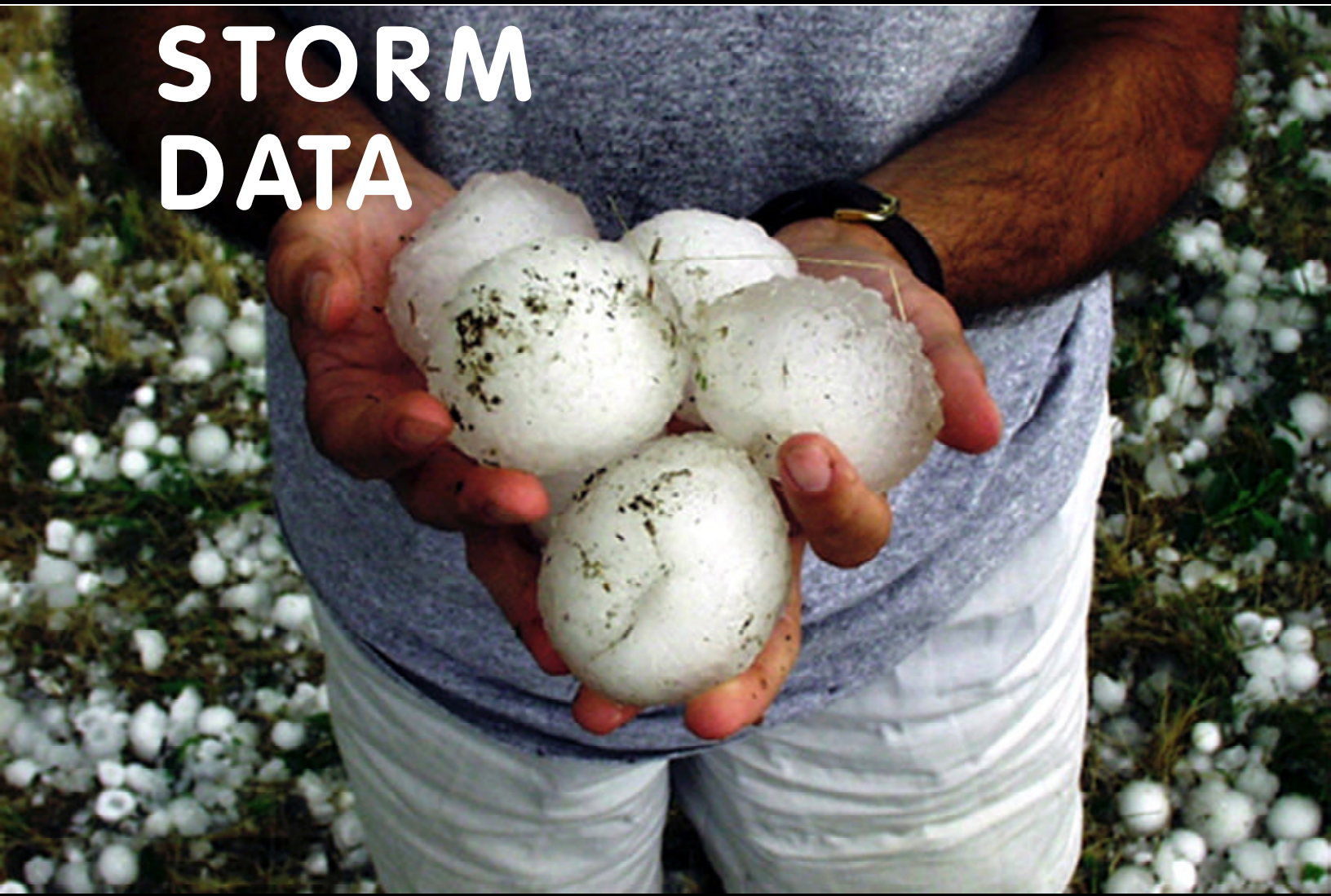


**JUNE 1999
VOLUME 41
NUMBER 6**

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, NC

Cover: Storm chaser and meteorology student Kurt Hooley holds several tennis ball size (2.75") hail that fell near Scottsbluff, NE on June 27th, 1999. Several injuries occurred and damage is estimated near \$90 million. See page 4 for details. (*Photograph courtesy of Dr. Bruce Lee, Professor, and Kurt Hooley, Meteorology student, University of Northern Colorado, Greeley, CO*)

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STORM DATA
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STORM DATA contains all confirmed information on storms available to our staff at the time of publication. Late reports and corrections will be printed in each edition.

Except for limited editing to correct grammatical errors, the data in **Storm Data** are published as received.

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

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

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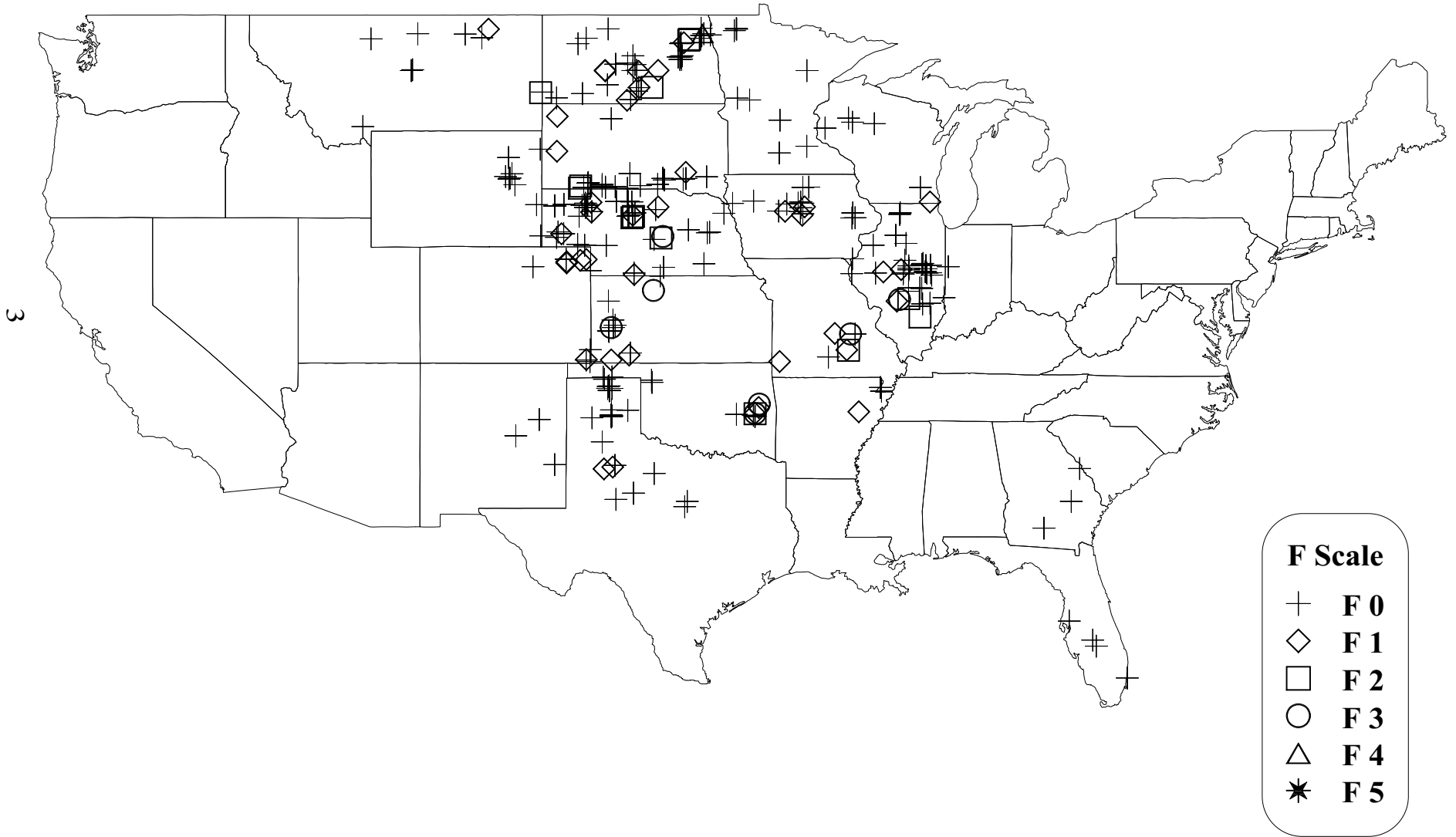
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Director,
National Climatic Data Center

