles an hour at an automated observing site 7 miles southwest of Burbank and to 60 miles an hour at several other locations in eastern Oklahoma.

5 to 5.50 inch diameter hail fell 3 miles north of Eufaula, and softball size hail went through the roof of a house and broke car windshields 5 miles north of Eufaula. 2 inch diameter hail damaged several vehicles in Texanna, and golfball size hail fell at Stidham, 2 miles south southwest of Onapa, at Eufaula, at Whitefield, 4 miles north of McAlester, 3 miles north of McAlester, 3

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OKLAHOMA, Eastern

miles southwest of Welty, at Welty, and 4 miles east northeast of Mason. Half dollar to 1.50 inch diameter hail fell at Muskogee, and half dollar size hail fell 1 mile northwest of Pharoah. Quarter to half dollar size hail fell at McAlester, and dime to quarter size hail fell at numerous other locations in eastern Oklahoma.

The storms also produced very heavy rainfall which resulted in flash flooding. In Haskell County, numerous roads were covered by water in McCurtain, and Main Street in McCurtain was flooded. In Latimer County, numerous county roads were flooded in the western part of the county, and Bandy Creek on the southwest side of Wilburton overflowed its banks. In Le Flore County, several streets in Poteau were flooded, and a bridge on Tarvey Road in Poteau was barricaded. In Pittsburg County, Gene Stipe Boulevard in McAlester was covered by high water near Electric Road, and many other city streets in McAlester were flooded. State Highway 31 was closed west of McAlester due to high water, and numerous county roads were flooded near Quinton. In McIntosh County, numerous city streets were flooded in Eufaula. In Muskogee County, numerous streets were covered by high water on the south side of Porum. In Cherokee County, street flooding occurred in Tahlequah, and numerous county roads were covered by high water in and north of Tahlequah. Woodard Road north of Tahlequah had the worst flooding in Cherokee County.

Osage County 3 NE Bowring	25	1950CST							
				0	0	0.10K			Thunderstorm Wind

Nowata County 1 E Wann	25	2040CST							
				0	0	0.10K			Thunderstorm Wind

Washington County Bartlesville	25	2045CST							
				0	0				Hail (0.75)

Severe thunderstorms moved across extreme northeast Oklahoma during the evening of June 25th. Strong thunderstorm winds downed power lines just east of Wann, and large tree limbs were blown down 3 miles northeast of Bowring. Dime size hail fell in downtown Bartlesville.

Washington County 1 N Copan	25	2300CST							
				0	0	2.5K			Thunderstorm Wind

A severe thunderstorm produced strong winds which damaged a barn, broke a power pole, and downed trees just north of Copan.

Sequoyah County 7 SE Sallisaw	27	1515CST							
				0	0	0.10K			Thunderstorm Wind

Delaware County Cleora	27	1555CST							
				0	0				Thunderstorm Wind (G52)

Rogers County Inola	27	1645CST							
				0	0				Hail (0.88)

Rogers County 1 E Inola	27	1700CST 1730CST							
				0	0				Flash Flood

Isolated severe thunderstorms developed in northeast and east central Oklahoma during the afternoon of June 27th. Strong thunderstorm winds downed numerous large tree limbs 7 miles southeast of Sallisaw, and thunderstorm winds gusted to 60 miles an hour in Cleora. Dime to nickel size hail fell at Inola. The storms also produced very heavy rainfall which resulted in flash flooding just east of Inola. Old Highway 33 was covered by high water, and nearby ditches overflowed.

Sequoyah County 9 W Sallisaw to 3 W Sallisaw	28	0900CST 1100CST							
				0	0				Flash Flood

Thunderstorms in Sequoyah County produced very heavy rainfall which resulted in flash flooding. Extensive flooding of campgrounds occurred between Vian and Sallisaw, and several county roads in the area were impassable.

Osage County Shidler	29	1855CST							
				0	0				Thunderstorm Wind (G61)

Osage County 1 W Pawhuska	29	1909CST							
				0	0				Thunderstorm Wind (G52)

Osage County 5 W Pawhuska	29	1914CST							
				0	0				Thunderstorm Wind (G52)

Osage County 4 NE Bowring	29	1945CST							
				0	0				Thunderstorm Wind (G61)

Osage County 4 NE Bowring	29	1955CST							
				0	0				Thunderstorm Wind (G70)

Pawnee County Cleveland	29	1955CST							
				0	0	0.10K			Thunderstorm Wind

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					Killed	Injured	Property	Crops	
<u>OKLAHOMA, Eastern</u>									
Tulsa County									
Skiatook	29	1958CST			0	0			Thunderstorm Wind (G56)
Washington County									
4 W Copan	29	2000CST			0	0			Thunderstorm Wind (G54)
Creek County									
1 S Bristow	29	2010CST			0	0	0.10K		Thunderstorm Wind
Creek County									
Nr Sapulpa	29	2015CST			0	0	0.10K		Thunderstorm Wind
Nowata County									
Lenapah	29	2020CST			0	0			Thunderstorm Wind (G56)
Pawnee County									
Westport	29	2025CST			0	0	0.10K		Thunderstorm Wind
Osage County									
3 NW Tulsa	29	2030CST			0	0	0.10K		Thunderstorm Wind
Tulsa County									
Sand Spgs	29	2030CST			0	0			Thunderstorm Wind (G52)
Tulsa County									
Tulsa	29	2035CST			0	0			Thunderstorm Wind (G56)
Rogers County									
Chelsea	29	2040CST			0	0	0.10K		Thunderstorm Wind
Craig County									
9 N Vinita	29	2110CST			0	0	0.10K		Thunderstorm Wind
Mayes County									
Chouteau	29	2115CST			0	0	0.10K		Thunderstorm Wind
Wagoner County									
Wagoner	29	2125CST			0	0	0.10K		Thunderstorm Wind
Delaware County									
5 NW Grove	29	2200CST			0	0	25K		Thunderstorm Wind
Delaware County									
6 NW Jay	29	2210CST			0	0			Thunderstorm Wind (G63)
<p>Severe thunderstorms moved across northeast Oklahoma during the evening of June 29th and produced damaging winds. Strong thunderstorm winds downed 9 large trees at Bears Den Resort 5 miles northwest of Grove, and 2 cars were damaged by a fallen tree at the resort. In addition, 3 boats were damaged and 2 boats were unmoored from the dock at the resort. Power lines were blown down in Chelsea, and trees were blown down in Cleveland, 1 mile south of Bristow, and in Wagoner. Numerous trees and power lines were downed by 70 mile an hour winds in Shidler, and large tree limbs were blown down near Sapulpa, in Westport, at Tulsa Country Club 3 miles northwest of Tulsa, 9 miles north of Vinita, and in Chouteau. Trees and tree limbs were blown down by 73 mile an hour winds 6 miles northwest of Jay and by 60 mile an hour winds in Sand Springs. Thunderstorm winds gusted up to 80 miles an hour at Hulah Dam 4 miles northeast of Bowring, to 60 to 70 miles an hour in Lenapah, and to 60 to 65 miles an hour at several other locations in northeast Oklahoma.</p>									
Haskell County									
Kinta	29	2340CST			0	0	0.10K		Thunderstorm Wind
A severe thunderstorm produced strong winds which downed numerous large tree limbs in Kinta.									
<u>OKLAHOMA, Extreme Southeast</u>									
Mccurtain County									
Smithville	29	1200CST			0	0			Flash Flood
Numerous roads were underwater from nearly 8 inches of rain that fell during the morning. The Intersection of Hwy 259 and Hwy 4 was closed due to the high water.									
<u>OKLAHOMA, Panhandle</u>									
Beaver County									
1 SSW Beaver	14	2020CST 2105CST			0	0			Thunderstorm Wind (G55)
Measured on Oklahoma Mesonet network observation. A severe thunderstorm over the eastern Oklahoma Panhandle produced high winds.									
Texas County									
Tyrone	15	1755CST			0	0			Thunderstorm Wind (G57)
Texas County									
Tyrone	15	1756CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	
<u>OKLAHOMA, Panhandle</u>								
Beaver County								
5 N Turpin	15	1810CST 1814CST	0.5	100	0	2	150K	Tornado (F1)
								Six mobile homes and two barns destroyed. Power lines down. The tornado track was estimated. Severe thunderstorms over the central and eastern Oklahoma Panhandle produced large hail and high winds along with a tornado which did damage and injuries in the northwest corner of Beaver county Oklahoma.
Beaver County								
Beaver	16	1520CST			0	0		Hail (1.00)
								A severe thunderstorm over the eastern Oklahoma Panhandle produced large hail.
Texas County								
9 S Guymon	24	1651CST			0	0		Hail (1.00)
Texas County								
12 ESE Hardesty	24	1812CST			0	0		Hail (1.75)
Beaver County								
Turpin	24	1820CST			0	0		Hail (0.75)
								Thunderstorms across the Oklahoma Panhandle produced large hail. Pea size hail from 7 miles northwest of Keyes at 18:00 CST was reported one foot deep and damaged wheat and corn crops. Damage was estimated at \$100 K.
Texas County								
1 W Hooker	29	1845CST			0	0		Thunderstorm Wind (G51)
								Measured by the Oklahoma Mesonet observation. Thunderstorms over the central Oklahoma Panhandle produced a report of high winds from the Oklahoma Mesonet.
<u>OKLAHOMA, Western, Central and Southeast</u>								
Beckham County								
7 N Elk City	02	0728CST			0	0		Lightning
								Lightning struck a fiberglass storage tank, causing it to explode and setting it on fire.
Beckham County								
Sayre	02	1020CST			0	0	4K	Lightning
								Lightning struck and set fire to a house, gutting the kitchen.
Beckham County								
Sayre	02	1030CST			0	0	2K	Lightning
								Lightning struck a house, destroying several appliances and blowing holes in the sheetrock and eaves.
Caddo County								
8 N Apache	09	1436CST			0	0		Hail (0.75)
Comanche County								
4 E Elgin	09	1445CST			0	0		Hail (1.00)
Comanche County								
5 W Fletcher	09	1455CST			0	0		Hail (0.75)
								at Lake Ellsworth
Cleveland County								
2 SW Norman to 5 S Slaughterville	09	1500CST 1530CST			0	0	25K	Thunderstorm Wind (G61)
								Severe thunderstorm winds caused scattered damage along a path from southwest of Norman to south of Slaughterville. A survey conducted the following day (June 10th) by a National Weather Service meteorologist revealed a path extending along the South Canadian River from 2 miles southwest of Norman to 5 miles south of Slaughterville with wind speeds estimated at 60 to 70 mph. The primary damage along this track was uprooted trees and a few areas of minor tree and limb damage near the beginning of the path. As the storm progressed toward Slaughterville, damage became more significant, with structural damage both west and south of Slaughterville. Specifically, power lines were downed 2 miles south of Noble, a barn was unroofed 1 mile east of Lexington, and power poles were broken 3.5 miles east of Lexington. One mile west of Slaughterville, the roof was blown off of an old frame house and 12 mobile homes in a mobile home park were damaged, including one that was completely unroofed. About 5 miles south of Slaughterville, a tree was blown over onto a house and pickup truck.
Grady County								
6 SE Rush Springs	09	1500CST			0	0		Hail (1.75)
Comanche County								
Lawton	09	1515CST			0	0		Hail (1.75)
Grady County								
Rush Springs	09	1515CST			0	0		Hail (0.75)
Stephens County								
2 E Marlow	09	1515CST			0	0	0.10K	Thunderstorm Wind
								Several trees were toppled by severe thunderstorm winds.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Beckham County 9 W Sayre	09	1520CST			0	0			Hail (1.00)
Grady County 4 SE Rush Springs	09	1520CST			0	0			Thunderstorm Wind (G52)
McClain County Goldsby	09	1520CST			0	0	2.5K		Thunderstorm Wind
									Severe thunderstorm winds blew the roof off a barn in Goldsby on Highway 74 and blew a tractor-trailer rig over on I-35, completely closing the north-bound lanes of the interstate for 2 hours.
Comanche County 4 E Lawton	09	1535CST			0	0			Hail (1.00)
									at KSWO TV
Beckham County 4 S Elk City	09	1558CST			0	0			Hail (0.75)
Stephens County 9 NW Duncan	09	1600CST			0	0			Hail (0.75)
Beckham County 5 N Carter	09	1605CST			0	0			Hail (1.75)
Grady County 12 SE Alex	09	1610CST			0	0			Hail (1.00)
Washita County 1 W Sentinel	09	1615CST			0	0			Hail (1.75)
Cotton County 5 S Hulen	09	1625CST			0	0			Hail (0.75)
Garvin County Foster	09	1629CST			0	0			Hail (1.75)
Stephens County 1 E Marlow	09	1630CST			0	0	0.10K		Thunderstorm Wind
									Severe thunderstorm winds downed trees and tree limbs.
Carter County 3 S Ratliff City	09	1652CST			0	0			Hail (1.00)
Pontotoc County 3 NE Ada	09	1700CST			0	0	0.40K		Thunderstorm Wind
									Power poles were blown down 3.5 miles east of Hwy 99.
Pontotoc County 6 NE Ada	09	1715CST			0	0	12K		Thunderstorm Wind
									Severe thunderstorm winds blew two small barns away and damaged the roofs of several homes. Eleven power poles were blown down in Oakman and trees were downed across several roads.
Pontotoc County 4 NE Ada	09	1715CST			0	0	40K		Thunderstorm Wind
									One mobile home and ten barns were destroyed by severe thunderstorm winds. Numerous trees were blown down, blocking several roads.
Carter County 1 N Milo	09	1720CST			0	0			Hail (0.75)
Jefferson County 1 N Ringling	09	1725CST			0	0			Hail (0.88)
Beckham County 7 SW Carter	09	1730CST			0	0			Hail (1.00)
Stephens County Comanche	09	1730CST			0	0	0.10K		Thunderstorm Wind
									Trees were blown down across a roadway.
Kiowa County 8 N Mountain Park	09	1740CST			0	0			Hail (0.75)
Carter County Ardmore	09	1745CST			0	0	10K		Thunderstorm Wind
									Severe thunderstorm winds at the downtown airport broke one plane from its tie-downs and blew it into 2 others, damaging all three aircraft.
Greer County 6 SW Mangum	09	1750CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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 1 W Blair	09	1758CST			0	0			Hail (1.50)
Jackson County Blair	09	1804CST			0	0			Hail (2.00)
Love County 2 W Courtney	09	1805CST			0	0			Hail (1.00)
Coal County 5 N Centrahoma	09	1810CST			0	0			Hail (0.75)
Coal County 5 N Centrahoma	09	1810CST			0	0	0.01K		Thunderstorm Wind
Several three to four inch diameter tree limbs were blown down.									
Bryan County Durant	09	1830CST			0	0	0.20K		Thunderstorm Wind
Power lines were blown down.									
Carter County Ardmore	09	1830CST			0	1	25K		Flash Flood
Run-off from torrential rain (about 2 inches in 45 minutes) swept two motorists into swift floodwaters and resulted in rapid-water rescues in both of the incidents. In the first incident, a woman driving a mini-van pulled into a parking lot to await the end of the downpour, but was washed by runoff into a nearby, full drainage ditch. The water in the ditch completely submerged the van with the woman trapped inside. She survived by breathing the air that was trapped in a shallow bubble at the ceiling of the van. A police officer, with the help of 2 bystanders, was finally able to break a window and pull her from the van. The woman was treated for shock and hypothermia, but was otherwise uninjured. Her van, valued at \$20,000, was totalled.									
In the second incident, a man driving a car across a flooded low-water bridge was swept into a creek. He escaped from the car and was pulled to shore by nearby residents with a garden hose. Damage to the vehicle was estimated at \$5000.									
Marshall County 4.5 SE Lebanon	09	1830CST			0	0			Thunderstorm Wind (G51)
measured at the Oklahoma Mesonet site									
Marshall County 8 W Madill	09	1830CST			0	0			Thunderstorm Wind (G61)
Kiowa County Snyder	09	1835CST			0	0			Hail (0.88)
Marshall County Madill	09	1844CST			0	0	8K		Thunderstorm Wind (G61)
Severe thunderstorm winds up to 70 mph blew the roof off a realtor's office and destroyed a storage building. The high school scoreboard was damaged and a tree was blown over onto an archway at a city park. Numerous other trees were downed, as well as power lines and signs throughout town.									
Jackson County Martha	09	1845CST			0	0			Hail (2.75)
Comanche County Sterling	09	1848CST			0	0			Hail (1.75)
Comanche County Medicine Park	09	1856CST			0	0			Hail (1.00)
Bryan County 2 W Caddo	09	1900CST			0	0			Hail (1.75)
Jackson County Altus	09	1900CST			0	0	1K		Hail (1.75)
Hail slightly larger than golf balls broke the windows out of a pickup truck.									
Comanche County 5 W Cache	09	1905CST			0	0			Hail (0.88)
Stephens County 1 N Marlow	09	1913CST			0	0			Hail (1.75)
Comanche County Lawton	09	1916CST 1920CST			0	0			Hail (1.00)
Atoka County 3 S Caney	09	1925CST			0	0			Hail (0.75)
Bryan County Durant	09	1930CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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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OKLAHOMA, Western, Central and Southeast

Stephens County Marlow	09	1930CST			0	0			Hail (1.75)
Cotton County 5 N Randlett	09	1935CST			0	0			Hail (1.00)
Cotton County 5 SW Randlett	09	1945CST			0	0			Hail (0.88)
Bryan County Durant	09	2006CST			0	0	0.10K		Thunderstorm Wind

Severe thunderstorm winds downed trees as large as 2 feet in diameter.

Summary of events of June 9, 1997:

Severe thunderstorms developed and moved across the southern half of Oklahoma during the afternoon and evening of the 9th. Reports of large hail and severe thunderstorm winds and wind damage were widespread across the region, with isolated flash flooding in Ardmore in Carter County.

The flash floods in the Ardmore area resulted in two swift-water rescues. The largest hail (up to the size of baseballs) was reported in Martha in Jackson County, but numerous reports of golf ball-sized hail were received from across the region. The strongest estimated wind speeds reached 70 mph from Norman to Slaughterville in Cleveland County and in and west of Madill in Marshall County.

The resulting damage from the strong winds was most significant in the Slaughterville area of Cleveland County, with major damage to homes and outbuildings. Other structural damage occurred in Goldsby in McClain County, northeast of Ada in Pontotoc County, in Ardmore in Carter County, and in Madill in Marshall County. Reports of damage to trees or power lines came from Comanche and east of Marlow in Stephens County, north of Centrahoma in Coal County, and Durant in Bryan County.

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

Blaine County Canton	11	1015CST			0	0	3K		Thunderstorm Wind (G52)
									Limbs up to 8 inches in diameter were blown down across a widespread area on the north side of town. Trees were also uprooted, a carport was destroyed, and a barn was severely damaged by the severe winds.
Blaine County Watonga	11	1025CST			0	0			Hail (0.75)
Canadian County Karns	11	1305CST			0	0			Hail (1.25)
Canadian County Calumet	11	1330CST			0	0			Hail (0.75)
Cleveland County Norman	11	1400CST			0	0	9.5K		Lightning
									Lightning struck a house, setting the attic on fire.
Pontotoc County Oil Center	11	1430CST			0	0			Lightning
									Lightning struck an oil storage tank and set it on fire.

Summary of midday events of June 11, 1997:

Midday thunderstorms moved across central Oklahoma, bringing severe winds, large hail, and lightning damage. Hail as large as half dollars fell in Karns in Canadian County. Winds estimated at 60 mph caused widespread tree damage and limited structural damage in Canton in Blaine County. Lightning from the storms set fires in Norman in Cleveland County and in Oil Center in Pontotoc County. See preceding individual Storm Data entries for further details and additional reports.

Kiowa County 4 SE Hobart	11	2215CST			0	0			Thunderstorm Wind (G51)
									measured at the Oklahoma Mesonet site
Kiowa County 4 SE Hobart	11	2220CST			0	0			Thunderstorm Wind (G52)
									measured at the Oklahoma Mesonet site
Ellis County 7 N Gage	12	1930CST			0	0			Hail (0.75)
Ellis County 2 SW Goodwin	12	2027CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Beckham County									
1 W Sweetwater	12	2030CST			0	0			Hail (1.75)
Roger Mills County									
5 NW Sweetwater	12	2030CST			0	0			Hail (0.88)
Harper County									
7 NW Laverne	12	2035CST			0	0			Hail (1.75)
Harper County									
1 SW Buffalo	12	2050CST			0	0			Thunderstorm Wind (G50)
		measured at the Oklahoma Mesonet site							
Roger Mills County									
Cheyenne	12	2130CST			0	0			Hail (1.00)
Woodward County									
6 SE Quinlan	12	2200CST			0	0			Hail (0.75)
Alfalfa County									
3 N Lambert	12	2215CST			0	0			Hail (1.00)
Beckham County									
5 SW Elk City	12	2215CST			0	0			Hail (0.88)
Woods County									
Alva	12	2215CST			0	0			Thunderstorm Wind (G52)
		measured at the Oklahoma Mesonet site							
Alfalfa County									
Cherokee	12	2230CST			0	0			Thunderstorm Wind (G52)
Washita County									
Burns Flat	12	2230CST			0	0	0.01K		Thunderstorm Wind
		Tree limbs up to six inches in diameter were blown down.							
Canadian County									
6 NW Karns	12	2245CST			0	0			Thunderstorm Wind (G56)
Washita County									
Retrop	12	2250CST			0	0			Hail (0.75)
Blaine County									
Canton	12	2300CST			0	0	6K		Thunderstorm Wind
		A barn, damaged by severe thunderstorm winds the day before, was completely destroyed. Also, tin on the front of a mini-mall was damaged.							
Kay County									
Blackwell	12	2330CST 2345CST			0	0	1K		Thunderstorm Wind (G52)
		Numerous limbs were downed and trees were uprooted in Blackwell and half of the roof was blown off a barn southwest of town by severe thunderstorm winds estimated at 60 mph.							
Noble County									
4 NE Billings	12	2330CST			0	0			Hail (0.75)
Kay County									
Ponca City	12	2343CST			0	0			Hail (0.75)
Noble County									
Perry	13	0000CST			0	0	0.20K		Thunderstorm Wind
		Severe thunderstorms winds downed numerous limbs throughout Perry and snapped two power poles.							
Payne County									
8 W Stillwater	13	0010CST			0	0			Hail (0.88)
Noble County									
2 SE Marland	13	0015CST			0	0			Thunderstorm Wind (G52)
Payne County									
Cushing	13	0040CST			0	0	8.5K		Thunderstorm Wind
		Severe thunderstorm winds destroyed a hay barn just south of Cushing. Debris from the barn was then blown onto a truck, breaking its windows, and into a neighboring house. Also, power poles were broken and numerous limbs were downed throughout Cushing.							
Cleveland County									
Norman	13	0230CST			0	0			Hail (0.75)
		on the northwest side of town							
Carter County									
Ardmore	13	0239CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Carter County									
1 N Lone Grove	13	0241CST			0	0			Hail (1.75)
McClain County									
Purcell	13	0258CST			0	0			Hail (0.88)
Love County									
5 N Marietta	13	0300CST			0	0			Hail (0.75)
Cleveland County									
Norman	13	0302CST			0	0			Flash Flood
			High water covered the intersection of Rock Creek Road and Flood Avenue.						
Marshall County									
2 NW Mcmillan	13	0305CST			0	0			Hail (0.88)
Marshall County									
Kingston	13	0320CST			0	0			Hail (0.88)
Bryan County									
5 W Utica	13	0400CST			0	0			Hail (0.75)
Summary of events of June 12, 1997 to early morning of June 13, 1997:									
<p>During the evening of the 12th, severe thunderstorms moved into northwestern Oklahoma from the Texas panhandle. Through the evening, these storms spread across northern Oklahoma, and other areas of storms developed and moved across north-central and central Oklahoma. By early morning of the 13th, the thunderstorms had spread into south-central Oklahoma. Reports of large hail and damaging winds were the most common, although isolated flash flooding occurred in Norman in Cleveland County.</p> <p>The largest hail (up to the size of golf balls) fell near Sweetwater in Beckham County, northwest of Laverne in Harper County, and near Lone Grove in Carter County. The highest estimated wind speed was 65 mph northwest of Karns in Canadian County. Wind damage was reported in Burns Flat in Washita County, in Canton in Blaine County, in Blackwell in Kay County, in Perry in Noble County, and in Cushing in Payne County.</p> <p>See preceding individual Storm Data entries for further details and additional reports.</p>									
Choctaw County									
Hugo	13	1500CST			0	0			Lightning
			Lightning struck the top of a brick building in downtown Hugo, showering bricks onto the street below.						
Choctaw County									
Messer	13	1515CST			0	0			Hail (1.00)
Tillman County									
Davidson	14	2040CST			0	0			Thunderstorm Wind (G52)
Tillman County									
Frederick	14	2110CST			0	0			Thunderstorm Wind (G52)
Tillman County									
Frederick	14	2120CST			0	0			Lightning
			Lightning struck the main substation, knocking out electrical power across most of the town. Power was out in most areas through Sunday morning, June 15.						
Ellis County									
2 S Shattuck	15	2100CST			0	0			Hail (0.75)
Alfalfa County									
Burlington	16	1415CST			0	0			Hail (0.88)
Woodward County									
Woodward	16	1510CST			0	0			Hail (0.75)
			3/4-inch hail covered the ground.						
Woodward County									
5 W Mooreland	16	1523CST			0	0			Hail (0.75)
Woods County									
12 N Alva	16	1530CST			0	0			Hail (1.00)
			Quarter-sized hail covered about 70 percent of the ground.						
Grant County									
5 NW Medford	16	1600CST			0	0			Hail (1.00)
			Quarter-size hail was up to three inches deep.						
Grant County									
1 SW Medford	16	1600CST			0	0			Thunderstorm Wind (G51)
			measured at the Oklahoma Mesonet site						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Grant County 5 NW Medford	16	1600CST			0	0			Thunderstorm Wind (G61)
Grant County 3 N Medford	16	1610CST			0	0			Hail (1.00) Quarter-sized hail covered the ground over an area three miles wide by seven miles long.
Grant County 1 SW Medford	16	1610CST			0	0			Thunderstorm Wind (G51) measured at the Oklahoma Mesonet site
Alfalfa County 4 SE Aline	16	1630CST			0	0			Hail (1.00)
Woods County 6 SE Avard	16	1630CST			0	0			Hail (1.00)
Major County 2.5 N Cleo Springs	16	1640CST			0	0			Hail (1.75)
Kay County Tonkawa	16	1700CST			0	0	25K		Hail (1.75) A combination of hail as large as golf balls and strong winds caused widespread damage in Tonkawa, particularly over an 11-block area on the north side of town. Roofs were severely damaged and windows were broken in both vehicles and houses. Large tree limbs were downed and trees were uprooted by winds estimated at up to 70 mph.
Kay County 2 N Tonkawa	16	1712CST			0	0			Hail (1.75) Golfball-sized hail covered the ground.
Pushmataha County Clayton	16	1720CST			0	0			Hail (1.00)
Grant County 2 NW Medford to 6 E Deer Creek	16	1725CST 1742CST			0	0			Hail (1.75) Hail as large as golf balls cut a swath across central and eastern Grant and western Kay Counties. Wheat crops along this path were completely destroyed. On Highway 11 between Deer Creek and Nardin, hail covering the highway to depths of up to 8 inches forced motorists to stop. Some homes in Deer Creek were reportedly damaged by the large hail. This entry represents the Grant County portion of the event.
Kay County Ponca City	16	1740CST			0	0			Thunderstorm Wind (G61) Winds were estimated at 60 to 70 mph on the west side of Ponca City.
Kay County Nardin to 2 E Nardin	16	1742CST 1746CST			0	0			Hail (1.75) Hail as large as golf balls cut a swath across central and eastern Grant and western Kay Counties. Wheat crops along this path were completely destroyed. On Highway 11 between Deer Creek and Nardin, hail covering the highway to depths of up to 8 inches forced motorists to stop. Some homes in Deer Creek were reportedly damaged by the large hail. This entry represents only the Kay County portion of the event.
Beckham County Sayre	16	1810CST			0	0	0.50K		Thunderstorm Wind Severe thunderstorm winds blew down a large Texaco sign at the Sayre exit off I-40.
Kay County Ponca City	16	1810CST			0	0			Flash Flood Both Hartford Street and South Avenue Street were closed due to high water.
Beckham County Elk City	16	1815CST			0	0			Hail (1.00)
Beckham County Elk City	16	1815CST			0	0	0.10K		Thunderstorm Wind Eight to ten inch diameter trees and limbs were blown down by the strong winds.
Kay County Ponca City	16	1815CST			0	0			Flash Flood Two people were rescued from their flooded vehicles on Albany Street.
Kay County Ponca City	16	1818CST			0	0			Flash Flood One person was rescued from their flooded vehicle at the intersection of 7th and Gray Street.
Love County Marietta	16	1821CST			0	0			Thunderstorm Wind (G52) Tree limbs were blown down by the high winds.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Custer County 5 SW Butler	16	1830CST			0	0			Thunderstorm Wind (G50)
									measured at the Oklahoma Mesonet site
Marshall County Kingston	16	1830CST			0	0	1.5K		Thunderstorm Wind
									A storage building was destroyed and shingles were blown from the roof at a nursing home.
Roger Mills County 11 S Cheyenne	16	1830CST			0	0			Hail (0.88)
Custer County Arapaho	16	1845CST			0	0	0.10K		Thunderstorm Wind
									A large tree was blown over by the high winds.
Kay County Ponca City	16	1900CST			0	0			Flash Flood
									Seven homes were flooded.
Custer County 5 W Custer City	16	1910CST			0	0	0.01K		Thunderstorm Wind
									Tree limbs were blown down.
Marshall County 2 W Madill	16	1911CST			0	0			Hail (0.88)
Jackson County 2 NE Eldorado	16	1915CST			0	0	5K		Thunderstorm Wind (G58)
									Severe thunderstorm winds up to 67 mph peeled the roof off of a mobile home.
Kay County 8 E Newkirk	16	1915CST			0	0			Thunderstorm Wind (G55)
									measured at the Oklahoma Mesonet site
Jackson County Eldorado	16	1920CST			0	0			Thunderstorm Wind (G58)
Johnston County Mannsville	16	1920CST			0	0	0.10K		Thunderstorm Wind
									Severe thunderstorm winds toppled trees.
Custer County 4 WSW Weatherford	16	1925CST			0	0			Thunderstorm Wind (G52)
									measured at the Oklahoma Mesonet site
Kay County Ponca City	16	1926CST			0	0			Flash Flood
									Waverly Street was closed due to high water.
Custer County 4 WSW Weatherford	16	1930CST			0	0			Thunderstorm Wind (G56)
									measured at the Oklahoma Mesonet site
Custer County 4 WSW Weatherford	16	1935CST			0	0			Thunderstorm Wind (G52)
									measured at the Oklahoma Mesonet site
Stephens County Empire City	16	1937CST			0	0			Hail (1.75)
Garvin County 4 SW Pauls Valley	16	1945CST			0	0			Hail (1.25)
Hughes County 2 E Holdenville	16	1945CST			0	0	0.10K		Thunderstorm Wind (G52)
									Severe thunderstorm winds estimated at over 60 mph uprooted trees and caused extensive limb damage.
Garvin County 1 S Pauls Valley	16	1950CST			0	0			Hail (1.75)
Blaine County 4 NW Hydro	16	2000CST			0	0	0.50K		Thunderstorm Wind
									Severe winds damaged several buildings, including blowing a door off a barn.
Jackson County Altus	16	2000CST			0	0	4.5K		Thunderstorm Wind
									Five electric poles were blown over and four hangar doors were blown out at the Municipal Airport. Tree branches were reported down over all of the surrounding area.
Tillman County 4 S Tipton	16	2000CST			0	0			Thunderstorm Wind (G52)
									measured at the Oklahoma Mesonet site

Storm Data and Unusual Weather Phenomena

June 1997

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									
Stephens County									
Comanche	16	2010CST			0	0	25K		Thunderstorm Wind (G69)
	Severe winds estimated at 75 to 80 mph caused widespread tree, limb, and structural damage in Comanche. Significant damage occurred at the high school gymnasium, where a large window was blown in and northeast portions of the roof were torn off. Damage to the gym was assessed at \$22,600. At a city park, the fuel tanks were ripped from a plane on permanent display, and in downtown the siding was torn from a warehouse building. Carports and large trees also suffered major damage throughout town.								
Cleveland County									
1 SW Norman	16	2013CST			0	0			Hail (0.88)
Garvin County									
1 N Paoli	16	2017CST			0	0			Thunderstorm Wind (G52)
Tillman County									
Davidson	16	2017CST			0	0			Thunderstorm Wind (G65)
Stephens County									
Marlow	16	2020CST			0	0			Hail (1.75)
Hughes County									
3 E Holdenville	16	2025CST			0	0			Hail (0.88)
Comanche County									
4 E Lawton	16	2028CST			0	0			Thunderstorm Wind (G52)
Pottawatomie County									
Shawnee	16	2028CST			0	0	0.10K		Thunderstorm Wind
	Severe thunderstorm winds downed and split large trees, blocking several roads.								
McClain County									
Purcell	16	2030CST			0	0			Hail (1.00)
Stephens County									
Marlow	16	2030CST			0	0	0.10K		Thunderstorm Wind
	Severe thunderstorm winds downed a large tree and knocked out power to the eastern part of town.								
Tillman County									
3 WNW Grandfield	16	2035CST			0	0			Thunderstorm Wind (G50)
	measured at the Oklahoma Mesonet site								
Seminole County									
Seminole	16	2040CST			0	0	50K		Thunderstorm Wind (G61)
	Severe thunderstorm winds up to 70 mph caused widespread damage in Seminole. The greatest damage occurred at a motel where the roof was torn off and debris damaged dozens of cars. Signs, trees, and limbs were blown down throughout town.								
Grady County									
Rush Springs	16	2044CST			0	0			Hail (1.75)
Stephens County									
4 S Duncan	16	2045CST			0	0			Hail (1.00)
Hughes County									
Gerty	16	2050CST			0	0			Flash Flood
	Streams overflowed and water covered county roads.								
Tillman County									
3 WNW Grandfield	16	2050CST			0	0			Thunderstorm Wind (G54)
	measured at the Oklahoma Mesonet site								
Hughes County									
4 SE Gerty	16	2052CST			0	0			Hail (0.88)
Stephens County									
Duncan to 4 W Duncan	16	2057CST			0	0			Hail (0.88)
Seminole County									
12 E Seminole	16	2100CST			0	0			Hail (4.00)
	Spotters reported 4-inch hail just north of Highway 9 on Highway 56 east of Seminole.								
Seminole County									
Wewoka	16	2100CST			0	0	0.10K		Thunderstorm Wind
	Severe winds downed large tree limbs.								
Carter County									
2.5 N Ratliff City	16	2109CST			0	0			Hail (1.00)
Carter County									
Tussy	16	2114CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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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OKLAHOMA, Western, Central and Southeast

Stephens County Duncan	16	2115CST			0	0	1K		Thunderstorm Wind
A carport was destroyed and windows were broken out of a residence in southeast Duncan.									
Seminole County Seminole	16	2120CST			0	0			Hail (1.75)
Carter County 2 W Overbrook	16	2210CST			0	0			Thunderstorm Wind (G61)
Stephens County Comanche	16	2212CST			0	0			Flash Flood
Highway 81 from Comanche south to the Jefferson county line was closed due to high water.									
Stephens County 2 S Comanche	16	2215CST			0	0			Flash Flood
Highway 81 was closed due to the high water.									

Summary of events of June 16, 1997:

Severe thunderstorms developed and moved across much of Oklahoma during the afternoon and evening of the 16th. Numerous reports of large hail, damaging thunderstorm winds, and flash flooding were received from across the region.

The largest hail fell east of Seminole in Seminole County, where grapefruit-sized hail was reported. Elsewhere, a combination of strong winds and hail as large as golf balls caused extensive damage in Tonkawa in Kay County and across much of Grant County.

The strongest estimated wind speed during the event was 80 mph in Comanche in Stephens County, which suffered widespread tree, limb, and structural damage. Other major structural damage was reported in Kingston in Marshall County, northeast of Eldorado and in Altus in Jackson County, northwest of Hydro in Blaine County, in Seminole in Seminole County, and in Duncan in Stephens County. More minor damage, mainly to trees and utility poles, occurred in Sayre and Elk City in Beckham County, in Marietta in Love County, in Arapaho and west of Custer City in Custer County, in Mannsville in Johnston County, east of Holdenville in Hughes County, in Shawnee in Pottawatomie County, in Marlow in Stephens County, and in Wewoka in Seminole County.

Flash flooding was particularly severe in Ponca City in Kay County, where several people were rescued from flooded vehicles and seven homes were flooded. Flash flooding was also reported in Gerty in Hughes County and in and around Comanche in Stephens County.

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

Love County 2 W Marietta	22	1630CST			0	0	10K		Thunderstorm Wind
A large metal machine shed (open to the south) was completely flipped over by severe thunderstorm winds.									
Woods County 12 NE Camp Houston	25	1840CST			0	0			Hail (1.25)
Woods County 12 NE Camp Houston	25	1845CST			0	0			Hail (1.75)
Grant County 3 E Renfrow	25	1850CST			0	0			Hail (0.75)
Hughes County 5 S Calvin	26	1630CST			0	0	0.01K		Thunderstorm Wind
Severe thunderstorm winds damaged trees south of Calvin.									
Blaine County 11 S Canton	27	1605CST			0	0	0.40K		Thunderstorm Wind
Severe thunderstorm winds downed power poles.									
Custer County 5 SW Butler	27	1615CST			0	0			Thunderstorm Wind (G53)
measured at the Oklahoma Mesonet site									
Canadian County El Reno	28	0900CST			0	0			Flash Flood
Flooding occurred over the north and west side of El Reno along Fourmile Creek connecting the North Canadian River and Lake El Reno. Many roads and properties were under water of various depth. Also, some streets on the south side of El Reno near Highway 81 were impassable due to the high water.									
Grant County Wakita	29	1800CST			0	0	0.40K		Thunderstorm Wind
A few power poles were blown down.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Kay County 5 E Braman	29	1800CST			0	0	0.01K		Thunderstorm Wind (G65)
									Several 6-8 inch diameter tree limbs were blown down by severe thunderstorm winds estimated at 70 to 75 mph.
Harmon County 3 W Gould	29	1820CST			0	0			Thunderstorm Wind (G62)
									measured at the Oklahoma Mesonet site
Kay County 8 E Newkirk	29	1825CST			0	0			Thunderstorm Wind (G53)
									measured at the Oklahoma Mesonet site
Grant County 3 SW Renfrow	29	1830CST			0	0			Flash Flood
									Wakita Road was impassable due to high water.
Kay County 8 E Newkirk	29	1830CST			0	0			Thunderstorm Wind (G53)
									measured at the Oklahoma Mesonet site
Kay County 4 SE Blackwell	29	1835CST			0	0			Thunderstorm Wind (G53)
									measured at the Oklahoma Mesonet site
Kay County 8 E Newkirk	29	1835CST			0	0			Thunderstorm Wind (G56)
									measured at the Oklahoma Mesonet site
Alfalfa County 6 W Manchester	29	1840CST			0	0			Hail (0.75)
Alfalfa County 6 W Manchester	29	1840CST			0	0	0.25K		Thunderstorm Wind
									Severe winds blew the door off a barn.
Grant County Deer Creek	29	1845CST			0	0			Hail (0.75)
Grant County Medford	29	1850CST			0	0			Hail (1.00)
Grant County 1 SW Medford	29	1905CST			0	0			Thunderstorm Wind (G58)
									measured at the Oklahoma Mesonet site
Harmon County 6 SSE Gould	29	1915CST			0	0	0.01K		Thunderstorm Wind
									Two-inch diameter tree limbs were blown from trees.
Grant County Pond Creek	29	1930CST			0	0	0.01K		Thunderstorm Wind
									Numerous small tree limbs were downed.
Alfalfa County 4 E Byron	29	1950CST			0	0			Hail (1.00)
Alfalfa County 4 E Byron	29	1950CST			0	0	0.40K		Thunderstorm Wind (G61)
									Power poles were blown down by winds up to 70 mph.
Garfield County Lahoma	29	2000CST			0	0	0.10K		Thunderstorm Wind
									Severe thunderstorm winds downed numerous limbs and small trees.
Noble County 7 N Perry	29	2002CST			0	0			Hail (1.00)
Alfalfa County Byron	29	2030CST			0	0			Hail (1.00)
Alfalfa County 2 E Byron	29	2030CST			0	0	1K		Thunderstorm Wind
									A metal grainery silo was destroyed.
Alfalfa County Byron	29	2030CST			0	0	25K		Thunderstorm Wind
									A trailer house, wooden barn, and small metal barn were destroyed.
Grant County Medford	29	2030CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Noble County .5 S Lake Mcmurtry	29	2043CST			0	0			Hail (1.00)
Payne County 9 ENE Stillwater	29	2043CST			0	0			Hail (1.00)
Woods County 4 NW Capron	29	2050CST			0	0			Hail (0.75)
Alfalfa County Byron	29	2100CST			0	0			Flash Flood
			Several county roads were under water.						
Payne County Lake Carl Blackwell	29	2104CST			0	0			Thunderstorm Wind (G52)
Logan County Guthrie	29	2120CST			0	0	0.01K		Thunderstorm Wind
			Numerous tree limbs were blown down.						
Grant County 3 S Medford	29	2130CST			0	0			Flash Flood
			Highway 81 two to three miles south of Medford was under water.						
Grant County 3 N Medford	29	2130CST			0	0			Flash Flood
			Highway 81 three miles north of Medford was under water.						
Grant County 3 E Medford	29	2130CST			0	0			Flash Flood
			Highway 11 three miles east of Medford was under water.						
Alfalfa County 1 SW Cherokee	29	2135CST			0	0			Thunderstorm Wind (G55)
			measured at the Oklahoma Mesonet site						
Alfalfa County 1 SW Cherokee	29	2145CST			0	0			Thunderstorm Wind (G52)
			measured at the Oklahoma Mesonet site						
Grant County 2 S Nash	29	2145CST			0	0	0.01K		Thunderstorm Wind
			Tree limbs 6-8 inches in diameter were blown from trees.						
Alfalfa County Countywide	29	2200CST			0	0			Flash Flood
	30	0300CST							
			Eight bridges were washed out and numerous dams were broken across Alfalfa County, prompting the county commissioners to declare a state of emergency.						
Lincoln County 3 NW Stroud	29	2200CST			0	0	0.10K		Thunderstorm Wind
			A tree of unknown size blocked the road at the intersection of Highways 99 and 66.						
Lincoln County Chandler	29	2230CST			0	0	35K		Lightning
			Lightning struck and set fire to a garage and a motor home, destroying both. Damage was estimated at \$35,000.						
Seminole County 2 S Little	29	2330CST			0	0	1.5K		Thunderstorm Wind
			One-quarter of the roof was blown off a house, and trees as large as six inches in diameter were blown over.						
Kay County Countywide	30	0025CST			0	0			Flash Flood
			Numerous low-lying roads were under water across the county. Also, Highway 11 between Ponca City and Blackwell was under water.						
Blaine County 8 W Geary	30	0400CST			0	0			Hail (0.75)

Summary of events of June 29, 1997 through early morning of June 30, 1997:

Evening severe thunderstorms moved across portions of north-central and central Oklahoma, producing severe damaging winds, large hail, and some flash flooding. The highest measured wind speed reached 67 mph at the Oklahoma Mesonet site near Medford in Grant County. Structural damage occurred in Alfalfa County west of Manchester and in and east of Byron and south of Little in Seminole County. Tree and power pole damage was reported in Grant County in Wakita and south of Nash, in Kay County east of Braman and in Pond Creek, in Logan County in Guthrie, and in Alfalfa County east of Byron.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>PENNSYLVANIA, Central</u>									
Clearfield County									
Clearfield	18	1615EST 2000EST			0	0			Flash Flood
									Heavy rains of 1 to 2 inches in less than an hour flooded small streams and roads.
Centre County									
State College	18	1700EST 2000EST			0	0			Flash Flood
Franklin County									
Greencastle	18	1700EST			0	0			Hail (0.75)
									3/4 inch hail was reported in the Greencastle area.
Huntingdon County									
Huntingdon	18	1700EST			0	0			Thunderstorm Wind (G51)
									Winds took down a tree and powerlines in Huntingdon.
Huntingdon County									
Huntingdon	18	1700EST 2000EST			0	0			Flash Flood
									Heavy rains of 1 to 2 inches in less than an hour flooded small streams and roads in Huntingdon and Mt. Union.
Juniata County									
Reeds Gap	18	1730EST			0	0			Thunderstorm Wind (G51)
									A couple of trees were blown over on the mountain 2W of Reeds Gap.
Adams County									
Biglerville	18	1830EST			0	0			Thunderstorm Wind (G51)
									Winds took down trees in Biglerville and Barnesville.
Franklin County									
Greencastle	18	1845EST 2000EST			0	0			Flash Flood
									Heavy rains flooded roads and small streams across the county.
Lancaster County									
Lancaster	18	2015EST			0	0			Thunderstorm Wind (G51)
									Thunderstorm winds downed trees in the Lancaster area.
Clinton County									
Hyner to Lock Haven	24	1440EST 1520EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms blew down trees along Route 120 near Hyner then continued southeast taking down powerlines in Lock Haven.
Mckean County									
Bradford	25	1735EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms took down trees just south of Bradford along Route 219.
Mckean County									
Duke Center	25	1748EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms took down trees in Otto Township near Duke Center.
Warren County									
Bear Lake	25	1825EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms took down a tree in the Bear Lake Cemetary.
Warren County									
Scandia	25	1910EST			0	0			Thunderstorm Wind (G51)
									Trees were reported down in Scandia.
Mckean County									
Lantz Corners	25	1950EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms moved southeast across McKean County taking down trees 3 SW of Lantz Corners and near Cambelltown south of Mt. Jewett.
Cameron County									
Emporium	25	2030EST			0	0			Thunderstorm Wind (G51)
									Winds took down powerlines in Emporium.
Tioga County									
Mainesburg	25	2030EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms blew down trees in Mainesburg.
Elk County									
Glen Hazel	25	2045EST			0	0			Thunderstorm Wind (G51)
									Thunderstorms took down trees in Glen Hazel and Kefner.
Tioga County									
Blossburg	25	2050EST			0	0			Thunderstorm Wind (G51)
									Trees were down in Blossburg as thunderstorms crossed the county.

Storm Data and Unusual Weather Phenomena

June 1997

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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PENNSYLVANIA, Central

Warren County

Garland	25	2100EST 2330EST			0	0			Flash Flood
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Heavy rains from thunderstorms caused flooding of streams and basements in the Garland area. Route 3007 was closed.

PENNSYLVANIA, East

Berks County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Bucks County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Carbon County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Chester County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Delaware County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Lehigh County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Monroe County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Montgomery County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Northampton County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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Philadelphia County

Countywide	01 03	2300EST 0800EST			0	0			Heavy Rain
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A series of low pressure systems moving east off the North Carolina coast and a relatively strong high pressure system over Eastern Canada brought a prolonged period of rain to Eastern Pennsylvania from around Midnight EDT on the 2nd through the morning on the 3rd. The heaviest rain fell during the day on the 2nd. Storm totals averaged between 1 and 2 inches. But since the rain was spread over about a 30 hour period, flooding was limited to low-lying and poor drainage locations mainly during the day on the 2nd. Storm totals included 2.34 inches in Fricks, 2.11 inches in Doylestown and 1.85 inches in Sellersville (all in Bucks County), 1.8 inches in Tobyhanna (Monroe County), 1.77 inches at the Lehigh Valley International Airport, 1.69 inches in Green Lane (Montgomery County), 1.68 inches in Lehighton (Carbon County), 1.64 inches in Reading (Berks County), 1.48 inches in Crum Creek (Delaware County) and 1.22 inches at the Northeast Philadelphia Airport.

PAZ069-071

Bucks - Philadelphia

13	1230EST				0	0	0		Tstm Heavy Rain
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Thunderstorms accompanied by some heavy rain caused some urban and poor drainage flooding across northeastern parts of Philadelphia and the lower part of Bucks County. A SKYWARN SPOTTER reported 1.69 inches of rain fell in 30 minutes in Philadelphia and an off duty National Weather Service Employee reported 1.64 inches of rain fell in 30 minutes in Levittown in Bucks County.

Berks County

2 S Sinking Spg	18	2035EST 2230EST			0	0			Flash Flood
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Thunderstorms with very heavy rain caused flooding of several streams as well as some urban and poor drainage flooding in Spring Township. Several cars were totally submerged. In Reading 1.71 inches of rain fell during this thunderstorm.

Philadelphia County

Germantown	18	2118EST			0	0	0		Thunderstorm Wind
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A severe thunderstorm knocked over several trees and pulled down wires in the Germantown area of Philadelphia.