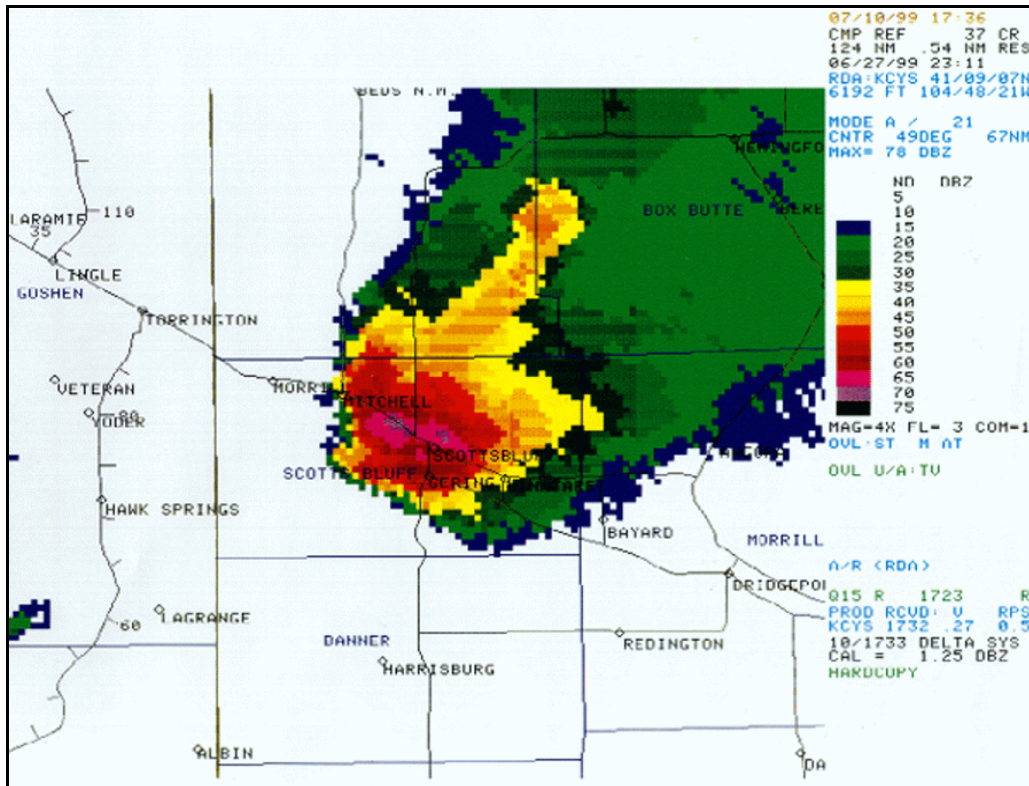
June 1999 Confirmed Tornadoes



OUTSTANDING STORMS OF THE MONTH

1. LARGE HAIL FALLS IN THE NEBRASKA PANHANDLE

During the afternoon and evening hours of June 27, 1999 several severe thunderstorms produced large hail on the high plains of eastern Wyoming and western Nebraska. Storms from the previous day produced a prime environment for severe thunderstorm development. An upper level disturbance moved across the area during the afternoon and evening hours. The early morning Severe Weather Outlook identified this area as having a "Moderate Risk" of severe weather. The Storms Prediction Center (SPC) in Norman, OK issued a Tornado Watch at 1:39 PM (All times MDT) for portions of eastern Wyoming and the Nebraska panhandle. The National Weather Service office in Cheyenne, WY issued the first Severe Thunderstorm Warning at 1:41 PM. Spotters in eastern Wyoming reported hail 1" to 1.75" and an F0 tornado. The storms continued into the panhandle of Nebraska and the NWS issued several Tornado Warnings for southwestern Sioux and Scotts Bluff counties. Several reports of 1.75" hail were received as the storms moved into the western portion of Scotts Bluff County. As the storm moved directly over the city of Scottsbluff, 2.75" hail fell in and around the city between 5:17 PM and 5:25 PM. Twenty-five injuries occurred in Scottsbluff, mainly cuts from broken glass and also bumps and bruises from hard-hitting hailstones. The Scottsbluff zoo reported injuries to many animals, especially birds. Property and crop damage estimates exceed \$90 million dollars. As the thunderstorm moved southeast of Scottsbluff an F1 tornado touched down at 5:43 PM and destroyed the roof of a home in McGrew, NE.



Left: A WSR-88D Radar image of the severe thunderstorm cell as it moved through Mitchell County. Reflectivities greater than 70 dBz are an indication that hail is present within the storm cell.



Left: An example of the type of damage caused to vehicles by large hailstones. The owner of the car sustained injuries by the shattered glass.

Right: Meteorology student and storm chaser Kurt Hooley holds 2.75 inch hail that fell near Scottsbluff, NE.



Left: The hailstones which fell near Scottsbluff, NE are comparable in size to a tennis ball.

(Photographs courtesy of Dr. Bruce Lee, Professor, & Kurt Hooley, Meteorology Student, University of Northern Colorado, Greeley, CO)

(Thanks to John Griffith, WCM and Richard Emanuel, Meteorologist, National Weather Service, Cheyenne, WY)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Jefferson County									
Birmingham	01 30	0000CST 2359CST			0	0	0	0	Heavy Rain
Rainfall at the Birmingham International Airport was 9.03 inches for the month of June. This reading was the second highest ever recorded at this location for the month.									
Montgomery									
Montgomery	01 30	0000CST 2359CST			0	0	0	0	Heavy Rain
Rainfall at Dannelly Field was 8.47 inches for the month of June. This reading was the fourth highest ever recorded for the month.									
Marshall County									
Albertville	02	1225CST			0	0	2K	0	Thunderstorm Wind (G50)
Several trees were reported down in Albertville. Additional scattered reports were received of tree limbs down and several short power outages. A funnel cloud was reported over Guntersville Lake.									
Jefferson County									
Birmingham	02	1230CST 1330CST			0	0	15K	0	Flash Flood
Heavy rainfall, two to three inches in just over one hour, caused many underpasses throughout the city of Birmingham to be flooded. Most of the locations were flood prone areas that have slight drainage problems. Several vehicles were flooded in several feet of water and were subsequently stranded in the high water. No injuries were reported. At the University of Alabama at Birmingham, the lowest level of the Hill University Center was flooded. This is mainly a drainage problem but several feet of water entered the building.									
Jefferson County									
Birmingham	02	1236CST 1305CST			0	0	0	0	Hail (0.75)
Dime size hail was reported throughout the Birmingham area including downtown, the airport, US 78 just west of Birmingham, Homewood, and Hueytown.									
Dekalb County									
Rainsville	02	1250CST			0	0	0	0	Hail (0.75)
Dekalb County									
Rainsville	02	1252CST			0	0	0	0	Funnel Cloud
Dime size hail was reported at Rainsville along with several reports of funnel clouds.									
Dekalb County									
Geraldine to Rainsville	02	1250CST 1315CST			0	0	20K	0	Thunderstorm Wind (G60)
Several trees and power lines were blown down from near Geraldine to Fyffe to Rainsville. A few homes received minor roof damage and several roads were temporarily flooded from heavy rain in a short period of time. Over 1,000 customers were without power for several hours due to lightning strikes and wind.									
Tuscaloosa County									
3 E Echola	02	1310CST			0	0	0	0	Hail (1.00)
Tuscaloosa County									
Tuscaloosa	02	1340CST 1353CST			0	0	0	0	Hail (0.75)
Quarter size hail was reported in the Sipsey River bottom area east of Echola. Dime size hail was reported at the toll booth for the bridge and in downtown Tuscaloosa.									
Tuscaloosa County									
Tuscaloosa	02	1425CST 1700CST			0	0	5K	0	Flash Flood
Heavy rains with slow moving thunderstorm dropped over 3 inches of rain on Tuscaloosa, Northport, and the surrounding area. Numerous streets were flooded. Most of the flooding was confined to roads creating an inconvenience more than anything else. Several cars were flooded out by the flash flooding in the Tuscaloosa and Northport.									
Tuscaloosa County									
Taylorville	02	1438CST			0	0	0	0	Hail (0.75)
Hail up to dime size was reported at Taylorville by storm spotters.									
Tuscaloosa County									
5 S Tuscaloosa	02	1441CST			0	0	0	0	Hail (0.75)
Dime size hail was reported by EMA south of Tuscaloosa on Bear Creek Road.									
Pickens County									
4 W Pickensville	02	1610CST			0	0	3K	0	Hail (1.75)
Pickens County									
4 W Pickensville	02	1610CST			0	0	0	0	Thunderstorm Wind (G50)
Golf ball size hail was reported west of Pickensville. Several trees were also reported down.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Limestone County									
Athens	03	1159CST 1220CST			0	0	25K	0	Thunderstorm Wind (G60)
Strong thunderstorm wind downed trees and power lines in and around Athens. Downed power lines contributed to power outages for about 6,000 customers of the Athens Utilities.									
Cherokee County									
Centre	03	1200CST			0	0	25K	0	Lightning
Lightning struck the steeple of the Shiloh Baptist Church on Bay Springs Road during a thunderstorm. The lightning started a fire which heavily damaged the roof, the main sanctuary, and the foyer. Additional damage was done by the smoke and the water used to put out the fire.									
Madison County									
Huntsville	03	1230CST			0	0	15K	0	Lightning
Lightning knocked out five power substations operated by Huntsville Utilities. Service was disrupted to about 5,000 customers for several hours.									
Cleburne County									
Borden Spgs	03	1237CST			0	0	2K	0	Hail (1.75)
Golf ball size hail was reported by a storm spotter in northern Cleburne County at Borden Springs.									
Madison County									
Huntsville	03	1300CST			0	0	2K	0	Thunderstorm Wind (G50)
Several large trees were reported down in west Huntsville at Airport Road and Weatherlee Road.									
Cullman County									
Walter	03	1315CST			0	0	0	0	Hail (0.75)
Dime size hail was reported at Walter east-northeast of Hanceville.									
Blount County									
4 SSW Blountsville	03	1333CST			0	0	3K	0	Thunderstorm Wind (G50)
Trees were reported down between Blountsville and Nectar.									
Tallapoosa County									
Alexander City	03	1415CST			0	0	0	0	Hail (1.00)
Alexander City PD reported hail all over the city ranging from dime to quarter size.									
Tallapoosa County									
Alexander City	03	1415CST 1420CST			0	0	5K	0	Thunderstorm Wind (G55)
Several trees and power lines were blown down in Alexander City. Numerous power outages occurred throughout the city and many roads were temporarily flooded and closed due to high water and downed trees.									
Cullman County									
Bethel	03	1431CST			0	0	2K	0	Hail (1.00)
Quarter size hail was reported at Bethel west of Cullman. Dime size hail was also reported in the northwest corner of the county.									
Blount County									
Cleveland	04	1243CST			0	0	0	0	Hail (1.00)
Hail up to the size of a quarter fell in Cleveland.									
Blount County									
Oneonta	04	1250CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Oneonta.									
Cullman County									
Crane Hill	04	1332CST			0	0	5K	0	Hail (1.75)
Golfball size hail was reported near Cranehill southwest of Cullman.									
Cleburne County									
Hopewell	04	1350CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported near Hopewell east of Heflin.									
Chilton County									
Clanton	04	1407CST			0	0	0	0	Hail (0.75)
Dime size was reported near Clanton.									
Cleburne County									
Union Hill	04	1410CST			0	0	0	0	Hail (1.00)
Quarter size hail fell near Union Hill about one mile north northeast of Hightower.									
Dekalb County									
Valley Head	04	1410CST			0	0	2K	0	Hail (1.00)
Quarter size hail fell near Valley Head.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Talladega County									
Talladega	04	1430CST			0	0	8K	0	Hail (1.75)
Golfball size hail was reported just east of the city of Talladega.									
Randolph County									
6 W Newell	04	1435CST			0	0	0	0	Hail (0.75)
Dime size hail was reported near Fosters Crossroads west of Newell.									
Calhoun County									
Ohatchee	04	1440CST			0	0	3K	0	Hail (1.00)
Quarter size hail fell in Ohatchee.									
Clay County									
Ashland	04	1448CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Ashland.									
Cleburne County									
7 NE Heflin	04	1452CST			0	0	0	0	Hail (1.00)
One inch diameter hail was reported by a pilot about 7 miles northeast of Heflin.									
Etowah County									
Southside	04	1453CST			0	0	3K	0	Hail (1.00)
Dime to quarter size hail was reported in Southside.									
Calhoun County									
Anniston	04	1500CST 1507CST			0	0	10K	0	Hail (1.75)
Quarter to golfball size hail was reported around the city of Anniston. Dime size hail fell in the Piedmont area. A multi-car accident occurred on Interstate 20 due to hail and heavy rainfall but no injuries were reported.									
Lee County									
Opelika	04	1525CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Opelika and also in the Plainview area.									
Lee County									
2 S Opelika	04	1540CST			0	0	0	0	Hail (1.00)
Quarter size hail fell just south of Opelika.									
Dallas County									
5 NW Selma	04	1800CST			0	0	5K	0	Hail (1.75)
Golfball size hail was reported northeast of Selma near Potters' Station.									
Lauderdale									
Antioch	05	0110CST			0	0	0	0	Hail (0.75)
Dime size hail was reported just northeast of Antioch.									
Lauderdale									
Florence	05	0115CST 0123CST			0	0	0	0	Hail (0.75)
Dime size hail fell in Florence.									