PAZ070>071

Delaware - Philadelphia

21	0900EST				4	0			Excessive Heat
26	1800EST								

The first heat wave of 1997 brought the hottest weather in two years to the Philadelphia area. The highest temperatures reached

Storm Data and Unusual Weather Phenomena

June 1997

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

near 100 degrees on the 25th. Four persons died of hyperthermia within the city. Three died on the 26th, the last day of the heat wave. All the deaths occurred within their homes. One had no air conditioning or fans with the windows closed. The other three had no air conditioning, the fans on, but the windows closed. The heat wave started on the 21st. A weak cold front briefly brought drier air into the region on the 23rd. But that was short-lived as both heat and humidity levels became oppressive again on the 24th. The highest temperatures included 99 degrees at the Franklin Institute and 96 degrees at the Philadelphia International Airport and 94 degrees at the Northeast Philadelphia Airport. The 96 degree high at the Philadelphia International Airport was the hottest day at the airport since August 18, 1995 when the high was 97 degrees. M54PH, F87PH, M89PH, M94PH

Bucks County Kellers Church

22	1410EST				0	0			Thunderstorm
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A strong thunderstorm damaged several boats, sinking two of them in Lake Nockamixon. Five persons were thrown into the lake when the wind gusts capsized their boats. No one was seriously injured. One 18 foot sailboat had to be retrieved from the bottom of the lake.

PAZ067>069

Chester - Montgomery - Bucks									
24	0900EST				1	0			Excessive Heat
26	1800EST								

The first heat wave of 1997 brought the hottest weather in two years to the Philadelphia Metropolitan Area. It also caused one heat related death in Montgomery County. A 56-year-old Norristown woman was found dead. The highest temperatures reached well into the 90s on the 25th. The hot weather started on the 21st, but was broken by a weak cold front on the 23rd. The respite was short-lived as both heat and humidity levels became oppressive again on the 24th. The highest temperatures included 96 degrees at the Philadelphia International Airport, 95 degrees in Neshaminy Falls (Bucks County) and the Willow Grove NAS (Montgomery County) and 94 degrees in King of Prussia (Montgomery County). The 96 degree high at the Philadelphia International Airport was the hottest day at the airport since August 18, 1995 when the high was 97 degrees. F56PH

Monroe County Pocono Lake

26	1500EST				0	0	0		Hail (0.75)
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PAZ054>055-060>062-067>071

Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia									
30	2359EST				0	0			Unseasonably Dry

June 1997 was drier than normal throughout Eastern Pennsylvania. On a county weighted average, deficits averaged between 1 and 2 inches in all of Eastern Pennsylvania. Half of the rain fell during the first three days of the month and coupled with the hot weather at the end of the month, the lack of rain started to stress growing areas. The monthly precipitation total at the Philadelphia International Airport was 1.49 inches, about 40 percent of normal. Other monthly precipitation totals included 2.9 inches in Mount Pocono (Monroe County), 2.62 inches at the Lehigh Valley International Airport, 2.02 inches in Doylestown (Bucks County), and 1.97 inches in King of Prussia (Montgomery County).

PENNSYLVANIA, Northeast

NONE REPORTED.

PENNSYLVANIA, Northwest

Crawford County Countywide

02	1007EST 1230EST				0	0	50K		Flood
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Heavy thunderstorm rain on already saturated ground caused flooding of low lying areas, roads and basements. Some roads had to be closed. In Vernon Township, one person was rescued from a car when North Watson Road washed out.

Erie County

Wattsburg

25	1730EST				0	0	50K		Thunderstorm Wind
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Erie County

Wattsburg

25	1730EST				0	0			Hail (1.50)
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Many trees and large branches were downed. Large hail (1.50") was being blown horizontally by the wind.

Crawford County

Countywide

25	1915EST				0	0	50K		Thunderstorm Wind
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Many trees, limbs and power lines were downed, particularly in the area of Meadville.

Crawford County

Countywide

25	2001EST				0	0	50K		Flood
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Heavy thunderstorm rain caused flooding of roads and basements.

PENNSYLVANIA, West

Mercer County

Greenville

12	1530EST 1630EST				0	0			Flash Flood
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Three feet of water ponded onto West Jamestown Road after heavy thunderstorm rains fell. A motorist had to be rescued from the flood waters after her car stalled in the high water. Small feeder streams went out of their banks, however, larger streams did not flood. Mud and debris washed up onto some county roads.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>PENNSYLVANIA, West</u>									
Venango County 2 E Cooperstown	12	1530EST 1545EST			0	0			Flash Flood
									Significant ponding of water on roads between Cooperstown and Dempseytown was reported.
Allegheny County Penn Hills	13	0430EST 0530EST			0	0	6K		Flash Flood
									A few basements flooded in Penn Hills. Also, rapid runoff caused some roads to be covered with mud, debris and gravel.
Allegheny County West Mifflin	18	1415EST 1515EST			0	0			Flash Flood
									Significant street flooding was reported along Lewis Run Road in West Mifflin.
Westmoreland County Lower Burrell	18	1435EST 1600EST			0	0	1K		Flood
									Heavy thunderstorm rains led to significant flooding along Wells Avenue in Lower Burrell. A tree was also uprooted by the rapid runoff onto Miller's Lane.
Forest County West Hickory to Endeavor	25	1945EST 2000EST			0	0	12K		Thunderstorm Wind
									Severe thunderstorm cut a swath of destruction from West Hickory to Endeavor. Large limbs were downed in West Hickory. The greatest damage occurred in East Hickory. Numerous trees and branches were downed. Some trees were uprooted. Power lines were also downed. A tree fell onto a house causing minor damage. Near Endeavor a tree fell across SR 666.
Mercer County Jamestown	25	2005EST			0	0	2K		Thunderstorm Wind
									Trees were downed by thunderstorm winds near Jamestown.
Mercer County Greenville	25	2010EST			0	0	2K		Thunderstorm Wind
									Severe thunderstorm winds downed trees and large branches in Greenville.
Mercer County Sandy Lake	25	2021EST			0	0			Hail (0.75)
Venango County Pleasantville	25	2030EST			0	0	2K		Thunderstorm Wind
									Thunderstorm winds downed trees in Pleasantville.
Forest County West Hickory	25	2040EST 2100EST			0	0			Flash Flood
									Torrential rains from severe thunderstorms led to flash flooding near West Hickory. Debris wash washed onto roads from the rapid runoff. Dirt roads were also washed out. A total of 2.32 inches of rain was recorded in West Hickory.
Mercer County Greenville	25	2055EST 2115EST			0	0			Flash Flood
									Very heavy thunderstorm rains fell across parts of Mercer County. 1.8 inches of rain in 1 hour fell just west of Mercer. A storm total of 2.78 inches fell in Greenville, most of which fell in 90 minutes. Several streets in Greenville had significant flooding.
Venango County Oil City	25	2055EST			0	0			Hail (0.75)
Venango County Rocky Grove	25	2055EST			0	0	5K		Thunderstorm Wind
									Severe thunderstorm winds downed trees and power lines in Rocky Grove.
Venango County Mariasville	25	2110EST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds downed a tree onto SR 38 near Mariasville.
Venango County Emlenton Station	25	2112EST			0	0	2K		Thunderstorm Wind
									Trees were downed by thunderstorm winds.
Mercer County Sharon	30	0930EST 1100EST			0	0	8K		Flash Flood
									Torrential thunderstorm rainfall led to widespread street and basement flooding in Sharon, Farrell and Hermitage. A total of 3.5 inches of rain in 1 hour 15 minutes was reported by a Skywarn observer in Sharon.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>PUERTO RICO</u>									
Humacao									
Naguabo	03	1430AST 1630AST			0	0	1K		Urban/Sml Stream Fld
									Civil Defense reported that highway 31 was reported impassable near Naguabo. A house in the Maizales sector of Naguabo was flooded when a nearby creek went out of its banks. Rivers Rio Blanco and Rio Santiago were reported swollen.
Guayanilla Yauco									
Sabana Grande	18	1528AST 1728AST			0	0			Urban/Sml Stream Fld
									Civil Defense reported street flooding along highway 2.
Mayaguez Anasco									
Las Marias	24	1200AST 1300AST			0	0			Tstm Wind/Hail
									A weather observer reported strong winds and hail at La Furnia sector in Las Marias.
Mayaguez Anasco									
Anasco to Mayaguez	24	1435AST 1535AST			0	0			Urban/Sml Stream Fld
									Civil Defense reported minor street flooding in Anasco. Road 402 in Las Marias sector was reported flooded.
Mayaguez Anasco									
Mayaguez	24	1510AST 1610AST			0	0	1K		Urban/Sml Stream Fld
									Civil Defense in Mayaguez reported street flooding in the Soledad sector. A house was reported flooded.
Mayaguez Anasco									
Anasco to Las Marias	26	1330AST 1430AST			0	0			Thunderstorm Wind (G50)
									Civil Defense reported downed trees in Anasco and Las Marias. Heavy rain was also reported.
Mayaguez Anasco									
Las Marias	26	1400AST 1500AST			0	0			Hail (0.75)
									Marble size hail was reported by a resident of Las Marias.
Vega Baja Manati									
Orocovis	26	1400AST 1500AST			0	0			Hail (0.75)
									Marble size hail was reported by a residents of Barrio Cacao in Orocovis.
Culebra									
Culebra	27	1325AST 1400AST			0	0			Funnel Cloud
									Two funnel clouds were reported near Culebra.
Aguadilla									
Moca	28	1730AST 1830AST			0	0	1K		Thunderstorm Wind (G50)
									Strong winds detached a house zinc roof at the Voladores sector in Moca.
<u>RHODE ISLAND</u>									
Providence County									
Cranston	22	1530EST			0	0			Thunderstorm Wind (G57)
Providence County									
Cranston	22	1545EST South Cranston			0	0			Hail (0.75)
Kent County									
Coventry	22	1555EST			0	0			Hail (1.00)
Providence County									
East Providence	22	1600EST			0	0			Hail (1.50)
Providence County									
East Providence	22	1600EST			0	0	70K		Thunderstorm Wind (G70)
Bristol County									
West Barrington	22	1605EST			0	0			Hail (1.50)
Bristol County									
West Barrington	22	1605EST			0	0	50K		Lightning
Bristol County									
West Barrington	22	1605EST			0	0	70K		Thunderstorm Wind (G70)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>RHODE ISLAND</u>									
Bristol County									
Bristol	22	1623EST			0	0			Hail (0.75)
Newport County									
Tiverton	22	1630EST			0	0			Hail (1.75)
Newport County									
Tiverton	22	1633EST			0	0			Thunderstorm Wind (G61)
Kent County									
Warwick	22	1635EST			0	0	250K		Lightning
Kent County									
Warwick	22	1635EST			0	0			Thunderstorm Wind (G65)
<p>A line of thunderstorms, some severe, moved southeastward across Rhode Island with large hail, frequent cloud to ground lightning, and wind gusts measured up to 80 mph. A microburst moved through part of East Providence (the Riverside section and Bullocks Neck) and West Barrington (the Bullocks Cove area). A boat was lifted off its cradle on land and landed on top of a car and a crane was turned about 30 degrees in the Bullocks Cove area. Two boats were swamped in the Cove and there was considerable tree damage. A lightning bolt started a fire which destroyed an upstairs apartment in West Barrington. As a result of a National Weather Service survey of the area, winds in the microburst were estimated to have been in the range of 80 to 90 mph. Large hail up to 1.50 inches in diameter accompanied the microburst.</p>									
<p>Elsewhere, quarter size hail was reported by a spotter in Coventry and strong winds overturned a boat in Narragansett Bay. Two people swam to shore but there were no injuries. Dime size hail fell in Bristol. Golfball size hail was reported by one spotter in Tiverton, while dime size hail was observed by two other spotters, one of whom recorded a wind gust to 70 mph. A spotter 5 miles south of the Greene State Airport in Warwick reported a peak wind gust to 75 mph. There were numerous lightning strikes, some resulting in small fires which caused minor damage in many towns in central and southeast Rhode Island. In Cranston, the Deputy Fire Chief "rushed from fire to fire like never before." Three small fires were reported in Providence but all were extinguished within minutes. In Warwick, lightning started a fire in an historic clock tower on a school and damage was estimated at \$250,000. In East Greenwich, a fire, possibly started by lightning, resulted in the evacuation of 75 residents. Power outages affected up to 18,000 electric customers statewide.</p>									
<u>SOUTH CAROLINA, Central</u>									
Newberry County									
Whitmire	02	1202EST			0	0			Hail (0.75)
Police report 3/4 inch hail covering ground.									
Fairfield County									
Blair	02	1640EST			0	0			Hail (0.75)
TV spotter reports dime size hail in Blair.									
Calhoun County									
Sandy Run to 5 SE Sandy Run	03	1441EST 1451EST			0	0			Hail (0.75)
Several public reports from storm survey of dime size hail along highway 176 between highways 31 and 35.									
Richland County									
6 SE Columbia	14	1120EST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm blew down a few trees just southeast of Columbia.									
Richland County									
Columbia	17	1712EST			0	0			Thunderstorm Wind (G50)
TV 19 reports large limbs and powerlines down on Garners Ferry Rd in east Columbia.									
Aiken County									
6 W Aiken	20	1845EST			0	0			Thunderstorm Wind (G50)
Sheriff reports a few trees down in Warrentville.									
Lexington County									
2 SW Irmo	21	1320EST			0	0			Thunderstorm Wind (G50)
NWS employee and private resident reported trees down along Nursery Rd. near Irmo.									
Lexington County									
1 S Irmo	21	1330EST			0	0			Hail (0.88)
TV spotter reports nickel size hail just south of Irmo in Murraywood subdivision.									
Calhoun County									
5 E St Matthews to 9 ESE St Matthews	21	1811EST 1821EST			0	0			Hail (0.88)
Damage survey found pea to nickel size hail along and north of SC Highway 6 east of St. Matthews.									
Lee County									
Bishopville	23	1845EST 1850EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Central</u>									
Highway Patrol reports numerous large branches and powerlines down in and around Bishopville.									
Lexington County									
8 NW Pelion	26	2012EST			0	0	0		Thunderstorm Wind (G50)
THUNDERSTORM WINDS KNOCKED DOWN TREES ALONG HIGHWAY 178 BETWEEN FAIRVIEW CROSSROADS AND I-20.									
<u>SOUTH CAROLINA, North Coastal</u>									
Georgetown County									
Sampit to Pawleys Is	03	1200EST 1220EST			0	0			Hail (1.25)
Horry County									
North Myrtle Beach	03	1330EST			0	0			Hail (0.75)
Florence County									
Pamplico	03	1411EST			0	0			Hail (0.75)
Horry County									
Conway	03	1445EST 1500EST			0	0	500K		Hail (1.00)
DAMAGE TO CORN, WHEAT AND TOBACCO									
Georgetown County									
Outland	03	1520EST			0	0			Hail (0.75)
Marion County									
Marion	03	1410EST 1420EST			0	0			Hail (1.00)
Georgetown County									
Pawleys Is	03	1800EST			1	0			Rip Currents
59 YEAR OLD MALE DROWNED AFTER JUMPING INTO THE WATER TO RESCUE A YOUNG MAN CAUGHT IN A RIP CURRENT M591W									
Georgetown County									
Andrews	21	1554EST 1654EST			0	1			Lightning
MAN STRUCK BY LIGHTNING ABOUT 10 NE OF ANDREWS, NEAR RHEMS.									
Horry County									
Garden City	28	1905EST			0	0			Waterspout
WATER SPOUT REPORTED BY SHERIFFS DEPUTIES OFF THE COAST FROM GARDEN CITY, MOVING AWAY FROM SHORE									
<u>SOUTH CAROLINA, Northwest</u>									
Anderson County									
Pendleton	02	0107EST 0117EST			0	0			Hail (1.50)
Oconee County									
2 E Seneca	02	0120EST			0	0			Thunderstorm Wind (G50)
Pickens County									
Clemson	02	0125EST 0135EST			0	0			Hail (1.75)
Pickens County									
Clemson	02	0125EST			0	0	10K		Thunderstorm Wind (G70)
Oconee County									
Salem	02	0146EST 0156EST			0	0			Hail (1.75)
Oconee County									
Walhalla	02	0148EST 0158EST			0	0			Hail (1.75)
Greenville County									
3 S Greenville	02	0241EST 0251EST			0	0			Hail (1.75)
Spartanburg County									
Wellford	02	0243EST 0253EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Northwest</u>									
Pickens County									
Six Mile to Norris	02	0250EST 0300EST			0	0			Hail (0.75)
Greenville County									
Greenville	02	0255EST 0305EST			0	0			Hail (1.00)
Spartanburg County									
1 E Campobello	02	0300EST 0310EST			0	0			Hail (1.75)
Greenville County									
Tigerville	02	0330EST 0340EST			0	0			Hail (0.75)
Spartanburg County									
Landrum	02	0400EST 0410EST			0	0			Hail (0.88)
Spartanburg County									
Campobello	02	0455EST 0505EST			0	0			Hail (1.75)
Greenville County									
Berea	02	0500EST 0510EST			0	0			Hail (1.00)
Severe thunderstorms developed rapidly after midnight and moved north through the Upstate. Large and damaging hail was the primary effect although a significant downburst at Clemson blew down numerous trees and caused power outages across the university's campus. No official estimates of damage were received by the time of this writing, although damage to cars was reported to be extensive around Spartanburg county.									
Union County									
Lockhart	02	1238EST 1248EST			0	0			Hail (0.75)
Union County									
8 SW Carlisle	02	1250EST 1300EST			0	0			Hail (0.75)
Union County									
Jonesville	02	1250EST 1300EST			0	0			Hail (1.75)
Spartanburg County									
Pacolet	02	1308EST 1318EST			0	0			Hail (1.75)
Spartanburg County									
Pacolet	02	1308EST			0	0			Thunderstorm Wind (G50)
Spartanburg County									
Greer	02	1322EST 1332EST			0	0			Hail (1.75)
Cherokee County									
Gaffney	02	1335EST 1345EST			0	0			Hail (0.75)
York County									
1 N York	02	1339EST 1349EST			0	0			Hail (1.75)
Spartanburg County									
5 W Spartanburg	02	1345EST 1355EST			0	0			Hail (1.75)
Severe thunderstorms redeveloped in the early afternoon in the eastern part of the Upstate. Again, large and damaging hail was the primary effect with large limbs blown out of trees in the town of Pacolet.									
Cherokee County									
3 SW Gaffney	02	2106EST			0	0			Hail (1.75)
Cherokee County									
Gaffney	02	2134EST 2144EST			0	0			Hail (0.75)
Spartanburg County									
Mayo	02	2138EST 2148EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Northwest</u>									
A lone severe thunderstorm developed late in the evening following the numerous storms earlier. This storm again caused large hail as it moved north through Cherokee county. A small amount of large hail fell across the Spartanburg county line.									
Spartanburg County Landrum	14	1903EST			0	0	1K		Thunderstorm Wind (G50)
Spartanburg County Campobello	14	1915EST			0	0			Thunderstorm Wind (G50)
Spartanburg County Spartanburg	14	1940EST 2030EST			0	0			Flash Flood
Spartanburg County Spartanburg	14	1950EST			0	0			Thunderstorm Wind (G50)
Greenville County Fork Shoals	14	2055EST 2105EST			0	0			Hail (0.75)
Slow moving severe thunderstorms moved out of North Carolina into the Upstate, causing some damage. At Landrum, the gutters were blown off a house and trees and power lines were downed at nearby Campobello. Over the city of Spartanburg the wind damage was marginal, blowing a couple of trees down. One fell on a nursing home and another fell on power lines causing widespread power outages. Flash flooding developed in a non-flood-prone section of town near the Country Club. Water entered some apartments and vehicles were caught in flood water.									
Abbeville County Abbeville	17	1800EST			0	0			Lightning
Lightning struck a farm, killing 3 horses and 1 goat.									
York County Rock Hill	21	1330EST			0	0	5K		Lightning
Pickens County Dacusville	21	1342EST 1400EST			0	0			Hail (1.00)
Pickens County Dacusville	21	1345EST 1355EST			0	0			Thunderstorm Wind (G55)
Spartanburg County Lyman	21	1453EST			0	0			Thunderstorm Wind (G52)
Spartanburg County Duncan	21	1510EST			0	0			Thunderstorm Wind (G50)
Laurens County 8 NNW Laurens	21	1530EST 1600EST			0	1			Heavy Rain
Thunderstorms dumped a large amount of rain along Interstate 385 during the late afternoon. Many cars hydroplaned. One man whose car spun out of control and rested on the shoulder, got out of his car only to be pulled into a culvert filled with 2 to 3 feet of raging water. After being sucked through a drainage pipe a State Trooper rescued him, leaving him with only a few injuries.									
Laurens County Barksdale	21	1550EST			0	0			Thunderstorm Wind (G50)
Spartanburg County Reidville	21	1610EST 1620EST			0	0			Hail (0.75)
Spartanburg County Reidville	21	1610EST			0	0			Thunderstorm Wind (G50)
Cherokee County 6 W Gaffney	21	1623EST 1633EST			0	0			Hail (1.00)
Cherokee County Gaffney	21	1623EST			0	0			Thunderstorm Wind (G50)
Pickens County Dacusville	21	1717EST			0	0			Hail (1.75)
Greenwood County Greenwood	21	1920EST			0	0			Thunderstorm Wind (G50)

In Rock Hill, lightning struck a tree which then fell on a car. Severe thunderstorms caused notable damage in eastern Pickens county where two separate storms hit the town of Dacusville. A number of trees and power lines were blown down. Similar damage was reported in Lyman and Duncan, just northeast of the GSP Airport when downbursts hit that area. At Reidville, several trees were blown down in the yard of one home causing minor damage to the house, and large hail destroyed gardens. In Cherokee

Storm Data and Unusual Weather Phenomena

June 1997

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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SOUTH CAROLINA, Northwest

county large hail fell west of Gaffney and the storm caused minor wind damage in the the city. Trees were downed in northeast Laurens county and large limbs were blown down in the city Greenwood. Scattered power outages across the Upstate resulted in power loss to about 2000 customers.

Greenville County Travelers Rest	22	1520EST			0	0			Thunderstorm Wind (G50)
Greenville County Taylors	22	1540EST 1550EST			0	0			Hail (0.75)
Spartanburg County 6 NW Cross Anchor	22	1615EST			0	0			Lightning
Laurens County Gray Court	22	1636EST 1646EST			0	0			Hail (0.75)

In Travelers Rest numerous trees and limbs were downed and some fell no structures causing damage and power outages. Large hail fell in eastside Greenville and in northern Laurens county. A house in Spartanburg county was struck by lightning and burned.

SOUTH CAROLINA, South Coastal

Beaufort County Beaufort Mcas	02	2110EST			0	0			Thunderstorm Wind (G50)
Beaufort County Beaufort	02	2115EST			0	0			Hail (0.75)
Berkeley County Goose Creek to 5 ESE Goose Creek	03	1800EST 1804EST			0	0			Hail (0.75)
Berkeley County Ladson to 3 E Ladson	03	1805EST			0	0			Hail (1.00)
Charleston County Charleston Afb to (Chs)Charleston Afb	03	1805EST 1808EST			0	0			Hail (1.00)
Charleston County Charleston Hgts	03	1812EST 1815EST			0	0			Hail (0.88)
Charleston County Charleston to North Charleston	06	0820EST 1500EST			0	0	125K		Flood
Berkeley County Hanahan to Goose Creek	06	0830EST 1030EST			0	0	30K		Flood

A small area of heavy rain (trained) across portions of Charleston and southern Berkeley Counties produced local rainfall up to seven and three-quarter inches within a few hours. This combined with high tides to produce several feet of water on numerous roads which became impassable as water rose almost to headlights on cars. Water rose to 2 to 4 feet in some buildings and homes. Jewelry was "floating" in one jewelry store that had several feet of water and the basement of the Charleston County Courthouse was flooded.

Charleston County 7 SW Folly Beach to 1 SW Folly Beach	14	1512EST 1525EST			0	0			Thunderstorm Wind (G50)
Trees and limbs down.									
Jasper County Ridgeland	17	1805EST 1808EST			0	0			Thunderstorm Wind (G50)
Beaufort County Sheldon	17	1815EST			0	0			Thunderstorm Wind (G51)
Colleton County 5 W Cottageville to 2 E Cottageville	17	1835EST 1840EST			0	0			Thunderstorm Wind (G50)
Dorchester County Harleyville	17	1905EST 1908EST			0	0			Thunderstorm Wind (G50)
Charleston County 3 N Rockville	17	1920EST 1923EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH CAROLINA, South Coastal</u>									
Numerous trees and powerlines down throughout the affected area.									
Hampton County Hampton	18	1455EST 1500EST			0	0			Thunderstorm Wind (G50)
Powerlines and trees down									
Colleton County 2 SSW Ruffin to 2 N Jacksonboro	18	1535EST 1545EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Berkeley County Hanahan	27	1900EST 1903EST			0	0			Thunderstorm Wind (G50)
power lines downed									
Charleston County 5 W (Chs)Charleston Afb	27	1915EST 1920EST			0	0			Thunderstorm Wind (G50)
trees and power lines downed									
Berkeley County 2 N Goose Creek to Hanahan	28	1540EST 1700EST			0	0			Flood
Charleston County North Charleston to Isle Of Palms	28	1540EST 1745EST			0	0			Flood
Widespread flooding in affected area produced 6 to 7 feet of water in Otranto section of North Charleston. Numerous roads covered with 2 to 4 feet of water.									
<u>SOUTH DAKOTA, Central and North</u>									
Walworth County Java	02	1720CST			0	0			Hail (1.75)
SDZ045-048 Jones - Lyman	03	0700CST 2200CST			0	0			Flood
Very heavy rains of 2 to 4 inches through the early morning hours resulted in the flooding of some roads, fields, and creeks across parts of Jones and Lyman counties. In particular, the KOA campgrounds near Presho were heavily flooded. The KOA office and home had three and a half feet of water in them. Also, several homes near or in Presho received water and were heavily damaged. The Medicine and Stoney Butte creeks set all time record highs.									
Lyman County 15 NE Kennebec	19	2148CST			0	0			Hail (0.75)
Buffalo County 11 NE Ft Thompson	19	2225CST			0	0			Hail (1.75)
Hand County 20 S Miller	19	2244CST			0	0			Hail (0.75)
Stanley County Wendte	20	0100CST			0	0			Thunderstorm Wind (G61)
Jones County 15 N Draper	20	0105CST			0	0			Hail (2.75)
Jones County 15 N Draper	20	0105CST			0	0			Thunderstorm Wind (G52)
Lyman County 17 N Vivian	20	0113CST			0	0			Thunderstorm Wind (G61)
Hughes County 27 SE Pierre	20	0140CST			0	0			Thunderstorm Wind (G70)
Jones County 5 S Capa	20	0142CST			0	0			Hail (1.75)
Buffalo County 7 NW Ft Thompson	20	0155CST			0	0			Thunderstorm Wind (G57)
Jones County 6 N Murdo	20	0159CST			0	0			Hail (1.75)
Hughes County 35 SE Pierre	20	0200CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

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, Central and North</u>									
Lyman County Vivian	20	0225CST			0	0			Hail (2.75)
Lyman County 10 SE Kennebec	20	0300CST			0	0			Hail (2.75)
Lyman County 6 S Kennebec	20	0300CST			0	0			Thunderstorm Wind (G57)
Lyman County 10 SE Kennebec	20	0300CST			0	0			Thunderstorm Wind (G70)
Jones County 1 N Draper	20	0309CST			0	0			Hail (2.75)
Several supercell thunderstorms moved southeast along a strong warm front across far southern Stanley, Jones, far southern Hughes, Lyman, and Buffalo counties through the early morning hours of the 20th producing, large hail and damaging winds. Hail up to the size of baseballs and winds gusting to 80mph damaged and destroyed thousands of acres of crops, broke windows in homes, buildings, vehicles, damaged roofs and chipped paint off walls, and downed many trees. The most extensive crop, building, and tree damage was to farms and ranches around the areas of Draper, Vivian, Presho, and Kennebec where there was a 20 mile long and a 4 mile wide path of destruction. Also, the large hail killed many ducks and pheasants and the strong winds damaged or destroyed many grains bins and some buildings.									
Corson County 10 N Trail City	22	0550CST			0	0			Hail (2.75)
Walworth County Mobridge	22	0640CST			0	0			Hail (0.88)
Walworth County 2 S Selby	22	0644CST			0	0			Hail (0.88)
About 800 acres of crops were damaged.									
Edmunds County 10 W Loyalton	22	0730CST			0	0			Hail (0.75)
Faulk County 1 N Onaka	22	0730CST			0	0			Hail (0.75)
Corson County Mc Laughlin	22	0930CST			0	0			Hail (0.75)
Campbell County Herreid	22	1001CST			0	0			Hail (0.75)
Potter County Hoven	22	1007CST			0	0			Hail (1.75)
Edmunds County Hosmer	22	1030CST			0	0			Hail (0.75)
Edmunds County Hosmer	22	1030CST			0	0			Thunderstorm Wind (G64)
Edmunds County Hosmer	22	1110CST			0	0			Hail (1.00)
Mepherston County 4 E Hillsvie	22	1110CST			0	0			Hail (1.00)
Faulk County Cresbard	22	1121CST			0	0			Hail (0.75)
Edmunds County 10 N Roscoe to 10.2 N Roscoe	22	1130CST 1132CST	0.2	10	0	0			Tornado (F0)
A narrow path tornado touched down briefly 10 miles north of Roscoe. Path length and width were estimated.									
Edmunds County 10 W Roscoe to 9.9 W Roscoe	22	1130CST 1131CST	0.1	25	0	0			Tornado (F0)
A weak narrow path tornado touched down briefly 10 miles west of Roscoe. Path length and width were estimated.									
Edmunds County Roscoe	22	1148CST			0	0			Hail (0.75)
Faulk County 3 W Rockham	22	1240CST			0	0			Hail (1.00)
Spink County 5 SW Redfield	22	1305CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Central and North</u>									
Spink County Redfield	22	1311CST			0	0			Hail (2.50)
Spink County Redfield	22	1314CST			0	0			Thunderstorm Wind (G61)
Spink County 14 SW Doland to 13.8 SW Doland	22	1345CST 1347CST	0.2	10	0	0			Tornado (F0)
A weak narrow path tornado touched down 14 miles southwest of Doland near Glendale Colony. Path length and width were estimated.									
Clark County Raymond	22	1409CST			0	0			Hail (0.75)
Clark County 4 W Clark	22	1418CST			0	0			Thunderstorm Wind (G52)
Clark County Garden City	22	1435CST			0	0			Hail (0.75)
Clark County Vienna	22	1435CST 1445CST			0	0			Hail (0.75)
Dime size hail falling for several minutes piled up into 1 to 2 feet drifts in some spots.									
Codington County 3 SW Henry	22	1439CST 1447CST			0	0			Hail (1.75)
Hamlin County 8 N Bryant	22	1439CST			0	0			Hail (1.75)
Clark County Vienna	22	1440CST			0	0			Thunderstorm Wind (G57)
Hamlin County 7 SE Hayti to 7.2 SE Hayti	22	1526CST 1528CST	0.2	10	0	0			Tornado (F0)
A weak narrow path tornado touched down 7 miles southeast of Hayti. Path length and width were estimated.									
Hamlin County Lake Norden to .5 SE Lake Norden	22	1528CST 1533CST	0.5	25	0	0			Tornado (F1)
A tornado touched down near Lake Norden with no damage reported. Path length and width were estimated.									
Hamlin County Dempster	22	1541CST			0	0			Hail (1.00)
Hamlin County Bryant to .8 SE Bryant	22	1545CST 1548CST	0.8	25	0	0			Tornado (F1)
A tornado touched down near Bryant and moved some grain bins about 3/4 of a mile and uprooted several trees in a shelter belt.									
Hamlin County 10 S Castlewood	22	1545CST			0	0			Hail (0.75)
Deuel County 2 W Toronto	22	1600CST			0	0			Hail (2.75)
Hamlin County Castlewood	22	1600CST			0	0			Hail (1.00)
Hamlin County Hayti	22	1600CST			0	0			Hail (1.00)
Clark County 8 E Carpenter	22	1621CST			0	0			Hail (1.00)
Several supercell thunderstorms moved southeast along a strong warm front from eastern Corson County to southwest Deuel County from the morning through the late afternoon producing several tornados, large hail, very heavy rains, and damaging winds. Hail up to the size of baseballs and winds gusting to 70 mph damaged and destroyed thousands of acres of crops, broke windows in homes, buildings, vehicles, damaged roofs and chipped paint off walls, and downed many trees from near Mobridge to Redfield to Toronto. The most extensive crop, building, and tree damage was around the areas of Redfield, Vienna, Naples, Hazel, Bryant, Henry, Lake Norden, Castlewood, Estelline, and Toronto all south of Highway 212. The hail swaths of destruction were as much as 10 miles wide in places. Some farmers said you could not even tell what was planted because the crops were completely destroyed. Hail piled up to one to two feet in places. Also, most of the area from Redfield to Toronto received one to three inches of rain which caused some flooding problems.									

Storm Data and Unusual Weather Phenomena

June 1997

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, Central and North</u>									
Corson County									
Mc Intosh	24	0140CST			0	0			Hail (0.75)
Corson County									
11 S Mc Laughlin	24	0200CST			0	0			Hail (0.75)
Dewey County									
1 N Timber Lake to 1.1 N Timber Lake	24	0215CST 0216CST	0.1	10	0	0			Tornado (F0)
A brief touchdown of a weak narrow path tornado occurred 1 mile north of Timber Lake. Path length and width were estimated.									
Dewey County									
La Plant	24	0300CST			0	0			Thunderstorm Wind (G61)
Edmunds County									
2 E Bowdle	28	0730CST			0	0			Hail (0.75)
Mcperson County									
4 SW Hillsview	28	0730CST			0	0			Hail (0.75)
Walworth County									
12 SE Lowry	28	0733CST			0	0			Hail (0.88)
Edmunds County									
3 S Mina	28	0910CST			0	0			Hail (0.75)
Brown County									
4 E Aberdeen	28	0926CST			0	0			Hail (0.75)
Marshall County									
Veblen	28	1000CST			0	0			Thunderstorm Wind (G61)
Seventy mph winds brought some tree branches down in Veblen.									
Roberts County									
Sisseton	28	1015CST			0	0			Thunderstorm Wind (G52)
Corson County									
Mc Laughlin	30	0520CST			0	0			Thunderstorm Wind (G53)
Walworth County									
Mobridge	30	0535CST			0	0			Thunderstorm Wind (G60)
Campbell County									
3 S Mound City	30	0600CST			0	0			Thunderstorm Wind (G70)
Winds gusting to 80 mph knocked down some trees south of Mound City.									
Dewey County									
Eagle Butte	30	0600CST			0	0			Hail (0.88)
Edmunds County									
7 W Hosmer	30	0620CST			0	0			Thunderstorm Wind (G52)
Mcperson County									
4 SW Hillsview	30	0620CST			0	0			Thunderstorm Wind (G52)
Sully County									
3 W Agar	30	0725CST			0	0			Hail (0.88)
Hand County									
10 NE Miller	30	0831CST			0	0			Thunderstorm Wind (G52)
Hughes County									
Pierre	30	1800CST			0	0			Hail (4.00)
Stanley County									
Ft Pierre	30	1800CST			0	0			Hail (2.75)
Sully County									
Onida	30	1846CST			0	0			Hail (1.75)
<u>SOUTH DAKOTA, Southeast</u>									
Charles Mix County									
Platte	11 12	2000CST 0100CST			0	0	30K		Flood
Douglas County									
Armour	11 12	2000CST 0100CST			0	0	20K		Flood
Rainfall of 3 to 6 inches flooded roads, basements, and some vehicles and homes. The flooding resulted from overflow of drainage ditches, sewer systems, at least one creek, and simple ponding of water in low areas.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
SOUTH DAKOTA, Southeast									
Hutchinson County									
4 S Clayton to 5 NW Freeman	19	2010CST 2030CST			0	0	10K	100K	Hail (1.25)
									Hail broke windows and flattened corn and soybean crops.
Brule County									
Chamberlain	20	0130CST			0	0			Thunderstorm Wind (G61)
Brule County									
Kimball	20	0235CST			0	0		6M	Hail (2.75)
									Large hail completely destroyed 50 thousand acres of crops in Brule County and caused 50 percent or greater crop damage to an additional 30 thousand acres.
Brule County									
Kimball	20	0345CST			0	0			Hail (1.00)
Aurora County									
White Lake to Stickney	20	0255CST 0315CST			0	0		50K	Hail (0.75)
Aurora County									
White Lake to Plankinton	20	0255CST 0315CST			0	0	10K		Thunderstorm Wind (G65)
									A thunderstorm produced winds which uprooted trees and caused other tree damage. Hail also fell with this storm.
Davison County									
6 S Mitchell to Ethan	20	0330CST 0340CST			0	5	500K		Thunderstorm Wind (G78)
									Thunderstorm winds caused widespread damage to trees, power lines, farm structures, and homes. Five people were injured at Ethan when a mobile home was destroyed.
Charles Mix County									
4 NE Platte	20	0344CST			0	0	50K		Thunderstorm Wind (G61)
									Thunderstorm winds destroyed several large grain bins and caused damage to trees and homes.
Hutchinson County									
5 W Parkston to Freeman	20	0345CST 0415CST			0	0	300K		Thunderstorm Wind (G61)
									Thunderstorm winds caused widespread damage to farm structures and trees, including roofs blown off of barns and grain bins destroyed.
Hanson County									
5 S Alexandria	20	0400CST			0	3	1.2M		Thunderstorm Wind (G78)
									Thunderstorm winds caused widespread damage to homes, trailers, barns, other structures, trees, and vehicles at the Oak Lane Hutterite colony south of Alexandria. Three people were injured when their trailer home was flipped and damaged.
Douglas County									
Armour	20	0400CST 0410CST			0	0	1M		Thunderstorm Wind (G70)
									Thunderstorm winds caused widespread damage in and near Armour. The roof was blown off of the high school and the school sustained additional damage. A house sustained heavy damage when the roof of the school landed on it. Numerous other structures including many homes suffered damage. There was widespread damage to trees and power lines, and much of the damage to structures was caused by tree debris.
Minnehaha County									
Sioux Falls	20	0403CST			0	0			Hail (0.75)
Turner County									
4 W Marion	20	0415CST			0	0	50K		Thunderstorm Wind (G52)
									Thunderstorm winds damaged trees and farm structures.
Turner County									
Parker to 5 S Parker	20	0420CST 0430CST			0	0		100K	Hail (1.75)
									Large hail damaged corn and soybean crops.
Turner County									
Parker to 5 S Parker	20	0420CST 0430CST			0	0	10K		Thunderstorm Wind (G61)
									Thunderstorm winds toppled a few trees, one of which damaged a car when it fell; and broke large branches from other trees. The winds also caused damage to power lines, resulting in power outages; and overturned and damaged several crop irrigators.
Brookings County									
10 W Bruce to 10 E White	22	1610CST 1700CST			0	0	50K	2M	Hail (1.75)
									Large hail devastated thousands of acres of corn and soybean crops, broke windows, and damaged siding. The hail fell over most

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
of the northern half of Brookings County.									
Brookings County 7 N Brookings	22	1630CST 1632CST	0.1	50	0	0			Tornado (F0)
A brief tornado observed by spotters caused no damage.									
Brookings County 2 N Aurora	22	1639CST 1641CST	0.1	50	0	0			Tornado (F0)
A brief tornado observed by a National Weather Service employee and other spotters caused no damage.									
Brookings County White	22	1650CST 1655CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds uprooted a few trees, caused other tree damage, and blew shingles off of roofs.									
<u>SOUTH DAKOTA, West</u>									
Pennington County 1 W Rapid City	01	1410MST			0	0			Hail (0.75)
Pennington County Rapid City	01	1430MST			0	0			Hail (0.75)
Bennett County 20 W Martin to 20 E Martin	01	1700MST 1900MST			0	0			Flash Flood
Mellette County 15 N Cedar Butte	01	1700MST 2100MST			0	0			Flash Flood
Mellette County 15 N Cedar Butte	01	1700MST			0	0			Hail (2.00)
Mellette County White River	01	1712MST 1715MST			0	0			Hail (0.75)
Mellette County White River	01	1725MST 1730MST			0	0			Hail (0.75)
Bennett County Martin	01	1758MST 1835MST			0	0			Hail (1.00)
Shannon County Pine Ridge	01	1800MST 2000MST			0	0			Flash Flood
Shannon County Pine Ridge	01	1800MST			0	0			Hail (1.00)
Mellette County 15 N Cedar Butte	01	1830MST			0	0			Thunderstorm Wind (G52)
Mellette County 15 N Cedar Butte	01	1900MST			0	0	25K		Hail (3.00)
Bennett County Martin	01	1902MST 1905MST			0	0			Thunderstorm Wind (G56)
During the late afternoon and early evening hours, a significant flash flood occurred from southwest to south-central South Dakota. Large hail, gusty winds and flooding rains were a result of these thunderstorms. In Bennett county, 5 miles west of Martin, two cars were washed off Highway 18 by rushing water over the road. No injuries were reported in either case. Highway 18 had numerous places where water covered the road in Bennett county. In southwest Mellette county, numerous secondary roads were washed out and many places were under water, and three inch hail caused extensive damage to one rancher's home and crops.									
Pennington County 7 SW Rapid City to 4 SW Rapid City	02	1500MST 1600MST			0	0	286K		Flash Flood
Pennington County Rapid City	02	1500MST 1600MST			0	0	147K		Urban/Sml Stream Fld
Pennington County 6 W Rapid City	02	1530MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Pennington County									
8 SW Rapid City	02	1540MST			0	0			Hail (1.00)
	<p>During the late afternoon and early evening a localized but rather intense flash-flood occurred in the Rapid Creek drainage basin. A thunderstorm produced rainfall amounts of 2 to 3 inches in less than an hour from Deerfield to Rapid City. More localized amounts of four and a half inches in a half hour period were reported in the Chapel Valley area, where extensive damage was also reported. In Cleghorn Canyon, appropriately 7 miles southwest of Rapid City, the water was six to eight feet deep, washing out a couple of driveways and tearing out a couple of bridges. In Red Rock Canyon, approximately 4 miles southwest of Rapid City, the water was eight to ten feet deep and washed out some driveways, bridges, and culverts. A shed from the Chapel Valley area was also washed down stream. In the Rapid City area, some local roads were covered with six inches to over one foot of water, and a local golf course reported some minor flooding.</p>								
Bennett County									
12 W Martin to Allen	02	2122MST			0	0			Flash Flood
	03	0400MST							
Jackson County									
15 NW Longvalley to 8 NW Longvalley	02	2122MST			0	0			Flash Flood
	03	0030MST							
Shannon County									
5 W Oglala	02	2122MST			0	0			Flash Flood
	03	0400MST							
	<p>Heavy rain fell over south central South Dakota during the late evening hours causing already swollen rivers and streams to come out of their banks. Minor flooding was reported on U.S. Highway 18 in Bennett and Shannon counties, and over county road 2 and Highway 44 in Jackson county.</p>								
Perkins County									
10 NW Usta to 5 SE Usta	11	1000MST 1600MST			0	0	24.7K		Flash Flood
Ziebach County									
30 NW Dupree to 10 NE Dupree	11	1000MST 1600MST			0	0			Flash Flood
	<p>Excessive rain of four to eight inches fell during the overnight and early morning hours over southeast Perkins and northern Ziebach counties; as a result, numerous creeks and the Moreau river overflowed their banks. Sections of Highway 73 and other secondary roads had be closed temporarily due to water flowing over them. Two culverts northwest and west of Usta and three bridges over Deer Creek were washed out.</p>								
Shannon County									
2 W Oglala	11	1150MST			0	0			Hail (1.75)
Shannon County									
3 SE Oglala	11	1205MST			0	0			Hail (0.75)
Mellette County									
White River	11	1225MST	0.1	1	0	0			Tornado (F0)
Mellette County									
White River	11	1325MST			0	0			Hail (1.75)
	<p>A cluster of thunderstorms over southwest and south-central South Dakota produced hail up to golfball size in diameter and a brief tornado. No injuries or damage were reported by the hail or the tornado.</p>								
Meade County									
Opal to 5 NE Opal	11	1750MST 2300MST			0	0			Flash Flood
Ziebach County									
Red Scaffold to 5 NE Red Scaffold	11	1750MST 2300MST			0	0			Flash Flood
	<p>Heavy rain during the late afternoon and evening hours across northeast Meade and southwest Ziebach counties produced flash flooding along Brushy, Beaver, and Cherry creeks and the Cheyenne river . The emergency manager from Meade county reported some county roads had been washed out and that water was up to six feet deep in some locations in northeast sections of the county.</p>								
Meade County									
10 SE Sturgis	14	1250MST			0	0			Hail (0.75)
Meade County									
Sturgis	14	1350MST			0	0			Hail (0.75)
Meade County									
10 SE Sturgis	14	1520MST 1600MST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

June 1997

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									
Pennington County									
15 E Rapid City	14	1600MST 1625MST			0	0			Funnel Cloud
Meade County									
10 E Piedmont	14	1630MST			0	0			Hail (4.00)
Meade County									
10 E Piedmont	14	1630MST			0	0			Hail (0.75)
Meade County									
Ellsworth Afb	14	1645MST			0	0			Hail (1.00)
A large severe thunderstorm developed near Tilford and moved east across southern Meade county. The storm produced hail up to four inches in diameter and numerous funnel clouds.									
Lawrence County									
St Onge	14	1645MST			0	0			Hail (1.00)
Fall River County									
5 N Hot Spgs	15	1236MST	0.1	1	0	0			Tornado (F0)
A thunderstorm produced a brief tornado near Argyle Road. No injuries or damage were reported.									
Harding County									
15 N Buffalo	18	2035MST			0	0			Thunderstorm Wind (G52)
Butte County									
Hoover	18	2120MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorms developed during the late evening hours over northwest South Dakota. These storms produced strong wind gusts to 60 mph, but no damage was reported.									
Shannon County									
10 W Pine Ridge	19	1445MST			0	0			Hail (0.75)
Shannon County									
Pine Ridge	19	1455MST			0	0			Hail (1.75)
A severe thunderstorm produced golfball size hail, damaging numerous cars, over southern Shannon County.									
Meade County									
Elm Spgs	19	2310MST			0	0	1K		Hail (1.00)
Meade County									
2 E Elm Spgs	19	2315MST			0	0	0.50K		Hail (1.00)
Meade County									
10 ENE Elm Spgs	19	2315MST			0	0			Hail (2.00)
Meade County									
10 ENE Elm Spgs	19	2315MST			0	0	25K		Thunderstorm Wind (G52)
Pennington County									
2 E Creighton	19	2330MST 2340MST			0	0	25K		Hail (2.00)
Pennington County									
5 N Creighton	19	2330MST			0	0	0.50K		Hail (1.50)
Haakon County									
Philip	20	0015MST			0	0			Thunderstorm Wind (G65)
Haakon County									
25 E Philip	20	0030MST			0	0	0.50K		Hail (1.00)
Severe thunderstorms moved over western South Dakota during the overnight hours of June 19th and 20th. Large hail and strong thunderstorm winds caused considerable damage to crops and broke several windows in the Elm Springs and Creighton areas. In Creighton, two inch hail piled up to three to four inches deep and wiped out a farmers entire crop.									
Shannon County									
8 W Pine Ridge	20	0245MST			0	0			Hail (2.75)
Butte County									
1 E Nisland	21	1205MST			0	0			Funnel Cloud
Butte County									
1 E Nisland	21	1208MST			0	0			Hail (0.75)
Meade County									
7 NE Hereford	21	1335MST	0.1	1	0	0			Tornado (F0)
Meade County									
3 SE Elm Spgs	21	1440MST			0	0			Hail (0.75)
Haakon County									
Philip	21	1615MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Jackson County 8 NW Kadoka	21	1650MST			0	0			Hail (1.00)
Jackson County 2 E Kadoka	21	1705MST			0	0			Hail (1.00)
									A severe thunderstorm developed during the early afternoon hours and continued into the evening. The storm produced a funnel cloud and hail over southern Butte County. The same storm later produced a brief tornado over west-central Meade County in an open field. No damage or injuries were reported.
Haakon County Philip	22	1905MST			0	0			Funnel Cloud
Haakon County Philip	22	1905MST			0	0			Thunderstorm Wind (G52)
									A severe thunderstorm over southern Haakon county produced three funnel clouds and a wind gust to 60 mph near the town of Philip. No damage was reported with the wind.
Perkins County 6 E Bison	23	2340MST 2350MST			0	0	5K		Thunderstorm Wind (G74)
Perkins County Meadow	23	2345MST 2355MST			0	0			Hail (0.75)
Perkins County Meadow	23	2345MST 2355MST			0	0	5K	25K	Thunderstorm Wind (G74)
									Crops were destroyed from wind driven hail.
Perkins County 1 N Meadow	23 24	2350MST 0005MST			0	0		25K	Thunderstorm Wind (G75)
									Crops were destroyed from wind driven hail.
Perkins County 1 N Meadow	23 24	2350MST 0005MST			0	0	5K		Thunderstorm Wind (G74)
Perkins County 3 N Meadow	23	2352MST			0	0			Hail (1.75)
Perkins County 6 N Meadow	24	0000MST 0005MST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm with hail and winds up to 90 mph move through northwest South Dakota during the overnight hours. A roof was blown off a building, numerous power poles were downed, trees were stripped of big branches and many area farmers lost their crops due to wind driven hail. The crop damage over Perkins county could be seen on visible satellite images days after the event.
Pennington County Rapid City	28	2325MST			0	0			Hail (0.75)
Pennington County 7 S Wall	29	0020MST			0	0			Thunderstorm Wind (G63)
									During the overnight hours, a strong thunderstorm developed over Rapid City and produced three-quarter inch hail that piled up to two inches deep in southwest Rapid City. The same storm later produced a 72 mph wind gust at the Badlands National Park Pinnacles ranger station. No damage was reported from the hail or the wind.
Pennington County 15 W Rapid City	29	1436MST			0	0			Hail (2.00)
Pennington County 10 W Rapid City	29	1445MST			0	0			Hail (2.00)
Pennington County Hisega	29	1502MST			0	0			Hail (1.50)
Pennington County 5 SW Keystone	29	1506MST			0	0			Hail (0.75)
Custer County 15 E Custer	29	1534MST			0	0			Hail (1.75)
									A strong thunderstorm developed during the afternoon hours and produced up to two inch hail in some locations. The storm moved over Mt. Rushmore National Monument and produced three-quarter inch hail, but no injuries or damage were reported.
Perkins County 8 WNW Usta	30	0250MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
A severe thunderstorm developed over northwest South Dakota during the overnight hours and produced hail and strong winds which resulted in many branches being broken off trees. A trucker reported hail deep enough that vehicles had difficulty getting through near Buffalo in Harding County.									
Mellette County									
Wood	30	1520MST			0	0			Hail (0.75)
Todd County									
20 SW Mission	30	1605MST			0	0			Hail (1.00)
Lawrence County									
Deadwood	30	2225MST			0	0			Hail (0.75)
Meade County									
Sturgis	30	2240MST 2245MST			0	0			Hail (2.50)
<u>TENNESSEE, Central</u>									
Giles County									
Countywide	09	0030CST 0345CST			0	0	50K		Flash Flood
There was high water on many roads around Giles county.									
Giles County									
Lynnville	09	0030CST 0330CST			0	0			Flash Flood
Flooding on Highway 129 near Lynnville.									
Giles County									
Weakley	09	0030CST 0330CST			0	0			Flash Flood
Flooding on Weakley Creek Road. The hardest hit areas in Giles county were the northern and western sections from this flash flood episode. Considerable damage was reported from high water in those areas from the flash flood in newspaper clippings. No specific dollar amount was available from Giles county Emergency Management Agency, but my estimate was \$50,000 around the county. Rainfall estimates were 3 to 5 inches of rain from late Sunday night to early Monday morning.									
Lawrence County									
South Portion	09	0030CST 0345CST			0	0			Flash Flood
The Highway Department reported the southern part of the county was hit hard with many roads flooded. 2 wooden bridges and 2 tile bridges were washed out due to high water, but with no known damage. A Lawrence county EMA official measured 4.5 inches of rain from 3 PM Sunday June 8 to 6 AM Monday June 9.									
Wayne County									
South Portion	09	0156CST 0415CST			0	0			Flash Flood
Sheriff's office reported campers had to abandon their truck on a bridge due to high waters.									
Giles County									
.6 W Bodenham	09	0200CST 0345CST			0	0	20K		Flash Flood
Hurricane Creek came out of its banks and flooded U.S. Highway 64 just west of Bodenham. A portion of U.S. HWY 64 had to be closed. Troopers from the Tennessee State Highway patrol and workers from the Tennessee Department of Transportation rescued 2 motorists from the high water.									
Giles County									
Central Portion	09	0200CST 0345CST			0	0			Flash Flood
There was flooding at a flea market on U.S. Highway 64.									
Lincoln County									
Fayetteville	09	0320CST 0600CST			0	0			Flash Flood
The sheriff's office reported flooding on several roads in Fayetteville.									
Lincoln County									
1.6 NNW Dellrose	09	0400CST 0600CST			0	0			Flash Flood
Flooding occurred at Bradshaw Creek and Dellrose Road.									
Hickman County									
Lyles	13	1249CST			0	0	10K		Thunderstorm Wind
2 trees were blown down and one fell on a car.									