Morgan County									
7 W Hartselle	05	0204CST			0	0	5K	0	Thunderstorm Wind (G50)
One large tree fell through the roof of a mobile home and severely damaged it. No injuries were reported.									
Cullman County									
Fairview	05	0210CST			0	0	3K	0	Hail (1.00)
Quarter size hail was reported in Fairview.									
Marshall County									
Arab	05	0210CST			0	0	5K	0	Thunderstorm Wind (G50)
Numerous trees and power lines were blown down in Arab and in other parts of the county.									
Cullman County									
Fairview to Vinemont	05	0215CST 0225CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in Fairview. Dime size hail was reported in Cranehill. A carport was blown over and nickel size hail occurred in Vinemont.									
Cullman County									
Cullman	05	0220CST 0230CST			0	0	15K	0	Thunderstorm Wind (G60)
Several trees were blown down in Cullman. One mobile home had its roof ripped off and at least one vehicle was severely damaged from falling debris.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Marshall County									
Boaz	05	0220CST			0	0	2K	0	Thunderstorm Wind (G50)
			Power lines were blown down near Boaz.						
Blount County									
Snead	05	0235CST			0	0	5K	0	Hail (1.00)
			Quarter size hail was reported in Snead.						
Cullman County									
Cullman	05	0255CST			0	0	0	0	Thunderstorm Wind (G50)
			Trees were blown down on US 278 just west of Cullman.						
Jefferson County									
Birmingham	05	0330CST			0	0	0	0	Thunderstorm Wind (G50)
			Trees were blown down on 5th Ave South in Birmingham.						
Shelby County									
Helena	05	0350CST			0	0	0	0	Thunderstorm Wind (G50)
			A few large trees were blown over and blocking the road in the Dearing Downs Subdivision.						
Elmore County									
Holtville	05	1910CST			0	0	0	0	Thunderstorm Wind (G52)
			Trees were blown down and winds were reported at 60 mph near Holtville.						
ALZ023									
Tuscaloosa									
	09	1425CST			0	2	3K	0	High Wind (G43)
			Two workers were slightly injured when strong wind from a nearby thunderstorm caused the open-sided structure they were under at a lumber yard on the west side of Tuscaloosa to collapse. A couple of storage trailers at the nearby Goodrich plant were tipped over, too. Wind at the Tuscaloosa airport less than two miles away peaked at 37 knots (43 mph).						
Clay County									
Lineville	09	1850CST 1852CST			0	0	25K	0	Thunderstorm Wind (G65)
			What appeared to be a rather typical evening thunderstorm produced an apparent downburst that downed trees and power lines on the south and west side of Lineville. A storm survey of the damage confirmed a divergent pattern in the scattered tree damage. Several large structures including an armory and a high school gymnasium sustained minor roof damage. The most significant damage occurred when a large limb - about a foot and a half in diameter - crashed through the roof of a well-built brick home. The area of damage was about 4 tenths of a mile wide and just short of a mile in length.						
Jefferson County									
Birmingham	14	1730CST 1930CST			0	0	500K	0	Flash Flood
			Three to six inches of rain fell across portions of Jefferson County in just over one hour. The hardest hit areas were Southside, Leeds, Birmingham, Homewood, Irondale, and Mountain Brook. Numerous roads were flooded and subsequently closed in all locations. A few feet of water flowed into more than 20 homes and over 19 businesses. Several motorists were trapped in their vehicles and had to be rescued from the high water.						
Chambers County									
Standing Rock	14	1845CST 1945CST			0	0	8K	0	Flash Flood
			Heavy rainfall of three to six inches fell across northern Chambers County in a few hours. Water was a few feet deep covering CR 228 in Standing Rock, north of Lafayette. The water pushed a few trees down and the debris was also covering the road.						
Autauga County									
Prattville	15	1500CST 1650CST			0	0	150K	0	Flash Flood
			Rainfall up to six inches in a little more than one hour, caused 60 square blocks of streets and businesses to fill with three feet or more of water. At least one dozen homes also received flooding. Numerous roads were closed and many auto accidents were caused by the heavy rainfall.						
Elmore County									
Millbrook	15	1500CST 1650CST			0	0	3K	0	Flash Flood
			Many streets in downtown Millbrook were flooded from a one to three inches of rain in a short period of time.						
Randolph County									
Roanoke	16	1700CST 1900CST			0	0	40K	0	Flash Flood
			Rainfall up to ten inches in a few hours caused flooding throughout the city of Roanoke. Numerous roads were closed and a few homes had water in them. One family was temporarily trapped in their home before being rescued by the fire department.						
Marengo County									
Sweet Water	24	0145CST			0	0	3K	0	Thunderstorm Wind (G50)
			Power lines were blown down in Sweet Water.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Tuscaloosa County									
6 E Samantha	24	1320CST			0	0	0	0	Thunderstorm Wind (G50)
Trees were blown down on SR 69 just north of Windham Springs.									
Tuscaloosa County									
Tuscaloosa	24	1345CST			0	0	6K	0	Hail (1.00)
Quarter size hail was reported in Tuscaloosa. Trees were blown down near Northport.									
Etowah County									
Countywide	25	1745CST 2015CST			0	0	40K	0	Flash Flood
Three to 6 inches of rain fell in a few hours mainly across southern Etowah County. The hardest hit areas included; Hokes Bluff, Glencoe, Rainbow City, and Gadsden. Numerous roads across the county were flooded with up to three feet of water and several roads were closed. Several homes had water flow into them and at least 14 families had to be evacuated. Several motorists were trapped in their vehicles and had to be rescued by the Fire Department. Numerous lightning strikes knocked out power temporarily across the area.									
Calhoun County									
Piedmont	25	1915CST 2015CST			0	0	2K	0	Flash Flood
State Troopers closed CR 19 southwest of Piedmont. The highway had several feet of water across it with large branches seen floating by. Several inches of rain fell in a short period of time mainly in rural northern Calhoun County.									
Elmore County									
Countywide	27	1200CST 1430CST			0	0	20K	0	Flash Flood
More than two inches of rain fell in a short period of time resulting in flooding. Several roads were flooded and closed and a few homes had flood damage.									
Autauga County									
Prattville	27	1230CST 1400CST			0	0	35K	0	Flash Flood
One to two inches of rain occurred in less than one hour causing some flooding. Numerous streets in downtown Prattville were flooded and closed. One bridge was washed away in northeastern Autauga County.									
Blount County									
Oneonta	27	1400CST 1500CST			0	0	5K	0	Flash Flood
One to two inches of rain occurred in less than one hour causing high water. Many roads and low lying areas were flooded in downtown Oneonta.									
Montgomery									
Montgomery	27	1400CST 1500CST			0	0	2K	0	Flash Flood
One to two inches of rain occurred in less than one hour producing high water. Many roads and low lying areas were flooded in the city of Montgomery.									
Madison County									
Huntsville	28	0045CST 0800CST			1	1	1.5M	0	Flash Flood
Heavy rainfall of four to seven inches, most of which occurred in just less than two hours, flooded the Huntsville area. According to newspaper reports, one woman was killed when her car stalled on a flooded bridge on Vermont Road. As she exited the car, she was swept away in the water. A television cameraman was injured when he was swept away by high water while filming. He was rescued by the Huntsville Fire Department. Several other motorists were stranded in high water and were rescued by the fire department. Numerous roads in the area were flooded and subsequently closed. Many local streams and creeks were out of their banks, sending several feet of water into approximately 300 homes and businesses. Several residents were rescued from their homes. Several thousand area customers were without power through the early morning hours due to lightning strikes. A mudslide occurred in Monte Sano State Park covering part of the park road. F29VE									
Lauderdale									
Green Hill	28	0100CST 0300CST			0	0	20K	0	Flash Flood
Several roads around Green hill were flooded. The EMA reported that a few automobiles were washed off the roads but no injuries were sustained. Some flooding was also reported along Shoal Creek in central Lauderdale County.									
Colbert County									
Muscle Shoals	28	0130CST 0330CST			0	0	35K	0	Flash Flood
Several roads and businesses were flooded from heavy rainfall of two to four inches of rain.									

Storm Data and Unusual Weather Phenomena

June 1999

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

ALABAMA, North Central

Marshall County

Boaz	28	0200CST 0600CST			0	0	8K	0	Flash Flood
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Heavy rainfall of three to four inches during the early morning hours caused some flooding. Several roads were temporarily closed in the Boaz area due to water covering the roads. Several area creeks and streams were out of their banks for a brief period causing additional flooding.

Jefferson County

Birmingham	28	0520CST			0	0	0	0	Heavy Rain
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According to newspaper reports, one motorists was killed when the automobile hydroplaned during a heavy rainfall event. The car was traveling on Interstate 20 in Birmingham when it slid across the median into oncoming traffic. One other motorists received minor injuries in the accident. Several vehicles were stalled in high water at a flood prone intersection in Birmingham. Trees fell down as a result of the saturated ground in Homewood and also in Ensley. Several thousand customers were temporarily without power in the Birmingham area due to the lightning strikes accompanying the storms.

Lee County

Countywide	28	0735CST 1230CST			0	0	1.5M	0	Flash Flood
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Four to six inches of rainfall in a short period of time caused extensive flooding throughout Lee County. The hardest hit areas were Auburn and Opelika. Numerous roads and highways were closed in and around Auburn and Opelika. Numerous motorists drove into the water covered roads and were stranded. A few bridges were washed away and destroyed. Several hundred homes received some sort of flood damage. Many businesses also received damage due to the high water. One small dam also broke in North Auburn.

Jefferson County

Leeds	28	1030CST 1330CST			0	0	300K	0	Flash Flood
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Three to five inches of rain, most in a two hour period, caused area streams and creeks to overflow. According to newspaper reports, at least 18 homes and 14 businesses were flooded. Several roads were flooded and were temporarily closed. Many residents were rescued by the Leeds Fire Department. The Leeds Fire House was also substantially damaged by the high water.

St. Clair County

Moody	28	1030CST 1330CST			0	0	75K	0	Flash Flood
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Three to five inches of rain, most in a two hour period, flooded several businesses along Moody Parkway. According to newspaper reports, a few homes were flooded and a couple of roads were closed due to high water.

St. Clair County

Moody	28	1110CST 1300CST			0	0	10K	0	Flash Flood
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Numerous roads around the city of Moody were covered with high water and were subsequently closed. US 411 was flooded in three different areas and closed. One home was flooded with at least one foot of water.

Marshall County

Albertville	28	1500CST			1	1	0	0	Heavy Rain
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Heavy rainfall earlier in the day caused many local creeks and streams to rise significantly. According to newspaper reports, a 3 year old boy drowned and an 8 year old boy sustained minor injuries while canoeing on a rain swollen creek after heavy rains had ended. The incident occurred on Drum Creek at US 431 in Albertville.
M8BO

Autauga County

Prattville	30	1600CST 1615CST			0	0	10K	0	Thunderstorm Wind (G50)
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Several buildings just southwest of Prattville sustained wind damage to their awnings and overhangs.

Tallapoosa County

Alexander City	30	1630CST 1930CST			0	0	120K	0	Flash Flood
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More than two inches of rain fell in a short period of time around Alexander City. Numerous roads were flooded and had to be temporarily closed. Several homes and businesses sustained water damage. A dam was also severely damaged due to the volume of water.

Elmore County

Countywide	30	1630CST 1800CST			0	0	0	0	Flash Flood
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Several county roads were flooded due to heavy rainfall.

Cleburne County

Countywide	30	1730CST 1830CST			0	0	3K	0	Flash Flood
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Several roads were flooded between Edwardsville and Fruithurst. Additional road flooding occurred in Heflin.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, Southeast</u>									
Geneva County									
Geneva	05	1615EST			0	0	150K		Lightning
A home was set ablaze by lightning and completely destroyed.									
Geneva County									
Geneva	05	1615EST 1620EST			0	0	25K		Thunderstorm Wind
Winds smashed windows at a local auto dealership and downed numerous trees throughout the city.									
<u>ALABAMA, Southwest</u>									
Choctaw County									
Butler	02	1835CST 1844CST			0	0			Hail (0.88)
Nickel size hail was reported just south of Butler by WPRN Radio.									
Choctaw County									
Butler	02	1844CST 1900CST			0	0	2K		Hail (1.75)
A hailstorm occurred for several minutes, approximately 5 miles SSE of Butler near the community of Griffin Mills . Hail to size of golfballs covered the ground and broke out windows in some vehicles.									
Choctaw County									
Butler	02	1925CST 1935CST			0	0			Hail (0.75)
Dime size hail fell about 5 miles SSE of Butler. The slow south southeast movement of the storm also deposited about 3.5 inches of rain within an hours time.									
Wilcox County									
Pine Apple	04	1830CST 1835CST			0	0			Hail (0.75)
Dime size hail was reported by the public.									
Wilcox County									
Pine Apple	04	1830CST 1835CST			0	0	4K		Thunderstorm Wind (G50)
High winds blew several trees down.									
Wilcox County									
Camden	04	1845CST 1850CST			0	0	4K		Thunderstorm Wind (G50)
High winds blew several trees down.									
Mobile County									
Citronelle	04	1920CST 1922CST			0	0	5K		Thunderstorm Wind (G50)
High winds blew several trees down north of Citronelle.									
Clarke County									
Grove Hill to Gosport	04	1940CST 1945CST			0	0	10K		Thunderstorm Wind (G58)
High winds blew numerous trees and power lines down along US HWY 84 between Grove Hill and Gosport.									
Monroe County									
Claiborne	04	1940CST 1945CST			0	0	5K		Thunderstorm Wind (G58)
Numerous trees were blown down along US HWY 84 .									
Covington County									
Floralia	05	1540CST 1550CST			0	0	10K		Thunderstorm Wind (G58)
Law enforcement officials reported that high winds blew several trees down. Minor damage was also done to a schools roof and siding.									
Baldwin County									
Daphne	08	1432CST 1434CST			0	0			Hail (0.88)
Nickel to dime size hail was reported near Daphne.									
Mobile County									
Mobile	08	1505CST 1507CST			0	0	5K		Thunderstorm Wind (G50)
Several large tree limbs and power lines were blown down near downtown Mobile.									