Storm Data and Unusual Weather Phenomena

June 1997

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									
Hickman County Southeast Sections	13	1315CST			0	0			Thunderstorm Wind (G50)
			2 trees and power lines were down.						
Warren County Countywide	13	1510CST			0	0			Thunderstorm Wind (G50)
			Several trees were down around the county.						
Clay County Countywide	13	1515CST			0	0			Thunderstorm Wind (G50)
			Numerous trees and powerlines were down around the county.						
Clay County Hermitage Spgs	13	1515CST			0	0			Thunderstorm Wind (G50)
			10 trees were blown down in the Hermitage Springs area.						
Putnam County Cookeville	13	1525CST			0	0			Thunderstorm Wind (G50)
			Numerous trees were blown down.						
De Kalb County 3 S Blue Spgs	13	1540CST			0	0			Thunderstorm Wind (G50)
			Several trees and large tree limbs were blown down.						
Overton County Countywide	13	1542CST			0	0			Thunderstorm Wind (G50)
			Numerous trees were blown down around the county.						
Pickett County Byrdstown	13	1542CST			0	0	20K		Thunderstorm Wind
			2 homes received damaged when 2 trees fell on them.						
Pickett County 4 SW Byrdstown	13	1542CST			0	0	10K		Thunderstorm Wind (G70)
			Trees were uprooted and caused damage at the Star Point Marina.						
Pickett County Countywide	13	1542CST			0	0			Thunderstorm Wind (G50)
			Numerous reports of trees down around the county.						
Franklin County 8 S Winchester	13	1600CST			0	0			Thunderstorm Wind (G60)
			Winds were estimated to be 60 mph.						
Benton County Camden	13	1630CST			0	0	5K		Thunderstorm Wind
			A few trees and power lines were down.						
Lawrence County Summertown	13	1310CST			0	0	10K		Thunderstorm Wind
			Trees and power lines down.						
Lewis County Gordonsburg	13	1315CST			0	0	5K		Thunderstorm Wind
			A few trees and power lines were down.						
Maury County 10 NW Columbia	13	1320CST			0	0			Thunderstorm Wind (G60)
			Winds were estimated to be 60 mph near Santa Fe.						
Wayne County 7.2 NE Waynesboro	13	1320CST			0	0			Hail (0.75)
			Penny size hail reported.						
Cheatham County 1.8 W Mt Zion	13	1325CST			0	0			Thunderstorm Wind (G70)
			Sheriff's department estimated winds to be 70 mph.						
Williamson County Nolensville	13	1340CST			0	0			Thunderstorm Wind (G50)
			Several trees were blown down.						
Davidson County Joelton	13	1343CST			0	0	10K		Thunderstorm Wind (G50)
			Numerous trees down. A tree fell on top of a house.						
Robertson County Greenbrier	13	1350CST			0	0			Thunderstorm Wind (G50)
			Several trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TENNESSEE, Central									
Davidson County Nashville Metro Arpt	13	1355CST			0	0			Hail (1.75) Golf ball size hail at the airport.
Sumner County Hendersonville	13	1400CST			0	0			Thunderstorm Wind (G50) Several trees were blown down.
Sumner County 2 SE Gallatin	13	1405CST			0	0	5K		Thunderstorm Wind (G50) Several trees were blown down. A tin roof was blown off a building.
Williamson County Triune	13	1405CST			0	0			Thunderstorm Wind (G50) Several trees were down..
Rutherford County Smyrna	13	1410CST			0	0			Thunderstorm Wind (G50) Power lines were down.
Macon County Lafayette	13	1435CST			0	0			Thunderstorm Wind (G60) Numerous trees and power lines were down. The iwnds were estimated to be 60 mph.
Macon County Red Boiling Spgs	13	1435CST			0	0			Thunderstorm Wind (G60) Numerous trees and power lines were down. The winds were estimated to be 60 mph.
Trousdale County Cato	13	1440CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Wilson County 7 NW Lebanon	13	1445CST			0	0			Thunderstorm Wind (G50) A few trees and large tree limbs were blown down.
Jackson County North Spgs	13	1500CST			0	0			Thunderstorm Wind (G50) Several trees were blown down on Highway 262 and Highway 151.
Smith County Defeated	13	1500CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Cannon County Countywide	13	1504CST			0	0			Thunderstorm Wind (G50) Numerous trees were blown down around the county.
Cannon County Woodbury	13	1504CST			0	0			Hail (0.75) Dime size hail reported at Woodbury.
Cannon County Woodbury	13	1504CST			0	0	10K		Thunderstorm Wind (G50) A tree was blown down onto a house. Numerous reports of downed power lines in Woodbury.
Franklin County Northeast Sections	13	1610CST			0	0			Thunderstorm Wind (G60) Sheriff 's office estimated winds to be 60 mph in northeast Franklin county.
Grundy County Monteagle	13	1627CST			0	0			Hail (0.75) Dime size hail reported.
Marion County Whitwell	13	1645CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Humphreys County New Johnsonville	13	1710CST			0	0			Thunderstorm Wind (G60) Winds were estimated to be 60 mph.
Houston County Erin	13	1715CST			0	0			Thunderstorm Wind (G50) A few trees and large tree limbs were blown down.
Humphreys County New Johnsonville	13	1715CST			0	0	5K		Thunderstorm Wind (G60) Power poles were down.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TENNESSEE, Central									
Benton County 5 SW Holladay	13	1745CST			0	0			Thunderstorm Wind (G50) A few trees were blown down at Natchez Trace State Park.
Dickson County Dickson	13	1745CST			0	0			Thunderstorm Wind (G50) A few large tree limbs were down.
Hickman County 5 W Centerville	13	1800CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Montgomery County 5 E Clarksville	13	1800CST			0	0	20K		Thunderstorm Wind Several trees were blown down. 2 homes sustained roof damage.
Perry County Lobelville	13	1800CST			0	0			Hail (0.75) Dime size hail was reported.
Perry County Lobelville	13	1800CST			0	0	5K		Thunderstorm Wind (G50) A few trees and power lines were down.
Cheatham County Ashland City	13	1815CST			0	0	1K		Thunderstorm Wind 5 trees were blown down and 2 power lines.
Robertson County Adams	13	1815CST			0	0			Thunderstorm Wind (G50) Several trees were blown down.
Sumner County Gallatin	13	1830CST			0	0	1K		Thunderstorm Wind (G50) A few power lines were down.
Davidson County Joelton	13	1845CST			0	0			Thunderstorm Wind (G50) Several trees were blown down. At one point 30,000 customers were without power in Davidson county.
Hickman County Pleasantville	13	1910CST			0	0			Thunderstorm Wind (G50) A couple of trees were blown down.
Houston County Erin	13	1910CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Houston County 7.4 SE Erin	13	1910CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Macon County Lafayette	13	1915CST			0	0			Thunderstorm Wind (G50) A couple of trees were blown down.
Trousdale County Willard	13	1915CST			0	0			Thunderstorm Wind (G50) 2 trees were blown down.
Wilson County 5 NW Lebanon	13	1920CST			0	0			Thunderstorm Wind (G50) A few trees were blown down.
Williamson County Franklin	13	1925CST			0	0			Thunderstorm Wind (G50) A few power lines were down.
Benton County Camden	13	1929CST			0	0			Hail (0.75) Dime size hail reported.
Benton County Camden	13	1935CST			0	0	1K		Thunderstorm Wind (G50) A few power lines were down.
Humphreys County Bold Spgs	13	1945CST			0	0			Thunderstorm Wind (G50) Trees were down. A total of 12 trees were down at Mc Ewen and Bold Springs.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Humphreys County									
Mc Ewen	13	1945CST			0	0			Thunderstorm Wind (G50)
		Trees were down.							
Rutherford County									
Walterhill	13	2010CST			0	0			Thunderstorm Wind (G50)
		2 trees were down on U.S. Route 231.							
Dickson County									
Dickson	13	2015CST			0	0			Thunderstorm Wind (G50)
		Several trees were blown down.							
Williamson County									
Countywide	13	2140CST			0	0			Thunderstorm Wind (G50)
		Numerous trees were blown down around the county.							
Williamson County									
Franklin	13	2245CST			0	0			Flash Flood
	14	0000CST							
		High water was over several roads near the Galleria Mall.							
Cheatham County									
Ashland City	13	2300CST			0	0			Flash Flood
	14	0100CST							
		Several roads had high water.							
Dickson County									
Charlotte	13	2300CST			0	0			Flash Flood
	14	0100CST							
		Several roads had high water.							
Dickson County									
Dickson	13	2300CST			0	0			Flash Flood
	14	0100CST							
		Several roads had high water.							
Davidson County									
Nashville	13	2330CST			0	0			Flash Flood
	14	0100CST							
		Several roads had high water.							
Montgomery County									
Clarksville	13	2330CST			0	0			Flash Flood
	14	0100CST							
		Several roads had high water.							
Williamson County									
Fairview	13	2345CST			0	0			Flash Flood
	14	0100CST							
		2 roads were closed due to high water.							
Stewart County									
7 NW Dover	13	1640CST			0	0			Thunderstorm Wind (G50)
		A few trees were blown down at Land Between The Lakes.							
Montgomery County									
Ft Campbell	17	1813CST 1815CST	1	15	0	0	130K		Tornado (F0)
		A tornado touched down on the Tennessee side of Ft. Campbell, about a mile from the Kentucky border. The tornado tore into some buildings in the vicinity of the Directorate of Logistics, which is just inside of Gate 3 and near the Florence A. Blanchfield Army Community Hospital. It took some paneling off a few buildings and tore the siding off a multi-purpose warehouse. The tornado left Ft. Campbell via Gate 3, taking with it some tents that had been hanging out to dry. Most of this account of the tornado came from the Leaf-Chronicle newspaper in Clarksville.							
		This tornado did not form from a supercell thunderstorm. The dynamics of this tornado were similar to a landspout.							
		The path length and path width are approximations.							
Hickman County									
5 SE Centerville	21	0610CST			0	0			Thunderstorm Wind (G50)
		Local law enforcement reported 3 trees were blown down							
Lawrence County									
Lawrenceburg	21	1200CST 1400CST			0	0			Flash Flood
		Quail Drive was under water. A vehicle stalled, but the occupant was able to walk to higher ground. Quail Drive is a flood pruned							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TENNESSEE, Central									
									area during heavy rains.
Stewart County Bumpus Mills	21	1330CST			0	0			Thunderstorm Wind (G50) Sheriff's office reported several trees were blown down.
Stewart County Dover	21	1330CST			0	0			Thunderstorm Wind (G50) Several trees were down on Bagsby Hill Road, just north of Dover.
Franklin County Cowan	23	1657CST			0	0			Thunderstorm Wind (G50) Cowan Police Department reported one tree was blown down.
Warren County Mc Minnville	26	1602CST 1700CST			0	0			Flash Flood 2 or 3 streets closed in town due to high water. There is high water on may county roads throughout Warren county.
Lawrence County Western Sections	29	1905CST 2200CST			0	0			Flash Flood Some secondary roads had high water in western part of Wayne county.
Wayne County Eastern Sections	29	1905CST 2200CST			0	0			Flash Flood Some secondary roads had high water in eastern part of county.
Stewart County Indian Mound	30	1335CST			0	0	1K		Thunderstorm Wind (G50) A telephone pole was blown down.
Montgomery County Clarksville	30	1405CST 1600CST			0	0			Flash Flood 4 to 5 inches of water were on several major roads such as state highway 79 between Woodlawn and Clarksville, and U.S. Route 41A northbound near Clarksville.
Davidson County Whites Creek	30	1550CST 1900CST			0	0			Flash Flood A creek was out of its banks.
Davidson County Northeast Sections	30	1600CST 1900CST			0	0			Flash Flood Many streets were flooded in northeast Davidson county.
Wilson County Mt Juliet	30	1630CST 1930CST			0	0			Flash Flood Flooding was occurring on Needmore Road which resulted in several car wrecks. The report was relayed to the NWS by the Mt. Juliet Police Department.
Wayne County Clifton	30	2030CST 2330CST			0	0			Flash Flood Flooding was reported along Eagle Creek near Clifton.
Montgomery County Clarksville	28	0833CST 1045CST			0	0	10K		Flash Flood High water on several roads. One car was submerged. Water got into a basement.
Rutherford County Christiana	28	1115CST			0	0	1K		Thunderstorm Wind Several trees were blown down on power lines.
Warren County Mc Minnville	28	1230CST 1415CST			0	0			Flash Flood One foot of water over roads in southeast part of town. 4 or 5 roads were barricaded due to high water.
Overton County Countywide	28	1340CST 1515CST			0	0			Flash Flood Many roads were completely underwater especially HWY 293 (Rickman-Monterey Highway) between HWY 42 and HWY 84.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TENNESSEE, Central</u>									
Wayne County									
Clifton	28	2145CST			0	0			Flash Flood
	29	0010CST							
	Highway 114 was flooded.								
Wayne County									
Waynesboro	28	2145CST			0	0			Thunderstorm Wind (G50)
	Trees were blown down.								
Lawrence County									
Five Pts	28	2155CST			0	0			Flash Flood
		2240CST							
	Numerous roads had water 2 to 3 inches deep.								
Giles County									
North Portion	28	2256CST			0	0			Flash Flood
	29	0100CST							
	Numerous roads had high water.								
<u>TENNESSEE, East</u>									
Bradley County									
Countywide	01	0000EST			0	0			Urban/Sml Stream Fld
		0100EST							
Meminn County									
Countywide	01	0000EST			0	0			Urban/Sml Stream Fld
		0100EST							
Rhea County									
Countywide	01	0000EST			0	0			Urban/Sml Stream Fld
		0100EST							
	Minor street and highway flooding throughout the counties.								
Hamilton County									
Chattanooga	01	1835EST			0	0	20K	15K	Tstm Wind/Hail
		2030EST							
	A severe thunderstorm dropped 3/4" hail in Middle Valley 2 miles north of Chattanooga. Trees and powerlines knocked down throughout the Brainerd area near Chattanooga.								
Greene County									
Greenville	01	1925EST			0	0		5K	Thunderstorm Wind
	A severe thunderstorm knocked down a few trees near I-181.								
Greene County									
Camp Creek	02	1335EST			0	0			Hail (0.75)
Sevier County									
Gatlinburg	02	1555EST			0	0			Hail (1.00)
Carter County									
Valley Forge	02	1610EST			0	0			Hail (1.00)
Claiborne County									
Speedwell	02	1705EST			0	0			Hail (1.00)
Campbell County									
Countywide	02	1845EST			0	0			Hail (0.75)
Loudon County									
Countywide	12	2340EST			0	0			Flash Flood
	13	2340EST							
	Water 5 feet deep across the road at junction of Old Route 95 and Harrison Road due to stream overflow. Water 5 feet deep across the road at junctions of Monterey Drive and Stockton Road with Highway 72 due to stream overflow. High water on Browder Hollow Road, on Mulberry Street in Loudon and at junction of Hotchkiss Hollow Road and Breazale Road.								
Fentress County									
5 N Jamestown	13	1545CST			0	0	17K	6K	Thunderstorm Wind
	Several trees and powerlines down across the northern part of the county.								
Loudon County									
10 SW Loudon	13	1630EST			0	0		5K	Thunderstorm Wind
	Several trees reported down in southwest portion of county.								
Morgan County									
Sunbright	13	1655EST			0	0	18K	5K	Thunderstorm Wind
	Several trees and powerlines down across the northern part of the county.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TENNESSEE, East									
Scott County Countywide	13	1655EST			0	0	10K	8K	Thunderstorm Wind
Numerous trees and powerlines down throughout county.									
Campbell County Countywide	13	1740EST			0	0	20K	9K	Thunderstorm Wind
Numerous trees and powerlines down throughout county.									
Anderson County Andersonville to Lake City	13	1740EST			0	0	1K	5K	Thunderstorm Wind (G52)
Several trees down and a flag pole blown down in Andersonville. Several trees down in Lake City.									
Loudon County Philadelphia	13	1740EST			0	0		11K	Thunderstorm Wind
Numerous trees down in southern portion of the county near and west of Philadelphia.									
Claiborne County 5 N Tazewell	13	1745EST			0	0		5K	Thunderstorm Wind
Numerous trees down just north of Tazewell.									
Knox County Knoxville	13	1755EST			0	0			Hail (0.75)
Three-quarter inch hail just off the I-640 bypass.									
Hamilton County Sale Creek	13	1800EST			0	0		7K	Thunderstorm Wind
Several trees down in northern part of county in and around Sale Creek.									
Union County Countywide	13	1800EST			0	0	18K	15K	Thunderstorm Wind
Numerous trees and powerlines down throughout county.									
Claiborne County Countywide	13	1810EST			0	0	20K	15K	Thunderstorm Wind
Trees down all over Harrogate blocking Highway 25E between Tazewell and Harrogate. Roofs blown off trailers in southern part of county in Powell Valley area. Trees and powerlines down throughout county.									
Blount County 7 S Maryville	13	1817EST			0	0		9K	Thunderstorm Wind
Numerous trees down near and along Montvale Road. High water problems on Highway 411 south and on Old Niles Ferry Road.									
Jefferson County Countywide	13	1820EST			0	0	14K	11K	Thunderstorm Wind
Numerous trees and powerlines down throughout the county.									
Grainger County Countywide	13	1820EST			0	0	14K	12K	Thunderstorm Wind
Numerous trees and powerlines down throughout the county.									
Hamblen County 5 SW Morristown to 6 SE Morristown	13	1825EST 1845EST			0	0		10K	Tstm Wind/Hail
1" hail reported by Millstone Golf Course. Numerous trees down in southeast part of county. A 50 knot wind gust was observed at the National Weather Service office.									
Hancock County Countywide	13	1830EST			0	0	10K	8K	Thunderstorm Wind
Numerous trees and powerlines down throughout the county.									
Hamilton County Bakewell to Birchwood	13	1830EST 1850EST			0	0	15K	9K	Thunderstorm Wind
Numerous trees and powerlines down across the northern part of the county.									
Hawkins County Countywide	13	1830EST			0	0	15K	7K	Thunderstorm Wind
Trees and powerlines down throughout county.									
Jefferson County Dandridge to New Market	13	1845EST			0	0	10K	5K	Thunderstorm Wind
Trees down near Dandridge on Chestnut Grove. Powerlines down in New Market.									
Sevier County 8 W Sevierville	13	1850EST			0	0		10K	Thunderstorm Wind
Trees down on Thomas Circle and in western portion of the county.									

Storm Data and Unusual Weather Phenomena

June 1997

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									
Greene County									
Mosheim to Greeneville	13	1905EST 1925EST			0	0	10K	8K	Thunderstorm Wind
									Roof damage and trees down near Mosheim and Greeneville.
Meminn County									
Athens	13	1910EST			0	0		9K	Thunderstorm Wind
									Trees down on Decatur Pike, North Jackson Street and College Street.
Washington County									
Countywide	13	1920EST			0	0		4K	Thunderstorm Wind
									A man in the Gray community was trapped in his car from falling trees. Trees blown down between Jonesborough and Johnson City.
Cocke County									
Countywide	13	1920EST			0	0	12K	5K	Thunderstorm Wind
									Trees down on powerlines on Wilhite Road near the Cocke county line.
Sullivan County									
Bristol	13	1925EST			0	0			Thunderstorm Wind (G52)
Washington County									
3 S Limestone	13	1930EST	0.5	50	0	0	500K		Tornado (F1)
									A short-lived tornado struck a subdivision at the intersection of Bailey Bridge Road and Lester Snapp Road. The tornado destroyed 3 homes and blew the roofs off 10 others. Around 25000 homes were without power in the county immediately after the storm. Most had power restored by the next day.
Unicoi County									
Countywide	13	1930EST			0	0	20K	15K	Thunderstorm Wind
									Trees and powerlines down throughout the county.
Carter County									
4 SW Elizabethton to 4 S Elizabethton	13	1930EST			0	0		5K	Thunderstorm Wind
									Numerous trees down on Powder Branch Road and Gap Creek Road.
Hawkins County									
Countywide	13	1930EST			0	0		20K	Thunderstorm Wind
									Trees down throughout county.
Monroe County									
Sweetwater	13	1939EST			0	0	10K		Thunderstorm Wind
									A powerpole was blown down on Frontier Road. Pea-size hail reported in Madisonville.
Johnson County									
Countywide	13	1945EST			0	0	19K	10K	Thunderstorm Wind
									Numerous trees and powerlines down across county.
Rhea County									
2 E Dayton	13	2220EST			0	0		8K	Tstm Wind/Hail
									Trees down and 1 3/4" hail just east of Dayton.
Meminn County									
Countywide	13	2301EST			0	0		5K	Tstm Wind/Hail
									Golfball-sized hail reported between Athens and Niota. 1" hail reported near Englewood. Several trees down across north part of county.
Monroe County									
Countywide	13	2340EST			0	0		19K	Thunderstorm Wind
									Numerous trees down throughout county.
Polk County									
Benton	14	0001EST			0	0	23K	17K	Thunderstorm Wind
									Powerlines down in and around the city of Benton with many power outages. Total power and communications blackout at sheriff's dispatch for about 40 minutes.
Monroe County									
Countywide	14	0001EST 0400EST			0	0			Flash Flood
									Numerous streets and roads covered with water countywide but especially in the cities of Sweetwater, Tellico Plains, Madisonville and Vonore. Some roads were covered with water up to 2 feet or more in depth.
Blount County									
1 NW Townsend	14	0009EST			0	0		5K	Thunderstorm Wind
									Several trees downed along and near Route 321 east, just outside of Townsend.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, East</u>									
Bradley County 10 SSW Cleveland	14	0014EST			0	0	18K		Thunderstorm Wind
Several trees down in the southern portion of the county near the Georgia border. One giant oak tree down on Red Clay Park Road and other trees down on Hunt Road.									
Polk County Ducktown	14	0014EST			0	0	2K		Thunderstorm Wind
Several large limbs downed on roadway.									
Hamilton County 2 E Lookout Mtn	14	0735EST			0	0			Hail (0.75)
Scott County Winfield	14	1430EST			0	0			Flash Flood
County roadways flooded across the southern sections of the county. Kingtown Road was impassable.									
Blount County Friendsville	14	1515EST			0	0	3K		Thunderstorm Wind
A few trees blown down in Friendsville.									
Anderson County Clinton	14	1520EST			0	0	2K		Thunderstorm Wind
Two trees down on Pumpkin Road near Clinton.									
Knox County Knoxville	14	1530EST			0	0	15K		Thunderstorm Wind
Numerous trees down over the western sections of the county.									
Roane County 4 E Kingston	14	1530EST			0	0	11K		Thunderstorm Wind
Trees blown down over eastern part of county.									
Loudon County Countywide	14	1535EST			0	0	3K		Thunderstorm Wind
A few trees down across the county.									
Meminn County Niota	14	1600EST			0	0	4K		Thunderstorm Wind
A few trees down near Niota.									
Monroe County 1 W Madisonville to Madisonville	14	1600EST			0	0	3K		Thunderstorm Wind
A few trees blown down.									
Sevier County Seymour	14	1645EST			0	0	7K		Thunderstorm Wind
Trees down in western section of county near Seymour.									
Blount County Friendsville	14	1700EST			0	0	6K		Thunderstorm Wind
More trees blown down from a second severe thunderstorm that afternoon.									
Jefferson County Jefferson City	14	1745EST			0	0			Flash Flood
Four feet of water reported on Valley Field Road. Four trailers flooded on Branch Way. Part of Bacon Road caving in due to flash flooding.									
Hamblen County Countywide	14	1745EST			0	0			Flash Flood
Hamblen county EOC reported numerous bridges washed out on backroads in eastern and southern parts of the county.									
Sevier County Sevierville	14	1815EST			0	0			Flash Flood
Creeks out of their banks on Henrytown Road. Flash flooding had washed out part of Henrytown Road.									
Anderson County Clinton	19	1850EST			0	0	10K	5K	Thunderstorm Wind
A telephone pole and a few trees down just west of Clinton.									
Anderson County Clinton to Anderson	19	2030EST			0	0			Flash Flood
Numerous city streets were closed due to water up to 2 feet deep. Also some county roadways were underwater.									
Fentress County Countywide	20	1440CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Cocke County									
Hartford	20	1515EST			0	0	12K	6K	Thunderstorm Wind
Unicoi County									
Rocky Fork	20	1532EST			0	0		5K	Thunderstorm Wind
			A few trees blown down on state highway 352 near Rocky Fork.						
Blount County									
Townsend	20	1550EST			0	0		5K	Thunderstorm Wind
			A severe thunderstorm blew down a few trees just north of Townsend.						
Hamblen County									
Morristown	20	1620EST			0	0		3K	Thunderstorm Wind
			A severe thunderstorm knocked down a large tree onto Fernwood Church Road.						
Hamilton County									
Red Bank	21	1310EST			0	0		4K	Tstm Wind/Hail
			A severe thunderstorm dropped 3/4" hail in Red Bank and knocked down trees on Amnicola Highway.						
Blount County									
Townsend to Cades Cove	21	1440EST			0	0		9K	Thunderstorm Wind
			Several large trees down across Laurel Creek Road about 2-3 miles out of Cades Cove. A large tree down across Highway 73 at Great Smoky Mountains National Park entrance.						
Hamilton County									
Chattanooga	21	1450EST			0	0			Flash Flood
			Numerous reports of flash flooding throughout the Chattanooga area.						
Sevier County									
Countywide	21	1500EST 1600EST			0	0			Flash Flood
Sevier County									
Countywide	21	1500EST 1600EST			0	6		10K	Tstm Wind/Hail
			Golfball-sized hail and flooding reported on Ski Mountain near Gatlinburg. Trees down on Gatlinburg bypass (Highway 441). Gatlinburg Fire Department reported: a few streams were out of their banks, 3/4" hail, an estimated a 54 mph wind gust, and 1.7" of rain between 3-330 pm EST. Six hikers were injured when they were struck by lightning. They were about 1400 feet above the trailhead on Laurel Falls Trail in the Great Smoky Mountains National Park. All 6 suffered scratches and cuts. All were treated at an area hospital and released.						
Morgan County									
Countywide	21	1544EST			0	0			Flash Flood
			Street and ditch and small stream flooding throughout most of the county.						
Cocke County									
Cosby to Parrottsville	21	1610EST			0	0		5K	Tstm Wind/Hail
			1.25" hail reported in the Cosby area. Trees down on Highway 340 North near Parrottsville.						
Anderson County									
Claxton	21	1630EST			0	0		8K	Thunderstorm Wind
			A severe thunderstorm knocked down trees in the Claxton area.						
Meigs County									
Big Spg	24	1430EST			0	0		8K	Thunderstorm Wind
			Trees down near Big Spring.						
Claiborne County									
Carr Quarry to Countywide	25	1720EST			0	0		2K	Thunderstorm Wind
			Large limbs blown off trees, mainly in south part of county.						
Bradley County									
Cleveland to Charleston	28	1600EST			0	0		10K	Tstm Wind/Hail
			Dime-size hail reported near Charleston as well as lots of debris on the roads. Numerous trees down across the northern parts of Cleveland as well as 1 1/4" hail.						
Morgan County									
Sunbright to Petros	30	2200EST			0	0		20K	Flash Flood
			Roads and culverts washed out in northern part of county near Sunbright. In Petros, some roads were under water, and water was						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, East</u>									
									reported in some businesses including the old library building.
<u>TENNESSEE, West</u>									
Crockett County									
Friendship	13	1515CST 1520CST			0	0	0.05K		Hail (0.88)
Gibson County									
Trenton	13	1515CST 1520CST			0	0	0.01K		Hail (0.75)
Gibson County									
Trenton	13	1520CST 1525CST			0	0	1K		Thunderstorm Wind
									Several trees and a redwood gym set were blown down.
Weakley County									
Greenfield	13	1533CST 1538CST			0	0	0.01K		Hail (0.75)
Gibson County									
Milan	13	1550CST 1555CST			0	0	0.05K		Hail (0.88)
Carroll County									
Atwood	13	1605CST 1610CST			0	0	0.75K		Hail (1.75)
Carroll County									
Atwood	13	1605CST 1610CST			0	0	1K		Thunderstorm Wind
									An awning was blown down from a house.
Henry County									
Nobles	13	1840CST 1845CST			0	0	15K		Thunderstorm Wind
									A large section of the roof of a house was blown off. Several trees and power lines were knocked down.
Lake County									
Tiptonville	13	2030CST 2035CST			0	0	10K		Thunderstorm Wind
									Several trees were knocked down. One fallen tree severely damaged the back of one home and knocked several holes in the roof.
Shelby County									
Bartlett	17	0105CST 0125CST			0	0	0.01K		Hail (0.75)
Shelby County									
Bartlett	17	0115CST 0125CST			0	0	5K		Thunderstorm Wind
									A gas station had its roof collapse. Several trees fell on some power lines.
Tipton County									
Covington	17	0130CST 0430CST			0	0	5K		Flash Flood
									Several buildings were flooded after over 6 inches of rain in a 24-hour period caused nearby Town Creek to flood.
Tipton County									
Covington	17	0145CST 0150CST			0	0	1K		Lightning
									One house was damaged by a fire started by lightning.
Tipton County									
Munford	27	1715CST 1730CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
Shelby County									
Memphis	27	1735CST 1750CST			0	0	10K		Thunderstorm Wind
									Numerous trees, power lines and several street signs were knocked down.
Shelby County									
Collierville	27	1805CST 1810CST			0	0	5K		Thunderstorm Wind
									Several large trees were blown down.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, West</u>									
Fayette County									
Oakland to Elba	27	1830CST 1850CST			0	0	10K		Thunderstorm Wind
									Numerous trees and power lines were knocked down across parts of Fayette county.
Hardeman County									
Cloverport	27	1910CST 1915CST			0	0	1K		Thunderstorm Wind
									A few power lines were blown down.
Henry County									
Paris	30	1230CST 1235CST			0	0	2K		Thunderstorm Wind
									A few trees and power lines were knocked down.
Henderson County									
Lexington	30	1700CST 1705CST			0	0	15K		Thunderstorm Wind
									A huge oak tree, estimated to be 150 years old, was blown down and crushed a car.
<u>TEXAS, Central</u>									
Nolan County									
Roscoe	06	0230CST			0	0			Hail (1.75)
Taylor County									
14 SW Merkel	06	0251CST			0	0			Hail (1.25)
Nolan County									
Sweetwater	06	0320CST 0600CST			0	0	50K		Flash Flood
Taylor County									
19 SW Abilene	06	0400CST 0730CST			0	0	100K	25K	Flash Flood
Brown County									
Brookesmith	06	0530CST 0900CST			0	0	50K		Flash Flood
									Seven inches of rain fell at Brookesmith in southern Brown County.
San Saba County									
Richland Spgs to San Saba	06	0530CST 1700CST			0	0	800K	400K	Flood
									Very heavy rains fell over San Saba County the morning of the 6th. The northwest part of the county received the highest amounts, with ten inches of rain reported at Elk Grove. Eight inches of rain fell at Richland Springs while six and a half inches was measured in the town of San Saba. Major flooding occurred throughout San Saba County. Many residents were stranded in the floodwaters, but later rescued.
Coleman County									
Coleman to Santa Anna	06	0620CST 1015CST			0	0	100K	40K	Flash Flood
									Between two and a half and five inches of rain fell over a large part of Coleman County the morning of the 6th. Almost five inches of rain was reported in Coleman and about six inches of rain in Santa Anna. Cars stalled in the floodwaters in the streets of Coleman.
Mcculloch County									
Brady	06	0700CST			0	0	50K		Thunderstorm Wind
									Rain and wind pushed tree limbs into power lines, blowing fuses on the lines.
Tom Green County									
Carlsbad	08	0935CST			0	0			Thunderstorm Wind (G52)
Nolan County									
Sweetwater to Blackwell	08	1015CST 1500CST			0	0	50K	25K	Flash Flood
									Street flooding occurred on the south side of Sweetwater while Highway 70 just north of the town was flooded. About two to four inches of rain fell but some nearby locations received much more. Farm Road 1170 between Mayneal and Blackwell was more than six feet under water from nine inches of rain.
Tom Green County									
San Angelo	08	1025CST 1130CST			0	0	10K		Flash Flood
									Flooding occurred on Main and Pulliam streets in downtown San Angelo.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Taylor County									
Abilene	08	1030CST 2300CST			0	0	500K	200K	Flood
Torrential rain, up to three inches an hour, in northern Taylor County flooded service roads along Interstate 20 in Abilene. Many city streets were flooded with stalled cars in the floodwaters. Elm Creek, which flows through Abilene was high and wide with large trees floating down the creek. South of the city, water flowed over the spillway at Lake Abilene and Abilene State Park was evacuated. In nearby Buffalo Gap, floodwaters entered some homes.									
Runnels County									
2 N Winters	08	1344CST			0	0			Hail (0.88)
Mitchell County									
Colorado City	08	1445CST 1545CST			0	0	10K		Flash Flood
Interstate 20 and Highway 208 were flooded in and around Colorado City. Several wrecks were attributed to the rain.									
Schleicher County									
Eldorado	08	1740CST			0	0	25K	10K	Thunderstorm Wind (G52)
Winds blew down large tree branches in the town of Eldorado.									
Schleicher County									
3 E Eldorado	08	1745CST 1750CST	0.1	15	0	0	35K	20K	Tornado (F1)
Brief tornado touchdown. Trees uprooted.									
TXZ053									
Mitchell									
	08	2000CST			0	0	100K	20K	Flood
	12	0600CST							
An upper level low pressure system was moving slowly eastward out of Arizona into New Mexico during the early morning of the 8th. Several upper level disturbances were rotating around this feature into west Texas. Deep tropical moisture remained over the region with precipitable water values well above normal. Thunderstorms moved into the Texas Big Country before noon. As these storms moved eastward, they formed into a slow-moving squall line producing very heavy rainfall over already saturated soils.									
The Colorado River at Colorado City rose above flood stage during the night of the 8th and crested just over 14 feet (flood stage is eight feet) on the 10th.									
Brown County									
May	10	0143CST			0	0			Hail (0.88)
Brown County									
Blanket	10	0215CST			0	0			Hail (1.25)
Brown County									
6 SE Blanket	10	0225CST			0	0			Hail (1.50)
Brown County									
Brownwood	10	0400CST 0700CST			0	0	50K	10K	Flash Flood
Heavy rains caused some flooding of country roads. One carry-all was washed of the road and submerged in the floodwaters. The passengers escaped uninjured.									
Fisher County									
Roby	11	2050CST			0	0			Hail (0.75)
Jones County									
Anson	11	2054CST			0	0			Thunderstorm Wind (G52)
Jones County									
12 W Anson	11	2114CST	0.1	15	0	0			Tornado (F0)
Jones County									
4 W Lueders	11	2126CST	0.1	15	0	0			Tornado (F0)
Taylor County									
5 NW Abilene to Abilene Muni Arpt	11	2130CST 2215CST			0	0	50K	10K	Thunderstorm Wind (G65)
Irion County									
Mertzton	11	2145CST			0	0	10K		Thunderstorm Wind (G51)
Winds broke large tree branches in Mertzton.									
Shackelford County									
14 N Albany	11	2200CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Taylor County									
Abilene Muni Arpt	11	2206CST			0	0			Thunderstorm Wind (G50)
Tom Green County									
4 SW San Angelo	11	2207CST			0	0			Thunderstorm Wind (G50)
Crockett County									
22 N Ozona	12	1827CST			0	0			Hail (1.25)
Irion County									
1 W Barnhart	12	1827CST			0	0			Hail (1.50)
Irion County									
5 SW Mertzon	12	1835CST			0	0			Hail (1.25)
Tom Green County									
2 S Knickerbocker	12	1906CST			0	0			Hail (0.75)
Tom Green County									
Water Vly	12	2055CST			0	0			Thunderstorm Wind (G52)
Tom Green County									
Christoval	12	2123CST			0	0	5K		Thunderstorm Wind (G50)
Coke County									
Oak Creek Res	12	2144CST			0	0	10K		Thunderstorm Wind
									Large tree branches were broken.
Nolan County									
Blackwell to Maryneal	12	2200CST 2217CST			0	0	1M	50K	Thunderstorm Wind (G75)
									An intense swift moving thunderstorm from the Concho Valley to the Big Country, packing wind gusts to near 90 mph, the night of the 12th wreaked most of its havoc on the community of Blackwell. The storm felled large trees, damaged roofs, and destroyed at least one trailer home. No one was seriously injured in the storm, though one woman broke her ankle while entering a storm cellar at her home.
Taylor County									
Bradshaw	12	2254CST			0	0	5K		Thunderstorm Wind
									Large tree limbs were blown down.
Tom Green County									
Carlsbad	14	1827CST			0	0			Hail (0.75)
Sterling County									
Sterling City	14	1830CST			0	0	50K		Thunderstorm Wind
									Winds tore shingles off buildings in Sterling City.
Fisher County									
Roby	14	1835CST			0	0	300K	40K	Thunderstorm Wind
									Strong winds blew down telephone and power poles. Some of the utility poles were pulled right out of the ground. Livestock trailers were thrown around.
Tom Green County									
Water Vly	14	1835CST			0	0			Thunderstorm Wind (G61)
Tom Green County									
San Angelo to 10 NW San Angelo	14	1900CST 2100CST			0	0	25K		Flash Flood
									Heavy rains fell over an area from San Angelo to Grape Creek. Three inches of rain was measured at Grape Creek while 2.75 inches of rain fell in downtown San Angelo. Chadbourne and Pulliam streets were under three feet of water and serious flooding also occurred on Concho Street.
Tom Green County									
10 NW San Angelo	14	1904CST			0	0			Hail (1.00)
Tom Green County									
10 NW San Angelo	14	1912CST			0	0	100K	25K	Thunderstorm Wind
									A severe wind and hail storm damaged roofs in the community of Grape Creek.
Jones County									
Hamlin	14	1915CST			0	0	200K	25K	Thunderstorm Wind (G65)
									Strong winds destroyed a warehouse, ripped off a portion of a carwash, tore the roof off of a downtown store building, toppled a tall sign and a church steeple, and blew down some trees and power lines.
Nolan County									
Roscoe to Sweetwater	14	1932CST			0	0	250K	50K	Thunderstorm Wind
									Winds uprooted trees, downed power lines, and damaged roofs in northern Nolan County.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Coke County									
Bronte	14	1945CST			0	0			Thunderstorm Wind (G52)
Jones County									
Hawley	14	1945CST	0.1	15	0	0			Tornado (F0)
Taylor County									
Buffalo Gap	14	1956CST	0.1	10	0	0			Tornado (F0)
Nolan County									
Sweetwater	14	2000CST 2100CST			0	0	40K	10K	Flash Flood
Many roads were impassable.									
Taylor County									
View	14	2000CST			0	0	50K	5K	Thunderstorm Wind (G70)
Menard County									
Menard	14	2100CST			0	0	75K	25K	Thunderstorm Wind
Large tree limbs were broken in Menard and throughout the county.									
Callahan County									
Baird	14	2112CST			0	0	250K	50K	Thunderstorm Wind
The metal roof of the city hall building was picked up by the winds and landed 250 yards away. There was also wind damage to some nearby housing units. A few power lines were blown down.									
Callahan County									
Clyde	14	2130CST 2200CST			0	0			Flash Flood
Brown County									
Brownwood	14	2159CST			0	0	25K		Thunderstorm Wind
Large tree branches were blown down in Brownwood.									
TXZ053									
Mitchell									
	15	0600CST			0	0	30K	10K	Flood
	16	0600CST							
The Colorado River at Colorado City rose above flood stage for the second time this month. The river crested at 8.98 feet (flood stage is eight feet) on the 16th.									
Tom Green County									
10 NW San Angelo	15	1918CST			0	0			Hail (0.75)
Runnels County									
2 N Winters	16	1429CST			0	0			Hail (0.75)
Coke County									
Tennyson	16	1502CST			0	0	100K	100K	Hail (2.75)
Coke County									
Tennyson	16	1503CST			0	0			Thunderstorm Wind (G52)
Nolan County									
Blackwell	16	1615CST			0	0			Hail (0.75)
Taylor County									
Bradshaw	16	1620CST			0	0			Hail (0.75)
Runnels County									
Winters	16	1629CST			0	0			Hail (0.75)
Taylor County									
Lawn to Abilene	16	1656CST 1704CST			0	0	250K	100K	Hail (1.75)
Nickel to golfball sized hail fell along a path from Lawn to the city of Abilene.									
Taylor County									
Abilene Muni Arprt to 2 NE Abilene	16	1702CST 1737CST			0	0	2M	100K	Thunderstorm Wind (G70)
A wind gust to 52 knots (60 mph) was recorded at the Abilene Municipal Airport at 1702 CST but wind gusts to 70 to 80 mph were reported throughout the city of Abilene. Many trees were uprooted and there was considerable roof damage. Power was lost for several thousand customers.									
Callahan County									
Clyde	16	1725CST			0	0			Thunderstorm Wind (G52)
Taylor County									
Bradshaw	16	1726CST 1736CST			0	0	100K	20K	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	
TEXAS, Central									
Taylor County Dyess Afb	16	1732CST			0	0			Hail (0.75)
Jones County 20 SE Anson	16	1745CST			0	0	100K	25K	Thunderstorm Wind
	Strong winds destroyed two barns and damaged roofs of other buildings.								
Coleman County Coleman	16	1810CST 1820CST			0	0	100K	50K	Hail (1.75)
Brown County Cross Cut	16	1850CST			0	0	250K	250K	Hail (2.75)
Callahan County Cross Plains	16	1905CST			0	0	30K	30K	Hail (0.88)
Fisher County 1 W Roby to 2 SW Roby	16	1910CST 1915CST	1	50	0	0	25K	15K	Tornado (F1)
Fisher County Roby	16	1918CST			0	0	30K	20K	Thunderstorm Wind (G52)
	Visibilities were reduced to zero in blowing dust.								
Jones County 3 W Stamford	16	1920CST			0	0	100K	100K	Hail (1.75)
Jones County 3 W Stamford	16	1920CST	0.1	15	0	0			Tornado (F0)
Jones County 2 NW Lueders	16	1958CST	0.2	25	0	0			Tornado (F0)
Irion County 13 N Mertzon	16	2035CST	0.1	15	0	0			Tornado (F0)
	A tornado was sighted near the community of Arden.								
Tom Green County 10 NW San Angelo	16	2055CST			0	0	25K	25K	Hail (1.00)
	One inch hail fell in the community of Grape Creek.								
Schleicher County Eldorado	16	2134CST	0.1	15	0	0			Tornado (F0)
Sutton County Sonora to 7 W Sonora	16	2251CST			0	0	100K	80K	Hail (1.75)
Mitchell County 7 W Westbrook to 5 ESE Westbrook	20	2005CST 2024CST			0	0	200K	10K	Hail (1.75)
	Hail damaged many vehicles on Interstate 20.								
Mitchell County Westbrook	20	2025CST 2130CST			0	0			Flash Flood
	Heavy rains caused flooding in the streets of Westbrook.								
Mitchell County 5 S Colorado City	20	2130CST			0	0			Thunderstorm Wind (G50)
Kimble County 13 E Segovia to 10 NW Junction	21 22	1530CST 2350CST			0	0	5M	2M	Flood
	Four to eight inches of rain fell over much of Kimble County, with ten inches reported at Segovia and 16 inches a few miles north of Segovia. The heavy rains and floodwaters closed Farm-to-Market roads and highways throughout the county. Water was five feet deep at the entrance to South Llano State Park. The county judge estimated millions of dollars of damage on roads and bridges.								
Mason County 10 SW Mason to Mason	22 23	0200CST 0500CST			0	0	2M	1M	Flood
	Four to eight inches of rain fell over most of Mason County but much higher amounts fell in a few areas. In the town of Mason 10 to 11 inches of rain was reported and in northeast Mason County, there was an unofficial report of 25 inches of rain. Farm-to-Market roads were closed throughout the county.								