Storm Data and Unusual Weather Phenomena

June 1999

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

ALABAMA, Southwest

Monroe County

Northeast Portion	16	1200CST 1330CST			0	0	2K		Flash Flood
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Heavy rainfall caused several roads in the northeast part of the county to flood. The roads were mostly dirt and had to be closed for a little over an hour due to washouts and standing water. Weather radars estimated that four to six inches of rain fell in a four hour period in the area. The flooding was generally along State Highway 21 from Beatrice to McWilliams.

Clarke County

North Portion	24	0400CST 0500CST			0	0	2K		Flash Flood
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Heavy rainfall caused several secondary dirt roads to be temporarily closed due to high water. Local weather radars estimated about six inches of rain fell west of Thomasville in a three hour period. No injuries were reported.

Clarke County

Central Portion	27	1730CST 1900CST			0	0	3K		Flash Flood
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Heavy rainfall caused temporary street flooding along secondary roads off of US Hwy 43 between Jackson and Grove Hill. Local weather radars estimated that three to four inches of rain fell in a three hour period. As the storms moved out of the area, the flooded roads quickly drained.

Butler County

South Portion	27	1750CST 2000CST			0	0	3K		Flash Flood
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Heavy rains caused several secondary roads in the south part of the county to flood. The roads had to be closed for about two hours. Weather radars estimated that three to four inches of rain fell across the area in a three hour period.

Crenshaw County

Central Portion	27	1750CST 2100CST			0	0	4K		Flash Flood
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Several roads in the central part of the county had to be closed for several hours due to high water. Weather radars estimated that three to four inches of rain fell across the area in a three hour period. Many of the roads were dirt and some had large ruts in them from the heavy rainfall. These roads had to be closed until they could be repaired.

Wilcox County

Southwest Portion	27	1750CST 1900CST			0	0	2K		Flash Flood
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Heavy rainfall in the southwest part of the county caused several roads to become flooded. These roads had to be closed for more than an hour, until the heavy rainfall moved out of the area. Weather radars estimated that four to six inches of rain fell across the area in a four hour period. Most of the rain fell near the Alabama River and the rainfall quickly ran into the basin.

ALASKA, Northern

Tanana Valley

Southeast Portion	20 21	1200AST 0800AST			0	0			Flash Flood
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Rainfall of up to 1 inch over the eastern Tanana Valley and the Alaska Range produced localized flooding. Eight inches of water covered the Alaska Highway Sunday afternoon at milepost 1336 or 10 miles west of Tananacross. Also there was a partial washout of the Alaska Highway at the Little Gerstle River Bridge.

ALASKA, Southeast

NOT RECEIVED.

ALASKA, Southern

Cook Inlet

11 E Homer	04 05	1700AST 2300AST			0	0	15K	10K	Wild/Forest Fire
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A wildfire began around 5pm Friday, when brisk north winds, following a dry and very modified arctic front, fanned a slash burn on Hutler Road. Embers from the fire apparently blew into tall, dead grass, burned quickly across a meadow and into the dead spruce trees (due to spruce bark beetle kill during the last few years). The fire burned downhill toward East End Road and Kachemak Bay. One mobile home was destroyed and 20 homes were threatened. Close to 75 acres were burned.

AKZ019

Western Alaska Peninsula

	05 06	1530AST 1200AST			0	0			High Wind (G54)
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Locally strong southeast winds were reported around Cold Bay Saturday as a moderate front moved toward the area from the west. Adjusted ASOS gusts reached 62 mph Saturday afternoon and Saturday night. Gusty southeast winds finally diminished below 55 mph just after noon Sunday.

Storm Data and Unusual Weather Phenomena

June 1999

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

ALASKA, Southern

AKZ020

Aleutian Islands

08	1800AST			0	0				High Wind (G50)
10	0800AST								

A vigorous low deepened to a 984 mb center and moved northeast to Amchitka Island early Wednesday. By late Wednesday night, the low was located between Umnak Island and Unalaska with little change in intensity. The low began to weaken and reform southeastward Thursday. Gusty northwest winds on the back side of the low reached close to 60 mph across the central Aleutians. Adak recorded adjusted wind gusts of 58 mph late Wednesday afternoon and early Wednesday night. Satellite imagery suggested stronger winds around Nikolski late Wednesday and early Thursday.

Brisk southeast winds also preceded the front associated with this low. Early Wednesday the front extended from the low in a southward arc through Segum Island. By late Wednesday evening, the front had elongated to a position about 60 miles south of the Pribilofs to Cape Sarichef and southeastward. Southeast wind gusts as high as 50 mph were recorded at the Dutch Harbor airport Wednesday afternoon. Brisk southeast winds also spread into the Cold Bay area where adjusted ASOS gusts reached 50 mph mid afternoon Wednesday.

AKZ015

Cook Inlet

13	1800AST			0	0				High Wind (G55)
14	0900AST								

Brisk southeasterly winds followed a front as it passed north and northwest through Southcentral Alaska Sunday afternoon and night. Gusts reached an adjusted 63 mph at the Portage ASOS between 3 am ADT and 4 am ADT Monday...where winds are greatly influenced by terrain and Portage Glacier. Brisk south to southeast wind gusts from 40 to 55 mph were also recorded around the Prince William Sound area, the Copper River Basin, around Anchorage and into the Susitna Valley. Thunderstorms preceded the front across the western and northern Copper River Basin, the Susitna Valley and the northwest and western Alaska Range.

AMERICAN SAMOA

NOT RECEIVED.

ARIZONA, Central and Northeast

Coconino County

12 SW Meteor City	02	1110MST			0	0	0	0	Thunderstorm Wind (G67)
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Thunderstorm outflow winds were measured at 77 mph by weather spotters at the Meteor Crater.

Coconino County

12 SW Meteor City	02	1430MST			0	0			Thunderstorm Wind (G70)
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The second severe thunderstorm of the day produced outflow winds measured at 81 mph by weather spotters at the Meteor Crater.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

Greenlee County

Duncan	13	1330MST 1345MST			0	0			Thunderstorm Wind (G60)
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Trees blown over

Cochise County

Tombstone	17	1450MST 1455MST			0	0			Hail (0.75)
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Pima County

Green Vly	27	1734MST 1745MST			0	0	10K		Thunderstorm Wind (G60)
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Trees blown down and minor roof damage on a house

ARIZONA, Southwest

Gila County

5 E Globe	17	1640MST			0	0			Hail (0.75)
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Large hail reported along route 70 east of Globe.

ARKANSAS, Central and North Central

Pope County

Scottsville	01	1930CST			0	0			Hail (0.88)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Scott County									
Waldron	01	2015CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds damaged the roof of a restaurant along the Highway 71 bypass near Waldron.									
Scott County									
Boles	01	2030CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed several trees at Boles.									
Scott County									
Y City	01	2030CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed several trees near Y City.									
Polk County									
Cherry Hill	01	2105CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down trees and power lines and damaged some chicken houses at Cherry Hill.									
Garland County									
14 W Hot Spgs	01	2115CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds were estimated around 60 mph 14 miles west of Hot Springs.									
Polk County									
Wickes	01	2125CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees at Wickes.									
Garland County									
6 N Hot Spgs	01	2205CST			0	0			Hail (0.88)
Faulkner County									
Conway	01	2210CST			0	0			Hail (0.75)
Hot Spring									
Malvern	01	2225CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds were estimated around 60 mph at Malvern.									
Pulaski County									
Little Rock	01	2230CST			0	0			Hail (0.75)
Pulaski County									
North Little Rock	01	2232CST			0	0			Thunderstorm Wind (G57)
Thunderstorm winds were estimated around 65 mph in North Little Rock.									
Pulaski County									
Little Rock	01	2235CST			0	0			Hail (1.75)
Hail up to golfball size was reported in Little Rock.									
Pulaski County									
Little Rock	01	2235CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees in Little Rock.									
Pulaski County									
North Little Rock	01	2245CST			0	0			Thunderstorm Wind (G65)
Thunderstorm winds were estimated around 75 mph in North Little Rock.									
Pulaski County									
Little Rock	01	2247CST 2254CST			0	0			Hail (0.75)
Pulaski County									
North Little Rock	01	2249CST			0	0			Hail (0.75)
Pulaski County									
Little Rock	01	2250CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees in Little Rock.									
Pulaski County									
North Little Rock	01	2301CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some power lines in North Little Rock.									
Pulaski County									
Little Rock	01	2315CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees and power lines in Little Rock.									
Jefferson County									
Pine Bluff Arpt	01	2325CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds were measured at 58 mph at the Pine Bluff Airport.									
Jefferson County									
Pine Bluff	01	2325CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Thunderstorm winds downed numerous large tree limbs, with some limbs falling onto and snapping power lines.									
Logan County									
10 S Paris	02	0250CST			0	0			Hail (0.88)
Yell County									
Waveland	02	0310CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some large tree limbs at Waveland.									
Yell County									
Havana	02	0320CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some large tree limbs at Havana.									
Yell County									
5 NE Danville	02	0410CST			0	0			Hail (0.88)
Woodruff County									
Hunter	02	0450CST			0	0			Hail (0.75)
Monroe County									
Holly Grove	02	0732CST			0	0			Hail (0.75)
Monroe County									
Brinkley	06	1500CST			0	0			Hail (0.75)
Monroe County									
Brinkley	06	1500CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees and power lines at Brinkley.									
Scott County									
Hon	07	1605CST			0	0			Hail (0.88)
Lonoke County									
5 W Furlow	08	1320CST			0	0			Hail (0.75)
Pulaski County									
2 E Jacksonville	08	1325CST			0	0			Hail (0.88)
Pulaski County									
Jacksonville	08	1330CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees and power lines near Jacksonville.									
Faulkner County									
5 S Conway	08	1425CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few large tree limbs and power lines 5 miles south of Conway.									
Perry County									
Bigelow	08	1440CST			0	0			Hail (0.75)
Pulaski County									
North Little Rock	09	1830CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew a small office into a riverboat on the Arkansas River in North Little Rock. The office was badly damaged.									
Boone County									
Omaha	10	1000CST			0	0			Hail (0.75)
Boone County									
3 E Omaha	10	1040CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees and power lines 3 miles east of Omaha along Highway 14.									
Pope County									
Atkins	10	1130CST			0	0			Hail (0.75)
Searcy County									
Gilbert	10	1225CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few large tree limbs at Gilbert.									
Marion County									
Oakland	11	0845CST			0	0			Hail (0.75)
Scott County									
Cedar Creek	11	1745CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees near Cedar Creek.									
Pulaski County									
North Little Rock	11	1930CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees in North Little Rock.									
Lonoke County									
Ward	12	1457CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
			Thunderstorm winds knocked down some trees at Ward.						
White County 5 E Rose Bud	12	1500CST			0	0			Hail (0.88)
Pope County Russellville	12	1715CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down about 20 trees in Russellville.						
Perry County 3 SE Perryville	12	1730CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds tore a roof from a trailer and downed several trees and large tree limbs about 3 miles southeast of Perryville.						
Perry County 3 SE Perryville	12	1730CST			0	0			Flash Flood
			Three to four inches of rain washed away driveways and yards about 3 miles southeast of Perryville.						
Independence Batesville	13	1605CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down a few trees in Batesville.						
Independence Batesville	13	1630CST			0	0			Flash Flood
			Excessive rain caused roads to flood in Batesville, with water flowing into several businesses. Also, the water was high enough to float a car in town.						
Prairie County 4 S De Valls Bluff	13	1710CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked a tree down about 4 miles south of DeValls Bluff.						
Drew County Monticello	13	1905CST			0	0			Flash Flood
			Excessive rain caused flooding of roads in Monticello, with water up to car doors in parts of town.						
Jackson County 1.9 S Amagon to 1.9 NE Amagon	23	1715CST 1721CST	3.5	75	0	0			Tornado (F1)
			A weak tornado was spawned in southern Jackson County about 1.9 miles south of Amagon. The tornado moved northeast and damaged a couple of homes and a trailer. A metal shop was also destroyed. Several trees were downed or snapped as well. The tornado moved about 3.5 miles before dissipating.						
Jackson County Amagon	23	1720CST			0	0			Hail (0.88)
Van Buren County 3 N Clinton	24	1217CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down a few trees about 3 miles north of Clinton.						
Van Buren County 3 N Clinton	24	1217CST			0	0			Hail (1.00)
White County 5 NE El Paso	24	1345CST			0	0			Hail (0.75)
Logan County Morrison Bluff	24	1415CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some large tree limbs near Morrison Bluff.						
White County Searcy	24	1430CST			0	0			Flash Flood
			Between one and one-and-a-half inches of rain in less than an hour flooded roads on the east side of Searcy.						
White County Bald Knob	24	1435CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down a few trees at Bald Knob.						
Pope County Atkins	24	1500CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down large tree limbs and power lines in Atkins.						
Conway County Plumerville	24	1500CST			0	0			Hail (1.00)
Polk County Wickes	24	1545CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds caused some roof damage in Wickes.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Faulkner County									
Conway	24	1555CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage at Conway.									
Perry County									
5 NE Bigelow	24	1555CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage about 5 miles northeast of Bigelow.									
Jackson County									
Newport	24	1600CST			0	0			Flash Flood
Two to as much as four inches of rain caused widespread street flooding in Newport.									
Montgomery									
Norman	24	1615CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees at Norman.									
Pulaski County									
5 N Macon	24	1625CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds snapped a tree and blew down a few large tree limbs 5 miles north of Macon.									
Lonoke County									
5 NW Cabot	24	1635CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew a car off of the road and several large tree limbs were downed about 5 miles northwest of Cabot.									
Conway County									
Morrilton	24	1637CST			0	0			Flash Flood
Two to as much as four inches of rain caused some street flooding in Morrilton. A woman had to be rescued when her car was swept into a drainage ditch.									
Pike County									
3 N Murfreesboro	24	1640CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees about 3 miles north of Murfreesboro.									
Garland County									
3 NW Percy	24	1650CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees about 3 miles northwest of Percy.									
Searcy County									
Gilbert	25	2030CST			0	0			Flash Flood
Excessive rain covered several roads with water near Gilbert along the Buffalo River. Several rescues also took place along the river due to high water.									
Polk County									
Mena	25	2315CST			0	0			Flash Flood
Excessive rain covered Highways 8 and 71 with water in and around Mena. Both roads were closed for awhile until the water receded. A few bridges were washed out as well. There were reports of as much as 8 inches of rain in about a 3 hour period.									
Faulkner County									
Vilonia	28	2355CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage at Vilonia.									
Polk County									
Cove	29	1455CST			0	0			Flash Flood
Excessive rain covered Highway 71 with water at Cove, making the road impassible for awhile.									
Logan County									
Caulksville	29	1510CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees near Caulksville.									
Johnson County									
Coal Hill	29	1530CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew a shed onto a car at Coal Hill.									
Johnson County									
Hagarville	29	1550CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees near Hagarville.									
Garland County									
Jessieville	29	1555CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a tree on or near Highway 7 at Jessieville.									
Pope County									
5 N Russellville	29	1620CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees about 5 miles north of Russellville.									