Storm Data and Unusual Weather Phenomena

June 1997

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									
Menard County									
Menard	22	0400CST 0630CST			0	0	25K	25K	Flash Flood
Sutton County									
20 SE Sonora	22	0400CST 0630CST			0	0	25K	15K	Flash Flood
Up to three inches of rain fell over southeastern Sutton County.									
Menard County									
Menard	22 23	1600CST 0200CST			0	0	250K	100K	Flood
Up to four inches of rain fell over Menard County with higher amounts in a few areas. The water was up to four feet deep. Farm-to-Market roads and highways were closed.									
McCulloch County									
Brady to 10 SW Brady	22 23	1800CST 0100CST			0	0	200K	100K	Flood
Five inches of rain fell in Brady with heavier rains in southwest McCulloch County. There was widespread street and road flooding throughout the county and Highway 71 was closed. The storms also caused numerous power outages.									
San Saba County									
15 W Cherokee to San Saba	22 23	1830CST 0100CST			0	0	150K	75K	Flood
Up to six and a half inches of rain fell and flooding was reported throughout the county. Highway 71 was closed.									
Coleman County									
15 NNW Coleman to Coleman	22 23	2025CST 0800CST			0	0	100K	25K	Flood
Rainfall rates were up to three inches per hour overnight the 22nd and 23rd. Rain totals throughout the county were all around five inches. The city streets in Coleman were closed due to the floodwaters.									
Brown County									
Brownwood to 10 NNW Brownwood	22 23	2230CST 0500CST			1	0	250K	50K	Flood
Streams and creeks rose rapidly and overflowed in heavy rains. A motorist drowned when he attempted to cross a rapidly overflowing low water crossing on County Road 411 near Hogg Creek. His suburban was washed off the road by swift water. The passenger escaped and was rescued unharmed. The attempted crossing occurred around 2340 CST the night of the 22nd.									
Lake Brownwood rose nearly three feet above its spillway. At least 90 residents near the lake were stranded due to four-foot high waters at a low water crossing. In and around the city of Brownwood, streets and roads were closed due to the flooding. M61VE									
Tom Green County									
Carlsbad	23	0212CST			0	0			Hail (0.75)
Runnels County									
Ballinger	23	0300CST 0835CST			0	0	50K	20K	Flash Flood
Six inches of rain fell in Ballinger in a three to four hour period. City streets and roads throughout the county were flooded.									
Jones County									
Anson	23	0530CST 0800CST			0	0	30K	10K	Flash Flood
Heavy rains flooded streets in the town of Anson.									
Taylor County									
Buffalo Gap to Tuscola	23	0530CST 0800CST			0	0	15K	5K	Flash Flood
Callahan County									
Baird	23	0600CST 0800CST			0	0	10K	3K	Flash Flood
TXZ066-155-169>170									
Runnels - San Saba - Kimble - Mason									
	21	2300CST			0	0	2M	1M	Flood
	24	0600CST							
An upper level low pressure system was stationary over south central Texas and parts of the Hill Country through Saturday the 21st. During the evening on Saturday, this upper low moved slowly northward into the northwest Hill Country near Junction and stayed nearly stationary through Sunday the 22nd. This upper low brought cool temperatures in the mid levels of the atmosphere which combined with warm and very moist air at the surface to create a very unstable environment. Numerous outflow boundaries from weekend storms over south central Texas moved into the northwest Hill Country and provided the focus for thunderstorm development. Weak winds aloft and a continuous flow of moisture from the Gulf of Mexico resulted in nearly stationary storms over Kimble and Mason counties through Sunday the 22nd as the upper low remained over that area. Spiral rain bands around the low repeatedly moved over the same areas, bringing continuous flooding rains. Several river flood warnings were issued along the									

Storm Data and Unusual Weather Phenomena

June 1997

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

TEXAS, Central

Llano River, Colorado River, San Saba River and Elm Creek.

The flooding began in the Junction area during the afternoon of the 21st. Several county roads were flooded and closed by the early evening. The Llano River at Mason rose above bankfull stage of six feet around midnight overnight the 21st. The rain continued across Kimble and Mason counties the rest of the night. By 1400 CST the 22nd, Segovia in eastern Kimble County had received 9.64 inches of rain. The South Llano State Park had a 16 foot rise on the South Llano River in the park, flooding the bridge at the entrance to the state park, and closing the park. Between 1400 CST and 1600 CST the 22nd, the Llano River near Junction rose 12 feet very rapidly. The Llano River crested near Junction at 23.2 feet at 2000CST on the 22nd. Flood stage is 16 feet. No major damage occurred in the city of Junction, although some people were evacuated from mobile homes close to the river as it rapidly rose. The worst flooding occurred to the east of Junction along the Johnson Fork of the Llano River and the Llano River across Mason County. One mobile home along the Johnson Fork was swept away without a trace. The resident was not in the home at the time. One house was also flooded in eastern Kimble County.

In Mason County, the situation was much worse. The flood wave raced rapidly eastward across Mason County Sunday night the 22nd. The Llano River near Mason crested at 37.2 feet around 2200 CST. Bankfull stage is six feet. This crest was a new record since the gage was put in. The previous record was 37 feet on September 8, 1980. The Red Cross reported that one house along the river was completely destroyed. Two houses sustained major damage and 14 houses had minor damage. Agricultural damage was widespread across the county with numerous cattle drowned.

The flooding did not end across the Hill Country. The upper low began to track slowly northward overnight on the 22nd into the early morning of the 23rd. The heavy rainfall moved into the Heartland. Four people had to be rescued from their homes in San Saba as the water rose. The San Saba River at San Saba crested near 29.3 feet around 0800 CST on the 23rd. Flood stage is 24 feet. The Colorado River near San Saba also rose above flood stage, cresting near 34.2 feet during the evening of the 23rd. Flood stage is 30 feet.

Runnels County was the last area to see flooding with this system. Over six inches of rain fell in just a few hours around the city of Ballinger, causing Elm Creek and Colorado River to rise above flood stage. The city park had to be evacuated quickly. The Elm Creek in Ballinger crested at around 9.1 feet in the early afternoon of the 23rd (flood stage seven feet). The city park and golf course were flooded. The Colorado River near Ballinger crested around 24.7 feet on the early afternoon of the 23rd (flood stage 18 feet). A fish farm near the river was flooded and a few homes received minor flood damage. The water emptied into O.H. Ivie Reservoir on the 24th, causing the lake to rise over a foot above conservation level. A release of around 7000 cfs was made on the 24th.

TEXAS, Central Southeast

Colorado County

Eagle Lake	06	2200CST		0	0	10K	Flash Flood
	07	0130CST					

Roads flooded, some up to 3 feet deep, in Eagle Lake.

Austin County

4 N Industry	07	1412CST		0	0	5K	Flash Flood
		1700CST					

HWY 109 & FM 2502 closed due to high water

Washington County

4 S Brenham	07	1412CST		0	0	5K	Flash Flood
		1700CST					

HWY 109 closed due to high water

Madison County

Madisonville	07	1630CST		0	0	25K	Lightning
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Lightning struck tank and caused it to explode at Patfinder #1 Saltwater Disposal Facility.

Houston County

21 W Porter Spgs	10	0400CST		0	0	5K	Thunderstorm Wind
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Large limbs blown down

Houston County

5 E Grapeland	10	0420CST		0	0	5K	Flash Flood
		0500CST					

High water on FM 227 & FM 2022

Trinity County

Trinity	10	0445CST		0	0	5K	Thunderstorm Wind
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Trees blown down

Burleson County

Somerville	10	1000CST		0	0	5K	Flash Flood
		1110CST					

High water on HWY 36

Storm Data and Unusual Weather Phenomena

June 1997

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 Southeast									
Washington County									
Brenham	10	1000CST			0	0	5K		Flash Flood
			Street flooding throughout Brenham						
Houston County									
Weches	13	0150CST			0	0	10K		Hail (1.75)
Houston County									
Weches	13	0159CST			0	0	5K		Hail (1.00)
Houston County									
4 E Grapeland	13	0200CST			0	0	5K		Thunderstorm Wind
			Tree uprooted and blocking FM 228						
Houston County									
Hopewell	13	0311CST			0	0	5K		Flash Flood
			High water on HWY 287						
Houston County									
11 S Crockett	17	0445CST			0	0	5K		Thunderstorm Wind
			Large limbs blown down across southern parts of the county						
Trinity County									
4 S Trinity	17	0520CST			0	0	5K		Thunderstorm Wind
			Trees blown down on northern side of Lake Livingston						
Polk County									
Onalaska	17	0530CST			0	0	5K		Thunderstorm Wind
			Trees blown down in Onalaska along HWY 190						
Washington County									
Brenham	17	0618CST			0	0	5K		Thunderstorm Wind
			Transformer blown off pole at 2400 block of S Austin.						
Grimes County									
Stoneham	17	0645CST			0	0	5K		Hail (0.75)
Harris County									
Kingwood	17	0655CST			0	0	5K		Thunderstorm Wind
			Trees blown down.						
Grimes County									
Plantersville	17	0700CST			0	0	5K		Thunderstorm Wind
			Numerous large branches blown down.						
Liberty County									
2 N Dayton	17	0743CST			0	0	5K		Thunderstorm Wind (G50)
			Large limbs blown down. EMC measured 50 kt winds.						
Austin County									
Kenney	17	0950CST			0	0	5K		Thunderstorm Wind
			Trees blown down blocking area roads.						
Colorado County									
2 W Frelsburg	17	1004CST			0	0	5K		Hail (0.88)
Colorado County									
Columbus	17	1027CST			0	0	5K		Thunderstorm Wind
			Large limbs blown down.						
Harris County									
Katy	17	1025CST			0	0	5K		Thunderstorm Wind
			Large tree uprooted on Fry Rd.						
Harris County									
Houston	17	1040CST			0	0	5K		Hail (0.75)
			3/4" hail at HWY 290 & HWY 6.						
Harris County									
Houston	17	1050CST			0	0	15K		Thunderstorm Wind (G60)
			Several buildings lost tin siding and roofing along Washington St.						
Harris County									
Houston	17	1055CST			0	2	30K		Thunderstorm Wind (G65)
			2 minor injuries due to flying broken glass at 500 Jefferson St. in downtown Houston.						
Harris County									
Houston	17	1055CST			0	6	30K		Thunderstorm Wind (G65)
			6 minor injuries due to flying broken glass at One Shell Plaza in downtown Houston.						

Storm Data and Unusual Weather Phenomena

June 1997

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 Southeast									
Harris County									
Houston	17	1100CST			0	0	25K		Thunderstorm Wind
Trees and fences blown down along Westheimer. 5 car windows also broken from flying debris.									
Harris County									
Houston	17	1105CST			0	0	15K		Thunderstorm Wind (G65)
Large trees and powerlines blown down in the Galleria area.									
Harris County									
Houston	17	1115CST			0	0	200K		Thunderstorm Wind
1000's of trees blown down throughout the Houston area, some on cars and houses. Small wall collapsed at the Astrodome.									
Harris County									
Clear Lake City	17	1130CST			0	0	30K		Thunderstorm Wind
Trees uprooted area-wide from 2900 block of Bay Area Blvd. to Red Bluff. Signs and trees blown down at Clear Lake High School.									
Harris County									
Deer Park	17	1130CST			0	0	10K		Thunderstorm Wind
McDonalds sign blown down.									
Harris County									
Clear Lake City	17	1135CST			0	0	25K		Thunderstorm Wind
Garage doors and trees blown down at NASA. Several car windows also broken due to flying debris. A large HP Supercell developed over NW Harris County between Katy and Cypress around 11 AM and tracked ESE at 35 mph across Harris County. This storm produced a large swath of straight line wind damage as it crossed through the NW suburbs...the heart of downtown Houston...the ship channel...and the Bay Area communities. When this storm crossed Loop 610 near US 290 on the NW side...radar indicated sufficient rotation for possible tornadoes. This signature continued until the storm was over the downtown area. While numerous reports of funnel clouds or tornado touchdowns were received, post-storm surveys from the air and ground indicated it was hard to distinguish tornado damage from strait line wind damage. Storm spotters and emergency management officials reported widespread damage to windows, billboard and powerlines along the storms' path. Eight minor injuries were reported from flying glass from blown in windows in windows at two downtown office buildings. In addition, HL&P reported up to 192,000 customers without power in the wake of the storm.									
Brazoria County									
5 W Pearland	17	1125CST			0	0			Thunderstorm Wind (G58)
Galveston County									
6 S Kemah	17	1130CST			0	0	160K		Thunderstorm Wind
Pwerlines down in San Leon and Baycliff. Roof blown off shed 6 miles south of the Kemah bridge. Roof on Spillway Pier blown off with debris damaging 2 cars.									
Galveston County									
Dickinson	17	1200CST			2	2	20K		Heavy Rain
Car hydroplaned near FM 646 exit and ran into TDT truck on shoulder. 2 killed/2 injured. M19VE, M36VE									
Brazoria County									
Richwood	17	1210CST			0	0	5K		Thunderstorm Wind
Shingles blown off church.									
Chambers County									
Anahuac	17	1215CST			0	0	5K		Thunderstorm Wind
Mobile home sustained wind damage.									
Galveston County									
Galveston	17	1230CST			0	0			Thunderstorm Wind (G52)
Galveston County									
San Luis Pass	17	1245CST			0	0			Thunderstorm Wind (G50)
Brazoria County									
Angleton	18	1312CST			0	0			Thunderstorm Wind (G50)
Brazoria County									
Clute	18	1327CST 1500CST			0	0	5K		Flash Flood
Street/ditch flooding in Clute.									
Brazoria County									
Clute	18	1327CST			0	0	5K		Thunderstorm Wind (G52)
Large limbs blown down.									
Jackson County									
County	21	1545CST 1750CST			0	0	5K		Flash Flood
CR 285 under water.									

Storm Data and Unusual Weather Phenomena

June 1997

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 Southeast</u>									
Jackson County									
Edna	21	1606CST 1610CST	1	25	0	0	20K		Tornado (F0)
									Large trees uprooted, windows broken, and roofs damaged along the path.
Wharton County									
El Campo	21	1645CST 1649CST	0.5	20	0	0	20K		Tornado (F0)
									House on Thrift St. moved 4 feet off concrete piers. Bard sustained minor damage in Pierce.
Brazoria County									
Manvel	21	1730CST			0	0	5K		Thunderstorm Wind
									Trees blown down blocking CR 190.
Brazoria County									
Rosharon	21	1730CST			0	0	5K		Thunderstorm Wind
									Trees blown down blocking CR 42.
Harris County									
Houston	21	1755CST			0	0			Thunderstorm Wind (G52)
Harris County									
Morgans Point	21	1837CST			0	0			Thunderstorm Wind (G75)
Harris County									
La Porte	21	1847CST			0	0	5K		Hail (0.75)
									Hail at Sealand Marine.
Harris County									
La Porte	21	1847CST			0	0	5K		Thunderstorm Wind (G50)
									Powerlines blown down at Sealand Marine.
Madison County									
Madisonville	22	1702CST			0	0	5K		Thunderstorm Wind
									Trees blown down.
<u>TEXAS, Extreme West</u>									
Hudspeth County									
Sierra Blanca	06	1604MST 1620MST	8	100	0	0			Tornado (F0)
Hudspeth County									
Sierra Blanca	07	1803MST 1830MST	10	500	0	0			Tornado (F1)
Hudspeth County									
Allamore	07	2025MST 2040MST			0	0			Hail (0.75)
Hudspeth County									
Dell City	12	1810MST 1820MST			0	0			Thunderstorm Wind (G65)
									Wind speed estimated by Sheriff's Department
El Paso County									
Socorro	15	1740MST 1750MST			0	0			Hail (0.75)
<u>TEXAS, Mid - South</u>									
Webb County									
20 NW Laredo	06	1700CST			0	0	0		Flash Flood
									Sheriff report of 1.5 to 2 feet of water covering roadways.
Memullen County									
25 S Tilden	06	1815CST			0	0	0		Thunderstorm Wind (G50)
									Sheriff report of strong and gusty thunderstorm wind.
Live Oak County									
Three Rivers	06	1845CST			0	0	0		Hail (0.75)
									Public report of dime sized hail.
Nueces County									
Corpus Christi	06	2230CST			0	0	0		Flash Flood
									Public report of numerous roadways flooded.
Webb County									
20 N Laredo	15	0233CST			0	0	0		Flash Flood
									U.S. Highway 35 closed due to high water and several stranded vehicles.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Mid - South									
La Salle County									
Cotulla	15	0250CST			0	0	0		Flash Flood
	Sheriff report of flooded roadways.								
La Salle County									
Cotulla	15	0540CST			0	0	0		Flash Flood
	Sheriff and border patrol report of flooded streets.								
Webb County									
20 N Laredo	15	0555CST			0	0	0		Flash Flood
	Numerous reports of flooded roadways.								
Live Oak County									
Lagarto	17	1515CST			0	0	0		Hail (0.75)
	Sheriff report of dime sized hail near Lake Corpus Christi.								
Jim Wells County									
Orange Grove	17	1630CST			0	0	0		Thunderstorm Wind (G50)
	Sheriff and public report of strong thunderstorm wind.								
Nueces County									
Banquete	17	1645CST	0.2	30	0	1	80K		Tornado (F1)
	Sheriff and public report of a tornado. The tornado flipped over a vehicle and caused structural damage to homes. One man was injured with minor facial lacerations from flying debris and glass.								
Bee County									
Beeville	17	1650CST			0	0	0		Hail (1.00)
	Sheriff report of quarter sized hail.								
Jim Wells County									
Orange Grove	17	1720CST			0	0	0		Hail (2.50)
	Sheriff and public report of tennis ball sized hail.								
Goliad County									
Goliad	17	1825CST			0	0	0		Hail (0.75)
	Sheriff report of dime sized hail.								
Jim Wells County									
5 NE Orange Grove	17	1830CST			0	0	0		Hail (0.75)
	Spotter and public report of dime sized hail.								
Nueces County									
3 W Robstown	17	1835CST			0	0	100K		Thunderstorm Wind (G60)
	Strong thunderstorm wind gusts resulted in extensive damage to cotton crops along with several large uprooted trees.								
Jim Wells County									
Orange Grove	17	1850CST			0	0	0		Flash Flood
	Sheriff report of several roadways under water due to torrential thunderstorm rain.								
Nueces County									
Corpus Christi	17	1856CST			0	0			Thunderstorm Wind (G52)
	Naval Air Station (NGP) report of 52 knot thunderstorm wind gust that resulted in minor damage.								
Jim Wells County									
Orange Grove	17	1945CST			0	0	0		Flash Flood
	Sheriff report of continued flooding of several roadways.								
Jim Wells County									
Orange Grove	17	2145CST			0	0	0		Flash Flood
	Sheriff report of several roadways flooded.								
Victoria County									
Victoria	19	1405CST			0	0			Thunderstorm Wind (G52)
	NWS spotter report of strong thunderstorm wind gust.								
Victoria County									
Victoria	19	1415CST			0	0	0		Hail (1.00)
	NWS spotter report of quarter sized hail.								
Victoria County									
2 NW Victoria	19	1415CST			0	0			Thunderstorm Wind (G50)
	Public report of strong thunderstorm wind gust resulting in minor structural damage.								
Victoria County									
Victoria	19	1440CST			0	0	0		Hail (0.75)
	Public report of dime sized hail.								

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Bee County 2 W Beeville	19	1537CST			0	0			Hail (1.25)
			Sheriff report of hail.						
Bee County 2 W Beeville	19	1537CST			0	0			Thunderstorm Wind (G50)
			Sheriff report of strong thunderstorm wind with numerous trees downed.						
Live Oak County Dinero	19	1630CST			0	0			Thunderstorm Wind (G52)
			NWS spotter report of 60 mph thunderstorm wind gust.						
Live Oak County George West	19	1705CST 1730CST			0	0			Thunderstorm Wind (G52)
			Numerous sheriff and public reports of 60 mph thunderstorm wind gusts with several power lines and trees downed. One shed was destroyed by the strong wind.						
Webb County 10 SW Aguilares	19	1900CST			0	0			Hail (1.00)
			Spotter report of quarter sized hail.						
Live Oak County Dinero	19	1930CST			0	0	0		Flash Flood
			Sheriff reports of roadways flooded.						
Goliad County Goliad	21	1500CST			1	0	0		Flash Flood
			A nearly stationary area of showers and thunderstorms developed across the county. At 3pm CST...numerous roadways became flooded. The resulting torrential downpours forced a nearby creek to become dangerously rapid as 5 to 6 inches of rainfall fell in approximately 3 hours. Between 4 and 5 pm CST...a 21-year old man drowned as a result after an attempt to cross the swollen creek on horseback. M21IW						
Victoria County 2 N Victoria	21	1538CST			0	0	0		Flash Flood
			Sheriff reports of numerous roadways closed due to flooding.						
Live Oak County 6 N Three Rivers	21	1627CST			0	0	0		Flash Flood
			Sheriff report of flooded roadways.						
Duval County 12 E Freer	21	1930CST			0	0	0		Thunderstorm Wind (G52)
			NWS spotter report of strong thunderstorm wind gust.						
San Patricio County Mathis	21	2130CST			0	0	0		Thunderstorm Wind (G52)
			Public report of 60 mph thunderstorm wind gust.						
Nueces County 5 NW Robstown	21	2340CST			0	0	0		Flash Flood
			Sheriff report of roadways closed due to flooding.						
<u>TEXAS, North</u>									
Grayson County Whitesboro	09	1814CST			0	0			Hail (1.00)
Grayson County 3 W Sherman	09	1830CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees on Highway 56 west of town.						
Grayson County Howe	09	1835CST			0	0			Hail (1.75)
Grayson County Tom Bean	09	1845CST			0	0			Hail (3.00)
			Tangerine size hail was reported.						
Grayson County Pilot Grove	09	1905CST			0	0	100K		Thunderstorm Wind
			Strong winds damaged the roofs of four homes.						
Grayson County Denison	09	1920CST			0	0	0		Thunderstorm Wind (G61)
Cooke County Dexter	09	1844CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Fannin County Nobility	09	1915CST			0	0	15K		Thunderstorm Wind
									Strong winds blew the roof off a farm house and blew down trees.
Fannin County Leonard	09	1925CST			0	0	0		Thunderstorm Wind
									Strong winds uprooted trees.
Collin County Plano	09	2014CST			0	0			Hail (1.00)
Collin County Allen	09	2019CST			0	0			Hail (0.75)
Collin County Plano	09	2019CST			0	0			Hail (0.75)
Collin County Plano	09	2019CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down trees and power lines.
Collin County Plano	09	2045CST			0	0			Hail (1.00)
Collin County Plano	09	2048CST 2200CST			0	0			Flash Flood
									Numerous roads were closed in town due to flooding.
Collin County Allen	09	2100CST 2300CST			0	0			Flash Flood
									Locally heavy rain resulted in street flooding. Several cars were stranded in flood waters.
Dallas County Richardson	09	2103CST			0	0			Hail (2.00)
Hunt County Greenville	09	2104CST			0	0			Thunderstorm Wind (G57)
Wise County Bridgeport	09	2109CST			0	0			Hail (1.75)
Wise County Paradise	09	2125CST			0	0			Hail (1.00)
Rains County 4 SW Point	09	2230CST			0	0	0		Thunderstorm Wind
									Strong winds blew down large tree limbs.
Rains County Point	09	2230CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Eastland County Cisco	09	2325CST			0	0			Hail (0.75)
Eastland County Carbon	09	2340CST			0	0			Hail (1.00)
Comanche County 5 NW Rucker	10	0001CST			0	0	0		Thunderstorm Wind (G52)
Eastland County Gorman	10	0005CST			0	0	0		Thunderstorm Wind (G61)
Erath County 2 E Stephenville	10	0008CST			0	0			Hail (1.00)
Erath County Dublin	10	0045CST			0	0	10K		Thunderstorm Wind
									Strong winds damaged signs and sheds.
Hill County Whitney	10	0135CST			0	0			Hail (0.88)
McLennan County Bellmead	10	0220CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
McLennan County Waco	10	0236CST			0	0	0		Thunderstorm Wind (G55)
									The ASOS unit at the Waco Regional Airport measured a 55 knot wind gust.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Haskell County Rule	11	2110CST			0	0	0		Thunderstorm Wind (G52)
Hopkins County Saltillo	12	1445CST			0	0			Hail (0.75)
Young County Farmer	12	2206CST			0	0	2K		Thunderstorm Wind
Strong winds blew down power lines.									
Jack County Antelope	12	2208CST			0	0			Hail (1.50)
Half dollar size hail covered the ground.									
Jack County 3 SW Jacksboro	12	2305CST			0	0	0		Thunderstorm Wind
Strong winds blew down trees.									
Young County 6 N Loving	12	2215CST			0	0			Hail (2.00)
Young County 3 S Loving to 3.5 S Loving	12	2230CST 2232CST	0.5	50	0	0	2K		Tornado (F0)
A spotter reported a tornado south of Loving and northeast of Graham. The tornado damaged trees and power lines.									
Young County 5 SE Loving to 8 SE Loving	12	2235CST 2241CST	3	100	0	0	2K		Tornado (F1)
A storm spotter tracked a tornado from East Central Young County into Southwest Jack County. The tornado destroyed trees and power lines.									
Jack County 1 W Bryson to 7 S Bryson	12	2242CST 2255CST	8	100	0	0			Tornado (F1)
Wise County Alvord	12	2305CST			0	0	2K		Thunderstorm Wind
Strong winds blew down power lines.									
Wise County Boyd	13	0000CST			0	0	0		Thunderstorm Wind
Strong winds blew down trees.									
Denton County Krum	13	0010CST			0	0			Hail (0.75)
Denton County Argyle	13	0112CST			0	0			Hail (0.75)
Hunt County Greenville	13	0240CST			0	0	0		Thunderstorm Wind (G60)
TXZ094>095-105>107-121-123-135-146-148-162									
	13	1500CST			0	0			Severe Thunderstorms
	14	0400CST							
Thunderstorms that moved into northern Texas during the early morning hours of the 13th dissipated over northeastern portions during the mid-morning hours. An outflow boundary associated with this activity reinforced a frontal boundary that was stationary just south of the Red River. During the afternoon, a low pressure system moved east into the north central portions of the area and an associated dry line extended into the Texas Hill Country. The moist atmosphere to the east of the dry line became extremely unstable by mid-afternoon as an upper level disturbance moved into the Southern Plains. Severe thunderstorms erupted along the stationary front. Some of these thunderstorms evolved into supercells as low level winds to the northeast of the surface low backed to the east and southeast. At least two tornadoes, hail up to baseball size, strong damaging downbursts, and locally heavy rain occurred as the storms developed southward through the early morning hours of the 14th.									
Lamar County Direct	13	1531CST			0	0			Hail (0.75)
Lamar County Maxey	13	1554CST			0	0			Hail (0.75)
Lamar County Brookston	13	1618CST			0	0			Hail (2.75)
Lamar County Paris	13	1625CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Lamar County 4 NW Deport	13	1635CST			0	0			Hail (1.75)
Lamar County Cunningham	13	1650CST			0	0			Thunderstorm Wind (G61)
			Strong winds blew down large trees.						
Lamar County Paris	13	1917CST 2130CST			0	0			Flash Flood
			Several roads were reported flooded.						
Delta County Lake Creek	13	1645CST			0	0			Hail (0.75)
Delta County Lake Creek	13	1655CST			0	0	30K		Thunderstorm Wind
			Strong winds blew the roof and the porch off a home.						
Delta County Enloe	13	1712CST 1900CST			0	0			Flash Flood
			Highway 198 was reported flooded.						
Delta County Lake Creek	13	1720CST			0	0	25K		Thunderstorm Wind
			Strong winds flipped a mobile home and blew down trees.						
Delta County 5 W Klondike	13	1745CST			0	0			Hail (0.88)
Delta County 5 W Klondike	13	1800CST			0	0			Hail (0.88)
Delta County 5 W Klondike	13	1805CST			0	0			Hail (1.75)
Delta County Klondike	13	1805CST			0	0	0		Thunderstorm Wind (G65)
Delta County Cooper	13	1919CST 2130CST			0	0			Flash Flood
			Numerous roads throughout the county were reported flooded.						
Hopkins County Sulphur Bluff	13	1706CST			0	0			Hail (0.75)
Hopkins County Sulphur Spgs	13	1833CST			0	0			Hail (0.75)
Hopkins County Sulphur Spgs	13	1840CST			0	0			Hail (1.75)
Hopkins County Sulphur Spgs	13	1842CST			0	0	0		Thunderstorm Wind (G61)
Hopkins County Sulphur Spgs	13	1850CST			0	0			Hail (1.75)
Hopkins County Sulphur Spgs	13	1900CST 2100CST			0	0			Flash Flood
			Several streets were reported flooded and one was closed due to high water.						
Hopkins County Como	13	1903CST			0	0			Hail (1.75)
Hopkins County Sulphur Spgs	13	1903CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Fannin County Gober	13	1723CST			0	0			Hail (1.75)
Hunt County Greenville	13	1740CST			0	0	2K		Thunderstorm Wind
			Strong winds blew down trees and power lines.						
Hunt County Commerce	13	1820CST			0	0	40K		Thunderstorm Wind
			Strong winds blew a tree onto a house.						

Storm Data and Unusual Weather Phenomena

June 1997

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									
Hunt County 5 N Greenville	13	1920CST			0	0	0		Thunderstorm Wind
		Strong winds blew down numerous trees.							
Hunt County 5 NW Greenville	13	2045CST 2047CST	0.1	25	0	0			Tornado (F0)
		A brief tornado was reported.							
Hunt County Muddig	13	2100CST			0	0			Hail (1.00)
Hunt County Muddig	13	2100CST			0	0	40K		Thunderstorm Wind
		Strong winds damaged the roof and a wall of a home.							
Hunt County Greenville	13	2115CST 2315CST			0	0			Flash Flood
		Several streets were flooded due to heavy rain.							
Rains County 3 S Emory	13	2028CST 2029CST	0.1	25	0	0			Tornado (F0)
		A brief tornado was reported by law enforcement personnel.							
Rains County Emory	13	2030CST			0	0			Thunderstorm Wind (G52)
Van Zandt County Canton	13	2214CST			0	0			Hail (0.88)
Van Zandt County 5 NW Edom	13	2240CST			0	0			Hail (0.88)
Van Zandt County 5 S Van	13	2245CST			0	0	0		Thunderstorm Wind
		Large trees were blown down by strong winds.							
Van Zandt County 5 S Van	13 14	2300CST 0100CST			0	0			Flash Flood
		Several roads were reported flooded.							
Van Zandt County 5 S Van	13	2345CST			0	0	0		Thunderstorm Wind
		Strong winds blew down trees.							
Henderson County 4 NW Tool	13	2330CST			0	0	0		Thunderstorm Wind (G52)
Kaufman County Mabank	13	2345CST			0	0	7K		Thunderstorm Wind
		Strong winds destroyed a barn, and downed trees and power lines.							
Navarro County Kerens	13	2355CST			0	0			Hail (0.75)
Navarro County Kerens	13	2355CST			0	0	0		Thunderstorm Wind (G52)
Henderson County Malakoff	14	0010CST			0	0	50K		Thunderstorm Wind
		Strong winds destroyed a dock on the south side of Cedar Creek Reservoir.							
Henderson County Larue	14	0015CST			0	0			Thunderstorm Wind (G52)
		Strong winds blew down large tree limbs.							
Leon County Buffalo	14	0300CST			0	0	0		Thunderstorm Wind
		Strong winds blew down large tree limbs and uprooted a tree.							
Anderson County Cayuga	14	0015CST			0	0			Hail (0.75)
Anderson County Bois D Arc	14	0100CST			0	0			Hail (0.75)
Anderson County Palestine	14	0100CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North									
Anderson County Palestine	14	0100CST			0	0			Thunderstorm Wind (G52)
			Strong winds blew down trees.						
Haskell County Rule	14	1930CST			0	0			Thunderstorm Wind (G61)
			Strong winds blew down trees.						
Haskell County Sagerton	14	1930CST			0	0	0		Thunderstorm Wind (G61)
			Strong winds blew down trees.						
Parker County Weatherford	14	2347CST			0	0			Flash Flood
	15	0130CST	Several roads were reported flooded throughout the county.						
Tarrant County 2 WNW Saginaw	15	0015CST			0	0	100K		Thunderstorm Wind
			Strong winds damaged the roof of Boswell High School and destroyed the scoreboard at the baseball field.						
Tarrant County Ft Worth	15	0025CST			0	0			Thunderstorm Wind (G52)
			A 60 mph wind gust was measured at the NWSFO Fort Worth on the north side of town.						
Tarrant County Saginaw	15	0025CST			0	0	15K		Thunderstorm Wind
			Strong winds damaged a roof and blew down trees.						
Tarrant County Ft Worth	15	0050CST			0	0	25K		Thunderstorm Wind
			Strong winds blew a tree down onto a house.						
Dallas County Dallas	15	0100CST			0	0			Thunderstorm Wind (G61)
			Strong winds blew down several large trees.						
Ellis County Waxahachie	15	0100CST			0	0	0		Thunderstorm Wind
			Strong winds blew down large tree limbs.						
Johnson County Burleson	15	0100CST			0	0	2K		Thunderstorm Wind (G52)
			Strong winds damaged a gate.						
Eastland County Morton Vly	15	2245CST			0	0			Thunderstorm Wind (G52)
			Strong winds blew down large tree limbs.						
Stephens County Gunsight	15	2245CST			0	0	2K		Thunderstorm Wind
			Strong winds blew down power lines.						
TXZ091>095-098>107-115>118-120>123-129>134-141	16	1600CST	Montague - Cooke - Grayson - Fannin - Lamar - Haskell - Throckmorton - Young - Jack - Wise - Denton - Collin - Hunt - Delta - Hopkins - Stephens - Palo Pinto - Parker - Tarrant - Rockwall - Kaufman - Van Zandt - Rains - Eastland - Erath - Hood - Somervell - Johnson - Ellis - Comanche						
	17	0200CST			0	0			Severe Thunderstorms
			A very moist and unstable air mass was in place over northern Texas on the 16th as an unseasonably strong upper level storm system approached the Southern Plains from New Mexico during the day. By mid-afternoon, a surface trough had developed over the western portions of North Texas. Daytime heating and mid-level cooling associated with the approaching disturbance weakened the cap that was over the area enough to allow thunderstorms to develop along the low pressure trough. The combination of strong instability and weak to moderate wind shear was conducive for several of the storms to become supercells. At least three tornadoes, hail to hen egg size, downbursts of up to 80 mph, and isolated flash flooding occurred as the severe thunderstorms moved east across mainly the northern half of the area.						
Parker County Whitt	16	1630CST			0	0			Hail (0.75)
Parker County Whitt	16	1630CST			0	0			Thunderstorm Wind (G52)
Parker County 4 W Weatherford	16	2000CST			0	0			Hail (0.75)
Parker County 4 W Weatherford	16	2000CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Parker County									
6 E Weatherford	16	2045CST			0	0	2K		Thunderstorm Wind
			Strong winds blew down power lines in Willow Park.						
Wise County									
Boonsville	16	1630CST			0	0			Hail (0.75)
Wise County									
4 SSE Rhome	16	1715CST			0	0	0		Thunderstorm Wind (G58)
Wise County									
1 S Rhome	16	1737CST			0	0			Hail (1.75)
Wise County									
Boyd	16	1926CST			0	0			Hail (0.88)
Wise County									
Bryan	16	1935CST			0	0			Hail (0.88)
Wise County									
Boyd	16	1940CST			0	0			Hail (0.88)
Denton County									
Justin	16	1759CST			0	0			Hail (0.75)
Denton County									
Justin	16	1759CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Denton County									
Roanoke	16	1802CST			0	0			Hail (1.00)
Denton County									
Lewisville	16	1820CST			0	0			Hail (0.75)
Denton County									
Lewisville	16	1833CST			0	0			Hail (1.00)
Denton County									
Lewisville	16	1836CST			0	0	2K		Thunderstorm Wind
			Strong winds blew down power lines						
Denton County									
Lewisville	16	1842CST			0	0	120K		Thunderstorm Wind
			Strong winds overturned a mobile home. Trees and power lines were also downed by the strong winds. A large tree was blown onto a house resulting in major damage.						
Denton County									
4 E Lewisville	16	1844CST			0	0			Thunderstorm Wind (G58)
			Wind gusts to 67 mph were measured in The Colony.						
Denton County									
5 W Roanoke	16	1900CST			0	0	5K		Thunderstorm Wind
			Strong winds blew down trees on I-35W at Eagle Parkway. Wind damage also occurred in the infield of the Texas Motor Speedway (5 NW Roanoke) where a temporary trailer was flipped.						
Denton County									
3 E Roanoke	16	1915CST			0	0			Hail (0.75)
Denton County									
3 E Roanoke	16	1915CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Denton County									
Justin	16	1950CST			0	0			Hail (1.75)
Denton County									
Denton	16	2054CST 2230CST			0	0			Flash Flood
			Numerous roads throughout the county were reported flooded.						
Tarrant County									
4 N Keller	16	1803CST			0	0			Hail (1.00)
Tarrant County									
Grapevine	16	1805CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Tarrant County									
Keller	16	1904CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Tarrant County Grapevine	16	1920CST			0	0			Hail (0.88)
Tarrant County White Settlement	16	2038CST			0	0			Hail (0.75)
Tarrant County Saginaw	16	2131CST			0	0			Hail (0.75)
Tarrant County Arlington	16	2225CST			0	0			Hail (1.00)
Tarrant County Arlington	16	2229CST 2233CST			0	0			Hail (1.75)
Tarrant County Arlington	16	2237CST			0	0			Hail (0.75)
Tarrant County Benbrook	16	2254CST			0	0	0		Thunderstorm Wind (G52)
Tarrant County Ft Worth	16	2256CST			0	0			Hail (2.00)
Tarrant County Ft Worth	16	2256CST			0	0			Thunderstorm Wind (G52)
Tarrant County Arlington	16	2315CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down trees and a light pole.
Tarrant County Euless	16	2320CST			0	0	0		Thunderstorm Wind
									Strong winds blew down large tree limbs.
Cooke County Siueils Bend	16	1820CST			0	0			Hail (0.88)
Stephens County 12 SW Breckenridge	16	1830CST			0	0	0		Thunderstorm Wind (G52)
Stephens County Breckenridge	16	2045CST			0	0			Hail (1.00)
Dallas County Coppell	16	1840CST 1850CST			0	0			Hail (1.00)
Dallas County Coppell	16	1850CST			0	0	0		Thunderstorm Wind (G50)
Dallas County Richardson	16	1915CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down power lines.
Dallas County Grapevine	16	1920CST			0	0			Hail (0.88)
Dallas County Dallas	16	2200CST			0	0	10K		Thunderstorm Wind
									Strong winds blew down large tree limbs and damaged the roof of a house.
Dallas County Dallas	16	2201CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Dallas County Garland	16	2210CST			0	0			Thunderstorm Wind (G52)
									Strong winds blew down large tree limbs.
Dallas County Grand Prairie	16	2237CST			0	0			Hail (0.88)
Dallas County Cedar Hill	16	2239CST			0	0			Hail (2.00)
Dallas County De Soto	16	2257CST			0	0			Hail (0.75)
Dallas County Grand Prairie	16	2320CST			0	0			Thunderstorm Wind (G58)

Storm Data and Unusual Weather Phenomena

June 1997

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	16	2322CST			0	0	0		Thunderstorm Wind (G52)
Dallas County Duncanville	16	2324CST			0	0			Hail (0.75)
Dallas County Duncanville	16	2324CST			0	0	0		Thunderstorm Wind (G52)
Dallas County De Soto	16	2335CST			0	0	2K		Thunderstorm Wind
Strong winds blew down power lines.									
Collin County Plano	16	1903CST			0	0			Hail (0.75)
Collin County 2 W Plano	16	1903CST			0	0	40K		Thunderstorm Wind
Strong winds removed the roof of an apartment, destroyed a barn, and blew down large tree limbs.									
Collin County Plano	16	1904CST			0	0	0		Thunderstorm Wind
Strong winds blew down trees.									
Collin County Plano	16	1910CST			0	0			Hail (0.88)
Collin County Plano	16	1910CST			0	0	0		Thunderstorm Wind (G58)
Strong winds blew down trees on the east side of town.									
Palo Pinto County Palo Pinto	16	1905CST			0	0			Hail (0.75)
Palo Pinto County Graford	16	1930CST			0	0	5K		Thunderstorm Wind
Strong winds blew down large limbs and signs in town.									
Palo Pinto County Mineral Wells	16	2145CST			0	0	7K		Thunderstorm Wind
Strong winds blew down power lines. A tree was blown onto a car resulting in minor damage.									
Young County 3 S Newcastle	16	1907CST			0	0			Hail (0.75)
Young County 10 SW Graham	16	2001CST			0	0			Hail (1.00)
Young County Olney	16	2040CST			0	0	25K		Thunderstorm Wind (G61)
Strong winds blew down trees and power lines, and damaged homes.									
Young County Eliasville	16	2050CST 2051CST	0.1	25	0	0			Tornado (F0)
Spotters reported a brief tornado touchdown.									
Young County South Bend	16	2110CST 2112CST	0.1	35	0	0			Tornado (F1)
A tornado destroyed large trees.									
Young County Newcastle	16	2134CST			0	0	10K		Thunderstorm Wind
Strong winds removed the roof from a mobile home.									
Eastland County Pioneer	16	1916CST 1917CST	0.1	25	0	0			Tornado (F0)
Spotters reported a brief tornado touchdown.									
Eastland County Eastland	16	1930CST			0	0			Hail (1.75)
Eastland County 7 SE Eastland	16	1934CST			0	0			Hail (0.75)
Rockwall County Rockwall	16	1920CST			0	0	25K		Thunderstorm Wind
Strong winds removed the roof of a house near the lake.									

Storm Data and Unusual Weather Phenomena

June 1997

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									
Haskell County									
Rochester	16	1930CST			0	0	0		Thunderstorm Wind (G58)
Haskell County									
Rule	16	1930CST			0	0	0		Thunderstorm Wind (G58)
Haskell County									
Sagerton	16	1930CST			0	0			Hail (0.75)
Haskell County									
10 SE Haskell	16	1940CST			0	0			Hail (1.75)
Haskell County									
10 SE Haskell	16	1940CST			0	0	0		Thunderstorm Wind (G58)
Hunt County									
Caddo Mills	16	1930CST			0	0	0		Thunderstorm Wind (G58)
Hunt County									
Quinlan	16	2309CST			0	0	0		Thunderstorm Wind (G61)
Throckmorton County									
Throckmorton	16	2015CST			0	0	0		Thunderstorm Wind (G52)
Jack County									
Bryson	16	2130CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Jack County									
Jacksboro	16	2130CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Johnson County									
Godley	16	2310CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down power lines.
Comanche County									
3 W Proctor	16	2320CST			0	0			Hail (0.75)
Johnson County									
Joshua	16	2320CST			0	0	40K		Thunderstorm Wind
									Strong winds destroyed several barns and damaged mobile homes.
Comanche County									
Lamkin	16	2335CST			0	0	0		Thunderstorm Wind (G65)
Ellis County									
Midlothian	16	2340CST			0	0	0		Thunderstorm Wind (G58)
Rains County									
Emory	16	2340CST			0	0	50K		Thunderstorm Wind
									Strong winds uprooted several large trees. A home received major damage after a tree was blown down onto it.
Rains County									
Emory	16	2340CST			0	0	0		Thunderstorm Wind (G52)
Dallas County									
Seagoville	17	0008CST			0	0	0		Thunderstorm Wind (G52)
Dallas County									
Dallas	17	0130CST 0200CST			0	0			Flash Flood
									A road was reported flooded due to heavy rain that fell in the area.
Kaufman County									
Kaufman	17	0010CST			0	0	0		Thunderstorm Wind (G52)
Van Zandt County									
7 SW Canton	17	0028CST			0	0	20K		Thunderstorm Wind
									Strong winds blew the windows out of homes.
Van Zandt County									
5 N Canton	17	0040CST			0	0			Hail (2.00)
TXZ091>095-100>107-115>120-129>133-141>144-146-160-162-175									
	22	1200CST			0	0			Severe Thunderstorms
	23	1000CST							
									An upper level low pressure system moved north-northwest into northern Texas from the Hill Country on the 22nd. A dry slot to

Storm Data and Unusual Weather Phenomena

June 1997

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								
								the east of the low allowed moderate surface heating to occur under mid-level cool air associated with the upper system. The atmosphere became very unstable and severe thunderstorms developed over the area. The severe thunderstorms moved north across much of North Texas and produced widespread wind damage and a tornado.
								During the evening, the event shifted to a heavy rain episode as strong thunderstorms moved repeatedly across the western quarter of North Texas. Widespread flash flooding occurred as upwards of eight inches of rain fell locally.
Comanche County 2 SW De Leon to 1.5 SW De Leon	22	1230CST 1233CST	0.5	35	0	0	70K	Tornado (F0)
								A tornado removed the roof from a mobile home, destroyed 3 barns and downed trees.
Comanche County Sipe Spgs	22	1930CST 2130CST			0	0		Flash Flood
								Two feet of water was reported over Farm-to-Market Road 587.
Comanche County Comanche	22 23	2346CST 0230CST			0	0		Flash Flood
								Several roads throughout the county were reported flooded.
Bosque County Kopperl	22	1245CST			0	0	0	Thunderstorm Wind
								Strong winds blew down large tree limbs.
Eastland County Olden	22	1245CST			0	0	15K	Thunderstorm Wind
								Strong winds blew down trees and destroyed several barns.
Eastland County Eastland	22	1925CST 2300CST			0	0		Flash Flood
								Several roads were reported flooded throughout the county.
Eastland County Eastland	22 23	2340CST 0200CST			0	0		Flash Flood
								Several creeks and streams across the county were reported flooded.
Somervell County Nemo	22	1305CST			0	0	0	Thunderstorm Wind
								Strong winds blew down a large tree.
Hood County 5 ESE Granbury	22	1348CST			0	0	10K	Thunderstorm Wind
								Strong winds damaged a building and blew down trees.
Hood County Granbury	22	1350CST			0	0	125K	Thunderstorm Wind
								Strong winds damaged a house and a mobile home, overturned two mobile homes, and damaged several barns.
Parker County Springtown	22	1355CST			0	0	25K	Thunderstorm Wind
								Strong winds blew the roof off a home.
Parker County Weatherford	22	1355CST			0	0	2K	Thunderstorm Wind
								Strong winds blew down trees and power lines.
Jack County 3 NE Wizard Wells	22	1425CST			0	0		Thunderstorm Wind (G52)
								Strong winds blew down large tree limbs.
Wise County Bridgeport	22	1425CST			0	0	0	Thunderstorm Wind (G52)
Wise County 6 W Bridgeport	22	1427CST			0	0	0	Thunderstorm Wind
								Strong winds overturned a boat on Lake Bridgeport.
Wise County Decatur	22	1427CST			0	0	0	Thunderstorm Wind (G52)
Dallas County Dallas	22	1435CST			0	0	0	Thunderstorm Wind (G50)
Dallas County Irving	22	1450CST			0	0	0	Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Tarrant County Arlington	22	1440CST			0	0	5K		Thunderstorm Wind
									Strong winds blew down trees and power lines, and damaged sheds.
Tarrant County Arlington	22	1447CST			0	0			Thunderstorm Wind (G52)
									A 60 mph wind gust was measured at the Ballpark in Arlington.
Tarrant County Hurst	22	1455CST			0	1			Lightning
									Lightning struck a tree and injured a man that was walking near it.
Montague County Bowie	22	1500CST			0	0	5K		Thunderstorm Wind
									Strong winds blew windows out of a store.
Denton County 3 W Lewisville	22	1523CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Denton County Argyle	22	1530CST			0	0	0		Thunderstorm Wind
									Strong winds blew down tree limbs.
Denton County Denton	22	1540CST			0	0	5K		Thunderstorm Wind
									Strong winds blew down power poles.
Denton County Sanger	22	1550CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down large tree limbs and power lines.
Hopkins County Sulphur Spgs	22	1525CST			0	0	0		Thunderstorm Wind (G52)
Robertson County Hearne	22	1535CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down large tree limbs and power lines.
Robertson County Hammond	22	1600CST			0	0	0		Thunderstorm Wind
									Strong winds blew down trees.
Collin County Plano	22	1541CST			0	0	4K		Thunderstorm Wind
									Strong winds blew down fences and power lines.
Collin County 1 N Blue Ridge	22	1630CST			0	0	0		Thunderstorm Wind
									Strong winds blew down a large tree.
Lamar County Paris	22	1545CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down trees and power lines.
Delta County Cooper	22	1600CST			0	0	0		Thunderstorm Wind (G52)
Cooke County Valley View	22	1603CST			0	0	0		Thunderstorm Wind
									Strong winds blew down large tree limbs.
Cooke County 2 S Gainesville	22	1610CST			0	0	0		Thunderstorm Wind
									Strong winds blew down large tree limbs.
Falls County 3 NW Reagan	22	1615CST			0	0			Thunderstorm Wind (G52)
									Strong winds blew down large tree limbs.
Grayson County Whitesboro	22	1616CST			0	0	0		Thunderstorm Wind (G65)
Grayson County Sherman	22	1728CST			0	0	2K		Thunderstorm Wind
									Strong winds blew down trees and power lines.
Hunt County Wolfe City	22	1620CST			0	0	0		Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Fannin County									
Trenton	22	1640CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Fannin County									
Bonham	22	1650CST			0	0	0		Thunderstorm Wind
			Strong winds blew down trees.						
Leon County									
Centerville	22	1745CST			0	0	0		Thunderstorm Wind (G52)
Stephens County									
Breckenridge	22	1819CST 2000CST			0	0			Flash Flood
			Several roads were flooded due to heavy rains that fell in the area.						
Stephens County									
Breckenridge	22	1939CST 2230CST			0	0			Flash Flood
			Several roads remained closed across the county after four to eight inches of rain fell in the area.						
Stephens County									
Wayland	22 23	2346CST 0300CST			0	0			Flash Flood
			Severe flooding isolated the town from the outside with all roads reported flooded.						
Mills County									
6 W Goldthwaite	22	1930CST 2230CST			0	0			Flash Flood
			Pecan Bayou Creek flooded Highway 574.						
Mills County									
Goldthwaite	22	2016CST 2300CST			0	0			Flash Flood
			Numerous low-water crossings were flooded.						
Mills County									
Goldthwaite	22 23	2346CST 0200CST			0	0			Flash Flood
			Numerous roads were reported flooded.						
Young County									
3 WNW Eliasville	22	2100CST 2330CST			0	0			Flash Flood
			Farm-to-Market Road 1974 was reported flooded.						
Young County									
3 WNW Eliasville	22 23	2346CST 0300CST			0	0			Flash Flood
			Portions of Farm-to-Market Road 1974 remained flooded.						
Hamilton County									
Pottsville	22 23	2300CST 0200CST			0	0			Flash Flood
			Farm-to-Market Road 218 was reported flooded.						
Hamilton County									
Hamilton	22 23	2346CST 0300CST			0	0			Flash Flood
			Several roads throughout the county were flooded and closed.						
Erath County									
Stephenville	22 23	2310CST 0300CST			0	0			Flash Flood
			Several streets were flooded in town.						
Comanche County									
Comanche	23	0230CST 0530CST			0	0			Flash Flood
			Numerous roads throughout the county were flooded and closed.						
Comanche County									
Comanche	23	0557CST 0800CST			0	0			Flash Flood
			Numerous roads remained closed due to flooding.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Comanche County Comanche	23	0850CST 1000CST			0	0			Flash Flood
									Numerous roads remained closed due to flooding.
Eastland County Eastland	23	0259CST 0500CST			0	0			Flash Flood
									Several roads remained flooded and closed across the county.
Eastland County Eastland	23	0558CST 0730CST			0	0			Flash Flood
									Numerous roads across the county remained flooded and closed.
Eastland County Eastland	23	0852CST 1100CST			0	0			Flash Flood
									Several roads in town had up to four feet of water over them. Evacuations of three homes were necessary.
Eastland County 5 S Ranger	23	0852CST 1100CST			0	0			Flash Flood
									Portions of Highway 570 were reported flooded.
TXZ129 Eastland	23	0900CST 2000CST			0	0	500K		Flood
									Lake Leon rose to record levels after several days of heavy rain occurred in its drainage basin. Nearly 100 lakeside homes were flooded.
Stephens County Breckenridge	23	0303CST 0600CST			0	0			Flash Flood
									Numerous creeks remained flooded throughout the county with several roads still under water.
Stephens County Breckenridge	23	0854CST 1100CST			0	0			Flash Flood
									Many areas remained flooded across the county.
Fannin County 9 N Bonham	23	1500CST			0	0	0		Thunderstorm Wind (G50)
Navarro County 4 E Corsicana	25	1606CST 1800CST			0	0			Flash Flood
									Portions of Highway 31 were flooded.
Dallas County Oak Cliff	26	1500CST 1600CST			0	0			Flash Flood
									Over 5.40 inches of rain in an hour resulted in a rapid rise of water and flooding of local streets.
Dallas County Wilmer	26	1530CST 1700CST			0	0			Flash Flood
									Creeks overflowed their banks and flooded nearby roads.
Anderson County Neches	26	1630CST			0	0			Thunderstorm Wind (G52)
									Strong winds blew down large tree limbs.
<u>TEXAS, North Panhandle</u>									
Hemphill County 8 S Canadian	09	1405CST			0	1			Flash Flood
									Van and truck washed off road after hitting 3 feet of water at junction of Highways 83 and 60. One female injured.
Carson County 15 SW White Deer	09	1425CST 1427CST	0.1	25	0	0			Tornado (F0)
									Brief touchdown over open country. Tornado track was estimated.
Lipscomb County Booker	09	1514CST			0	0			Flash Flood
									Highway 23 north of Booker closed with one foot of water over roadway.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North Panhandle									
Donley County Lelia Lake	09	1700CST			0	0			Hail (1.00)
Wheeler County Shamrock	09	1715CST			0	0	250K		Hail (4.50)
Numerous reports of golfball to baseball size hail in Shamrock and there was extensive damage. Severe thunderstorms over the eastern Texas Panhandle produced flash flooding along with damaging hail and an isolated tornado.									
Wheeler County Wheeler	11	1650CST			0	0			Hail (1.75)
Reported at intersection of Highways 1046 and 48.									
Wheeler County 5 N Kellerville to 7 NE Kellerville	11	1720CST 1725CST	2	100	0	0			Tornado (F1)
Wheeler County 4 SE Kellerville to 2 W Lela	11	1746CST 1832CST	9	600	0	13	1.7M		Tornado (F3)
Tornado occurred near Pakan community on CR 453. Twelve homes damaged or destroyed along with 13 vehicles on Interstate 40. Two inch diameter hail fell along most of the tornado path. Tornado track was determined by official storm survey.									
Wheeler County 3 NW Shamrock	11	1830CST			0	0			Hail (4.50)
Wheeler County 8 W Shamrock	11	1842CST			0	0			Hail (1.00)
Collingsworth County 9 W Dozier	11	1844CST			0	0			Hail (2.50)
Collingsworth County 9 W Dozier	11	1849CST 1855CST	0.5	200	0	0			Tornado (F1)
Tornado track was estimated and the tornado remained over open country.									
Collingsworth County 2 W Samnorwood	11	1850CST			0	0			Hail (1.00)
Collingsworth County Samnorwood	11	1850CST			0	0			Hail (0.88)
Wheeler County 5 W Twitty	11	1739CST 1740CST	0.1	25	0	0			Tornado (F0)
Tornado remained over open country and track was estimated.									
Wheeler County Lela to Shamrock	11	1900CST 2100CST			0	0			Flash Flood
Flash flooding south of Interstate 40 with one road washed out and water in a couple of homes.									
Collingsworth County 7 N Quail	11	1909CST 1911CST	0.5	50	0	0			Tornado (F0)
Tornado remained over open country and track was estimated.									
Gray County 1 NW Mc Lean	11	1942CST			0	0			Hail (0.75)
Collingsworth County 10 E Quail	11	1945CST			0	0			Hail (1.75)
Gray County 1 W Mc Lean to 4 SSE Mc Lean	11	1947CST 1958CST	4	200	0	0			Tornado (F1)
Tornado remained over open country and track was estimated.									
Donley County 20 ENE Jericho to 20 E Jericho	11	1958CST 2002CST	1	200	0	0			Tornado (F1)
Tornado remained over open country and track was estimated.									
Collingsworth County 2 W Quail	11	2015CST 2025CST			0	0			Thunderstorm Wind (G61)
Collingsworth County 5 S Wellington to 10 SE Wellington	11	2110CST 2130CST	9	100	0	0			Tornado (F1)
Tornado remained over open country and track was estimated.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North Panhandle									
Collingsworth County									
5 N Quail	11	2130CST			0	0			Flash Flood
		CR 1547 closed due to 3 to 4 inch rainfall.							
Collingsworth County									
6 NNE Wellington	11	1922CST 1923CST	0.1	25	0	0			Tornado (F0)
		Tornado remained over open country and track was estimated. Severe thunderstorms over the eastern and southeastern Texas Panhandle produced several tornadoes along with large hail and high winds. One tornado along Interstate 40 in southern Wheeler county did considerable damage and injured several people.							
Hartley County									
Hartley	12	1646CST			0	0			Hail (1.75)
Moore County									
Dumas	12	1759CST 1809CST			0	0			Hail (0.88)
Hutchinson County									
Sanford	12	1820CST			0	0			Hail (1.00)
Wheeler County									
2 N Twitty	12	1913CST 1915CST	0.1	25	0	0			Tornado (F0)
		Tornado was anticyclonic and remained over open country. Tornado track was estimated.							
Wheeler County									
Wheeler	12	1913CST			0	0			Hail (1.75)
Wheeler County									
Wheeler	12	1922CST			0	0			Hail (1.75)
Wheeler County									
1 E Wheeler	12	1959CST			0	0			Hail (0.75)
Roberts County									
2 SE Miami to 2 SW Miami	12	2002CST 2004CST			0	0			Hail (1.75)
		Report of 1 inch diameter hail covering the road.							
Wheeler County									
1 N New Mobeetie	12	2010CST			0	0			Thunderstorm Wind (G61)
		Report of trees uprooted.							
Roberts County									
5 N Miami	12	2010CST 2012CST	0.1	25	0	0			Tornado (F0)
		Brief touchdown over open country and tornado track was estimated.							
Wheeler County									
5 N Kelton	12	2015CST			0	0			Flash Flood
		Flash flooding of Highway 152 north of Kelton.							
Hemphill County									
Glazier to 2 NE Canadian	12	2021CST 2023CST			0	0			Hail (1.75)
Wheeler County									
Briscoe to 3 N Briscoe	12	2025CST 2038CST			0	0			Tstm Wind/Hail
		Also report of 0.88 inch diameter hail on the Hemphill-Wheeler county line.							
Lipscomb County									
Higgins	12	2026CST			0	0			Hail (1.75)
		Severe thunderstorms across the northern and eastern sections of the Texas Panhandle produced large hail along with damaging winds and a few tornadoes. Heavy rainfall resulted in flash flooding over the eastern Texas Panhandle.							
Hartley County									
7 S Hartley	14	1426CST			0	0			Hail (0.88)
Moore County									
6 SW Dumas	14	1455CST			0	0			Hail (0.88)
Moore County									
6 SW Dumas	14	1459CST 1501CST	0.2	50	0	0			Tornado (F0)
		Report of tornado on Highway 722 and tornado remained over open country. Tornado track was estimated.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North Panhandle									
Moore County 4 SW Dumas	14	1523CST 1525CST	0.1	25	0	0			Tornado (F0)
									Report of tornado near the Phillips Plant. Tornado remained over open country and track was estimated.
Moore County 4 S Dumas	14	1534CST			0	0			Flash Flood
Moore County Four Way	14	1534CST			0	0			Hail (1.00)
Moore County Dumas	14	1545CST			0	0			Flash Flood
Moore County 7 SW Dumas	14	1550CST			0	0			Flash Flood
Moore County 3 N Four Way	14	1550CST			0	0			Flash Flood
Randall County 16 ESE Canyon	14	1625CST 1627CST	0.1	25	0	0			Tornado (F0)
									Brief touchdown at Palo Duro Canyon State Park. Tornado remained over open country and track was estimated.
Randall County 16 ESE Canyon	14	1632CST			0	0			Hail (0.88)
Potter County Amarillo	14	1635CST			0	0			Hail (0.75)
									Report at Interstate 40 and Loop 335.
Potter County Amarillo	14	1645CST			0	0			Hail (0.88)
									Report at Tri-State Fairgrounds.
Potter County Amarillo Intl Arpt	14	1647CST			0	0			Hail (0.88)
Hutchinson County 8 W Stinnett	14	1655CST			0	0			Hail (1.00)
Moore County Masterson	14	1705CST 1707CST			0	0			Hail (1.75)
									Report on FM 1913 south from Highway 152. Hail was covering the road.
Randall County Amarillo	14	1717CST 1726CST			0	0			Thunderstorm Wind (G61)
									Report from Loop 335 and Osage Street and Washington Street.
Potter County Amarillo	14	1735CST			0	0			Thunderstorm Wind (G57)
									Trees reported down in town.
Hutchinson County 3 E Borger	14	1748CST 1751CST	0.2	50	0	0			Tornado (F0)
									Tornado was reported on Highway 152 over open country. Tornado track was estimated.
Donley County Clarendon	14	1754CST			0	0			Thunderstorm Wind (G61)
									Report of downed power lines.
Hutchinson County Fritch	14	1758CST			0	0			Flash Flood
									Two feet of water covering roads in Fritch.
Hutchinson County 3 S Sanford	14	1758CST			0	0			Flash Flood
									Eighteen inches of water covering roads south of the city of Sanford.
Carson County 2 W Skellytown	14	1810CST 1813CST	0.1	50	0	0			Tornado (F0)
									Tornado remained over open country and track was estimated.
									Severe thunderstorms pounded the northwest Texas Panhandle and then moved east and southeast across the central and eastern sections. These storms produced large hail and damaging winds along with flash flooding and a few tornadoes.

Storm Data and Unusual Weather Phenomena

June 1997

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									
Dallam County 17 N Dalhart	16	1220CST 1222CST	0.2	25	0	0			Tornado (F0)
									Brief touchdown and tornado remained over open country. Tornado track was estimated.
Hartley County 5 SE Dalhart	16	1230CST 1233CST	0.1	50	0	0			Tornado (F0)
									Brief touchdown over open country and tornado track was estimated.
Hartley County 6 NW Hartley	16	1246CST			0	0			Hail (1.00)
Hartley County 5 E Hartley	16	1255CST			0	0	2M		Tstm Wind/Hail
									Report on Highway 87 six miles west of the Moore/Hartley county line. Also report of 52 knot winds. Damage to agriculture was corn crop.
Moore County 2 E Dumas to 8 E Dumas	16	1411CST 1416CST			0	0			Hail (1.75)
Moore County Dumas	16	1429CST			0	0			Flash Flood
									Report of water covering Highway 287.
Potter County Ady	16	1435CST			0	0			Hail (1.00)
Hansford County 5 NW Spearman	16	1436CST			0	0			Hail (0.88)
Ochiltree County Perryton	16	1515CST 1517CST			0	0			Hail (1.75)
Ochiltree County Perryton	16	1525CST			0	0	500K		Hail (2.75)
Potter County Amarillo	16	1528CST			0	0			Hail (0.75)
Potter County Amarillo	16	1534CST			0	0			Hail (0.75)
Ochiltree County 7 S Perryton	16	1547CST			0	0			Hail (0.88)
Carson County Conway	16	1551CST			0	0			Hail (1.75)
Carson County 6 E Conway	16	1615CST			0	0			Hail (2.75)
Randall County Canyon	16	1620CST			0	0			Thunderstorm Wind (G57)
									Report of tree limbs down.
Roberts County 4 W Miami	16	1625CST			0	0			Thunderstorm Wind (G61)
									Report of several large tree limbs down.
Armstrong County 4 E Claude	16	1650CST			0	0			Hail (0.88)
Armstrong County Goodnight	16	1654CST			0	0			Hail (0.75)
Hemphill County 7 E Mendota	16	1700CST			0	0			Hail (0.75)
									Report of hail covering Highway 33.
Armstrong County 5 E Goodnight	16	1717CST			0	0			Hail (0.88)
									Severe thunderstorms which began over the northwest Texas Panhandle moved southeast into the central and eastern sections of the Texas Panhandle. These storms produced brief tornadoes when they began in the northwest sections and then mainly large and damaging hail along with high winds and flash flooding across the central and eastern sections.
Potter County 2 E Amarillo Intl Arpt	24	1745CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North Panhandle									
Carson County									
Pantex	24	1800CST			0	0			Hail (0.88)
	Thunderstorms over the central Texas Panhandle produced large hail.								
Ochiltree County									
5 W Perryton	26	0055CST			0	0			Hail (0.75)
	A severe thunderstorm over the northeast Texas Panhandle produced large hail.								
Gray County									
1 W Pampa	26	1720CST			0	0			Hail (0.75)
	A severe thunderstorm produced large hail over the central Texas Panhandle.								
Armstrong County									
4 N Claude to 1 W Claude	29	1425CST 1435CST			0	0			Hail (1.00)
Armstrong County									
Claude	29	1445CST			0	0			Thunderstorm Wind (G61)
Gray County									
Pampa	29	1453CST			0	0			Thunderstorm Wind (G61)
Gray County									
Pampa	29	1515CST			0	0			Hail (0.75)
	Severe thunderstorms over the central Texas Panhandle produced large hail and high winds.								
TEXAS, Northeast									
Cherokee County									
2 N Jacksonville	09	2345CST			0	0			Thunderstorm Wind (G60)
	Trees and powerlines were toppled along Hwy 69.								
Cherokee County									
6 S Jacksonville	09	2350CST			0	0			Thunderstorm Wind (G65)
	Numerous trees and powerlines toppled along Hwy 69.								
Cherokee County									
2 E Rusk	10	0000CST			0	0			Thunderstorm Wind (G60)
	Numerous trees and power lines were toppled along Hwy 84.								
Cherokee County									
5 NW Rusk	10	0045CST			0	0			Flash Flood
	High water was reported over Hwy 69.								
Cherokee County									
5 NE Rusk	10	0100CST			0	0			Flash Flood
	FM768 was completely underwater and closed for 300 feet.								
Cherokee County									
Rusk	10	0100CST			0	0			Flash Flood
	Numerous streets underwater and some roads closed.								
Red River County									
2 SE Bogata	13	1700CST			0	0			Thunderstorm Wind (G73)
	Reported by Sheriffs Office.								
Franklin County									
3 N Mt Vernon	13	1720CST			0	0			Hail (0.75)
Franklin County									
10 NE Mt Vernon	13	1728CST			0	0	50K		Thunderstorm Wind (G80)
	A line of severe thunderstorms developed across north central Texas during the afternoon and moved into Franklin County from the west producing considerable wind damage to trees and power lines. Some homes and businesses were heavily damaged from fallen trees.								
Titus County									
Mt Pleasant	13	1730CST			0	1	1.5M		Thunderstorm Wind (G100)
	Severe thunderstorms moved from Franklin County to the west across Titus county producing macroburst damage about 5 miles in width across the entire length of the county. The winds knocked down numerous trees and powerlines leaving the entire town without power. The high winds were also blamed for blowing down a wall on an equipment building under construction along with the new Texas Department of transportation building on FM 1845. The wall was 250 feet long and built with concrete blocks. The winds sent trees up to 20 feet in diameter crashing into houses and carports which collapsed onto cars. A 300 foot tower at Farmers Academy that serves Mt. Pleasant's cable TV system was blown over. Ninety-five (95) percent of all the trees and tall structures above 30 feet in height fell to the southeast. Minor damage occurred to a supermarket in town leaving the people trapped inside after the power went out. At least 5 county roads were closed, two trailer homes were damaged significantly and one woman was injured when she was struck by a shopping cart at a grocery store. In the city alone, at least 70 structures were damaged to some extent.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, Northeast									
Titus County									
Winfield	13	1800CST			0	0			Thunderstorm Wind (G60)
	NWS Observers reported several trees toppled in the high winds.								
Morris County									
Daingerfield	13	1803CST			0	0	850K		Thunderstorm Wind (G90)
	Winds reported by Storm Spotters. Roofs were torn from homes and businesses with numerous pines were snapped and fell onto homes and power lines. So many power lines were topped that power outages lasted for several weeks in many areas. Power companies from Dallas-Ft. Worth, Texas and Texarkana, AR were called in to help with the repairs.								
Marion County									
3 NW Jefferson	13	1805CST			0	0			Thunderstorm Wind (G70)
	Numerous trees and power lines were toppled along Hwy 49.								
Morris County									
3 E Daingerfield	13	1805CST			0	0			Thunderstorm Wind (G80)
	Numerous trees and power lines toppled.								
Cass County									
3 E Hughes Spgs	13	1810CST			0	0			Thunderstorm Wind (G70)
Camp County									
Pittsburg	13	1811CST			0	0			Hail (0.88)
Camp County									
Pine	13	1814CST			0	0			Hail (0.75)
Cass County									
Hughes Spgs	13	1815CST			0	0			Thunderstorm Wind (G70)
	Numerous trees and power lines toppled with power outages to the entire city.								
Cass County									
5 N Linden	13	1818CST			0	0	170K		Thunderstorm Wind (G70)
	Severe thunderstorms which produced so much damage across northeast Texas continued to move east into Cass County. Numerous trees and power lines were toppled. A total of 50 telephone poles were broken in the city smashing cars and homes. Plenty of warning was received that no injuries occurred.								
Cass County									
5 NW Atlanta	13	1820CST			0	0			Thunderstorm Wind (G60)
Marion County									
2 E Smithland	13	1825CST			0	0			Thunderstorm Wind (G60)
Wood County									
Winnsboro	13	1928CST			0	0			Hail (0.75)
Wood County									
Hawkins	13	1955CST			0	0			Hail (0.75)
Wood County									
Hawkins	13	1955CST			0	0			Thunderstorm Wind (G75)
Gregg County									
Longview	13	2040CST			0	0			Thunderstorm Wind (G65)
	Several trees toppled across power lines resulting in power outages.								
Wood County									
Mineola	13	2115CST			0	0			Hail (1.75)
Gregg County									
3 SE Longview	13	2210CST			0	0			Hail (0.75)
Upshur County									
Gilmer	13	1835CST			0	0			Thunderstorm Wind (G60)
	Trees and power lines were downed.								
Upshur County									
Ore City	13	1845CST			0	0			Thunderstorm Wind (G60)
	Trees and power lines toppled.								
Harrison County									
3 N Marshall	13	1857CST			0	0			Thunderstorm Wind (G65)
	Winds measured by Skywarn Observer.								
Harrison County									
Harleton	13	1900CST			0	0			Thunderstorm Wind (G70)
	Numerous trees and power lines were toppled.								

Storm Data and Unusual Weather Phenomena

June 1997

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									
Harrison County Harleton	13	1903CST			0	0			Hail (1.75)
Harrison County Marshall	13	1926CST			0	0			Hail (0.88)
Harrison County Elysian Flds	13	1930CST			0	0			Hail (1.75)
Harrison County Marshall	13	1950CST			0	0			Hail (0.88)
Harrison County Marshall Northeast	13	1951CST			0	0			Hail (1.00)
Harrison County Waskom	13	1955CST			0	0			Hail (0.88)
Gregg County Longview	13	2040CST			0	0			Hail (1.00)
San Augustine County 10 W San Augustine	16	2215CST			0	0			Hail (1.75)
Wood County 10 NW Quitman	17	0004CST			0	0			Hail (0.75)
Wood County 3 W Quitman	17	0004CST			0	0			Thunderstorm Wind (G70)
Franklin County 6 S Mt Vernon	17	0040CST			0	0			Hail (1.75)
Titus County Mt Pleasant	17	0050CST			0	0			Hail (1.00)
Camp County Pittsburg	17	0100CST			0	0			Hail (1.75)
Camp County Pittsburg	17	0100CST			0	0			Thunderstorm Wind (G70) Numerous trees and power lines were toppled resulting in widespread power outages in town.
Wood County Mineola	17	0115CST			0	0			Hail (0.75)
Morris County Naples	17	0125CST			0	0			Thunderstorm Wind (G60)
Bowie County Hooks	17	0130CST			0	0	60K		Thunderstorm Wind (G70) Strong straight line winds downed numerous trees and power lines producing widespread power outages. The wind uprooted a sycamore tree which fell through a home. An above ground swimming pool was shoved 75 while a swing set was twisted beyond repair. A storage shed was also ripped apart. A gas company shed was also destroyed.
Smith County 12 N Tyler	17	0130CST			0	0			Hail (0.75)
Wood County 10 SE Quitman	17	0135CST			0	0			Thunderstorm Wind (G60) Several large oaks were blown over.
Upshur County Big Sandy	17	0140CST			0	0			Thunderstorm Wind (G60) Several trees and power lines were toppled resulting in power outages.
Upshur County 5 S Gilmer	17	0145CST			0	0			Thunderstorm Wind (G60) Several trees were toppled by the high winds.
Gregg County Longview	17	0154CST			0	0			Hail (1.00)
Gregg County 2 N Longview	17	0200CST			0	0			Thunderstorm Wind (G60) Several large trees were blown down along Hwy 1845.
Upshur County 8 SE Gilmer	17	0200CST			0	0			Thunderstorm Wind (G60) Numerous trees were toppled in the community of East Mountain.
Gregg County White Oak	17	0205CST			0	0			Thunderstorm Wind (G60) Several large trees were blown down across Hwy 80.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Northeast</u>									
Upshur County 2 N Gladewater	17	0205CST			0	0	4K		Thunderstorm Wind (G70) A mobile home was blown off its foundation. Trees and powerlines were also toppled leading to widespread electrical outages in town.
Harrison County Harleton	17	0210CST			0	0			Thunderstorm Wind (G60) Numerous trees were blown down across FM 1968.
Marion County 10 W Jefferson	17	0210CST			0	0			Thunderstorm Wind (G70) Several large trees were toppled across FM 726 at the southern end of Lake O' Pines.
Gregg County Longview	17	0215CST			0	0			Thunderstorm Wind (G65) Several trees and power lines were blown over resulting in numerous power outages in the city.
Harrison County Hallsville	17	0220CST			0	0			Thunderstorm Wind (G60) Numerous trees and power lines were toppled leading to widespread power outages.
Cass County 8 SW Linden	17	0225CST			0	0			Thunderstorm Wind (G60) Trees and power lines were blown down across Hwy 43.
Marion County 10 NW Jefferson	17	0225CST			0	0			Thunderstorm Wind (G60) Several large trees were blown down across Hwy 729.
Angelina County 6 N Lufkin	17	0540CST			0	0			Thunderstorm Wind (G70) Numerous trees and power lines were toppled along a 1/2 mile wide stretch on FM 2021 and also along Homer-Alto road.
Angelina County Lufkin	17	0550CST			0	0			Thunderstorm Wind (G70) Trees and power lines were toppled along Hwy 103 on the east side of town.
Gregg County 2 W Longview	25	1416CST			0	0			Urban/Sml Stream Fld Street flooding was reported in town.
<u>TEXAS, South</u>									
Brooks County 10 WSW Falfurrias	17	2245CST			0	0			Flash Flood 18 2345CST
Hidalgo County 9 N Mc Cook to Mc Cook	18	0000CST			0	0	2K		Tstm Wind/Hail Large limbs and trees down.
Starr County Rio Grande City to Garciasville	18	0000CST 0130CST			0	0	5K		Thunderstorm Wind Numerous power lines and poles down. Tree damage.
Starr County San Isidro	18	0000CST			0	0			Hail (0.75)
Hidalgo County Mc Allen	18	0205CST 0210CST			0	0	2K		Tstm Wind/Hail Power lines and trees down.
Starr County Rio Grande City to Garciasville	18	0400CST 0800CST			0	0	28K		Flash Flood 263 dwellings damaged by water.
Brooks County Falfurrias Arpt	19	1740CST			0	0	2K		Thunderstorm Wind (G55)
Starr County 7 NNW El Sauz	19	1845CST			0	0	1K		Thunderstorm Wind Large limbs down
Jim Hogg County Guerra	19	1905CST			0	0	1K		Tstm Wind/Hail Trees down with hail to 1.25 in.

Storm Data and Unusual Weather Phenomena

June 1997

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									
TEXAS, South Central									
TXZ183-202-217>218-228			Val Verde - Kinney - Maverick - Zavala - Dimmit						
	01	0001CST			0	0	1M	4M	Drought
	30	2359CST	Widespread showers and thunderstorms brought heavy rainfall to much of the area previously stricken by drought. Rainfall produced flooding over an area along and east of a line from Rocksprings to Uvalde to Pearsall, leaving only the extreme southwest corner of South Central Texas still under drought through June. Monthly damages are based on the estimated annual loss to agriculture across all of Texas through this year. Property damages do not include business or commercial revenue losses.						
Bexar County									
Leon Spgs	04	1945CST			0	0	0	0	Hail (2.50)
		1955CST							
Bexar County									
Leon Spgs	04	2010CST			0	0	0	0	Hail (2.50)
		2015CST							
Gonzales County									
Gonzales	05	0345CST			0	0	10K	0	Thunderstorm Wind
		0350CST	Trees were blown down in the Gonzales area.						
Edwards County									
28 NNW Rocks Spgs	05	1405CST			0	0	0	0	Hail (1.00)
		1410CST							
Real County									
4 N Leakey	05	1425CST			0	0	0	0	Hail (0.75)
		1430CST							
Uvalde County									
1 W Utopia	05	1456CST			0	0	0	0	Hail (0.75)
		1500CST							
Edwards County									
25 NNW Camp Wood	05	1530CST			0	0	0	0	Hail (0.75)
		1535CST							
Real County									
5 N Prade Ranch	05	1535CST			0	0	0	0	Hail (0.75)
Real County									
5 N Prade Ranch	05	1545CST			0	0	0	0	Hail (0.88)
		1550CST							
Burnet County									
Countywide	06	0900CST			0	0	5K	0	Flash Flood
		1300CST	Rainfall of up to 4 inches across parts of the county produced widespread flash flooding.						
Zavala County									
Batesville	06	1145CST			0	0	0	0	Hail (0.75)
		1150CST							
Edwards County									
Countywide	06	1200CST			0	0	5K	0	Flash Flood
		1600CST	Flash flooding resulted from brief heavy rainfall, with 1 foot of water reported over Hwy 377.						
Real County									
Countywide	06	1400CST			0	0	10K	0	Flash Flood
		1700CST	Heavy rain produced extensive flash flooding. Hwy 55 at Barksdale was closed for several hours.						
Gillespie County									
Countywide	06	1400CST			0	0	10K	0	Flash Flood
		1700CST							
Blanco County									
Countywide	06	1430CST			0	0	5K	0	Flash Flood
		1600CST							
Hays County									
Countywide	06	1500CST			0	0	10K	0	Flash Flood
		1700CST							

Storm Data and Unusual Weather Phenomena

June 1997

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									
Kendall County									
Countywide	06	1500CST 1700CST			0	0	5K	0	Flash Flood
Comal County									
Countywide	06	1600CST 1800CST			0	0	10K	0	Flash Flood
Travis County									
Countywide	06	1600CST 1700CST			0	0	15K	0	Flash Flood
Bastrop County									
Countywide	06	1630CST 1830CST			0	0	5K	0	Flash Flood
Bexar County									
Countywide	06	1700CST 1830CST			0	0	15K	0	Flash Flood
Fayette County									
Countywide	06	1700CST 2100CST			0	0	15K	0	Flash Flood
Guadalupe County									
Countywide	06	1700CST 1830CST			0	0	5K	0	Flash Flood
General 2 to 3 inch rain amounts with isolated totals to over 5 inches in under 3 hours across the above counties produced widespread flash flooding.									
Kinney County									
Brackettville	06	1440CST 1445CST			0	0	20K	0	Thunderstorm Wind
Severe winds blew down power poles.									
Wilson County									
Countywide	06	1800CST 1900CST			0	0	5K	0	Flash Flood
Atascosa County									
Countywide	06	1900CST 2000CST			0	0	5K	0	Flash Flood
Karnes County									
Countywide	06	2000CST 2100CST			0	0	5K	0	Flash Flood
General 2 to 3 inch rainfall across the three counties, with isolated totals fo up to 6 inches near Kosciusko, produced widespread flash flooding.									
Caldwell County									
Countywide	07	0800CST 1300CST			0	0	15K	0	Flash Flood
Hays County									
Countywide	07	0800CST 1300CST			0	0	15K	0	Flash Flood
General 3 inch rainfalls over the counties, with isolated totals to over 5 inches, produced widespread flash flooding for several hours.									
Val Verde County									
2 NE Pandale	07	1840CST 1845CST			0	0	0	0	Thunderstorm Wind (G52)
Llano County									
Llano	08	2030CST 2035CST			0	0	10K	0	Thunderstorm Wind
Texas Department of Transportation personnel reported several trees blown down in the Llano area.									
Val Verde County									
Langtry	08	2054CST 2055CST	0.2	50	0	0	0	0	Tornado (F0)
A small F0 tornado was sighted by a train engineer near Langtry.									
Blanco County									
Countywide	08 09	2230CST 0030CST			0	0	100K	20K	Flood

Storm Data and Unusual Weather Phenomena

June 1997

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									
Hays County									
Countywide	08	2300CST			2	7	2.5M	50K	Flood
	09	1100CST							
	M22VE, F19VE								
	As a result of general 3 to 4 inch rainfall in less than 4 hours, and isolated totals near 5 inches, widespread flash flooding developed along the Blanco River across southern Blanco and Southern Hays Counties from Blanco to Wimberly. In all, over 40 homes in Hays County were flooded by the heavy rainfall and over 40 cars were washed away. More than 25 Hays County roads were flooded out, with the worst flooding taking place along Dry Cypress Creek. Several high water rescues were made during the early morning hours. Two young adults in separate vehicles attempted to cross the Blanco River shortly after midnight, but one vehicle became stalled. The two got into the second vehicle and continued to another location. After a few hours, they both returned (some time near 0200 CST) to try to restart the first vehicle. This time the second vehicle with both occupants was swept into the Blanco River. The two were drowned.								
Burnet County									
Countywide	08	2330CST			0	0	30K	0	Flash Flood
	09	0200CST							
Comal County									
Countywide	08	2330CST			0	0	25K	0	Flash Flood
	09	0700CST							
Travis County									
Countywide	08	2330CST			1	10	100K	0	Flash Flood
	09	1200CST							
	F17IW								
Williamson County									
Countywide	08	2330CST			0	0	50K	0	Flash Flood
	09	1100CST							
	Rainfall of generally 2 to 3 inches fell over the four counties, with isolated totals to near 5 inches. Widespread flash flooding was reported. Some 90 residents of a mobile home park in Austin were evacuated as Walnut Creek flooded the area. Severe flooding took place along Onion Creek and Barton Creek as well. Water was reported over I-35 bridge in Georgetown. Numerous rescues were performed in Comal and Travis Counties. Two young ladies in Austin were trying to cross an old road across Slaughter Creek around noon CST when their vehicle was swept into the creek. One managed to scramble to safety and go for help. She called in an EMS team who tied ropes around themselves to reach the second young lady. Several families were evacuated from their homes in Del Valle in Travis County as waters rose rapidly. A young woman was walking along Williamson Creek near 1st street and William Cannon in the city of Austin shortly after 0630 am CST when she slipped on debris left from the flooding. She fell into the flood waters and was drowned.								
Val Verde County									
Del Rio	09	0030CST			0	0	5K	0	Flash Flood
		0200CST							
	Flash flooding was reported in Del Rio by the Police and Sheriff's Departments.								
Blanco County									
Countywide	09	0730CST			0	0	3K	0	Flash Flood
		1000CST							
	Additional heavy rain of up to 2 inches in 2 hours falling over the county redeveloped flash flooding.								
Karnes County									
Kenedy	09	1900CST			0	0	0	0	Funnel Cloud
		1905CST							
Hays County									
San Marcos	10	1017CST			0	0	0	0	Funnel Cloud
		1018CST							
Guadalupe County									
5 N Zorn	10	1020CST			0	0	0	0	Funnel Cloud
		1025CST							
Karnes County									
Kenedy	10	1404CST			0	0	0	0	Funnel Cloud
		1408CST							
Val Verde County									
Del Rio Intl Arpt	12	2050CST			0	0	0	0	Thunderstorm Wind (G59)
		2053CST							
Kinney County									
Brackettville	12	2115CST			0	0	0	0	Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Val Verde County									
Del Rio	14	2100CST 2200CST			0	0	80K	0	Flash Flood
Val Verde County									
Del Rio	14	2100CST 2105CST			0	0	50K	0	Thunderstorm Wind
Severe thunderstorm winds knocked out power lines and caused widespread wind damage. Heavy rainfall from the thunderstorm caused flash flooding of streets with some homes under water.									
Maverick County									
Countywide	14 15	2330CST 0030CST			0	0	0	0	Flash Flood
Uvalde County									
Uvalde	15	0015CST 0020CST			0	0	100K	0	Thunderstorm Wind
A severe thunderstorm downburst partially collapsed a dormitory roof at Southwest Texas Junior College in Uvalde. Emergency personnel reported trees uprooted and branches scattered around the city after the thunderstorm ended.									
Bandera County									
Bandera	15	0139CST 0141CST			0	0	0	0	Thunderstorm Wind (G52)
Dimmit County									
Countywide	15	0400CST 0600CST			0	0	10K	0	Flash Flood
Heavy rainfall caused flash flooding over several county roads during the early morning hours.									
Edwards County									
Countywide	15	0400CST 0600CST			0	0	5K	0	Flash Flood
Real County									
Countywide	15	0400CST 0600CST			0	0	5K	0	Flash Flood
General 2 inch rainfall with up to 6 inches over the two counties caused widespread flash flooding.									
Val Verde County									
Countywide	16	0400CST 0800CST			0	0	5K	0	Flash Flood
Val Verde County									
40 NW Amistad Res West to Amistad Res West	16	0630CST 0900CST			0	0	10K	0	Flood
Up to 6 inches of rain falling across the northern part of the county caused widespread flash flooding. The rainfall brought the Pecos River to flood as well from near Pandale to near Lake Amistad.									
Edwards County									
Countywide	16	0630CST 1100CST			0	0	15K	0	Flood
Real County									
Countywide	16	0630CST 1100CST			0	0	15K	0	Flood
Up to 3 inches of rain across the southern part of Edwards County and Western Real County brought the Nueces River to flooding over the two county area. Flash Flood was also reported across much of the two counties.									
Real County									
Prade Ranch	16	0700CST 0705CST			0	0	15K	0	Thunderstorm Wind
Widespread damage was reported to trees, with many trees blown down at Prade Ranch in the northern part of the county.									
Bandera County									
Countywide	16	0700CST 0900CST			0	0	5K	0	Flash Flood
Kerr County									
Countywide	16	0700CST 0900CST			0	0	5K	0	Flash Flood
General 2 to 3 inch rain across the two counties caused widespread flash flooding.									
Travis County									
3 SW Austin	17	0410CST 0415CST			0	0	0	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Travis County 2 NW Austin	17	0415CST 0420CST			0	0	0	0	Hail (1.75)
Travis County 2 N Austin	17	0420CST 0425CST			0	0	0	0	Hail (1.00)
Travis County Austin	17	0430CST 0600CST			0	0	10K	0	Flash Flood
Severe thunderstorms produced hail over much of the city of Austin as well as up to 2 inches of rain in less than 2 hours. Widespread flash flooding took place over the city.									
Bastrop County Bateman	17	0900CST 0905CST			0	0	0	0	Hail (1.25)
De Witt County 5 S Cuero	17	1835CST 1840CST			0	0	0	0	Hail (1.00)
Kerr County Countywide	21	0030CST 0400CST			0	0	3K	0	Flash Flood
Flash flooding was reported over much of the county as a result of up to 3 inches of rain in two hours shortly after midnight CST.									
Frio County Countywide	21	0530CST 1000CST			0	0	3K	0	Flash Flood
Atascosa County Countywide	21	0700CST 0900CST			0	0	3K	0	Flash Flood
Bexar County Countywide	21	0700CST 2000CST			0	0	25K	0	Flash Flood
Gonzales County Countywide	21	0845CST 1100CST			0	0	3K	0	Flash Flood
Guadalupe County Countywide	21	0845CST 2100CST			0	0	25K	0	Flash Flood
Wilson County Countywide	21	0900CST 1100CST			0	0	3K	0	Flash Flood
Bandera County Countywide	21	1000CST 2100CST			0	0	10K	0	Flash Flood
De Witt County Countywide	21	1000CST 2100CST			0	0	15K	0	Flash Flood
Karnes County Countywide	21	1000CST 1100CST			0	0	3K	0	Flash Flood
Medina County Countywide	21	1000CST 1700CST			0	0	10K	0	Flash Flood
Blanco County Countywide	21	1030CST 2300CST			0	0	10K	0	Flash Flood
Comal County Countywide	21	1030CST 2300CST			0	0	15K	0	Flash Flood
Hays County Countywide	21	1030CST 1300CST			0	0	5K	0	Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

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									
Kendall County									
Countywide	21	1030CST 2300CST			0	0	15K	0	Flash Flood
Bastrop County									
Countywide	21	1100CST 1300CST			0	0	5K	0	Flash Flood
Caldwell County									
Countywide	21	1100CST 1200CST			0	0	3K	0	Flash Flood
Gillespie County									
Countywide	21	1230CST 2300CST			0	0	15K	0	Flash Flood
Lavaca County									
Countywide	21	1230CST 1600CST			0	0	5K	0	Flash Flood
Kerr County									
Countywide	21	1330CST 2300CST			0	0	5K	0	Flash Flood
<p>On Friday, June 20, 1997, an upper level low pressure area approached South Central Texas from the southwest, becoming nearly stationary over the area through the next evening. Scattered showers and thunderstorms developed over the Texas Hill Country Friday night, and continued into early Saturday morning. Widespread flash flooding developed by Saturday morning across the Hill Country. During the day on Saturday, the rain spread eastward across much of South Central Texas with widespread flash flooding continuing into the evening hours on Saturday. In spite of this being the first day of summer, daytime highs over the area remained much below normal.</p>									
Bandera County									
Countywide	21 22	2300CST 1900CST			2	20	5M	1M	Flood
F59VE, M41VE									
Edwards County									
Countywide	21 22	2330CST 1400CST			0	10	100K	50K	Flood
Real County									
Countywide	21 22	2330CST 1400CST			0	40	1M	100K	Flood
Kendall County									
Countywide	22	0030CST 1900CST			0	5	5M	1M	Flood
Kerr County									
Countywide	22	0030CST 1900CST			0	0	100K	100K	Flood
Blanco County									
Countywide	22	0130CST 2100CST			0	0	1M	100K	Flood
Burnet County									
Countywide	22	0130CST 1000CST			0	0	1M	50K	Flood
Bastrop County									
Countywide	22	0200CST 0500CST			0	0	5K	50K	Flood
Bexar County									
Countywide	22	0230CST 1100CST			0	10	3M	50K	Flood
Medina County									
Countywide	22	0230CST 2100CST			1	50	13M	100K	Flood
M76VE									
Uvalde County									
Countywide	22	0230CST 1400CST			0	50	1M	100K	Flood
Gillespie County									
Countywide	22	0300CST 1100CST			0	0	100K	100K	Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, South Central									
Comal County									
Countywide	22	0400CST 1400CST			0	10	2M	50K	Flood
Llano County									
Countywide	22	0730CST 1500CST			0	0	5M	100K	Flood
Hays County									
Countywide	22	0800CST 1400CST			0	0	50K	50K	Flood
Guadalupe County									
Countywide	22	1200CST 1400CST			0	20	300K	100K	Flood
Travis County									
Countywide	22	1300CST 1400CST			0	0	1M	50K	Flood
Williamson County									
Countywide	22	1300CST 1400CST			0	0	500K	50K	Flood

The heavy rain Friday night into Saturday afternoon had left South Central Texas soils saturated. The situation worsened Saturday evening into Sunday as heavy rain associated with the upper low pressure system redeveloped over the western Texas Hill Country. Very heavy rains over the Texas Hill Country Saturday night and Sunday morning caused widespread flooding as well as flash flooding across numerous counties. The heavy rains moved into San Antonio Sunday morning and into the Austin area later in the morning. By Sunday afternoon and evening, areas of showers and thunderstorms had diminished over South Central Texas as the upper low moved into North Texas. Late Sunday evening, they again developed over the Texas Hill Country, producing additional severe flooding and flash flooding late Sunday night into Monday morning.

Rainfall amounts for the three rain events, including the period from Friday through Monday, averaged between 4 and 6 inches, with over 15 inches across many locations in the Texas Hill Country. The least amount of rain fell in the Del Rio area, west of the low, while the most rain fell over parts of the Texas Hill Country. The heaviest rain amounts fell in Bandera County, where over 20 inches was reported. Bandera measured 19.47 inches of rain in 2 days, while 21 inches of rain was measured 4 miles west of Tarpley in Bandera County.

Guadalupe River...

The Guadalupe River first crested at Comfort at 25.9 feet (73,640 cfs) early on June 22nd, then an additional 4.5 inches of rain in the Cypress Creek drainage sent a flood wave downstream that flooded homes in Comfort. Downstream, the Guadalupe at Spring Branch rose to within a foot of the flood of record, 45.45 feet. Canyon Lake rose to within 5 feet of the record elevation and within 6 feet of the emergency spillway height.

Cibolo Creek...

A general rainfall of 12 to 15 inches between Bandera and Boerne, with up to 20 inches west of Boerne, produced flooding along Cibolo Creek that filled two flood retention dams as well as Boerne City Lake. The Boerne Police Chief was trapped in his home by the flood wave down the spillway, and reported a television set washing through the window of one of the flooded homes. Cibolo Creek in Boerne crested at over 16 feet, the highest level since 1964. About 20 percent of the homes facing Cibolo Creek were flooded to some extent. Downstream, the Creek flooded several homes in Bulverde. The most massive damage was in Schertz, where blocks of the Pecan Grove Trailer Park were inundated. Trailers washed downstream into each other, lodging in trees. The Red Cross reported 330 persons evacuated and seeking alternate housing. The flood wave reached LaVernia early Monday afternoon, flooding two homes, and causing 25 families to be evacuated.

Medina River...

No homes were flooded in Bandera, however, several trailer camps were flooded. By Sunday, all the city park was evacuated. Bandera received a storm total of 19.47 inches for the two days. Although the city of Bandera did not receive large flood damage, Bandera County was very hard hit. About four miles west of Boerne, Castle Lake Dam failed, sending a large wave down Bear Creek and washing out a road and bridge. Downstream, Privilege Creek washed out a primary bridge on SH16 at Pipe Creek. Bridges were washed out on nearly every creek in Eastern Bandera County. A few homes were flooded as Medina Lake crested by mid afternoon on Sunday.

Leon Creek in Bexar County....

Leon creek flooded a trailer park in western San Antonio as well as homes in Rodriguez Park area. Water also got just to the slab of the jet engine test facility at Kelly AFB. The gauge at IH35 crested at 1930 CST at 24.61 feet, exceeding the flood of record set in 1987.

Hondo Creek...

Although Hondo Creek did no structural damage near Hondo, it did close Hwy 90 for a while. The main problems were along

Storm Data and Unusual Weather Phenomena

June 1997

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, South Central

Quihi Creek and Seco Creek. Quihi Creek flooded homes and caused evacuations in Quihi, about 8 miles northeast of Hondo.

Seco Creek...

The town of D'Hanis was so completely under water that someone could have ridden a boat down main street. This was the fourth such occurrence since 1932. The high water mark on businesses on main street was around 2.5 feet above the road on the store fronts. The bank reported about 6 inches of water in it. D'Hanis was inundated by Parker Creek from the east first, then Seco Creek flooded the town from the west. Although every building in town suffered damage, no lives were lost.

Sabinal River...

Residents in Sabinal reported no known flooding problems in the near Sabinal. However there were reports of many evacuations of homes and mobile homes. Severe flooding was reported upstream near Utopia, where recreation camps were badly damaged. A park ranger in Garner State Park reported that 31 cars were washed downstream. The River at the highway 90 gauge showed massive lowland flooding, with trees stripped of bark, and evidence of debris high in the trees. The Sabinal River at Sabinal crested at 33.12 feet, just 2 inches below the flood of record of 1958.

Frio River...

Uvalde County deputies spent several hours rescuing people from trees along the Frio River in the northern part of the county. Numerous helicopter rescues were also required. Indications are that the same tremendous rain that involved the Sabinal River, also fell in the Frio River tributaries east of the mainstem near Leakey. Rainfall was quite variable but reports point to massive rainfall and flooding along the Frio, and its tributaries. The heavy rain area extended from Camp Wood along the escarpment to near Boerne. The high water mark in Garner State Park was 15 feet above the low dam and about 3 feet up the restroom walls. Some restrooms were washed downstream and wrecked trailers were found along the bank, and even lodged several feet up in a tree.

Nueces River...

The headwaters of the Nueces River above Camp Wood also received very heavy rainfall. Again, numerous homes were flooded and rescues required along the river in Uvalde County, although less than had occurred along the Frio River.

Pedernales River...

A brief burst of between 6 and 12 inches of rain in the Pedernales River headwaters early Sunday morning above Harper sent near record flooding downstream. The Pedernales River at Fredericksburg crested early Sunday morning, with the flood damage not serious until the wave reached LBJ National Park, near Stonewall. A 22 foot rise was reported downstream at the higher bridge. Inside the park, several concrete and steel signs were damaged, and there was also significant damage to roads. At Johnson City, the crest was well below the 1952 flood of record and there was no significant damage in this reach.

Llano River...

Tremendous flow down the James River, reinforced by 8 to 15 inch rainfall east of Mason Sunday afternoon and evening, sent the Llano River at Llano to over 38 feet shortly near midnight Sunday night, some 6 feet above the 1952 flood of record. Several buildings and a dozen homes were flooded in Llano, and major damage was reported to the city park. At least two dozen homes were flooded between Llano and Castell and 5 to 6 homes flooded south of Llano. At Kingsland, complete destruction was reported to docks along the River above Lake LBJ. Most boats were destroyed, although no homes were flooded. Along the Colorado River, over a dozen homes and lodges were flooded. Flooding along Lake Marble Falls on the north side of Lake LBJ, involved some 35 homes on one side alone. At Lake Marble Falls, inflow was so great that the lake volume was being replaced every 12 minutes on Sunday evening.

An additional rainfall amounts of up to six inches fell south of the San Antonio area between 9 am and noon on Sunday. Although Saturday's flooding fell on relatively sparsely populated ranch land, the flooding on Sunday fell in highly populated river recreational areas, filled with weekend campers. Most roads in Frio and Atascosa counties were closed with several homes flooded in Dilley. The flooding moved eastward on Monday into DeWitt and Lavaca Counties. Rainfall for the two days in the two counties averaged from 3 to 6 inches, with isolated totals of up to 12 inches. Massive flooding was reported on Coletto Creek and Sandies Creek. The Navidad River In Lavaca County crested 2 feet above flood stage, causing widespread lowland flooding.

The Red Cross and FEMA totals for homes and businesses damaged or destroyed in this flood in South Central Texas included nearly 300 homes across the Highland Lakes northwest of the Austin area. In addition, homes and businesses damaged or destroyed numbered approximately 200 in Guadalupe County, 150 in each of Bandera and Bexar Counties, 100 in each of Medina and Kendall Counties, and 50 in each of Real, Uvalde and Comal Counties.

A 76-year old man in Medina County was drowned in the early morning on Sunday. He was in a vehicle with his wife near 130 am CST and apparently drove around a barrier on Hondo Creek about 4 miles south of Yancey on FM462. The vehicle was swept into the creek and his wife was able to climb out of the vehicle after it came to rest along a fence about 50 feet downstream. Her husband was unable to escape.

The flooding claimed a victim in Bandera County during the early morning hours on Sunday. Someone had reported seeing a car with a man and his wife swept off SH16 over Bandera Creek, at the eastern edge of Bandera. When firemen and deputies arrived

Storm Data and Unusual Weather Phenomena

June 1997

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

on the scene, they heard a call for help from the man who had caught onto a tree. The woman, 59 years old and unable to escape from the vehicle, was drowned.

A third death during the Hill Country rain event also occurred in the early morning hours in Bandera County. A 41-year old man and his friend were driving in a truck on HWY 16. Flooding waters out of Privilege Creek swept the car off the bridge and into the creek. One of the two men was able to swim to safety, but the other drowned. This occurred within about 4 miles of the site where the woman drowned.

Llano County Countywide

24	1900CST				0	0	10K	0	Flash Flood
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Rainfall of nearly 2 inches in 2 hours fell over already saturated soils, causing short-lived flash flooding across the county.

TEXAS, South Panhandle

Lynn County 5 SE Wilson

06	0245CST				0	0	0	0	Hail (0.88)
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Lynn County Wilson

06	0310CST				0	0	0	0	Hail (1.75)
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Severe thunderstorms developed over Lynn County during the early morning of the 6th. The Wilson Fire Department reported golfball-sized hail in the town of Wilson. The storms eventually moved slowly northeast into Crosby County and weakened.

Lamb County Littlefield

09	1505CST				0	0	0	0	Hail (1.00)
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Hockley County 3 W Anton

09	1545CST				0	0	0	0	Hail (1.25)
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Bailey County Bula

09	1625CST				0	0	0	0	Hail (1.75)
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Lamb County 13 W Littlefield

09	1625CST				0	0	0	0	Hail (1.00)
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Lubbock County Shallowater

09	1637CST				0	0	0	0	Hail (0.75)
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Hockley County Levelland

09	1721CST				0	0	0	0	Hail (0.88)
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Hockley County 6 W Levelland

09	1722CST				0	0	0	0	Hail (1.75)
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Hockley County 3 S Levelland

09	1740CST				0	0	0	0	Hail (1.00)
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Hockley County 12 S Levelland

09	1754CST				0	0	0	300K	Hail (2.00)
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Terry County Needmore

09	1818CST				0	0	0	2.5M	Hail (1.75)
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Hall County 8 SSW Lakeview

09	1820CST				0	0	0	0	Hail (1.00)
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Hall County 11 WSW Estelline

09	1850CST				0	0	0	0	Hail (0.88)
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An upper level low pressure system moved east from eastern New Mexico across West Texas during the early afternoon as widely scattered severe thunderstorms developed over the western portions of the South Plains. Hen egg-sized hail was reported by a television crew over southern Hockley County. The Terry County Sheriff's Office reported golfball-sized hail near the community of Needmore. There were also several reports from the public and storm chasers of dime- to quarter-sized hail across the area. There were approximately 25,000 acres of cotton destroyed or damaged by the hail that occurred over southern Hockley and northern Terry Counties. The communities of Lockettville and Needmore were most affected by this crop damage.

Hale County 6 S Cotton Center

11	1635CST				0	0	0	50K	Hail (1.00)
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Yoakum County 15 NE Plains

11	1715CST				0	0	0	5M	Hail (0.25)
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Hockley County Sundown

11	1735CST				0	0	0	5M	Hail (0.25)
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Terry County Needmore

11	1735CST				0	0	0	5M	Hail (0.25)
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Storm Data and Unusual Weather Phenomena

June 1997

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									
Hale County									
10 WNW Abernathy	11	1800CST 1930CST			0	0	0	0	Flash Flood
Terry County									
4 E Brownfield	11	1808CST			0	0	10K	0	Thunderstorm Wind (G61)
Lubbock County									
Shallowater	11	1820CST			0	0	0	50K	Hail (1.00)
Lubbock County									
Shallowater	11	1820CST			0	0	0	0	Thunderstorm Wind (G57)
Terry County									
Brownfield Arpt	11	1820CST			0	0	15K	0	Thunderstorm Wind (G61)
Lynn County									
Odonnell	11	1830CST			0	0	0	0	Thunderstorm Wind (G52)
Lubbock County									
Lubbock Intl Arpt to Abernathy	11	1835CST			0	0	0	0	Thunderstorm Wind (G62)
Lynn County									
Odonnell	11	1844CST			0	0	0	2M	Hail (0.75)
Garza County									
8 NW Post	11	1908CST			0	1	15K	0	Thunderstorm Wind (G55)
Lubbock County									
Slaton	11	1913CST			0	0	0	20K	Hail (0.75)
Hall County									
2 E Memphis	11	1930CST			0	0	0	150K	Hail (0.25)
Stonewall County									
Aspermont	11	2030CST			0	0	10K	0	Thunderstorm Wind (G57)
Severe thunderstorms developed along the dryline along the New Mexico/West Texas border and moved east- northeast over the South Plains during the late afternoon into evening producing dime- to quarter-sized hail and high wind. In Terry County, the Emergency Operations Center reported roof damage to mobile homes, along with trees and power poles down due to high wind. Sixty-five to seventy mph wind gusts over Lubbock County caused a cinder block structure under construction to topple in the northern part of the city of Lubbock at the Lubbock Country Club. The high wind caused damage at Lubbock International Airport where a 30 square yard section of the terminal building was blown off and numerous power lines were also blown down. The storms also caused one minor injury in Garza County where a truck driver had his unfilled 18-wheel truck blown off Highway 84. An isolated thunderstorm over the extreme southern Texas Panhandle produced small hail and strong wind that caused damage to crops in Hall County near the town of Memphis. Overall, approximately 100,000 acres of cotton were destroyed in Yoakum, Terry, and Hockley Counties due to small hail and strong wind.									
Lynn County									
6 NNE Wilson	14	1410CST			0	0	0	25K	Hail (1.75)
Lubbock County									
Slaton	14	1435CST			0	0	0	0	Hail (1.75)
Cochran County									
Whiteface	14	1438CST			0	0	0	0	Hail (0.75)
Cochran County									
Whiteface	14	1450CST			0	0	20K	0	Hail (1.75)
Parmer County									
1 W Bovina	14	1454CST			0	0	0	0	Hail (0.88)
Yoakum County									
Denver City	14	1500CST			0	0	250K	0	Thunderstorm Wind (G70)
Cochran County									
Whiteface	14	1505CST			0	0	50K	100K	Hail (2.00)
Floyd County									
4 S Floydada	14	1515CST			0	0	2K	0	Thunderstorm Wind
Floyd County									
Floydada Muni Arpt	14	1520CST			0	0	10K	0	Thunderstorm Wind (G63)
Cochran County									
Whiteface	14	1530CST			0	0	20K	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1997

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									
Cochran County									
1 S Whiteface	14	1540CST	0.2	10	0	0	5K	0	Tornado (F0)
Terry County									
Tokio	14	1540CST			0	0	0	0	Thunderstorm Wind (G52)
Floyd County									
5 W South Plains	14	1545CST			0	0	3K	0	Thunderstorm Wind
Hockley County									
8 W Levelland	14	1545CST			0	0	10K	0	Thunderstorm Wind (G52)
Hockley County									
Ropesville	14	1555CST			0	0	1K	0	Thunderstorm Wind (G50)
Lubbock County									
Lubbock	14	1606CST			0	0	0	0	Thunderstorm Wind (G60)
Lamb County									
Littlefield	14	1615CST			0	0	20K	0	Thunderstorm Wind (G55)
Lubbock County									
Lubbock	14	1619CST			0	0	0	0	Thunderstorm Wind (G52)
Garza County									
10 W Justiceburg	14	1620CST			0	0	0	0	Hail (1.00)
Lubbock County									
Lubbock Intl Arpt	14	1629CST			0	0	0	0	Thunderstorm Wind (G50)
Lamb County									
Spade	14	1630CST			0	0	0	0	Thunderstorm Wind (G55)
Hockley County									
Whitharral	14	1635CST			0	0	2K	0	Thunderstorm Wind (G60)
Lubbock County									
Idalou	14	1650CST			0	0	0	0	Thunderstorm Wind (G55)
Swisher County									
8 W Vigo Park	14	1658CST			0	0	2K	0	Thunderstorm Wind (G55)
Floyd County									
Aiken	14	1715CST			0	0	0	0	Thunderstorm Wind (G55)
Crosby County									
Crosbyton	14	1720CST			0	0	0	0	Thunderstorm Wind (G52)
Floyd County									
Aiken	14	1723CST			0	0	0	0	Thunderstorm Wind (G55)
Briscoe County									
3 W Silverton	14	1730CST			0	0	2K	0	Thunderstorm Wind (G55)
Dickens County									
Mc Adoo	14	1732CST			0	0	0	0	Thunderstorm Wind (G52)
Kent County									
Clairemont	14	1732CST			0	0	0	0	Hail (0.75)
Dickens County									
Mc Adoo	14	1733CST			0	0	0	0	Thunderstorm Wind (G52)
Floyd County									
10 E Floydada	14	1745CST			0	0	0	0	Thunderstorm Wind (G55)
Kent County									
7 E Clairemont	14	1800CST 1900CST			0	0	0	0	Flash Flood
Motley County									
Matador	14	1815CST			0	0	10K	0	Thunderstorm Wind (G61)
Childress County									
Childress	14	1838CST			0	0	0	0	Thunderstorm Wind (G51)

Severe thunderstorms developed over the western portions of the South Plains during the afternoon of the 14th. A deputy from the Cochran County Sheriff's Office reported a tornado briefly touched down just south of Whiteface. It destroyed a barn, snapped power lines, and toppled a 160-foot section of a 300-foot radio tower. Golfball-sized hail was also reported with this storm by the public and spotters. During the afternoon, nickel-sized hail was also reported by the public in Parmer County just west of Bovina. Golfball-sized hail was reported by a NWS cooperative observer in Lynn County 6 miles north-northeast of Wilson. During the late afternoon, storms producing very strong winds moved into the South Plains from southeast New Mexico. Winds up to 80 mph

Storm Data and Unusual Weather Phenomena

June 1997

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									
in Yoakum County damaged numerous roofs and trees. Uprooted trees, overturned dumpsters, and downed power lines were reported at Yoakum County Park. The Yoakum County Golf Course had numerous trees uprooted or snapped off two to three feet from their base along with damage to golf cart sheds. An awning was damaged at a local car dealership in Denver City. Part of the roof of a Denver City business blew away while the roof at the sheriff's office received major damage as well. These high winds moved east across the South Plains and Rolling Plains during the evening. A sheep barn was destroyed in Lamb County west of Littlefield when it was blown 600 feet into an adjacent field. An outbuilding was destroyed in Hockley County near Whitharral. Throughout the evening, there were numerous reports of downed power poles and trees as strong winds affected virtually the entire area.									
Parmer County									
9 N Bovina	16	1350CST			0	0	0	25K	Hail (1.00)
Parmer County									
5 N Hub	16	1448CST			0	0	0	10K	Hail (0.88)
Cochran County									
7 SW Whiteface	16	1548CST	0.1	10	0	0	0	0	Tornado (F0)
Crosby County									
3 NE Kalgary	16	1800CST			0	0	0	0	Hail (1.25)
Childress County									
Childress	16	1821CST			0	0	0	0	Hail (0.75)
Childress County									
Childress Muni Arpt	16	1821CST			0	0	20K	0	Thunderstorm Wind (G55)
Dickens County									
Dickens	16	1825CST			0	0	10K	0	Thunderstorm Wind
Dickens County									
Spur	16	1825CST			0	0	0	0	Hail (1.00)
Dickens County									
Spur	16	1825CST			0	0	15K	0	Thunderstorm Wind
Kent County									
10 W Girard	16	1833CST			0	0	0	0	Hail (1.75)
Childress County									
Childress	16	1841CST			0	0	0	0	Thunderstorm Wind (G53)
Kent County									
Girard	16	1845CST			0	0	0	0	Thunderstorm Wind (G57)
Kent County									
Girard	16	1850CST			0	0	0	0	Hail (0.75)
King County									
15 SW Guthrie	16	1850CST	0.1	10	0	0	0	0	Tornado (F0)
Kent County									
6 NNE Jayton	16	1852CST	0.1	10	0	0	0	0	Tornado (F0)
King County									
4 S Guthrie	16	1915CST	0.1	10	0	0	0	0	Tornado (F0)
Severe thunderstorms developed during the afternoon of the 16th and continued into the evening. The Hockley County Sheriff's Office relayed an oil field worker report of a tornado 2 miles east of the intersection of Highway 214 and FM road 1585. Other brief, weak tornadoes were spotted by the King County Sheriff's office 4 miles south of Guthrie, by the Dickens County Sheriff's Office in southwest portions of King County, and by the Kent County Sheriff's Office in northeast Kent County, north-northeast of the town of Jayton. A hail storm during the afternoon in Parmer County caused crop damage to corn, wheat, and milo. Strong winds in the town of Dickens produced some tree damage while strong winds in the city of Childress caused sign damage and knocked over trees and antennas. The roof of the Dickens Electric Cooperative warehouse was destroyed and a tree landed on the hood of a car in the town of Spur. Many trees were blown over in the south part of the town of Dickens.									
Lubbock County									
5 N Slaton	20	1744CST			0	0	0	15K	Hail (1.75)
Lubbock County									
1 E Slaton	20	1751CST			0	0	0	0	Hail (1.00)
The public reported golfball-sized hail north of Slaton and quarter-sized hail east of Slaton.									
Bailey County									
6 E Muleshoe	24 25	2145CST 0000CST			0	0	0	0	Flash Flood

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June 1997

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									
Lamb County									
6 W Earth	24	2145CST			0	0	0	0	Flash Flood
	25	0000CST							
	Thunderstorms developed over eastern Bailey County and moved north-northeast into western Lamb County. U.S. Highway 70 was covered by water east of Muleshoe as was FM road 303 in western Lamb County, west of the community of Earth.								
Lubbock County									
Lubbock	26	1630CST			0	0	0	0	Flash Flood
		1830CST							
	Water was reported covering roads at various locations around Lubbock County and in the city of Lubbock.								
Briscoe County									
Silverton	27	1930CST			0	0	0	0	Flash Flood
		2030CST							
	Water was reported over roads in and near Silverton by a deputy sheriff.								
Hale County									
Halfway	29	1605CST			0	0	0	50K	Hail (0.88)
Terry County									
Brownfield	29	1609CST			0	0	0	50K	Hail (1.75)
Swisher County									
Vigo Park	29	1615CST			0	0	0	0	Hail (0.75)
Terry County									
Brownfield	29	1615CST			0	0	0	50K	Hail (1.75)
Hale County									
9 W Plainview	29	1630CST			0	0	0	500K	Hail (1.75)
Briscoe County									
Quitaque	29	1720CST			0	0	0	0	Thunderstorm Wind (G57)
Briscoe County									
Quitaque	29	1730CST			0	0	0	0	Flash Flood
		1830CST							
Briscoe County									
9 E Silverton	29	1745CST			0	0	0	25K	Hail (0.88)
Briscoe County									
Quitaque	29	1753CST			0	0	0	25K	Hail (0.88)
Briscoe County									
Quitaque	29	1753CST			0	0	2K	25K	Thunderstorm Wind (G61)
Childress County									
Childress	29	1903CST			0	0	0	0	Thunderstorm Wind (G51)
	Severe thunderstorms developed during the late afternoon and continued into the evening of the 29th. Golfball- sized hail was reported in the city of Brownfield by SKYWARN spotters. High wind with nickel-sized hail in Briscoe County produced crop damage east of Quitaque and almost blew a truck off the road. Large tree limbs and powerlines were also reported down in the city of Quitaque. Golfball-sized hail west of Plainview destroyed 3000 acres of cotton.								
TEXAS, Southeast									
Tyler County									
Warren	06	2130CST			0	0			Urban/Sml Stream Fld
	07	0030CST							
	Stationary thunderstorms resulted in three to five inches of rain across rural sections of southern Tyler County. Small creeks temporarily ran over several rural roads, primarily in the Warren area.								
Tyler County									
2 E Chester	17	0546CST			0	0	10K		Thunderstorm Wind
	A fast moving severe thunderstorm blew trees down across FM 1745, two miles east of Chester in Tyler County.								
Hardin County									
Kountze	24	1730CST			0	0	5K		Urban/Sml Stream Fld
		1830CST							
	Three inches of rain fell in less than one hour, resulting in minor street flooding around Kountze.								
Orange County									
Bridge City	25	1450CST			0	0	40K		Heavy Rain
	A 19 year old woman was killed when she lost control of her vehicle during a heavy rain. She struck a flatbed truck near Veterans Memorial Bridge on Highway 87. Between one and two inches of rain fell in less than 20 minutes, resulting in slick roadways.								

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, West									
Jeff Davis County 10 NW Ft Davis	01	1653CST			0	0			Hail (0.75)
Jeff Davis County 37 NNW Ft Davis	01	1740CST 1755CST			0	0			Hail (1.00)
Two multicell clusters of thunderstorms developed over the Davis Mountains and moved southward. The early report was at McDonald Observatory and the later report was along I-10 at the Cherry Creek exit.									
Jeff Davis County 7 N Valentine	04	1433CST 1437CST	0.3	40	0	0			Tornado (F0)
A severe thunderstorm that produced golfball size hail at Valentine spawned a brief landspout tornado north of town.									
Jeff Davis County Valentine	04	1445CST 1450CST			0	0			Hail (1.75)
Presidio County 20 NNW Presidio	04	1730CST 2000CST			0	0			Flash Flood
Heavy rains east of the Rio Grande filled local arroyos that sent flood waters across State Highway 170 upstream from Presidio. Department of Transportation employees worked through the night to clear sand and other debris from the highway.									
TXZ079 Presidio Valley	04	1900CST			0	0	10K		Flood
	05	0200CST							
Widespread heavy rains from thunderstorms in the Rio Grande basin above Presidio caused River Flooding near Candelaria. A sharp flood crest of 14.1 ft (flood stage 7.5 ft) damaged the river gauge at Candelaria. The flood crest was attenuated as it moved downstream, reaching Presidio around 6am CDT on the 5th. By this time the crest was below bankfull levels.									
Upper level ridge which had suppressed convection the previous two days weakened slightly and with a moist low level flow into the mountains, thunderstorms developed in the higher terrain. Surface dew points were in the mid to upper 50s in far west Texas. The MAF 00Z sounding showed 1.17 inches of precipitable water.									
Culberson County Pine Spgs	04	1737MST			0	0			Hail (0.75)
Culberson County 20 SSW Pine Spgs	07	1745CST 1749CST	0.8	80	0	0			Tornado (F0)
A tornado was reported by a rancher near the Hudspeth County line 10 miles south of U.S. Highway 62/180 in the Sierra Diablo Mountains.									
Culberson County Pine Spgs	07	1745CST			0	0			Hail (1.00)
A quite rare event with a tornado watch issued primarily for the mountains of SW Texas and Far West Texas. An upper level low located near the northern Gulf of California at daybreak was moving into the region from the southwest and helped to add mid-level support for the development of severe thunderstorms. A favorable vertical profile with SSE winds near the surface at 15-20 kt and a SW wind aloft at 40-45 kt gave a favorable shear. The storm that produced the tornado near the Hudspeth Co. line started in southwestern Hudspeth County about 20 miles west of Sierra Blanca and intensified rapidly into a supercell.									
Pecos County Ft Stockton	08	0517CST			0	0			Hail (1.00)
Borden County 14 NW Gail	08	0745CST 0930CST			0	0			Flash Flood
FM 1054 was flooded up on the Caprock.									
Scurry County Knapp	08	0830CST 1030CST			0	0			Flash Flood
Heavy morning rains over the southwest part of the county flooded roads in the Knapp area. Roads 3S and 2NE of Knapp were flooded.									
Scurry County 1 N Ira	08	0845CST 1045CST			0	0			Flash Flood
Flooding also occurred near the Ira area from the same storms that flooded the Knapp area.									
Scurry County Snyder	08	0900CST 1100CST			0	0	3K		Flash Flood
Heavy morning rains caused widespread street flooding in the city of Snyder. A city park had flooding that caused a large									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, West									
Reagan County 4 N Stiles	08	0845CST 1000CST			0	0			Flash Flood
whirlpool as the water flowed into a drainage grate. Flooding rose into three units of an apartment complex.									
Reagan County 5 SE Stiles	08	0855CST 1000CST			0	0			Flash Flood
Water was running across State Highway 137, but not enough to close the roadway.									
Pecos County Ft Stockton	08	1245CST 1253CST			0	0			Hail (0.75)
Water was running across Ranch Road 33 in the central portions of the county.									
Martin County 3 N Lenorah	08	1330CST 1600CST			0	0			Flash Flood
Water flowing across Highway 137 washed mud and silt across the highway. Even after the water receded the mud was so thick that Highway crews had to work through the night to clear the roadway.									
Ward County Grandfalls	08	1330CST			0	1			Lightning
A 16 year old male received an indirect lightning strike. He was taken to Ward Memorial Hospital in Monahans and transferred to Odessa Medical Center for testing, and was released late that night. The boy and his mother were walking across their porch leaving the house when lightning struck a metal pipe along the side of the house. The boy was struck in the head by a glancing blow from the bolt, knocked to the ground, but sustained no burns. He was dazed but never lost consciousness; he said he remembered feeling the shock as the bolt went through his body. They said the lightning came seemingly from nowhere as all the previous thunder had seemed quite distant. Light rain was falling at the time of the incident.									
Ector County 1.5 N Odessa	08	1340CST 1600CST			0	0			Flash Flood
Flooding over the curbs and into yards occurred near the University and Eisenhower intersection.									
Midland County 4 WNW Midland	08	1410CST 1500CST			0	0			Flash Flood
Flooding along Andrews Highway near the intersection of Bates Rd. spilled over the curb and almost entered a home.									
Midland County 2.5 NW Midland	08	1430CST 1600CST			0	0			Flash Flood
Torrents of water running under Golf Course Road in Midland undermined the roadway resulting in an eight foot wide collapse of the pavement into a hole. One car wrecked in the hole with the driver sustaining minor injuries. It took about two weeks for road crews to repair the road and associated drainage.									
Midland County 2 N Midland	08	1415CST			0	0			Thunderstorm Wind (G52)
60 mph winds reported by a SKYWARN spotter in Midland.									
Howard County 11 NE Big Spring	08	1430CST 1600CST			0	0			Flash Flood
Flooding occurred on State Highway 350. Barricades to slow traffic approaching the flooded area were posted but the highway was not closed.									
Glasscock County 13 WSW Garden City	08	1430CST 1730CST			0	0			Flash Flood
Highway 137 south of State Route 158 flooded from over 3 inches of rains in the area.									
Glasscock County St Lawrence	08	1500CST 1745CST			0	0			Flash Flood
FM 2401 flooded from 3 inch rains in the area.									
Terrell County 24 NNE Sanderson	08	1900CST 2100CST			0	0			Flash Flood
Water running across Ranch Road 2886 washed debris onto the road.									
Terrell County 34 NNE Dryden	08	1945CST 2100CST			0	0			Flash Flood
Water rushing across State Highway 349 washed out a 60 foot section of pavement one mile north of Independence Creek.									

Storm Data and Unusual Weather Phenomena

June 1997

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

TEXAS, West

An E-W outflow boundary in the Midland/Odessa area was a low-level focusing mechanism for convection this day, but probably the most obvious lifting feature was the impressive diffluence over the area. Two lines of storms developed and moved through the Permian Basin. Precipitable water on the 00Z sounding was 194% of normal at MAF.

One interesting note to this overall scene was that there was no sun in the Midland/Odessa area as stratus and stratocumulus clouds filled in gaps between storms and between lines of storms. After the first line of storms moved through the central Permian Basin, the usual subsidence and rising cloud bases was not seen--instead, low scud raced to the WNW to the developing line of storms in the western Permian Basin. Late in the afternoon as the upper-level lift began to pass the region, finally the sun shined a couple of hours before sunset. The high temperature this day was only 73 degrees at MAF.

Brewster County

Lajitas

11	1536CST			0	0			Hail (0.88)
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Unusually high amounts of moisture in the Big Bend region for this early in the season with dew points in the upper 50s. Thunderstorms developed over the high terrain in Mexico up the Rio Grande from Lajitas. The storms moved east and intensified with nickel size hail falling at the Lajitas Trading Post.

Ector County

10 NW Goldsmith

11	1704CST			0	0			Hail (1.75)
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Andrews County

18 SW Andrews

11	1706CST			0	0			Hail (1.75)
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A WNW-ESE outflow boundary between an HP Supercell near Jal, NM and the left-split storm in Andrews County served as a focus for this storm that dropped golfball size hail on the Andrews/Ector County line.

Andrews County

1 W Andrews

11	1730CST			0	0			Hail (1.00)
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Andrews County

Andrews

11	1740CST			0	0	10K		Thunderstorm Wind (G52)
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A storm that rapidly developed along an outflow boundary in southern Winkler County produced a tornado as it crossed into Ector County. The storm then split--the right-mover died, but the left-mover re-intensified moving quickly to the NNE and dropped one inch hail on Andrews. Storms from southern Lea County, NM moved east into the area and merged with the Andrews storm. Downbursting winds in Andrews were estimated at 60 mph. A houseboat was blown off its trailer, rolled over two cars, and landed on its top. The structure remain intact, but sustained much damage nonetheless.

Gaines County

Seminole

11	1745CST			0	0	0.50K		Thunderstorm Wind
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An awning from a mobile home was blown off but sustained little damage.

This storm developed from outflow on the north side of a severe storm in southern Lea County, NM. The storm was still in the developing stages when it produced the downburst winds in Seminole. As the storm proceeded to the east-northeast it became the apex cell of the line that moved through northern Dawson County.

Dawson County

3 E Welch

11	1815CST			0	0			Thunderstorm Wind (G61)
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Dawson County

6 NNW Lamesa

11	1822CST			0	0	5K		Thunderstorm Wind
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A large tree and power lines were downed by outflow winds along State Highway 137 north of Lamesa.

Dawson County

10 NE Lamesa

11	1830CST			0	0			Thunderstorm Wind (G61)
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Borden County

16 NW Gail

11	1852CST			0	0			Thunderstorm Wind (G57)
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Between about 5pm and 7pm CDT the mid-level flow veered sending storms that had been moving to the northeast now to the east. Storms moving east through eastern Gaines County began to organize into a line with storms in Andrews County. As the storms continue to moved to the east into Dawson County a large scale bow formed on the line with the apex in northern Dawson County. Numerous wind damage events occurred as the apex of this line raced to the east at 50 mph. Wind estimates by spotters were in the 65-70 mph range.

Upton County

Mc Camey

11	1959CST 2004CST			0	0			Thunderstorm Wind (G52)
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Pecos County

Belding

11	2140CST			0	0			Hail (1.75)
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The synoptic setting for this event included a surface trough located from the northeastern Texas Panhandle southwest into northern Eddy County, New Mexico. Surface Moisture values were relatively high with dew points in the lower to mid 60s on

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Location	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
	Date			Killed	Injured	Property	Crops	
TEXAS, West								
both sides of the trough. Storms initially developed in the high terrain of southern New Mexico, Far West Texas, and northern Chihuahua and then formed along the trough as well. Storms began primarily as single and multicell hail producers, but in the evening became a multicell line event with damaging winds.								
Reeves County								
Pecos	12	1755CST		0	0			Thunderstorm Wind (G52)
								Sheriff's Office estimated 60 mph winds in the city and an anemometer recorded at 50 kt winds at the airport on the southwest side of the city.
Pecos County								
Imperial	12	1813CST		0	0			Thunderstorm Wind (G52)
Crane County								
Crane	12	1900CST		0	0			Thunderstorm Wind (G52)
Ector County								
Odessa	12	1920CST		0	0			Thunderstorm Wind (G57)
Midland County								
3 W Midland	12	1935CST		0	0			Thunderstorm Wind
								Two power poles located about 1 mile apart were blown down in the southwest section of Midland.
Dry downbursts formed in the late afternoon with surface temperatures in the Permian Basin in the upper 90s and readings in the Pecos Valley near 102 degrees. Dew point temperatures in the region were in the lower 50s.								
Gaines County								
10 W Seminole	14	1440CST		0	0	10K		Thunderstorm Wind
Gaines County								
2 W Seminole	14	1500CST		0	0	20K		Thunderstorm Wind
								A wet macroburst caused damage west of Seminole. First utility poles were knocked down ten miles west of Seminole and as the storm approached the city a cotton gin sustained had part of a roof collapse and other damage.
Ector County								
Gardendale	14	1515CST 1530CST		0	0			Hail (2.75)
								A storm that developed over northern Ector County briefly showed supercell-type characteristics and dropped baseball hail on Gardendale.
Midland County								
4 NNW Midland	14	1540CST		0	0			Hail (1.25)
								The Gardendale storm moved to the northeast while developing on its south end and brushed the north sections of Midland with hail slightly larger than a quarter.
Martin County								
17 WSW Stanton	14	1559CST		0	0			Hail (1.75)
								Golfball size hail fell along the Midland/Martin County line on State Highway 349.
Midland County								
6 N Midland	14	1559CST		0	0			Hail (1.75)
Martin County								
5 W Flower Grove	14	1610CST		0	0			Thunderstorm Wind (G52)
Martin County								
Stanton	14	1639CST		0	0	10K		Thunderstorm Wind
								High winds knocked down power poles in Stanton
Martin County								
Stanton	14	1640CST		0	0			Hail (0.75)
								This storm formed of the southern flank of the storm that passed over north Midland.
Midland County								
7 NE Greenwood	14	1640CST		0	0			Hail (1.75)
								This cell over northeastern Midland County developed very rapidly on the southern flank of the Stanton storm and briefly produced golfball size hail.
Upton County								
Rankin	14	1703CST		0	0			Thunderstorm Wind (G52)
								A 60 mph wind gust was reported as the line of storms moved through Rankin.
Howard County								
Big Spring	14	1708CST 1715CST		0	0	10K		Thunderstorm Wind (G57)
								As the line of storms moved eastward, the events began to change from hail events to wind events. In the city of Big Spring 65 mph winds were reported with large tree limbs broken and light aircraft at the airport overturned.
Howard County								
3 E Coahoma	14	1737CST		0	0			Thunderstorm Wind (G52)
								A 60 mph wind gust was estimated as the line moved east of Coahoma.

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June 1997

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

Scurry County Snyder

14	1747CST				0	0	5K		Thunderstorm Wind
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Farther north downbursting winds knocked down utility lines in Snyder.

Several factors came together on this Saturday afternoon. In the upper levels the remnants from Tropical Storm Blanca passed through the area in a southwesterly flow. At the surface surface dew points were near 70 degrees over much of the region and the dry line was located just east of the mountains.

The first storms were generated in the relatively dry air and formed into a NW-SE oriented line. When this line intersected the dry line, storms began to form southward along this convergent area. By 5pm CDT an almost continuous line of storms stretched across the radar screen from Lubbock to east of Ft. Stockton. By about 7:00 pm most of the storms had exited the region to the east.

The modified 1200 UTC MAF sounding on the SHARP workstation indicated a mean parcel buoyancy of 2900 J/kg and a best parcel buoyancy of 5200 J/kg.

Presidio County 16 NW Presidio

15	1730CST 1740CST				0	0	8K		Thunderstorm Wind
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Strong winds damaged a new double-wide mobile home.

Presidio County 16 NW Presidio

15	1735CST 1740CST				0	0	7K		Hail (2.00)
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Hail larger than golfball damaged a new pickup truck parked near the trailer that was damaged by the wind.

Brewster County 20 NNW Terlingua to 17 N Study Butte

15	1840CST 1855CST				0	0	70K		Thunderstorm Wind
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Wind damage occurred to several buildings on a ranch located on Taurus Mesa. Much of the damage was limited to corrugated metal that was strewn across the countryside. Rear-flank downdraft (RFD) winds were thought to have been the mechanism for the high winds. The RFD then hit State Highway 118 where the Longhorn Ranch Motel sustained wind damage. A 12x20 foot sign was blown down as well as damage to doors and the roof.

The Red Cross determined that 2 houses were destroyed and 6 houses sustained major damage in the area near the motel.

Brewster County 21 N Study Butte

15	1850CST				0	2	10K		Hail (4.50)
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North of where the RFD winds caused damage, hail up to softball size smashed car windshields and pummelled a couple of houses. One gentleman, who was attempting to close a window, was injured when hail broke the window and caused several facial lacerations. He was taken by private vehicle to the Alpine Hospital. A second man suffered minor cuts on his legs.

Brewster County 17 NE Study Butte

15	1915CST				0	0			Hail (1.75)
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Golfball size hail fell on the northern sections of Terlingua Ranch.

Brewster County 13 N Panther Junction

15	1950CST				0	0	3K		Hail (2.75)
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Baseball size hail broke windows in at least one car in the northern portions of Big Bend National Park on the extension of U.S. Highway 385.

Brewster County 12 N Panther Junction

15	1950CST				0	0			Thunderstorm Wind (G70)
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Gravel from the side of the road was blown onto the park road 11-14 miles north of the Park Headquarters. All of the gravel was 1/2 to 3/4 inch in diameter. The event was not seen but was concluded by Park officials after noting there was no silt or smaller debris which would have suggested flash flooding. During one short stretch of the road, there was an extensive amount of gravel on the road.

A strong thunderstorm in southern Presidio County moved into southwestern Brewster County and became a supercell. This storm had a continuous track of damaging winds and hail for 33 miles. This track could have been longer, but in this desolate area, no other reports were available. Although there was F1 scale damage, there were no confirmed tornado sightings. Most of the significant damage was thought to have come from Rear-flank downdrafts, due to the location to the proximity of the large hail. The storm was moving to the ESE at 45-50 mph, so forward-flank downdrafts could have caused some of the damage as well due to the summation of outflow speed and translational speed. Along Highway 118 the fringe-to-fringe damage path was 8 miles wide--also suggesting large-scale outflow was a contributor to the damage.

An unobstructed view from the northeast allowed people in the Midland/Odessa area to see the upper half of the storm from about 200 miles away just before sunset. The storm tower showed strong signs of rotation (in the form of large bands) even from this distance.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, West									
Terrell County									
Sanderson	15	2115CST			0	0	200K		Thunderstorm Wind
An HP supercell in the western part of Terrell County produced a bow echo on its southern flank as it approach Sanderson with the apex of the bow aimed at the town. Damaging winds rushed into town with torrential rains and mostly pea size hail. The most substantial damage was to a department store that had the roof blown off and the front wall collapse into the street. Signs were bent over, trees uprooted, and power poles broken. Also a large Texaco sign was blown down and dumpsters were overturned and pushed down alleys. It was evident from the damage that all the winds were blowing from the west or northwest.									
TXZ051-062									
Martin - Midland									
	16	1700CST 1730CST			0	0			High Wind (G61)
A late-season cold front enhanced from thunderstorm outflow caused strong winds over much of the Permian Basin with winds estimated up to 70 mph in northeastern Midland and southwestern Martin Counties. Along I-20 in southwestern Martin County the combination of plowed fields and strong winds caused thick blowing dust that reduced visibilities reported as low as 10 yards by Department of Public Safety troopers. A major accident occurred when an 18-wheeler slammed into a slowing car on the highway. In all six 18-wheelers and several other vehicles were involved in the accident that resulted in several injuries. Since the weather phenomena was only a partial player in the accident none of the damages or injuries will be officially recorded.									
The Midland County Fire Marshal estimated the wind gusts to be near 70 mph in the Greenwood area of northeast Midland County.									
Winkler County									
Kermit	19	1615CST			0	0	5K		Thunderstorm Wind
Microburst winds knocked down fences and blew a tree down in a city park.									
Ector County									
6 W Odessa	19	1754CST			0	0			Thunderstorm Wind (G52)
60 mph wind reported by public.									
Thunderstorms fired in a relatively dry air mass near the Pecos Valley. Surface temperatures in were near 104 degrees with dew points in the lower 50s. Microburst winds were generated by the storms--some causing damage.									
Martin County									
2 S Stanton	20	1500CST			0	0			Hail (1.75)
Ector County									
12 S Odessa	20	1535CST			0	0			Hail (1.00)
Midland County									
2 NW Midland	20	1623CST			0	0			Hail (1.00)
Dawson County									
14 NNE Lamesa	20 21	1820CST 0200CST			0	0			Flash Flood
Heavy rains caused flooding on U.S. Highway 87 that made a 500 yard stretch of the highway impassable.									
Howard County									
7 NE Big Spring	20	1910CST			0	0			Hail (0.75)
Scurry County									
8 SSE Snyder	20	1943CST			0	0			Hail (1.75)
The leading edge of a multicell cluster briefly developed a tight reflectivity gradient and an overhang. The storm briefly produced golfball size hail during this period.									
Storms initially developed along the dry line and moved into an unstable air mass with temperatures in the middle to upper 90s and dew points in the lower 60s. Buoyancy values were greater than 2000 J/kg.									
Ector County									
Odessa	20	1545CST			0	0	10K		Thunderstorm Wind
A thunderstorm with a dry microburst hit downtown Odessa and blew much of brick facade off a pawn shop. Hundreds of bricks came showering down onto the sidewalk and skittered into the middle Grant Avenue, a main north-south thoroughfare in the city.									
Brewster County									
25 SSW Marathon	23	1700CST			0	0			Hail (1.25)
Half dollar size hail was reported at a ranch.									
Brewster County									
16 NE Study Butte	23	1730CST			0	0			Thunderstorm Wind
Outflow on the south edge of a thunderstorm peeled half the roof off a house. Power was knocked out as well over a large area until 10:30 the next morning.									
A cluster of thunderstorms that developed in the Davis Mountains moved south through Brewster County. These storms were moving through much lower dewpoints than the storm in Winkler County, but were able to sustain themselves. Mid and upper									

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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	

TEXAS, West

level lift in the area from a deformation zone probably weakened the cap in that region. The storm on the western end became dominant, but began to develop to the east. The storm then moved due east across Terlingua Ranch and through the extreme northern parts Big Bend National Park.

Winkler County

10 WNW Kermit 23 1710CST 0 0 **Hail (0.75)**

Brewster County

Alpine 27 1800CST
2000CST 0 0 **Flash Flood**

Heavy rains from slow-moving thunderstorms flooded the streets in Alpine. Some streets had as much as two feet of water in them.

Upton County

1 SE Midkiff 28 1635CST 0 0 900K **Hail (2.00)**

Two-inch diameter hail destroyed about 3000 acres of cotton southeast of Midkiff.

Upton County

7 E Rankin 28 1838CST 0 0 **Hail (1.00)**

One inch hail fell along U.S. Highway 67 east of Rankin.

A day of low shear but high instability and a moderate cap produced one severe thunderstorm in the region. The Initial cell developed in northern Upton County along a left-over outflow boundary from the previous night. The storm drifted over the Midkiff area where it produced large hail. The storm then moved southeast into Reagan County, went through a reorganization, then moved southwest, returning to eastern Upton County. About 10 miles north of Rankin the radar signature showed a moderate overhang. Large hail again began to fall. (The one-inch hail found along Highway 67 had fallen about 35 minutes before, and was believed to have been at least golfball size when it fell.)

TEXAS, Western North

Wilbarger County

Vernon 03 1010CST 0 0 **Hail (1.00)**

Archer County

Lake Kickapoo 12 1932CST 0 0 **Hail (0.75)**

Wichita County

1 NW Iowa Park 12 1940CST 0 0 **Hail (1.00)**

Archer County

10 W Archer City 12 2025CST 0 0 **Hail (0.88)**

Archer County

12 W Archer City 12 2043CST 0 0 **Hail (1.00)**

Archer County

6 SW Windthorst 12 2135CST 0 0 **Hail (1.75)**

Archer County

10 SW Windthorst 12 2210CST 0 0 **Hail (2.00)**

Archer County

Mankins 14 2120CST 0 0 **Thunderstorm Wind (G56)**

Archer County

Archer City 14 2150CST 0 0 **Thunderstorm Wind (G56)**

Severe thunderstorm wind gusts were estimated at 65 mph in Archer City.

Hardeman County

Quanah 16 1900CST 0 0 10K **Thunderstorm Wind**

Severe thunderstorm winds downed power lines and blew a railroad car off its tracks.

Hardeman County

Quanah 16 1930CST 0 0 4K **Thunderstorm Wind (G52)**

Severe thunderstorm winds uprooted trees and snapped tree limbs throughout Quanah. Sustained winds of 55 mph with peak gusts to 60 mph were measured at the Quanah Fire Department. Also, a pickup truck was flipped over by the severe winds west of town.

Wilbarger County

Vernon 16 1930CST 0 0 0.10K **Thunderstorm Wind (G61)**

Severe thunderstorm winds gusted up to 70 mph at the Wilbarger County Airport just north of Vernon. In town, trees and limbs throughout Vernon were damaged or blown down.

Wilbarger County

Odell 16 1942CST 0 0 **Thunderstorm Wind (G61)**

Knox County

Knox City 16 1945CST 0 0 1.5K **Thunderstorm Wind**

Severe thunderstorm winds uprooted numerous trees and scattered limbs and debris across much of Knox City. Vinyl siding was

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	
TEXAS, Western North									
									blown off of one side of a house, and a sign was blown off of the top of a business in downtown.
Baylor County									
Lake Kemp	16	1950CST			0	0			Hail (1.75)
Baylor County									
Lake Kemp	16	1950CST			0	0			Thunderstorm Wind (G52)
Archer County									
Mankins	16	2030CST			0	0	4K		Thunderstorm Wind
									A roof was blown off a vacant building and onto Highway 25. Utility poles were also downed in the area.
Clay County									
Petrolia	16	2030CST			0	0	6K		Thunderstorm Wind
									A roof was blown off a pizza restaurant.
Wichita County									
Electra	16	2030CST			0	0	0.50K		Thunderstorm Wind
									Numerous trees were damaged or uprooted throughout Electra. Wind damage was also reported to roofs, outbuildings, and fences across town.
Wichita County									
5 SE Burkburnett	16	2035CST	0.7	60	0	0	20K		Tornado (F1)
									A survey conducted by a National Weather Service meteorologist confirmed that an F1 tornado touched down briefly about 5 miles southeast of Burkburnett (or 1.5 miles north of the north end of Sheppard AFB). One mobile home was completely destroyed on Bobby Point Road, prompting an F1 rating. Several other mobile homes in the area sustained minor damage, and homes to the east on Carriage Lane also received minor damage. Maximum path length was about 3/4 mile and the width was 50 to 60 yards.
Clay County									
Henrietta	16	2044CST			0	0			Hail (1.00)
Clay County									
Jolly	16	2044CST			0	0			Hail (0.75)
Clay County									
Jolly	16	2044CST			0	0			Thunderstorm Wind (G52)
Wichita County									
Wichita Falls	16	2045CST 2100CST			0	0	20K		Thunderstorm Wind
									Severe thunderstorm winds moved through the Wichita Falls area, downing trees, limbs, and power poles. One tree near a house fell onto a power line, causing an electrical surge that set the kitchen of the house on fire. A furniture warehouse was also destroyed when severe winds tore the back wall and roof off of the building. At Sheppard Air Force Base, winds up to 70 mph tore countless limbs from trees and knocked out windows on some base housing units.
Wichita County									
Burkburnett	16	2047CST			0	0	0.10K		Thunderstorm Wind (G52)
									Severe thunderstorm winds in Burkburnett toppled several large trees and damaged limbs, signs, and fences throughout town. Also, the second story of the press box at the high school football stadium was blown off and scattered across the playing field.
Wichita County									
Wichita Falls (Ksps)	16	2049CST			0	0			Thunderstorm Wind (G61)
									measured at Sheppard Air Force Base
Clay County									
6 SW Charlie to 2 N Charlie	16	2050CST 2105CST	6.5	100	0	0	150K		Tornado (F1)
									A damage survey conducted by a National Weather Service meteorologist revealed a 6.5 mile tornado track across northern Clay County. The tornado began around 20:50 CST about 6 miles southwest of Charlie, TX, moved northeast, and lifted about 2 miles north of Charlie. Downed power poles and several trees on Ratt Road marked the beginning of the damage, with increasing damage through a pecan grove along Highway 171. Damage to a barn and over 1000 trees in the grove was rated at F1. Farther northeast along the track of the tornado, two homes and at least 3 barns/garages also sustained F1 damage along Linville and T-Bone Roads. The roof of a house on T-Bone Road was completely blown off, probably because the garage door had been left open. The heaviest damage from this tornado was along a three mile path from the pecan grove on Highway 171 to the houses on Linville and T-Bone Roads. Path width ranged from 50 to 100 yards.
Wichita County									
Wichita Falls (Ksps)	16	2056CST			0	0			Thunderstorm Wind (G61)
									measured at Sheppard Air Force Base
Archer County									
Archer City	16	2100CST			0	0	0.10K		Thunderstorm Wind (G52)
									Severe thunderstorm winds estimated at 60 mph blew tree limbs down on power lines.
Clay County									
Henrietta	16	2115CST			0	0	5K		Thunderstorm Wind
									Two trees were uprooted by severe winds, one of which landed on a car.

Storm Data and Unusual Weather Phenomena

June 1997

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, Western North

Summary of events of June 16, 1997:

During the evening of the 16th, severe thunderstorms moved eastward from west Texas into north Texas, producing large hail, widespread reports of wind damage, and two tornadoes in the western part of north Texas.

The two tornadoes, both resulting in damage and rated F1, occurred in Wichita County southeast of Burkburnett and in Clay County in the Charlie area. The first tornado was on the ground in Wichita County for about 3/4 mile and the second in Clay County for about 6.5 miles. A damage survey was conducted by a National Weather Service meteorologist on the 17th, the day after the storm. Both radar signatures and this survey indicated that the two tornadoes were produced by the same storm. See individual Storm Data entries on these tornadoes for further details.

While the tornadoes did produce significant structural damage, severe straight-line thunderstorm winds caused much more widespread damage across the region. Peak measured wind speeds reached 70 mph in Vernon in Wilbarger County and at Sheppard Air Force Base in Wichita County. Reports of structural damage came from Knox City in Knox County, Mankins in Archer County, Petrolia in Clay County, and Electra, Wichita Falls, and Burkburnett in Wichita County. Tree, limb, and power line damage was also reported in Quanah in Hardeman County, Vernon in Wilbarger County, Archer City in Archer County, and Henrietta in Clay County.

The largest reported hail fell near Lake Kemp in Baylor County, where hail reached the size of golf balls.

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

UTAH, North, Central and South

Washington County

Virgin	06	1440MST 1442MST		0	0	0	Thunderstorm Wind (G58)
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A spotter in the town of Virgin measured a wind gust to 67mph (58 knots) from a severe thunderstorm. Minor tree damage occurred.

Salt Lake County

8 W Magna	06	1450MST 1451MST		0	0		Funnel Cloud
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A funnel cloud was spotted over the eastern slopes of the Oquirrh Mountains by an off-duty forecaster. The cloud rapidly dissipated without incident.

Box Elder County

Promontory	09	0929MST		0	0		Funnel Cloud
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A ranger at the Golden Spike National Monument in Promontory reported a funnel cloud 1/2 mile south of the visitor center. The cloud lasted for 10 minutes but never touched the ground.

Weber County

Roy	10	0000MST 0700MST		0	0	60K	Flash Flood
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Over an inch of rain occurred in an hours time in weber county during the early morning. At least a dozen homes in the town of Roy experienced basement flooding. A 24-hour rain total of 2.05" was reported from a spotter in Roy.

Davis County

10 W Clinton	10	0900MST 0920MST		0	0		Funnel Cloud
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Several funnel clouds were reported over the eastern Great Salt Lake. The clouds lasted about 20 minutes and were photographed by the local public. None of the clouds touched down.

Wayne County

Caineville to Hanksville	10	1100MST 1210MST		0	0	15K	Hail (2.00)
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A severe thunderstorm developed in western Wayne county. A spotter in Caineville measured hailstones as large as 2" in diameter. This severe thunderstorm moved east into Hanksville about an hour later and dropped 1" diameter hail in that town. Some minor damage was reported in the area. Minor flooding was reported in a few businesses east of Hanksville on SR95 from this storm as well.

Salt Lake County

Salt Lake City	10	1240MST 1245MST		0	0	2K	Hail (1.00)
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A severe thunderstorm dropped 1" diameter hail from Beck Street into North Salt Lake.

Salt Lake County

8 SW Salt Lake City to Salt Lake City	10	1310MST 1340MST		0	0	15K	Hail (1.00)
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A severe thunderstorm tracked across the northern Salt Lake Valley. The storm began in West Valley City with 1" diameter hail.

Storm Data and Unusual Weather Phenomena

June 1997

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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UTAH, North, Central and South

It then tracked into downtown Salt Lake City where 3/4" hail was measured at 7th South & State Street. The last report of severe hail came from the University of Utah Meteorology Department where 1" diameter hail was again measured. There were a few reports of minor damage from this storm.

Carbon County

Price	10	1415MST 1445MST			0	0			Urban/Sml Stream Fld
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A strong thunderstorm caused heavy rain to fall in the town of Price. Street flooding occurred due to this heavy downpour. A spotter in Price measured 1.61" of rain on this date.

Tooele County

Grantsville	10	1500MST 1520MST			0	0	2K		Hail (0.75)
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A severe thunderstorm dropped 3/4" diameter hail in the town of Grantsville. Some tree damage occurred in the area.

Salt Lake County

Sugar House	10	1630MST 1710MST			0	0	10K		Urban/Sml Stream Fld
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Heavy rain fell in this 40 minute time span in the Sugar House area. Street flooding caused a low portion of Interstate-80 near 1300 East to temporarily close. Other minor street flooding occurred in the area. A spotter in Sugar House measured 1.24" of rain in this 40 minute time span.

Weber County

Harrisville to North Ogden	10	1730MST 1745MST			0	0	5K		Hail (1.00)
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A final severe thunderstorm moved through Weber County late in the afternoon. 1" diameter hail was measured in Harrisville and 3/4" diameter hail fell in North Ogden.

Salt Lake County

8 E Cottonwood Hgts	10	1800MST 1900MST			0	0	30K		Heavy Rain
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Heavy rain later caused problems in Big Cottonwood Canyon. The runoff caused the main roadway to be undermined. This forced a 9 hour closure of the road well into the night.

Sanpete County

Gunnison	10	1800MST 1900MST			0	0	20K		Urban/Sml Stream Fld
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Heavy rain caused flooding at the state prison in Gunnison causing some damage. A nearby spotter measured 1.38" of rain on this date.

On this date an upper level low pressure system caused an outbreak of severe weather across the state. There were numerous reports of large hail. With a few severe thunderstorms microburst winds and flash flooding also occurred.

Tooele County

8 E (Dpg)Michael Aaf Dug	13	1310MST 1320MST			0	0			Funnel Cloud
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A funnel cloud was spotted 8 miles east of the Michael Airfield on the Dugway Proving Grounds by a military forecaster. The funnel was described as a "narrow rope" that never touched the ground.

Emery County

3 W Ferron	14	1050MST 1055MST			0	0			Hail (0.75)
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A severe thunderstorm put down 3/4" hail on the Millsite Golf Course just west of Ferron.

Utah County

Pleasant Grove	18	1732MST 1737MST			0	0	2K		Hail (0.75)
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A severe thunderstorm moved through Utah County. A spotter in Pleasant Grove measured 3/4" hail from this storm.

UTZ003>005-015>016

Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Great Salt Lake Desert And Mountains/Wendover/Snowville - West Central Utah/Delta - Southwest Utah/Cedar City/Milford

	30	1500MST 2000MST			0	0	45K		High Wind (G70)
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A vigorous dry cold front swept through Utah resulting in a very windy day. High winds occurred in several locations in western Utah. Most of the state experienced windspeeds from 15-30 mph with gusts to 50 mph. The surface pressure gradient was strong both ahead of and behind the cold front. 2 semis were blown over near Wendover. A dock at the Saltair Marina received extensive damage. Downed power lines caused numerous power outages. There were numerous reports of tree damage across the state. Several small wildfires spread rapidly due to the Red Flag wind conditions. Some of the higher peak wind gusts reported were: 81 mph (70 knots) at the Saltair Marina, 70 mph (61 knots) in American Fork, 65 mph (56 knots) in Magna, 62 mph (54 knots) at both the Wendover Airport and the Brimstone Reservoir RAWS in southcentral Beaver county, and 60 mph (52 knots) in Delta.

UTAH, Northeast

NONE REPORTED.

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June 1997

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UTAH, Northeast

VERMONT, North and Central

Chittenden County

Hinesburg	22	1820EST 1845EST			0	0	5K		Thunderstorm Wind
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A cold front moved across Vermont Sunday afternoon and night (June 22, 1997). Thunderstorms developed along and following the front with heavy rain, some hail and damaging winds with a few storms.

In Chittenden County...South Burlington VT reported 3/4 inch hail at 625 PM EST while Hinesburg, VT reported trees uprooted at at 640 PM EST.

Chittenden County

South Burlington	22	1825EST			0	0			Hail (0.75)
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Addison County

Middlebury	22	1855EST 1910EST			0	0	10K		Thunderstorm Wind
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A cold front moved across Vermont Sunday afternoon and evening (June 22, 1997). Thunderstorms developed along and following the front with heavy rain and damaging winds with a few of the storms.

In Addison County...Trees and power lines were blown down in New Haven, VT and in Middlebury, VT between 655 PM EST and 710 PM EST.

Addison County

New Haven	22	1855EST 1905EST			0	0	5K		Thunderstorm Wind
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Washington County

Northfield	22	1910EST 1915EST			0	0	10K		Thunderstorm Wind
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A cold front moved across Vermont Sunday afternoon and evening (June 22, 1997). Thunderstorms developed along and following the front with heavy rain and damaging winds with a few of the storms.

In Washington County...Trees were blown down in Northfield, VT at approximately 710 pm EST.

Orange County

Randolph Center	22	1910EST 1925EST			0	1	15K		Thunderstorm Wind (G56)
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A cold front moved across Vermont Sunday afternoon and evening (June 22, 1997). Thunderstorms developed along and following the front with heavy rain and damaging winds with a few of the storms.

In Orange County...An individual was injured in Randolph Center due to a tree limb being blown down and striking them in the head. In addition, hundreds of trees were blown down and/or uprooted in Randolph Center with a silo damaged. Winds were estimated at 56 knots.

In Tunbridge, VT an historic covered bridge was damaged when a tree was blown down on the bridge. Trees were also blown down in Strafford, VT.

Orange County

Strafford	22	1910EST 1925EST			0	0	5K		Thunderstorm Wind
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Orange County

Tunbridge	22	1910EST 1925EST			0	0	2K		Thunderstorm Wind
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Chittenden County

Williston	25	0750EST 0815EST			0	0	30K		Lightning
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Lightning struck a house in Williston, VT (Chittenden County) Wednesday morning (June 25, 1997). Extensive roof and structural damage resulted.

Caledonia County

Lyndon	26	2135EST 2145EST			0	0	5K		Thunderstorm Wind
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A cold front moved across Vermont during Thursday afternoon and night (June 26, 1997). Scattered thunderstorms accompanied the front, some with very heavy rain and small hail.

A severe thunderstorm moved through the Lyndon Center, VT area at approximately 940 PM EST with trees and power lines

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June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Extreme Southwest</u>									
Lee County									
Caylor	02	1845EST			0	0			Hail (1.00)
Scott County									
Countywide	13	1830EST			0	0	12K	7K	Thunderstorm Wind
									Trees and powerlines down throughout county.
Washington County									
Countywide	13	1930EST			0	0	19K	6K	Thunderstorm Wind
									Trees and powerlines down throughtout the county.
Scott County									
Countywide	13	1935EST			0	0		16K	Thunderstorm Wind
									Trees down across county.
<u>VIRGINIA, North</u>									
Fairfax County									
Newington	13	1215EST			0	1	40K		Lightning
									Lightning struck and injured a man in the Newington area, causing minor burns on his chest. Two nearby homes had fires which were ignited by lightning strikes.
Shenandoah County									
3 SW Wheatfield to 2.5 SW Wheatfield	18	1520EST	0.4	30	0	0	1K		Tornado (F1)
Shenandoah County									
North Portion	18	1525EST 1540EST			0	0	2K	1K	Thunderstorm Wind
Frederick County									
South Portion	18	1530EST 1540EST			0	0	8K	4K	Thunderstorm Wind
Frederick County									
Stephens City	18	1530EST 1540EST			0	0	60K		Lightning
Frederick County									
4 WSW Dbl Tollgate to 1 WSW Dbl Tollgate	18	1542EST 1549EST	3	30	0	0	4K	2K	Tornado (F0)
Warren County									
North Portion	18	1545EST			0	0	4K	2K	Thunderstorm Wind
Clarke County									
South Portion	18	1555EST 1607EST			0	0	5K	4K	Thunderstorm Wind
Clarke County									
3 S Berryville to 2.7 S Berryville	18	1602EST	0.3	25	0	0	2K	1K	Tornado (F0)
Fauquier County									
North Portion	18	1610EST 1620EST			0	0	1K	2K	Thunderstorm Wind
Loudoun County									
Unison	18	1610EST			0	0	5K		Lightning
Loudoun County									
Mountville to Oatlands	18	1618EST 1625EST	4	30	0	0	2K	1K	Tornado (F0)
Loudoun County									
South Portion	18	1620EST 1630EST			0	0	1K	2K	Thunderstorm Wind
Loudoun County									
Sterling	18	1630EST			0	0	30K		Gusty Wind

Damage in Wheatfield was confined to a heavily wooded rural area, where 20 trees were snapped or uprooted along a narrow but distinctive path. Winds were estimated to be around 80 mph. It was the first tornado ever reported in the county; perhaps partially

Storm Data and Unusual Weather Phenomena

June 1997

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

VIRGINIA, North

due to a NWS survey team locating the damage. The twister lifted along the county line, later seen as a funnel near Stephens City (Frederick Co) before dissipating. The second small tornado touched down east of Klins Corner in southeast Frederick Co. Five trees were downed on one farm, and damage was spotty along a 3-mile path to Double Church Road just southwest of Double Tollgate. A spotter had previously reported a touchdown near this area. Most of the damage was to trees, though some minor roof and fence damage was observed along and near Double Church Road.

In Clarke Co, a third tornado touched down just south of Berryville. Minor damage was noted to a roof and shingles at a house; an electric garage door was damaged as well. A circular pattern was noted in the tall grass and in branches that had broken off nearby trees. Some tomato stakes and cages were pulled up and tossed. A fourth (small) tornado path was found from Mountville to Oatlands in western Loudoun Co. Large branches were snapped and some trees were uprooted on a narrow path along Lime Kiln Road.

Scattered tree damage was noted elsewhere across the six-county area, including the towns of Reliance (Warren Co), Middletown and Stephens City (Frederick Co), Upperville (Fauquier Co), White Post and Berrys (Clarke Co), and from Middleburg to Arcola (Loudoun).

Farther east, a steel-framed fire hall, still under construction, collapsed when a near-severe thunderstorm wind gust passed through Sterling (Loudoun Co). Approximately 150 wooden trusses supporting the frame initially fell. A home in the nearby Cascades subdivision had a deck collapse. However, the deck was found to have been improperly anchored to the ground (e.g., not according to specifications). Based on the above evidence, and the fact that only two small trees were reported down near the fire center, wind speeds were estimated to be just under severe criteria.

Lightning struck and killed two horses at a farm just north of Unison. Earlier, lightning struck a home in Stephens City, causing \$60,000 in structural damage, mainly to the roof.

Frederick County

S Portion

18	1645EST 2000EST			0	0				Flash Flood
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Shenandoah County

N Portion

18	1700EST 2000EST			0	0				Flash Flood
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Warren County

N Portion

18	1700EST 2000EST			0	0				Flash Flood
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Clarke County

S Portion

18	1715EST 2000EST			0	0				Flash Flood
----	--------------------	--	--	---	---	--	--	--	--------------------

Three torrential-rain producing training thunderstorms caused flash flooding of creeks and streams in a portion of the northern Shenandoah Valley. At the Shenandoah/Frederick Co line local route 622 was closed along the Cedar Creek. Additional flooding was reported in Frederick Co at the Lakeside Estates near Stephens City, and Mine Bank Road was under water west of Middletown. Other evidence of flash flooding such as mud, stones, and debris that had washed over roads was noted during the damage surveys in southern Clarke Co and northern Warren Co.

Fairfax County

Great Falls

18	1705EST 1716EST			0	0				Hail (0.88)
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Fairfax County

Great Falls

18	1705EST 1716EST			0	0	30K			Thunderstorm Wind
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A heavy-precipitation supercell, tracking east from the Shenandoah Valley, produced wind gusts estimated at 60 mph and hail the size of nickels in Great Falls. Numerous large limbs were knocked down, some onto wires. A few small trees were uprooted. Virginia Power reported at least 7000 customers were without power at the peak of the storm. The microburst continued across the Potomac River into southern Montgomery Co Maryland.

King George County

Dahlgren

18	1845EST			0	0	10K			Thunderstorm Wind
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A developing squall line near the tidal Potomac River produced a downburst which knocked several tree limbs into power lines in Dahlgren.

Frederick County

2 S Welltown to Stephenson

26	1315EST 1322EST			0	0	250K	10K		Thunderstorm Wind (G75)
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Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VIRGINIA, North</u>									
Clarke County									
Boyce	26	1340EST			0	0	1K		Thunderstorm Wind
Madison County									
Roswell	26	1410EST			0	0	5K		Thunderstorm Wind
Loudoun County									
Leesburg	26	1415EST 1430EST			0	0	20K		Thunderstorm Wind
Fauquier County									
N Portion	26	1430EST 1500EST			0	0	20K		Lightning
Arlington County									
Countywide	26	1445EST 1450EST			0	0	3K		Thunderstorm Wind (G53)
Fairfax County									
Dranesville	26	1510EST 1515EST			0	0	5K		Thunderstorm Wind

A pre-frontal squall line moving into very unstable air produced several instances of straight-line wind damage, including some from in-storm downbursts and others along the gust front. The most intense damage occurred early in the event, in northeast Frederick Co. A strong downburst, containing estimated winds of 80 to 100 mph, produced a swath of damage approximately 1 mile wide and 4 miles long between Welltown and Stephenson.

The heaviest structural damage occurred with the onset of the downburst at an industrial park located just north of the intersection of interstate 81, federal highway 11 and state route 37. Damage at the park included one steel-frame building (under construction) which collapsed, and minor damage to several other buildings. The downburst raced into nearby forested areas, where heavy damage was sustained (numerous trees were uprooted or snapped) and some utility poles were felled. Thereafter, four residential homes sustained roof damage, with two declared uninhabitable. One large barn collapsed, as did three large sheds. Two mobile homes shifted off their moorings. A total of 50 structures sustained minor to major damage, including siding, gutters, windows, and roofs. Additional tree damage, including one onto a car, occurred in nearby Stephenson before the downburst dissipated.

Other tree damage was reported in Madison and Clarke Cos. In Madison Co, trees were down across state route 231 near Roswell. Several trees fell in northern Clarke Co along local route 611. In northern Fauquier Co, power outages were fairly widespread - a result of lightning striking several transformers. In Arlington Co, a fallen tree blocked the intersection of Glebe and Chain Bridge roads. A local wind sensor recorded a gust of 62 mph at Thomas Jefferson High School.

The line weakened as it travelled east, but still produced widespread (though scattered) tree and wire damage. Dozens of large limbs were knocked down in central Loudoun Co, with Leesburg particularly hard hit. Two large (30 lb.) planters were blown off a residence's deck in Leesburg, and a work scaffold was blown down at an under construction building in Sterling. In northwest Fairfax Co, several trees and large limbs were downed at the intersection of Holly Knoll Road and state route 7 near Dranesville. At least two of the trees had to be cleared from the roadway. Virginia Power reported 6700 customers were without power during the height of the storm in the Leesburg area. For their entire northern Virginia district, an estimated 17,300 customers were powerless.

VIRGINIA, Northwest

Buchanan County									
Oakwood	13	1753EST			0	0	5K		Thunderstorm Wind
									Several trees were knocked down.
Buchanan County									
Prater	13	1758EST			0	0	2K		Thunderstorm Wind
									Fallen trees blocked Route 83.
Dickenson County									
1 NW Haysi	13	1800EST			0	0	2K		Thunderstorm Wind
									Trees were blown down across Route 613.

VIRGINIA, Southwest

Roanoke County									
1 ENE Bennett Spgs to Bennett Spgs	01	1400EST 1530EST			0	0	20K		Flash Flood

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Southwest</u>									
Alleghany County Countywide	01	1415EST 1600EST			0	0	2K		Flash Flood
Covington (C) Covington	01	1415EST 1600EST			0	0	3K		Flash Flood
Roanoke County 5 NNW Cave Spg	01	1415EST 1515EST			0	0			Flash Flood
Alleghany County Jordan Mines	01	1435EST 1530EST			0	0			Flash Flood
Botetourt County Fincastle	01	1500EST 1630EST			0	0			Flash Flood
Botetourt County 6 E Buchanan	01	1515EST 1600EST			0	0	5K		Flash Flood
Rockbridge County Countywide	01	1650EST 2100EST			0	0	200K		Flash Flood
Roanoke (C) Roanoke	01	2215EST 2300EST			0	0			Flash Flood
Heavy rainfall during the afternoon and evening hours on the 1st resulted in flash flooding.									
Runoff from rainfall resulted in several mudslides in Alleghany County, flooded several roads 5 miles north-northwest of Cave Spring, flooded roads and resulted in 4 to 5 inches of water in the police station in Covington, and flooded several roads near Jordan Mines in Alleghany County.									
In Rockbridge County, heavy rainfall flooded several creeks, a few homes, and the Glasgow fire station, stranded people, damaged roads, flooded basements, and resulted in evacuations. A tour group at Natural Bridge had to evacuate in knee deep water.									
Flash flooding damaged route 620, six miles east of Buchanan, flooded roads in and around Fincastle, and damaged roads and stranded people from one mile east-northeast of Bennett Springs to Bennett Springs. Peters Creek in Roanoke City was flooded as well.									
Grayson County Independence	02	1050EST			0	0			Hail (0.75)
Wythe County 6 W Patterson	02	1110EST			0	0			Hail (0.75)
Carroll County 2 W Byllesby	02	1140EST			0	0			Hail (1.00)
Carroll County 1 SW Woodlawn	02	1140EST			0	0			Hail (1.00)
Wythe County 2 NW Patterson	02	1150EST			0	0			Hail (1.75)
Wythe County Grahams Forge	02	1215EST			0	0			Hail (0.75)
Pulaski County Pulaski	02	1230EST			0	0	0.60K		Lightning
Wythe County 3 NNW Patterson	02	1230EST 1330EST			0	0	25K		Flash Flood
Pulaski County Pulaski	02	1250EST 1350EST			0	0			Flash Flood
Montgomery County Christiansburg	02	1322EST			0	0			Hail (0.75)
Montgomery County 2 NNE Blacksburg	02	1355EST			0	0			Hail (0.75)

Thunderstorms during the morning and afternoon hours on the 2nd produced hail up to golf ball size, damaging lightning, and

Storm Data and Unusual Weather Phenomena

June 1997

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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VIRGINIA, Southwest

flash flooding.

A lightning strike destroyed two transformers in Pulaski.

Heavy rainfall flooded some roads in Pulaski and damaged roads and fences and washed a vehicle a considerable distance downstream 3 miles north-northwest of Patterson.

Franklin County

Rocky Mt

02	1830EST				0	1			Lightning
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A lightning strike slightly injured a person in a parking lot in Rocky Mount.

Bland County

Pumpkin Center

20	1700EST 1930EST				0	0	50K		Flash Flood
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Heavy rainfall during the evening hours on the 20th near Pumpkin Center washed out portions of roads, flooded a barn, and washed fences and a mailbox away.

Salem County

Salem

21	1530EST 1745EST				0	0			Flash Flood
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Roanoke (C)

Roanoke

21	1610EST 1615EST				0	0	0		Thunderstorm Wind
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Salem County

Salem

21	1610EST 1615EST				0	0	0		Thunderstorm Wind
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Thunderstorms during the late afternoon hours on the 21st produced damaging winds and flash flooding.

Thunderstorm winds downed numerous trees in Roanoke and Salem.

Heavy rainfall resulted in flooding of creeks and streams in Salem.

Floyd County

4 SSW Shelors Mill

25	1400EST				0	0	20K		Lightning
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Franklin County

Redwood

25	1410EST				0	0			Hail (0.75)
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Pittsylvania County

5 NNW Sandy Level

25	1500EST				0	0			Hail (0.75)
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Franklin County

Wirtz

25	1508EST				0	0	10K		Lightning
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Franklin County

5 N Union Hall

25	1515EST				0	0	250K		Lightning
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Franklin County

4 W Rocky Mt

25	1545EST				0	0	7K		Lightning
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Thunderstorm winds during the afternoon hours on the 25th produced hail up to dime size and damaging lightning.

Lightning started a fire in a house and a boat dock on Smith Mountain Lake about five miles north of Union Hall. A total of 11 watercraft and one boat house were destroyed.

Lightning started a fire that destroyed a barn and killed five horses four miles south-southwest of Shelors Mill.

Lightning started a fire in the attic of a house in Wirtz and in the bedroom of a house four miles west of Rocky Mount..

Floyd County

Copper Hill

26	1540EST				0	0			Hail (0.75)
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Lynchburg (C)

Lynchburg

26	1640EST				0	0	0		Thunderstorm Wind
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Bedford (C)

Bedford

26	1645EST				0	0	0		Thunderstorm Wind
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Roanoke (C)

Roanoke

26	1700EST				0	0	0		Thunderstorm Wind
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Halifax County

Nathalie

26	1740EST				0	0	8K		Lightning
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Thunderstorm winds during the late afternoon and early evening hours on the 26th produced damaging winds, hail up to dime size, and damaging lightning.

Storm Data and Unusual Weather Phenomena

June 1997

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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VIRGINIA, Southwest

Thunderstorm winds knocked down numerous trees and broke off tree limbs in the vicinity of Irvin Spring Park in Lynchburg, knocked a six inch diameter tree limb onto power lines in Bedford, and toppled a six inch diameter tree in Roanoke.

Lightning started a fire in a barn near Nathalie.

WASHINGTON, Northeast

Okanogan County									
Omak	11	1600PST			0	0	0	0	Flood
FLOODING IN OMAK AND MUDSLIDES ON SR97 IN OMAK									
Chelan County									
Entiat	17	1635PST			0	0	0	0	Flood
FLOODING AND MUDSLIDES ON SR97A IN ENTIAT									
Chelan County									
Chelan	21	1147PST			0	0	0	0	Hail (0.75)
3/4 INCH HAIL									
Chelan County									
Chelan	21	1154PST			0	0	0	0	Hail (1.00)
1 INCH HAIL									
Chelan County									
Chelan	21	1213PST			0	0	0	0	Hail (0.75)
3/4 INCH HAIL IN CHELAN									
Chelan County									
Chelan	21	1215PST			0	0	0	0	Hail (1.00)
1 INCH HAIL IN CHELAN									
Chelan County									
10 N Chelan	21	1216PST			0	0	0	500K	Hail (0.75)
3/4 INCH HAIL TURNED GROUND WHITE. 500 ACRES OF APPLES AND CHERRIES DAMAGED									
Spokane County									
Spokane	30	1600PST			0	0	2K	0	Lightning
LIGHTNING CAUSED FIRE DAMAGED GARAGE									
Pend Oreille County									
Cusick	17	1525PST			0	0	0	0	Hail (3.00)
3 inch hail...estimated wind gust at 60 mph									
Stevens County									
Kettle Falls	17	1755PST			0	0	0	0	Hail (1.00)
1 inch hail									
Stevens County									
Colville	17	1830PST			0	0	0	0	Hail (1.00)
1 inch hail									
Spokane County									
Spokane	30	1830PST			0	0	0	0	Tstm Wind/Hail
1.2 inches of rain in 1 hour.									

WASHINGTON, Northwest

King County									
Redmond	03	1500PST 1503PST			0	0			Funnel Cloud
A spotter observed a small funnel cloud.									
Whatcom County									
Lynden	21	1600PST			0	0			Funnel Cloud
Thunderstorms were reported in the Lynden and Blaine areas throughout the day, one thunderstorm reportedly contained a funnel cloud.									

WASHINGTON, Southeast

WAZ028									
Lower Columbia Basin									
	12	0700PST			0	0			Flood
	20	1500PST							
City crews hauled fill dirt in to keep flood waters away from a pumping station. Boat ramps in both Kennewick and Richland were closed because of high water.									

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
WEST VIRGINIA, West									
Raleigh County									
Western Portion	01	1830EST 2200EST			2	0	200K		Flash Flood
									Rains of 2.5 to 3.5 inches fell over the mountainous terrain in less than 3 hours. A coal mine along Clear Fork reported a total of 3.4 inches of rain. Flooding was most serious in the Clear Creek to Artie vicinity, including Toney Fork, Workman Creek, White Oak Creek, and Clear Fork. A 34 year old woman and a 15 year old male neighbor drowned. They were on their way home from Sunday evening church services. Within 100 yards of their homes in Artie, they slipped into White Oak Creek, when the bank gave way. Further south, near Saxon and Bolt, Breckenridge Creek washed out portions of a county road. The concentrated storms were moving from southeast to northwest, missing the larger towns in the county. For example, only a few hundredths of an inch of rain fell around Beckley. F34OU, M15OU
Wyoming County									
Glen Rogers to Ravencliff	01	1830EST 2200EST			0	0	450K		Flash Flood
									Waters from Laurel Fork rose as high as 3 feet into homes, the elementary school, and the post office in Glen Rogers. The sewage treatment plant was damaged. A few mobile homes were swept off their foundations. A total of 34 homes, 20 vehicles, and 7 private bridges were damaged.
Boone County									
Racine to Ashford	01	1930EST 2130EST			0	0	25K		Flash Flood
									Small creeks and runs, that drain into the Big Coal River, damaged roads with water and mud.
Wood County									
Parkersburg	01	2000EST 2200EST			0	0	50K		Flash Flood
									Small streams, in and around the city, damaged 10 homes and 6 businesses. The 24 hour rainfall total at Parkersburg was 3 inches.
McDowell County									
War to Welch	01	2015EST 2200EST			0	0	10K		Flash Flood
Roane County									
Peniel	01	2015EST 2200EST			0	0	3K		Flash Flood
									The Middle Fork of Reedy Creek overflowed and blocked roads.
Putnam County									
Lanham	01	2100EST 2230EST			0	0	3K		Flash Flood
Lincoln County									
Garretts Bend to Alum Creek	01	2110EST 2300EST			0	0	150K		Flash Flood
									Creeks east of the divide at Sumerco flooded. One such stream was Hayzlett Fork. Twenty homes, 1 small business, 12 vehicles, and 2 private bridges were damaged.
Upshur County									
3 SW Buckhannon	02	1245EST			0	0			Hail (1.00)
									Quarter size hail fell near Stonecoal Lake.
Gilmer County									
Glenville	02	1340EST			0	0			Hail (0.75)
Barbour County									
Hall	02	1400EST			0	0			Hail (0.88)
Upshur County									
White Oak to Hodgesville	02	1400EST 1800EST			0	0	25K		Flash Flood
									Rains of 2.5 to 3.5 inches fell in less than 3 hours, mainly over Hackers Creek. One mobile home was washed down the creek.
Barbour County									
Volga	02	1500EST 1730EST			0	0	5K		Flash Flood
									Wash Run and Big Run Creek flooded.
Lewis County									
Berlin to Jane Lew	02	1500EST 2100EST			0	0	15K		Flash Flood
									Flooding first occurred around Berlin on Hackers Creek, Buckhannon Run, and Laurel Lick. One trailer was washed off its foundation. Later, Jesse Run flooded roads near the interstate.

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, West									
Ritchie County									
Burnt House	02	1500EST 1700EST			0	0	3K		Flash Flood
		Grassy Run Creek overflowed.							
Gilmer County									
Countywide	02	1515EST 1715EST			0	0	15K		Flash Flood
		Stewart Creek and Gluck Run flooded roads and caused mudslides. Sand Fork flooded around Dunlah. Tanner Creek damaged Route 7 between Tanner and Newberne.							
Nicholas County									
Birch River	02	1530EST 1700EST			0	0	5K		Flash Flood
		The headwaters of the Birch River flooded secondary roads.							
Upshur County									
Buckhannon	02	1530EST			0	0			Hail (1.00)
Kanawha County									
Island Branch	02	1600EST			0	0	1K		Thunderstorm Wind
		About a half dozen trees were blown down.							
Pleasants County									
Belmont to Schultz	02	1615EST 1800EST			0	0	25K		Flash Flood
		French Creek, Cow Creek, Henry Camp Run caused minor flooding to basements and roads. A few evacuations occurred in the Schultz vicinity.							
Putnam County									
Buffalo	02	1645EST			0	0			Hail (1.25)
Jackson County									
Sandyville	02	1700EST 1900EST			0	0	5K		Flash Flood
		The Left Fork of Sandy Creek closed Route 21.							
Kanawha County									
Island Branch	02	1700EST 1900EST			0	0	3K		Flash Flood
Roane County									
Kettle to Cicerone	02	1700EST 1900EST			0	0	5K		Flash Flood
		Small streams flooded roads and caused mudslides.							
Kanawha County									
Charleston	02	1724EST			0	0			Hail (0.75)
Pocahontas County									
Watoga	02	1730EST 2100EST			0	0	50K		Flash Flood
		Island Lick Run flooded Watoga State Park. Overnight visitors were moved out of some cabins and campgrounds. Small road and foot bridges were destroyed and roads damaged. The pool was filled with mud. The park closed for the clean-up operation. On the northern border of the park, Beaver Creek damaged private property, like fencing.							
Tyler County									
Wick to Meadville	02	1730EST 2000EST			0	0	20K		Flash Flood
		Sugar Creek flooded about 9 homes.							
Wayne County									
Dunlow	02	1800EST			0	0			Hail (0.75)
Wayne County									
1 E Dunlow	02	1930EST 2100EST			0	0	10K		Flash Flood
		Big Branch flooded roads and private property .							
Doddridge County									
Oxford to Leopold	13	1345EST 1350EST			0	0	3K		Thunderstorm Wind
		Roads were blocked by fallen trees.							

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>WEST VIRGINIA, West</u>									
Ritchie County 2 SW Harrisville to 2 E Pullman	13	1345EST			0	0	10K		Thunderstorm Wind
Near Harrisville, a roof to an old barn was picked-up and blown across Route 31, while trees were uprooted in the vicinity. Trees fell across Route 9 between Pullman and Oxford.									
Kanawha County Miami	13	1525EST			0	0			Hail (0.75)
Fayette County Powellton	13	1531EST			0	0			Hail (0.75)
Taylor County 3 NW Grafton	18	1325EST			0	0	3K		Thunderstorm Wind
Many large tree branches were blown down, near the Marion County line and Valley Falls State Park.									
Fayette County Garten	23	1500EST			0	1			Lightning
A man was struck while in his back yard.									
Taylor County Irontown to 2 N Grafton	26	1130EST 1300EST			0	0	25K		Flash Flood
Wirkwire Run and Laurel Run flooded 3 homes. The sheriff department reported one elderly woman was evacuated by boat along Wirkwire Run. A rain gauge near Laurel Run measured 3.5 inches of rain in about 4 hours.									
Logan County Yolyn to Crites	26	1530EST 1730EST			0	0	8K		Flash Flood
Buffalo and Rum Creeks flooded roads and residential property. A rain gauge near Crites measured 3.2 inches of rain in less than 3 hours.									
<u>WISCONSIN, Extreme Southwest</u>									
NONE REPORTED.									
<u>WISCONSIN, Northeast</u>									
WIZ030 Marathon	08	1500CST			0	3			Strong Wind
Gusty winds to 30 mph blew a large tent into 3 spectators at a motorcycle hill climb in the town of Birch.									
Marathon County Fenwood	11	1515CST			0	0			Hail (1.00)
Lincoln County Doering	11	1610CST			0	0			Hail (1.75)
Langlade County Deerbrook	11	1630CST			0	0			Hail (1.50)
Isolated thunderstorms dropped hail up to golfball size over north-central Wisconsin.									
Oneida County Rhineland	15	1500CST 1900CST			0	0			Heavy Rain
More than four inches of rain fell in the Rhineland area causing momentary flooding. Several culverts were washed out, as were shoulders of roads. Some basements were also flooded.									
Winnebago County Oshkosh	15	1645CST			0	0	1K		Lightning
Lightning struck a large tree in Oshkosh, sending a branch through a second-story window of a house. Another branch crushed a portion of a metal fence on the property. Power failures were also reported in the area.									
Wood County Vesper	15	1700CST			0	0			Thunderstorm Wind (G56)
A thunderstorm produced a wind gust to 64 mph near Vesper in Wood county.									
Calumet County New Holstein	21	0100CST			1	0			Lightning
A 21 year old man was killed early in the morning when he was struck by lightning while taking a short work break from his job. He was observing the storm from the roof-top of his place of work when he was struck. He died instantly of electrocution. M21BU									
Wood County Dexterville	24	1510CST			0	0	1K		Thunderstorm Wind
Wood County 5 S Wisconsin Rapids	24	1510CST			0	0	1K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Wood County 2 S Pittsville	24	1513CST			0	0	1K		Thunderstorm Wind (G51)
Wood County Marshfield	24	1515CST			0	0	1K		Thunderstorm Wind (G51)
Waushara County 10 S Wautoma	24	1525CST			0	0	1K		Thunderstorm Wind
Portage County Stevens Pt	24	1530CST			0	0	1K		Thunderstorm Wind
Waushara County Wild Rose to Saxeville	24	1530CST			0	0	1K		Thunderstorm Wind
Marathon County 5 S Stratford	24	1532CST			0	0	1K		Thunderstorm Wind
Portage County Amherst to 6 S Amherst	24	1535CST			0	0	1K		Thunderstorm Wind
Waupaca County Waupaca	24	1546CST			0	0	2K		Thunderstorm Wind (G65)
Waupaca County Clintonville	24	1610CST			0	0	1K		Thunderstorm Wind
Shawano County Wittenberg	24	1615CST			0	0	1K		Thunderstorm Wind
Lincoln County Tomahawk	24	1620CST			0	0	1.5K		Thunderstorm Wind
Langlade County Antigo	24	1625CST			0	0	1K		Thunderstorm Wind
Shawano County Gresham	24	1625CST			0	0	1K		Thunderstorm Wind
Menominee (C) Keshena	24	1627CST			0	0	1K		Thunderstorm Wind
Oneida County Rhineland	24	1644CST			0	0	1K		Thunderstorm Wind
Langlade County Langlade	24	1651CST			0	0	1K		Thunderstorm Wind
Oconto County Mountain	24	1654CST			0	0			Thunderstorm Wind (G51)
Calumet County 1 W Kiel	24	1710CST			0	0	2K		Thunderstorm Wind
Manitowoc County Kiel	24	1711CST			0	0	1K		Thunderstorm Wind
Marinette County 5 E Dunbar	24	1720CST			0	0	1K		Thunderstorm Wind
Manitowoc County 1 NW St Nazianz	24	1725CST			0	0	10K		Thunderstorm Wind
Manitowoc County St Nazianz	24	1725CST			0	0	2K		Thunderstorm Wind
Calumet County Sherwood	24	1730CST			0	0	1K		Thunderstorm Wind
Manitowoc County Cato	24	1737CST			0	0	1K		Thunderstorm Wind
Kewaunee County 2 W Kewaunee	24	1801CST			0	0	1K		Thunderstorm Wind

Severe thunderstorms rapidly moved across much of central and northeast Wisconsin during the afternoon and early evening of June 24. Numerous trees and power lines were blown down across the area by winds gusting as high as 75 mph. Trees were reported down in Dexterville and around Wisconsin Rapids (Wood county). A couple of trees fell on top of houses in Stevens Point, Plover and around Amherst (Portage county). Heavy tree damage was reported across Waushara county, particularly in Saxeville and Wild Rose. A large willow tree fell on top of the Wild Rose Hotel. Power lines and tree branches were blown down in Stratford (Marathon county). In Waupaca county, the strong winds damaged a camper and downed numerous trees at Hartman Creek State Park. Over 3000 customers were without power as the winds blew trees down over power lines near Tomahawk

Storm Data and Unusual Weather Phenomena

June 1997

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

WISCONSIN, Northeast

(Lincoln county) and Rhinelander (Oneida county). Trees were also blown down in Langlade (Langlade county) and a 60 mph gust was recorded in Mountain (Oconto county).

The most severe damage occurred around St Nazianz in Manitowoc county. A narrow path of damage, caused by a microburst, was identified. Trees, utility poles and some damage to structures occurred in the damage path. Trees were also felled around Kiel (Calumet and Manitowoc counties), Sherwood (Calumet county) and Cato (Manitowoc county) as well. As the storm moved southeast, it blew trees down near Kewaunee (Kewaunee county).

Oneida County

Minocqua	28	1706CST 1715CST			0	0	2K		Hail (1.75)
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Vilas County

2 NW Sayner	28	1720CST			0	0	1K		Thunderstorm Wind
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Lincoln County

Tomahawk	28	1750CST			0	0			Hail (0.75)
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Lincoln County

Harrison	28	1825CST			0	0			Thunderstorm Wind (G51)
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Isolated thunderstorms developed late in the afternoon and produced hail and strong winds over north-central Wisconsin. Golfball-sized hail damaged a car roof and windows in Minocqua (Oneida county). Hail fell in the area for nearly 10 minutes. Trees were blown down 2 miles northwest of Sayner (Vilas county), and 60 mph winds were recorded near Tomahawk (Lincoln county) along with 3/4 inch hail. A second storm affected Lincoln county about a half-hour later, which blew down trees in Pine River and Harrison.

Brown County

Green Bay	29	1610CST			0	0	20K		Lightning
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Lightning set a duplex on fire on the east side of Green Bay.

Oneida County

Hazelhurst	30	0745CST			0	0	1K		Lightning
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A fire, caused by lightning, destroyed a small shed and an outhouse on the shores of Bear Lake in Hazelhurst.

WISCONSIN, Northwest

Burnett County

Grantsburg	28	1440CST			0	0			Thunderstorm Wind (G60)
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Strong thunderstorm winds ripped the roof off a manufacturing building and toppled many trees. Lightning started an electrical unit on fire. No dollar estimate of the damage was available. Wind speed is estimated.

WISCONSIN, Southeast

Sauk County

La Valle	15	1530CST			0	0	3K		Thunderstorm Wind
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Marquette County

4 ENE Oxford	15	1610CST			0	0	1K		Thunderstorm Wind
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Sauk County

North Freedom	15	1610CST 1625CST			0	0			Urban/Sml Stream fld
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Sauk County

Reedsburg	15	1610CST			0	0	1K		Thunderstorm Wind
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Iowa County

Dodgeville	15	1615CST			0	0	3K		Thunderstorm Wind
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Marquette County

6 SSE Glenoak	15	1615CST			0	0	1K		Thunderstorm Wind
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Green Lake County

1 W Green Lake	15	1620CST			0	0	3K		Thunderstorm Wind
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Sauk County

2 S Lake Delton	15	1620CST			0	0	1K		Thunderstorm Wind
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Sauk County

Spring Green to 8 NW Spring Green	15	1620CST 1640CST			0	0	15K		Thunderstorm Wind
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Dane County

Roxbury	15	1630CST			0	0	3K		Thunderstorm Wind
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Waukesha County

Chenequa	15	1630CST			0	1	3K		Thunderstorm Wind
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Dodge County

1 N Lowell	15	1645CST			0	0	1K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

June 1997

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									
Dane County									
Madison to Sun Prairie	15	1650CST 1705CST			0	0	20K		Thunderstorm Wind
Green County									
New Glarus	15	1700CST 2000CST			0	0			Urban/Sml Stream fld
Lafayette County									
Belmont	15	1710CST			0	0	1K		Thunderstorm Wind
Iowa County									
2 E Arena	15	1725CST			0	0	3K		Thunderstorm Wind
Lafayette County									
2.5 NE Lamont	15	1725CST			0	0	5K		Thunderstorm Wind
Iowa County									
1 SE Ridgeway	15	1800CST			0	0	3K		Thunderstorm Wind
Rock County									
2 N Milton	15	1817CST			0	0	1K		Thunderstorm Wind
Green County									
Attica	15	1830CST			0	0	2K		Thunderstorm Wind
Rock County									
Footville	15	2052CST			0	0	1K		Thunderstorm Wind
Rock County									
7 E Janesville	15	2110CST			0	0	1K		Thunderstorm Wind
Walworth County									
2 N Walworth to Delavan	15	2113CST 2135CST			0	0	5K		Thunderstorm Wind
<p>Several rounds of thunderstorms moved rapidly northeast through south central and southeast Wisconsin resulting in primarily wind damage to trees, tree limbs and power lines. In addition, a tree fell on a home in Sun Prairie (Dane Co.) and windows were blown out of a building on the UW campus in Madison. A porch was blown down at a residence northeast of Lamont (Lafayette Co.). Urban street flooding occurred in New Glarus due to 4.5 to 5.0 inches of rain in 3 hours. No damage was noted due to this flooding. Flag poles were bent and flags blown off in La Valle (Sauk Co.) besides the usual reports of large branches downed. In the Spring Green area a couple farm outbuildings and a residence were damaged. Strong thunderstorm winds split a large tree in in Chenequa (Waukesha Co.) which then fell on a residents porch and injured a woman. Intense rainfall also resulted in urban street flooding in North Freedom (Sauk Co.).</p>									
Columbia County									
1 E Wisconsin Dells	15	1555CST			0	0	3K		Thunderstorm Wind
Columbia County									
5 N Pardeeville	15	1625CST			0	0	3K		Thunderstorm Wind
Columbia County									
3 W Lodi	15	1655CST			0	0	2K		Thunderstorm Wind
Columbia County									
10 W Columbus	15	1715CST			0	0	2K		Thunderstorm Wind
<p>Two different rounds of severe storms caused damage in Columbia county. Trees, tree limbs and power lines were downed near the Dells, near Pardeeville, west of Columbus, and west of Lodi.</p>									
Dane County									
Sun Prairie	15	2130CST			0	0	0.20K		Lightning
<p>Lightning splintered 2 trees with debris damaging a nearby home's porch lattice, front door, and patio door window.</p>									
Lafayette County									
1 E Darlington	15	2340CST			0	0	10K		Lightning
<p>Lightning struck a home's roof, igniting a fire that damaged the roof and attic areas. In addition, there was water and smoke damage to the upper portion of the home.</p>									
Rock County									
Evansville	20	0735CST			0	0			Hail (1.00)
Green County									
1 N Clarno	20	1745CST			0	0			Hail (0.75)
Lafayette County									
South Wayne	20	1805CST			0	0	5K		Thunderstorm Wind
<p>Thunderstorm winds downed large trees in S. Wayne. One tree fell on a home, resulting in roof damage.</p>									

Storm Data and Unusual Weather Phenomena

June 1997

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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WISCONSIN, Southeast

Waukesha County
1.5 SE Hartland to Hartland

20	2130CST				0 0	5K	Lightning
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Lightning struck a homes chimney ,sending pieces flying, damaging the roof and wiping out the utility lines to the home.

Kenosha County
Kenosha

20	2200CST				1 0		Lightning
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Victim was riding a bike in heavy rainfall when struck by lightning.
M19OU

Lafayette County
Benton

21	0215CST				0 0	3K	Thunderstorm Wind
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Iowa County
1 N Dodgeville

21	0240CST				0 0	1K	Thunderstorm Wind
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Waukesha County
Dousman

21	0344CST				0 0		Hail (0.88)
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Dane County
6 E Madison

21	0349CST				0 0	0.50K	Thunderstorm Wind
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Dane County
2 N Stoughton

21	0405CST				0 0	0.10K	Thunderstorm Wind
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Dane County
Marshall

21	0407CST				0 0	0.30K	Thunderstorm Wind (G58)
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Jefferson County
Lake Mills

21	0425CST 0435CST				0 0	3K	Thunderstorm Wind (G56)
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Waukesha County
Hartland

21	0530CST				0 0	0.50K	Thunderstorm Wind (G52)
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Waukesha County
1 E Sussex

21	0530CST				0 1		Lightning
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Lafayette County
Gratiot

21	0539CST				0 0	1K	Thunderstorm Wind
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Walworth County
East Troy

21	0700CST				0 0	2K	Thunderstorm Wind
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Early morning severe thunderstorms descended upon southern Wisconsin causing scattered tree and power line damage. One large hail report was noted in Dousman (Waukesha Co.). A 67 mph wind was reported at Marshall (Dane Co.). Lightning also played a role in the weather havoc when a young woman was struck at a charity track meet held at the Sussex Hamilton High School in Waukesha County. She was treated at a local hospital and released. In Walworth County trees were downed on a garage and sail boat in East Troy. Lowland flooding was reported near some of the lakes surrounding East Troy due to the heavy rains accompanying the thunderstorms.

Milwaukee County
Fox Pt to Milwaukee

21	0230CST 1200CST				0 0	78.7M 18K	Flash Flood
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Severe flash flooding occurred in Milwaukee county as a result of heavy rainfall amounts of up to nearly 10 inches over a 30 hour period ending about 1200CST. This flash flooding was greater than a "100 year rainfall" based on rainfall frequency maps. No one was injured or killed by the flood waters, thanks to superb rescue efforts by local law enforcement officials and firefighters. Firefighters in boats recued 20 people from their flooded homes. Besides public sector damage in county/city parks, there was widespread private and business damages. The hardest hit areas were the cities of Brown Deer, Wauwatosa, and the Piggsville, Lincoln Creek, Sherman Park, and Menomonee Valley areas of the city of Milwaukee. The earliest flash flooding occurred in Fox Point around 0230CST, with other northern Milwaukee County locations experiencing flash flooding after 0300CST. (On July 7th, Milwaukee county was officially declared a Federal Disaster Area, making county residents and business owners eligible for Federal disaster aid).

About 9600 homes in the county had minor damage, 137 with major damage, and 15 were destroyed.. Monetary value of reported residential damage was \$53.365 million. In the business sector, 7 had minor damage, 22 had major damage, and 3 were destroyed. Several hundred more businesses had some damage, but never reported it to county emergency managers. Total reported business losses were pegged at \$9.665 million. Three farms in the extreme southern part of the county reported flood damages of \$18,000. Public sector damages were \$1.451 for debris clearance, \$309,400 for protective measures, \$1.544 million for road systems, \$395,000 for water control, \$3.397 million for buildings, \$1.555 million for utilities, and \$7.0 million for "other." Total public sector damages were pegged at \$15.651 million..

Combining Milwaukee County and the surrounding counties in the metro area, about 25,000 customers lost electrical power due to damaged power lines... about 15,000 natural gas customers lost natural gas service... and about 4000 homes or businesses had their telephone service disrupted. Hundreds of people were forced from their homes until repairs or cleanups could be completed.

Storm Data and Unusual Weather Phenomena

June 1997

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

Basement flooding county-wide severely damaged or wiped out much personal property. Several hospitals were adversely affected either by lower floor flooding or the lose of electrical service. Many car dealerships and repair shops suffered much damage to new and used vehicles. At least 20 schools sustained major structural damage. Storm sewers simply could not keep up with the deluge and overflowed/backed up in many locations. Raw sewage from sanitary sewers backed up in thousands of homes. Raw sewage also made its way into Lake Michigan due to failure of sanitary swers. The loss of electrical service prevented the use of sump pumps, which compounded the flooding problems. In the days following this historical flood, the local Red Cross ran out of clean-up kits.

Many roads and underpasses across the county were flooded with several feet of water, resulting in many road closures. Many drivers had to be rescued after their vehicles were swept away by deep, fast water currents over roads. Interstate 43 in extreme northern Milwaukee county was closed from around 0500CST to 1900CST in the evening. At one point the water depth on the road was 12 feet! Firefighters in recue boats, while kneeling, managed to touch the bottom of the County Line Road overpass on I-43! In Milwaukee, a sewer line collapsed in front of the Harley Davidson Motorcycle plant, resulting in a sinkhole 30 feet deep and 60 feet wide.

The Milwaukee Brewers baseball game scheduled for the evening hours was canceled due to water flooding the playing field to a depth of 2 to 3 feet. The last time this happened was in 1986. A portion of a bluff collapsed in Juneau Park along the Lake Michigan shoreline after soils became saturated. For the first time in memory, Brown Deer and Green Bay roads in the city of Brown Deer flooded, and fish were observed to be swimming on these roads! A 50 foot section of the lakeside bluff at Klode Park in Whitefish Bay slid into Lake Michigan, taking trees with it. North of Klode Park, a 200 foot strip of private land slid into the lake. There was other scattered damage to stairs along the Lake Michigan bluffs. In addition, many roads in the county had sections of asphalt washed away by the water currents.

Fast flowing, high waters on the Kinnickinnic River in the southern parts of the city of Milwaukee resulted in four 500 ton barges breaking loose. These barges then drifted downriver and smashed into 21 pleasure crafts just west of 1st Street. Damage to the pleasure craft amounted to \$1.2 million (two sailboats sunk). Honey Creek in Wauwatosa reached the highest levels that local residents could ever remember. Water depths on nearby roads and River Parkway reached at least 5 feet! One hundred nearby homes were evacuated. Lowland flooding also occurred along the Root River in the southern part of the county.

Rainfall totals for the 30-hour period ending 1200CST were 9.78 inches in Brown Deer (TV-6 studio), 8.99 inches in the northwest corner of the city of Milwaukee, 7.25 in Greenfield, and 7.20 in Wauwatosa. Nearly all of the remainder of the northern half of Milwaukee county had 6 to 7 inches of rain, while the southern fourth had 3 to 6 inch totals. Mitchell Field recorded 5.25 inches. The bulk of these rainfall totals occurred between 2000CST on July 20 through 1000CST on the 21st.

The Menomonee River in Wauwatosa crested at a new record level of 16.63 feet at 0835CST on the 21st, or 7.63 feet over flood stage (greater than a 100 year flood). Major flooding occurred near and along its banks. It went below flood stage mid-morning on July 22nd. The Milwaukee River in Milwaukee crested at a new record level of 10.0 feet at 1030CST on the 21st, or 3 feet over flood stage (greater than a 100 year flood). It went below flood stage during the evening hours on the 21st. Lincoln Creek in Milwaukee crested at 20.09 feet at 0900CST on the 21st, or 7.09 feet above flood stage. Flooding on this creek was rated as major. Oak Creek in the southern part of the city of Milwaukee crested at 9.72 feet at 0815CST on the 21st, or 2.72 feet above flood stage (approx. 40 year flood). Flooding along this creek was rated as moderate.

Waukesha County Menomonee Falls to Pewaukee

21	0230CST 1000CST	0	0	5.4M	1.2M	Flash Flood
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Flash flooding occurred primarily in eastern Waukesha county as a result of heavy rainfall amounts in excess of 5 to over 8 inches in a 30 hour period ending about 1000CST. This flash flooding was greater than a "100 year rainfall" based on rainfall frequency maps. No one was injured or killed by the flood waters, thanks to superb rescue efforts by local law enforcement officials and firefighters. Besides public sector damage in county/city parks, there was private and business damages. The hardest hit area was the city of Menomonee Falls, followed by New Berlin, Lannon, Sussex, and the town of Lisbon. Spotty flash flooding was noted in the cities of Oconomowoc, Hartland, Delafield, and Pewaukee. (On July 7th, Waukesha county was officially declared a Federal Disaster Area, making county residents and business owners eligible for Federal disaster aid).

Areas along and near the Menomonee River experienced moderate to major flooding to nearby roads, homes, and businesses. In Menomonee Falls, several homes had significant structural damage, while about a total of 50 homes and basements had significant loss of personal property. Some car dealerships and repair shops suffered damage to new and used vehicles. Hundreds of homes and businesses lost their electrical, natural gas, or telephone service. Many traffic lights were also inoperative.

Several roads and underpasses across the eastern half of the county were flooded with several feet of water, resulting in road closures. Some drivers had to be rescued after their vehicles were swept away by deep, fast water currents over roads. Sections of asphalt paving were washed away on several roads in the eastern part of the county.

Storm Data and Unusual Weather Phenomena

June 1997

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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WISCONSIN, Southeast

Many farm fields in the eastern half of the county suffered soil erosion, or had enough standing water leftover to completely damage this years crops. Nearly all golf courses in the county were closed due to high water levels. A 12-foot sinkhole developed in the backyard of a Hartland residence as the ground collapsed.

Rainfall totals for the 30-hour period ending 1200CST were 8.40 inches in the city of Menomonee Falls, about 6.50 inches in Sussex, 5.95 inches in Elm Grove, 5.20 inches in Pewaukee and Waukesha, 5.01 inches in Hartland, 3.90 inches in Delafield, and 2.44 inches in Oconomowoc.

Due to runoff, the Fox River throughout the county rose to 1 to 2 feet above flood stage, resulting in minor to moderate flooding along the river. At some locations along this river, this would be a 5 to 10 year flood.

Flood gates on dams at Pewaukee and Nagawicka Lakes were opened to lower lake levels and relieve pressure. Properties and businesses along and near these lakes sustained flooding damage. These lakes were at the highest levels ever remembered by local residents. In the southeast part of the county, a small earthen dam on Jewel Creek just north of Little Muskego Lake was in danger of failing due to high water levels and water pressure. A small portion of the dam was breached. However, later in the day on June 21st and on the 22nd, DNR officials gradually lowered the lake in a controlled manner, to avoid any serious flooding.

Washington County Germantown to West Bend

21	0330CST 1000CST	0	0	2.7M	Flash Flood
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Flash flooding occurred primarily in southern Washington county as a result of heavy rainfall amounts in excess of 6 inches over a 30 hour period ending about 1200CST. This flash flooding was greater than a "100 year rainfall" based on rainfall frequency maps. No one was injured or killed by the flood waters, thanks to superb rescue efforts by local law enforcement officials and firefighters. Besides public sector damage in county/city parks, there was private and business damages. The hardest hit area was the city of Germantown. There were other reports of flooding damage scattered across the southern part of the county. (On July 7th, Washington county was officially declared a Federal Disaster Area, making county residents and business owners eligible for Federal disaster aid).

The total of \$2.7 million in property damages consisted of \$2.5 million in residential damage and \$200,000 in public damage.

Areas along and near the Menomonee River experienced moderate to major flooding to nearby roads, homes, and businesses. In Germantown, 2 homes had severe structural damage, while about a total of 70 homes and basement damage wall damage and/or loss of personal property. Some car dealerships and repair shops suffered damage to new and used vehicles. A Germantown golf course had water depths of 3 feet, resulting in soil erosion. Several new lawns were washed away on West Bend properties.

Several roads and underpasses across the southern part of the county were flooded with several feet of water, resulting in many road closures. Highway 41 was covered withwater to a depth of 5 feet at the County Trunk Q overpass. Some drivers had to be rescued after their vehicles were swept away by deep, fast water currents over roads. Several roads in and around Germantown had portions of asphalt washed away by the flood waters.

Rainfall totals for the 30-hour period ending 1200CST were about 7.50 inches in the extreme southeast corner of Germantown. Other totals included 6.26 inches near the Germantown city hall, 3.56 inches in West Bend, 3.40 inches in Hubertus, and 2.51 inches in Hartford.

Ozaukee County Mequon to 1 E Cedarburg

21	0330CST 1200CST	0	0	3.6M	Flash Flood
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Flash flooding occurred in southern Ozaukee county as a result of heavy rainfall amounts in excess of 8 inches over a 30 hour period ending about 1200CST. This flash flooding was greater than a "100 year rainfall" based on rainfall frequency maps. No one was injured or killed by the flood waters, thanks to superb rescue efforts by local law enforcement officials and firefighters. Besides public sector damage in county/city parks, there was widespread private and business damages. The hardest hit areas were the cities of Mequon and Thiensville, a small area about 2 miles southwest of Fredonia, and east of Cedarburg. By mid-morning much of downtown Thiensville was essentially a functional lake. (On July 7th, Ozaukee county was officially declared a Federal Disaster Area, making county residents and business owners eligible for Federal disaster aid).

It is estimated that there was about \$5.2 million in residential/business damage covered by flood insurance policies. This amount is not included in the \$3.6 million in property damage listed for Ozaukee county in this report.

Areas along and near the Milwaukee River experienced moderate to major damage to homes and businesses. Hundreds of homes and businesses in southern Ozaukee county had significant damage to basements and personal property. Over a dozen homes in Mequon had collapsed basement walls. Hundreds of customers lost electrical power, natural gas, or telephone service. Many people were forced from their homes until repairs or cleanups could be completed. Some car dealerships and repair shops suffered

Storm Data and Unusual Weather Phenomena

June 1997

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

damage to new and used vehicles. The loss of electrical service prevented the use of sump pumps in many homes, which compounded the flooding problems.

Many roads and underpasses across the southern part of the county were flooded with several feet of water, resulting in road closures. Some drivers had to be rescued after their vehicles were swept away by deep, fast water currents over roads. Several roads in the southern part of the county had sections of asphalt washed away.

Rainfall totals for the 30-hour period ending 1200CST were about 8.50 inches in the extreme southern part of the county along the county line. Other totals included 6.25 inches near the Mequon city hall, 3.09 inches at Cedarburg, 3.08 inches in Waubeka, and 2.26 inches in Port Washington, which experienced a disastrous 100 year flood 1 year ago when over 11 inches of rain fell in a 3 day period.

Jefferson County

**Watertown to
Ft Atkinson**

21	0400CST 0900CST				0	0	50K		Urban/Sml Stream Fld
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Heavy rains during the morning hours on June 21st resulted in urban flooding in several cities across Jefferson county. In Watertown, some city streets were closed due to 1.62 inches of rain in a couple hours ending at 0600CST on the 21st. Underpasses were blocked due to high water, while in other Watertown streets the water depth reached 6 to 8 inches. Twenty Watertown homes had minor basement flooding. In the city of Jefferson, it was the same story as a road on the south side of the city was closed due to high water levels. In Ft. Atkinson, some businesses reported minor basement flooding, while some driveway sand and gravel, at a McDonald's restaurant under construction, was washed away.

Fond Du Lac County

Fond Du Lac

21	0430CST 1200CST				0	0	300K		Flash Flood
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Isolated flash flooding occurred in Fond du Lac county as a result of heavy rainfall amounts up to 5 inches in a 30 hour period ending about 1200CST. No one was injured or killed by the flood waters.

Two elementary schools under construction in the city of Fond du Lac experienced roof damage due to the heavy downpours of rain. The intense rains around 0500CST evidently toppled an old tree which then crashed through the roof of a Fond du Lac home. The home's garage and dormer were also damaged. In the flood plain of the village of North Fond du Lac, 51 homes experienced significant basement flooding which resulted in considerable damage to carpets, furniture, and appliances.

Highway 41 was closed in the city of Fond du Lac from 0900CST to 1100CST on the 21st due to high water levels.

Rainfall totals for the 28-hour period ending 1000CST were 5 inches in the extreme eastcentral part of the county. The city of Fond du Lac picked up 2.28 inches on the 20th, and 2.49 inches on the 21st, for a total of 4.77 inches. The individual 24 hour values were new daily records for the calendar days.

Sheboygan County

**Oostburg to
Sheboygan Falls**

21	0500CST 1200CST				0	0	150K		Flash Flood
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Isolated flash flooding occurred in Sheboygan county as a result of heavy rainfall amounts of 5 to 6 inches in a 30 hour period ending about 1200CST. Most of the rain fell after 0500CST on the 21st. No one was injured or killed by the flood waters.

In and around Oostburg, residential homes experienced significant basement flood damage to personal property, some roadways had sections washed out, and in the city an apartment complex was evacuated. In the city of Sheboygan, an 8-foot section of Kohler Memorial Drive was washed out by flood waters. The Sheboygan High School had 4 feet of water in its basement. In Sheboygan Falls, 60 homes had basement flooding. Several golf courses across the county experienced flooding and soil erosion. Lowland flooding also occurred along the Sheboygan River and Pigeon Creek. Some farm fields suffered minor soil erosion. Rainfall totals for the 30-hour period ending 1200CST were almost 6 inches in the city of Sheboygan, and 5.27 inches in Plymouth.

The Sheboygan River in the city of Sheboygan crested at 10.71 feet at 0945CST on the 21st, or 2.71 feet over flood stage (a 10 year flood).

Sauk County

Lake Delton

24	1458CST				0	0	8K		Thunderstorm Wind
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Marquette County

Oxford

24	1502CST				0	0	1K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Green County									
Jordan	24	1535CST			0	0	3K		Thunderstorm Wind
Dane County									
Madison	24	1540CST			0	0	0.50K		Thunderstorm Wind (G57)
Dane County									
Middleton	24	1540CST 1630CST			0	0			Urban/Sml Stream Fld
Green County									
Monticello	24	1545CST			0	0	3K		Thunderstorm Wind
Dane County									
Madison to Monona	24	1559CST 1605CST			0	0	2K		Thunderstorm Wind (G51)
Dodge County									
Richwood	24	1605CST			0	0	100K		Thunderstorm Wind
Rock County									
Beloit	24	1610CST			0	0	1K		Thunderstorm Wind
Rock County									
Edgerton	24	1610CST			0	0	1K		Thunderstorm Wind
Jefferson County									
Watertown	24	1613CST			0	0	2K		Thunderstorm Wind (G62)
Jefferson County									
2 S Lake Mills to Ft Atkinson	24	1615CST 1655CST			0	0	15K		Thunderstorm Wind
Dodge County									
Watertown	24	1625CST			0	1	10K		Thunderstorm Wind
Dodge County									
Iron Ridge to Theresa	24	1629CST 1645CST			0	0	100K		Thunderstorm Wind
Washington County									
Thompson to Hartford	24	1636CST 1655CST			0	0	3K		Thunderstorm Wind
Dodge County									
Juneau	24	1640CST			0	0	150K		Thunderstorm Wind (G74)
Washington County									
6 W Kewaskum to Fillmore	24	1645CST 1705CST			0	1	4K		Thunderstorm Wind
Fond Du Lac County									
2 W Eden to Ashford	24	1655CST 1705CST			0	0	75K		Thunderstorm Wind
Walworth County									
Darlen	24	1655CST			0	0	1K		Thunderstorm Wind
Sheboygan County									
Plymouth to Elkhart Lake	24	1659CST			0	0	5K		Thunderstorm Wind (G55)
Waukesha County									
Mukwonago	24	1700CST			0	0	1K		Thunderstorm Wind (G54)
Ozaukee County									
1 NW Fredonia to Belgium	24	1710CST			0	0	1K		Thunderstorm Wind
Racine County									
2 E Burlington to Union Church	24	1715CST 1725CST			0	1	3K		Thunderstorm Wind
Walworth County									
6 N Lake Geneva to 2 NW Genoa City	24	1715CST			0	0	4K		Thunderstorm Wind
Sheboygan County									
Sheboygan	24	1720CST			0	0	1K		Thunderstorm Wind
Milwaukee County									
West Allis to Franklin	24	1722CST			0	2	5K		Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Walworth County									
Delavan	24	1735CST			0	0	1K		Thunderstorm Wind (G56)
Waukesha County									
Waukesha	24	1735CST			0	0	3K		Thunderstorm Wind
Milwaukee County									
Milwaukee	24	1738CST			0	0			Thunderstorm Wind (G50)
Waukesha County									
3 SW Waukesha	24	2230CST			0	0	150K		Lightning
<p>Severe thunderstorms exploded over southern Wisconsin during the afternoon and caused widespread tree and power line damage with scattered damage or destruction to residential roofs, a dozen automobiles, and road signs. Many roads were blocked by toppled trees. Early on in Lake Delton (Sauk Co) a small construction trailer was tipped over and a boat was blown off a trailer and damaged. An injury occurred when a motorcyclist was blown off the road near Watertown(Dodge Co). The Juneau AWOS (Dodge Co) reported an 85 mph wind gusts around the time when a hanger was destroyed and trailer overturned at the Dodge County Airport. An airplane was also totaled. Major damage occurred in Fond du Lac County when a barn was blown down near Eden and a house moved a full foot off its foundation in Ashford.</p> <p>About 21,000 customers suffered power outages due to downed trees & power lines. In Fillmore (Washington Co) a fallen tree limb injured a man. East of Burlington (Racine Co) a man was seriously injured after he was struck by a toppled tree. Powerful winds blew down a tent in Franklin (Milwaukee Co.), slightly injuring 2 people. Lightning struck and injured a woman running a charity race at the local high school near Sussex (Waukesha Co). Later that night, lightning struck a house just southwest of Waukesha (Waukesha Co) starting a fire that resulted in a total loss of property. Heavy rains of 1 to 2 inches in a short period of time in Middleton (Dane Co) resulted in water depths of 4 to 6 inches on urban roads.</p>									
Milwaukee County									
South Milwaukee	30	1330CST			0	0	20.4K		Lightning
<p>Lightning struck an antenna and traveled into garage, setting fire to two cars, a truck camper, motorcycle and other things in the garage.</p>									
Racine County									
Caledonia	30	1345CST			1	0			Lightning
<p>An elderly man trimming tress in his yard was struck and killed by lightning. M74UT</p>									
Walworth County									
3.8 NE Lake Geneva	30	1357CST 1417CST			0	0	3.5K		Heavy Rain
<p>A downpour of 1.41 inches of rain washed a gravel driveway out, allowing a parked van to slide down a slope into the White River.</p>									
<u>WISCONSIN, Southwest</u>									
Clark County									
6 SW Neillsville	05	1328CST			0	0			Hail (0.75)
Jackson County									
Merrillan	05	1328CST			0	0			Hail (0.75)
Jackson County									
Northfield	05	1400CST			0	0			Hail (0.75)
Jackson County									
Black River Falls	05	1425CST			0	0			Hail (0.75)
La Crosse County									
6 N Holmen	05	1430CST			0	0			Hail (0.75)
Trempealeau County									
Galesville	05	1430CST			0	0			Hail (0.75)
Monroe County									
Ridgeville	05	1518CST			0	0			Thunderstorm Wind (G52)
<p>Widely scattered severe thunderstorms affected west central Wisconsin, producing dime size hail and wind gusts to 60 mph.</p>									
Clark County									
Owen	11	1330CST			0	0			Hail (1.00)
<p>An isolated severe thunderstorm produced hail the size of dimes and quarters.</p>									
Vernon County									
De Soto	15	1412CST			0	0	20K		Thunderstorm Wind (G70)
Vernon County									
Victory	15	1417CST			0	0	4K		Thunderstorm Wind (G52)
Vernon County									
Newry	15	1449CST			0	2	35K		Thunderstorm Wind (G70)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
WISCONSIN, Southwest									
Crawford County 2 S Mt Sterling	15	1450CST			0	0	10K		Thunderstorm Wind (G55)
Juneau County Union Center	15	1515CST			0	0	25K		Thunderstorm Wind (G61)
Grant County Blue River	15	1520CST			0	0	10K		Thunderstorm Wind (G56)
Crawford County Gays Mills	15	1525CST			0	0	15K		Thunderstorm Wind (G56)
Adams County 3 SE Plainville	15	1536CST			0	0	4K		Thunderstorm Wind (G55)
Richland County 2 S Richland Center	15	1556CST			0	0	10K		Thunderstorm Wind (G52)
Richland County Bear Valley	15	1610CST			0	0	20K		Thunderstorm Wind (G61)
A line of severe thunderstorms was accompanied by wind gusts of 60 to 80 mph, which knocked down numerous power lines and trees. Hardest hit was southwest Wisconsin where several farm buildings were destroyed and two people were injured.									
Crawford County Lynxville	15	1938CST 2110CST			0	0			Flash Flood
Grant County Boscobel	15	1938CST 2110CST			0	0			Flash Flood
Torrential rains of 3 to 4 inches in less than an hour turned small creeks into raging rivers and caused mudslides and rockslides.									
Trempealeau County 6 S Osseo	19	2100CST			0	0	7.5K		Thunderstorm Wind (G52)
60 mph wind gusts knocked down several large trees.									
Grant County Lancaster	21	0130CST			0	0	18K		Thunderstorm Wind (G56)
Grant County Hazel Green	21	0150CST			0	0	6K		Thunderstorm Wind (G52)
Grant County Hazel Green	21	0205CST			0	0	10K		Thunderstorm Wind (G56)
Wind gusts of 65 mph associated with a cluster of severe thunderstorms knocked down power lines and trees.									
Grant County Cassville	23	0015CST			0	0	5K		Thunderstorm Wind (G52)
60 mph wind gusts blew down power lines and some large trees.									
Adams County Petenwell Lake	24	1511CST			0	0			Thunderstorm Wind (G50)
Winds gusted to 60 mph, knocking down large trees.									
Buffalo County 2 S Mondovi	28	1700CST			0	0	1K		Thunderstorm Wind (G53)
Buffalo County Alma	28	1710CST			0	0	3K	1K	Thunderstorm Wind (G52)
Trempealeau County 2 NE Trempealeau	28	1720CST			0	0	5K		Thunderstorm Wind (G53)
La Crosse County La Crosse	28	1810CST			0	0	5K		Thunderstorm Wind (G52)
Winds gusted to around 60 mph downing trees and power lines around the area.									
WISCONSIN, West									
Pepin County Arkansaw	05	1150CST			0	0			Hail (0.75)
Eau Claire County Fall Creek	05	1230CST			0	0			Hail (0.88)
Pierce County Ellsworth	07	1345CST			0	0			Hail (0.88)
Hail covered the ground on the east side of the city.									
St. Croix County Baldwin	15	1415CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, West</u>									
St. Croix County									
River Falls	15	1415CST			0	0			Hail (0.75)
Pierce County									
4 N Olivet	15	1425CST			0	0			Hail (1.00)
Dunn County									
5 W Downsville to 4 W Downsville	15	1430CST	1	500	0	0	200K		Tornado (F2)
									Three silos, machine shed, barn and several trees damaged or destroyed. Pieces of shed found 1 mile away. Numerous trees and power lines down.
Dunn County									
4 SE Downsville	15	1435CST			0	0			Thunderstorm Wind (G50)
									Shed destroyed. Trees and power lines down. Estimated windspeed.
Eau Claire County									
5 SE Eau Claire	15	1500CST			0	0			Thunderstorm Wind (G50)
									Trees down. Semitrailer truck blown by wind resulting in jackknife. Estimated windspeed.
Eau Claire County									
6 S Eau Claire	15	1525CST			0	0			Thunderstorm Wind (G50)
									Vehicle blown off highway across ditch and into adjacent field. Estimated windspeed.
Eau Claire County									
3 N Augusta	15	1535CST			0	0			Thunderstorm Wind (G50)
									Trees down, one falling on house. Estimated windspeed.
Eau Claire County									
2 N Augusta	15	1535CST			0	0			Thunderstorm Wind (G50)
									Farm elevator overturned. Silo top knocked off. Estimated windspeed.
Dunn County									
1 N Menomonie	24	1310CST	0.1	100	0	0	22K		Tornado (F1)
									Shed destroyed. Corn stalks driven into the seams of house siding.
Barron County									
Cumberland	24	1330CST			0	0			Lightning
									Lightning strike to business.
St. Croix County									
New Richmond Arpt	28	0905CST			0	0			Thunderstorm Wind (G55)
Eau Claire County									
1 W Eau Claire	28	1613CST			0	0			Thunderstorm Wind (G50)
									Siding torn off building. Estimated windspeed.
Eau Claire County									
5 W Fall Creek	30	1105CST			0	0			Funnel Cloud
<u>WYOMING, Central and West</u>									
Teton County									
5 S Jackson	05	1445MST			0	0			Hail (1.75)
Lincoln County									
1 NW Afton	05	1535MST			0	0			Hail (1.00)
Lincoln County									
Thayne	05	1548MST			0	0			Hail (1.50)
Hot Springs County									
2 S Thermopolis	05	1930MST			0	0			Hail (0.75)
Fremont County									
5 SE Riverton to 3 SE Riverton	06	1425MST 1438MST	2	40	0	0			Tornado (F1)
Park County									
Meeteetse	06	1455MST			0	0			Funnel Cloud
Washakie County									
10 SE Ten Sleep	06	1525MST			0	0			Funnel Cloud
Washakie County									
Worland Arpt	06	1550MST			0	0			Hail (0.75)
Park County									
15 NE Meeteetse	06	1555MST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Central and West									
Big Horn County 1 N Greybull	06	1658MST 1700MST	0.5	50	0	0			Tornado (F0)
Big Horn County .5 W Basin	06	1700MST 1705MST	0.2	30	0	0			Tornado (F0)
Big Horn County 5 N Greybull to 6 N Greybull	06	1710MST 1720MST	1	50	0	0			Tornado (F1)
Fremont County .5 NW Nws Office Riv	08	1502MST 1504MST			0	0			Hail (0.75)
		At NWS office							
Fremont County 5 S Riverton	08	1610MST 1730MST			0	0			Flash Flood
Fremont County 15 N Riverton	08	1615MST 1800MST			0	0			Flash Flood
Fremont County 15 N Riverton	08	1735MST 1830MST			0	0			Flash Flood
		Portion of Hiway 789 closed due to water and debris over road. Two homes flooded. Water over Hiway 134. Basements flooded.							
Johnson County Barnum	08	1800MST 2100MST			0	0			Flash Flood
		Extensive flash flooding in the southwestern part of Johnson County in the Barnum and Red Wall areas. Beaver Creek. Roads, bridges, culverts damaged. Damage estimates unavailable. Times estimated.							
Johnson County Buffalo	08	2200MST			0	0			Flash Flood
		Flash flooding in northern Johnson County in the Buffalo area. Clear Creek and Rock Creek. KOA campground damaged. No damage estimates. Times estimated.							
Lincoln County La Barge	09	0830MST			0	0			Funnel Cloud
Park County 22 W Cody	09	1400MST 1600MST			0	0			Flash Flood
		Flash flooding on Canyon Creek. North Fork Hiway had to be cleared of debris.							
Hot Springs County 30 NW Thermopolis	09	1820MST			0	0			Funnel Cloud
Washakie County 15 S Ten Sleep	10	1240MST			0	0			Funnel Cloud
Sweetwater County 20 N Mc Kinnon	10	1325MST			0	0			Funnel Cloud
Sweetwater County 20 SW Rock Spgs Arpt	10	1345MST	0.1	30	0	0			Tornado (F0)
		Two tornadoes touched down briefly on west side of Flaming Gorge Reservoir. Path length and width estimated.							
Big Horn County 3 S Basin to 2.9 S Basin	13	1825MST 1827MST	0.1	30	0	0			Tornado (F0)
Big Horn County Basin	13	1830MST 1900MST			0	0	91K		Flash Flood
Big Horn County 1 S Basin	13	1835MST 1836MST	0	30	0	0			Tornado (F0)
Big Horn County Basin	13	1840MST			0	0			Hail (0.75)
		Two very brief tornado touchdowns south of Basin. Path lengths and widths estimated. Extensive flash flooding in Basin.							

Storm Data and Unusual Weather Phenomena

June 1997

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>									
Lincoln County 5 N La Barge to 5.5 N La Barge	14	1525MST 1530MST	0.5	30	0	0			Tornado (F0)
Brief touchdown over open country.									
Washakie County (Wrl)Worland Muni Ar	14	1640MST			0	0			Hail (0.75)
Park County 5 NW Cody	14	2005MST 2100MST			0	0			Flash Flood
Flash flooding at Trail Creek Ranch. Buildings flooded.									
Fremont County 25 NW Riverton	14	2050MST			0	0			Hail (0.75)
Washakie County Worland	23	1650MST			0	0			Hail (0.75)
Washakie County Ten Sleep	23	1710MST			0	0			Hail (0.75)
Washakie County 8 NE Ten Sleep	23	1720MST			0	0			Thunderstorm Wind (G60)
"Tornado force" winds in Ten Sleep Canyon uprooted trees, caused structural damage.									
<u>WYOMING, Extreme Southwest</u>									
NONE REPORTED.									
<u>WYOMING, North Central</u>									
Sheridan County 6 N Sheridan	07	1658MST 1706MST			0	0			Hail (0.75)
<u>WYOMING, Northeast</u>									
Crook County 4 S Sundance	11	1040MST	0.1	1	0	0			Tornado (F0)
Campbell County 13 SE Gillette	14	1600MST			0	0			Hail (0.75)
Campbell County Recluse	23	1950MST			0	0			Hail (1.75)
Crook County 4 W New Haven	23	2040MST			0	0			Hail (1.00)
Crook County New Haven	23	2045MST			0	0			Hail (1.00)
Severe thunderstorms developed over northeast Wyoming during the late evening hours and produced up to golfball size hail. No damage was reported from the hail.									
Campbell County Gillette	27	1925MST			0	0	5K		Thunderstorm Wind (G53)
A thunderstorm with little rain resulted in strong straight line winds over Gillette and ripped a roof off a mobile home.									
Crook County 10 NE Moorcroft	28	1720MST			0	0			Hail (1.00)
Crook County 6 N Sundance	28	1725MST			0	0			Hail (0.75)
Campbell County 20 N Gillette	29 30	0300MST 1200MST			0	0			Wild/Forest Fire
An electrical storm during the early morning hours resulted in a wild fire that burned 20 to 30 acres of timber north of Gillette. No injuries were reported with the fire and no buildings were damaged.									
<u>WYOMING, Southeast</u>									
Niobrara County 15 SW Manville	01	1450MST 1455MST			0	0	0	0	Hail (0.75)
Platte County Chugwater	01	1510MST 1515MST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Southeast									
Laramie County 33 NE Cheyenne	01	1608MST 1613MST			0	0	0	0	Thunderstorm Wind (G50)
Laramie County 35 NE Cheyenne	01	1620MST 1625MST			0	0	0	0	Hail (0.75)
Laramie County 7 W Albin	01	1633MST 1638MST			0	0	0	5K	Hail (1.00)
Laramie County 2 N Pine Bluffs	01	1645MST 1646MST	0.1	5	0	0	0	0	Tornado (F0)
			Brief touchdown in open country.						
Laramie County 11 N Pine Bluffs	01	1654MST 1659MST			0	0	0	0	Funnel Cloud
Laramie County 10 N Pine Bluffs	01	1654MST 1659MST			0	0	0	4K	Hail (1.75)
Platte County 10 S Wheatland	02	1335MST 1338MST	0.1	5	0	0	0	0	Tornado (F0)
			Brief touchdown in open country.						
Platte County 10 SE Wheatland	02	1430MST 1432MST			0	0	0	0	Thunderstorm Wind (G56)
Albany County 10 S Laramie	02	1612MST 1614MST			0	0	0	0	Funnel Cloud
Laramie County Albin	02	1715MST 1716MST			0	0	0	0	Thunderstorm Wind (G69)
Laramie County Albin	02	1805MST 1810MST			0	0	0	4K	Hail (1.75)
Carbon County 5 S Seminoe Dam	06	1304MST 1306MST	0.1	10	0	0	0	0	Tornado (F0)
			Brief touchdown in open country just south of Seminoe Reservoir.						
Carbon County Walcott	06	1311MST 1313MST			0	0	0	0	Funnel Cloud
			2 funnel clouds near Walcott						
Carbon County 10 S Ft Fred Steele	08	1434MST 1436MST	0.1	5	0	0	0	0	Tornado (F0)
			Brief touchdown S of I-80 between Fort Steele and Saratoga in open country.						
Platte County 5 S Wheatland	10	1750MST 1752MST	0.1	5	0	0	0	0	Tornado (F0)
			Brief touchdown in open country.						
Laramie County 17 W Cheyenne	12	1240MST 1255MST			0	0	20K	0	Hail (2.50)
Laramie County 7 W Cheyenne	12	1245MST 1256MST			0	0	3K	0	Hail (1.00)
			Hail piled to a 4 inch depth.						
Laramie County 5 E Hillsdale	14	1645MST 1647MST	0.1	5	0	0	0	0	Tornado (F0)
			Brief touchdown in open country.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Southeast									
Laramie County 4 W Albin	14	1705MST 1710MST			0	0	0	0	Hail (0.75)
Laramie County 4 W Albin	14	1705MST 1710MST			0	0	0	0	Hail (0.75)
Laramie County 5 SE Cheyenne	15	1400MST 1405MST			0	0	2K	2K	Hail (1.25)
Laramie County 5 W Cheyenne to 4 NE Cheyenne	18	1305MST 1325MST			0	0	0	0	Funnel Cloud
As many as 3 funnel clouds were observed passing over Cheyenne.									
Laramie County Cheyenne	18	1315MST 1320MST			0	0	0	0	Hail (1.00)
Laramie County 4 NE Cheyenne	18	1325MST 1326MST	0.1	10	0	0	2K	0	Tornado (F1)
Anticyclonic tornado touched near intersection of Four Mile Road and College Drive, destroying a storage shed.									
Laramie County Cheyenne	18	1350MST 1355MST			0	0	25K	0	Hail (1.50)
Platte County Guernsey	20	1830MST 1835MST			0	0	0	0	Hail (0.75)
Goshen County Ft Laramie	20	1832MST 1837MST			0	0	0	0	Hail (0.75)
Platte County 5 N Guernsey	20	1835MST 1839MST			0	0	0	0	Hail (0.88)
Goshen County 11 W Jay Em	20	1903MST 1907MST			0	0	0	0	Hail (0.88)
Goshen County 10 W Jay Em	23	1940MST 1943MST			0	0	0	0	Hail (1.50)
Laramie County 2 S Burns	23	2013MST 2017MST			0	0	0	0	Hail (1.00)

STORM DAMAGE CATEGORIES

REFERENCE NOTES

1	Less than \$50	0 / Blank	None reported.
2	\$50 to \$500	*	Miles instead of yards.
3	\$500 to \$5,000	**	Yards instead of miles.
4	\$5,000 to \$50,000	@	Includes heavy sleet storm.
5	\$50,000 to \$500,000	#	Freezing drizzle and freezing rain, commonly known as glaze.
6	\$500,000 to \$5 Million	=	Report incomplete.
7	\$5 Million to \$50 Million	= =	Report not received.
8	\$50 Million to \$500 Million		
9	\$500 Million to \$5 Billion	o/c	Indicates Crop Damage amount is included in the value give for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F Scale)

(F0) Gale tornado (40-72 mph) : Light damage; Some damage to chimneys; break branches off trees; push over shallow-rooted trees; signs and billboards damaged.

(F1) Moderate tornado (73-112 mph): Moderate damage; The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage; Roofs torn from frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage; Roofs and some walls torn from well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage; Well-constructed houses leveled; structure with weak foundations blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage; Strong frame houses lifted from foundation and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 meters; trees debarked; incredible phenomena will occur.

(F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

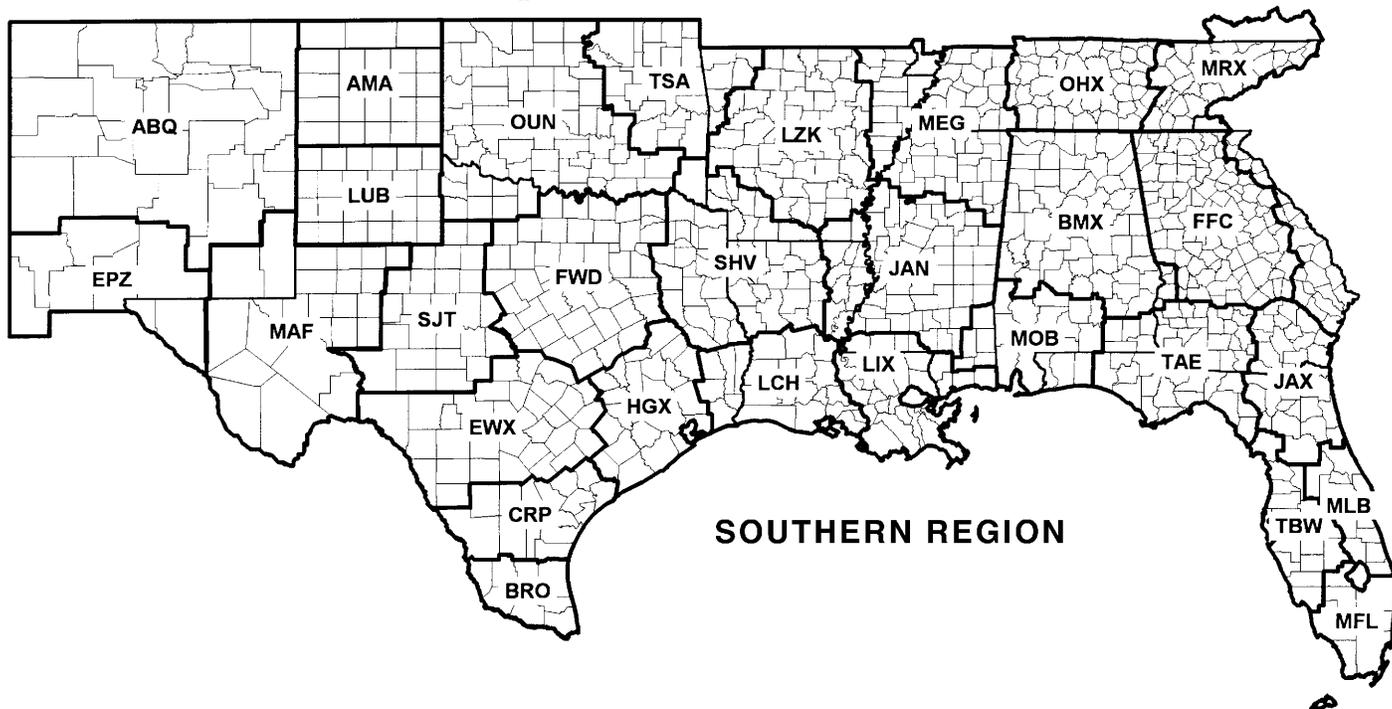
(F0+F1) Weak Tornado
(F2+F3) Strong Tornado
(F4+F5) Violent Tornado



COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

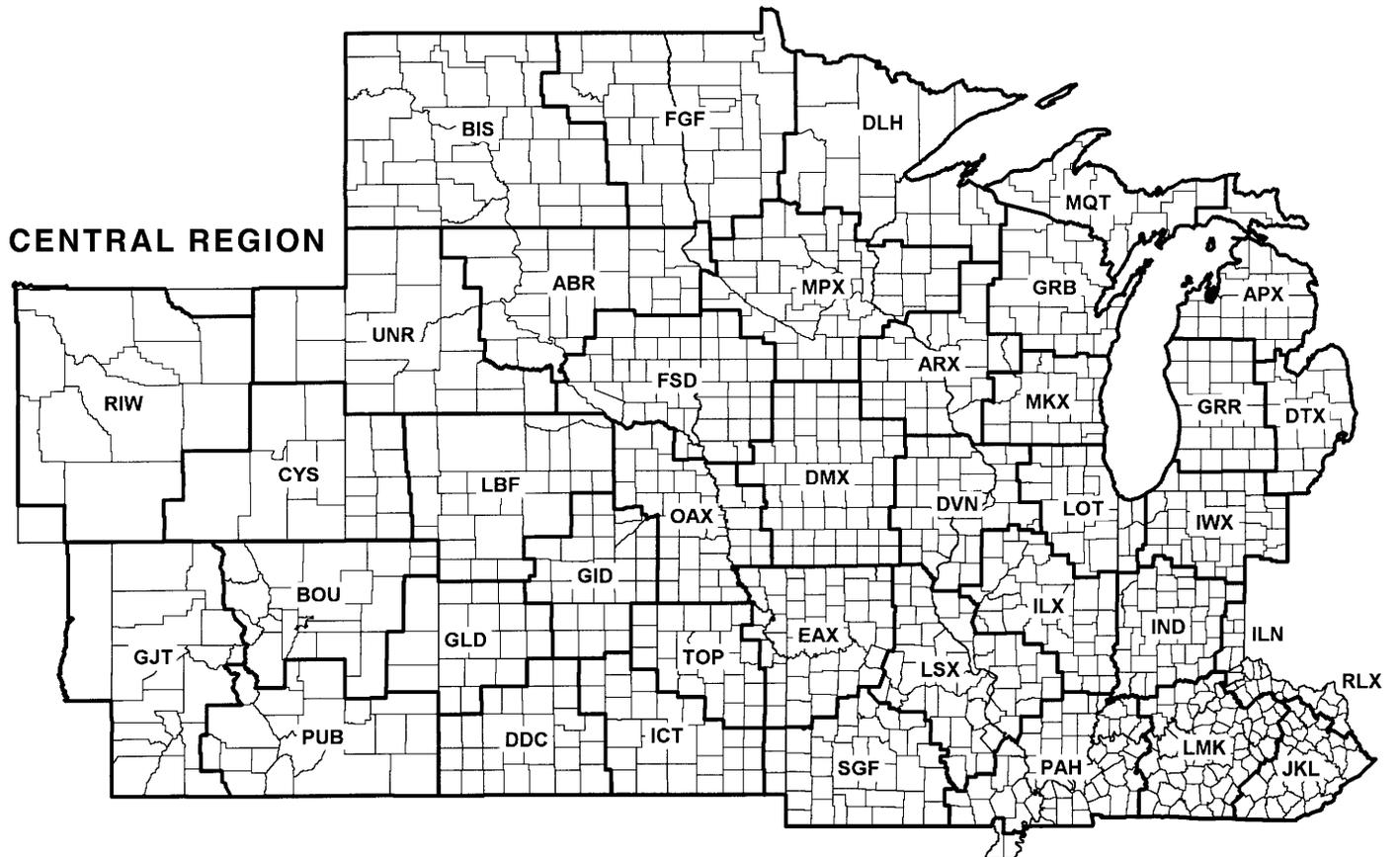
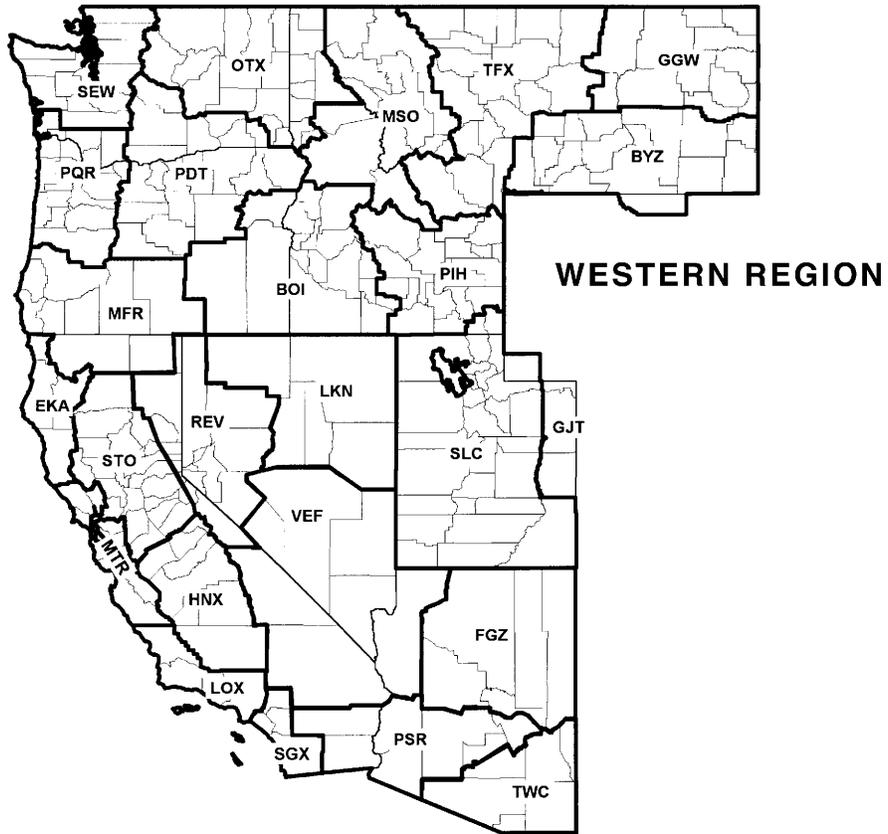


EASTERN REGION

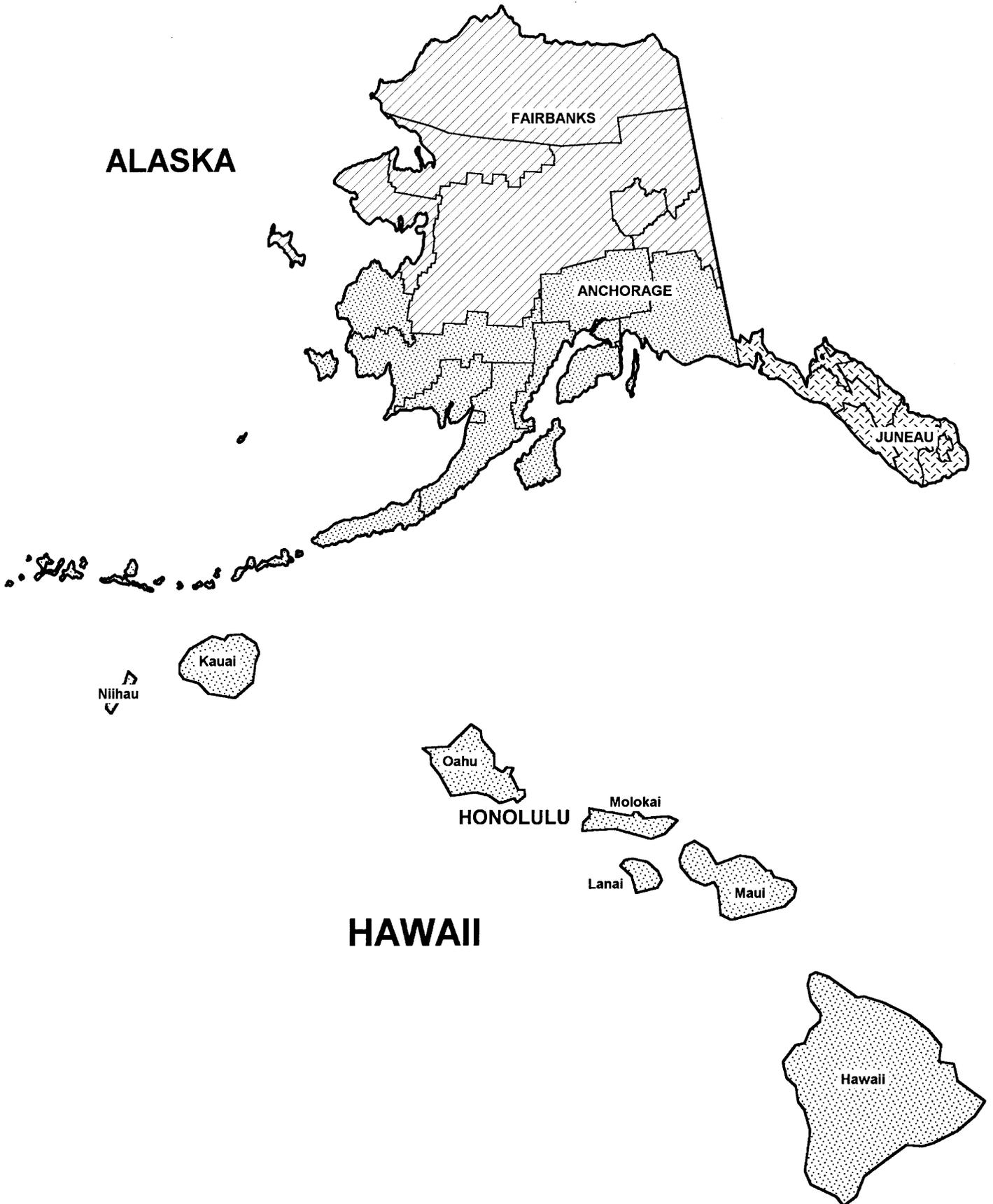


SOUTHERN REGION

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS

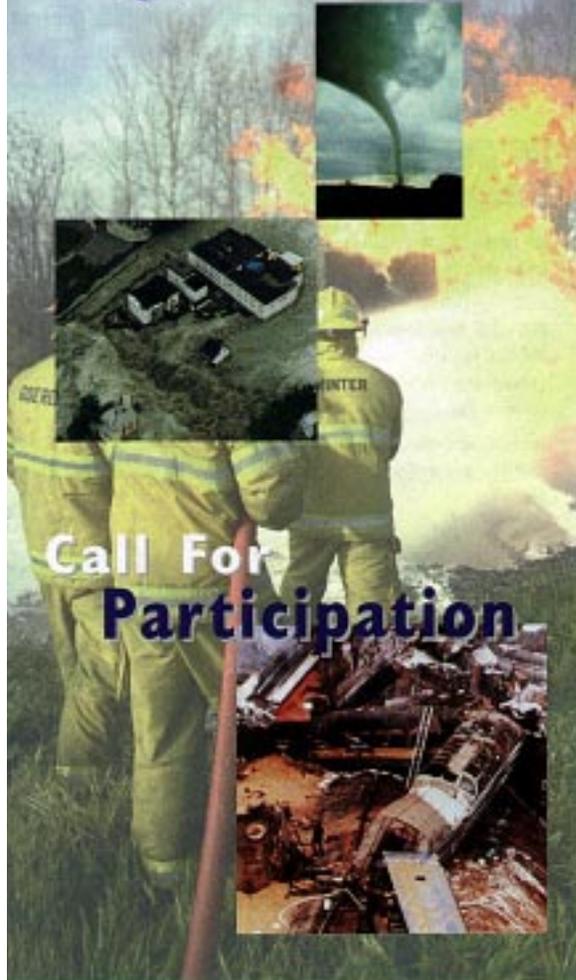


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