Storm Data and Unusual Weather Phenomena

June 1999

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

ARKANSAS, Central and North Central

Garland County 5 SW Hot Spgs	29	1630CST			0	0	Flash Flood
Excessive rain covered Highway 192 with several inches of water about 5 miles southwest of Hot Springs.							
Garland County 5 SE Hot Spgs	29	1640CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees about 5 miles southeast of Hot Springs.							
Hot Spring Jones Mills	29	1645CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds downed some large tree limbs near Jones Mill.							
Garland County 10 SW Hot Spgs	29	1650CST			0	0	Flash Flood
Excessive rain caused some flooding of secondary roads about 10 miles southwest of Hot Springs.							
Pulaski County Roland	29	1650CST			0	0	Thunderstorm Wind (G52)
Thunderstorm winds were estimated around 60 mph at Roland.							
Conway County 3 SW Center Ridge	29	1700CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees about 3 miles southwest of Center Ridge.							
Lonoke County Ward	29	1725CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds downed several trees and power lines at Ward.							
White County Beebe	29	1730CST			0	0	Thunderstorm Wind (G52)
Thunderstorm winds were estimated around 60 mph at Beebe.							
Lonoke County Ward	29	1730CST			0	0	Hail (0.75)
Bradley County Warren	29	1825CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds downed a few trees near Warren.							
Lincoln County Gould	29	1845CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees at Gould.							
Arkansas County Stuttgart	29	1850CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds downed a tree onto a car on College Street in Stuttgart.							
Arkansas County De Witt	29	1900CST			0	0	Thunderstorm Wind (G50)
Thunderstorm winds damaged a grain elevator at DeWitt.							
Johnson County Clarksville	30	0720CST			0	0	Hail (0.75)
Johnson County Clarksville	30	0800CST			0	0	Flash Flood
Excessive rain caused some street flooding in Clarksville, with water flowing into some businesses.							
Johnson County Oark	30	0915CST			0	0	Flash Flood
Excessive rain flooded several county roads near Oark, with the roads closed for awhile until the water receded.							
Johnson County Lamar	30	1044CST			0	0	Flash Flood
Excessive rain flooded several roads near Lamar with the roads closed for awhile.							
Johnson County Coal Hill	30	1044CST			0	0	Flash Flood
Excessive rain flooded several roads near Coal Hill with the roads closed for awhile.							

ARKANSAS, East

Clay County Corning	01	1802CST 1810CST			0	0	0.01K Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ARKANSAS, East</u>									
Clay County									
Rector	01	1900CST 1905CST			0	0	5K		Thunderstorm Wind
Several power lines were knocked down.									
Clay County									
Rector	03	1755CST 1800CST	1	25	0	0	15K		Tornado (F0)
A tornado briefly touched down just east of Rector. An airplane was turned over. Several large tree limbs were blown down as well.									
Mississippi County									
Big Lake	03	1905CST 1910CST			0	0	0.01K		Hail (0.75)
Mississippi County									
Blytheville	07	1330CST 1335CST			1	0	0		Lightning
A man was killed by a lightning strike while working on the roof of a building. M56OU									
Craighead County									
Jonesboro	10	1400CST 1410CST			0	0	15K		Thunderstorm Wind
Several street lights and utility poles were blown down. Two metal storage buildings were blown down.									
Poinsett County									
Waldenburg to Weiner	23	1730CST 1815CST			0	0	15K		Thunderstorm Wind
A farm shop and a vehicle were damaged. Several trees were knocked down as well.									
Craighead County									
Cash to Otwell	23	1745CST 1820CST			0	0	10K		Thunderstorm Wind
Several trees and power lines were knocked down.									
<u>ARKANSAS, Northwest</u>									
Crawford County									
5 N Van Buren	01	0535CST			0	0			Hail (0.75)
An isolated early morning thunderstorm produced dime-sized hail in the 5400 block of north AR Hwy 59.									
Crawford County									
3 E Van Buren	01	1914CST			0	0			Thunderstorm Wind (G52)
Sebastian County									
Huntington	01	1933CST			0	0			Thunderstorm Wind (G52)
Sebastian County									
Hartford	01	1942CST			0	0	20K		Thunderstorm Wind
Strong winds caused much damage in the Hartford area. All roads in and out of Hartford, except AR Hwy 96, were blocked by fallen trees and power lines. One residence had an electric meter torn off, a barn lost its roof, and the school gymnasium lost its roof. At least one house in Hartford lost its roof. Numerous tree and power lines were blown down.									
Sebastian County									
Mansfield	01	2044CST			0	0			Thunderstorm Wind (G66)
Madison County									
Kingston	01	2100CST			0	0			Hail (0.75)
Scattered severe thunderstorms formed along a cold front as it slowly moved southeast across Northwest Arkansas on the evening of June 1. These storms mainly produced damaging winds and marginally severe hail.									
ARZ019-029									
Crawford - Sebastian									
	02 12	0500CST 2000CST			0	0			Flood
The Arkansas River at Van Buren rose above its flood stage of 22 feet at 600 AM CDT on June 2. The river crested at a level of 23.2 feet at 500 AM CDT on June 3 before falling back below flood stage at 900 PM CDT on June 12.									
Carroll County									
Southeast Portion	10	1515CST 1615CST			0	0			Flash Flood
Several county roads were flooded southeast of Berryville.									
ARZ029									
Sebastian									
	16	0000CST 2359CST			0	0			Record Cool
The high temperature of 74 degrees Fahrenheit at the Fort Smith Regional Airport ties for being the coolest high temperature on									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Northwest									
									record for June 16.
Sebastian County									
Ft Smith	24	1330CST 1530CST			0	0			Flash Flood
									A slow-moving line of thunderstorms dumped between one to two inches of rain in Fort Smith, most of it falling in a 30 to 45 minute time frame. This caused numerous streets to flood and numerous vehicles to stall in Fort Smith. Near 16th and Grand, cars were floating in the floodwaters. A newspaper clipping pictured a van stalled in high water near North 10th and "C" Streets, while another photo showed two women walking in knee-deep water near North 8th and "I" Streets.
Sebastian County									
Ft Smith	24	1331CST			0	0			Hail (0.75)
ARZ019-029									
Crawford - Sebastian	25	0500CST			0	0			Flood
	26	2000CST							
									The Arkansas River at Van Buren rose above its flood stage of 22 feet at 600 AM CDT on June 25. The river crested at a level of 22.5 feet at 800 AM CDT on June 26 before falling back below flood stage at 900 PM CDT on June 26.
Sebastian County									
Ft Smith	25	1800CST 1900CST			0	0			Flash Flood
									For the second day in a row, the city of Fort Smith received a quick burst of heavy rainfall, causing more streets to be closed by high water. The low-water crossing at 66th and Park had water flowing over it.
Sebastian County									
Greenwood	29	1443CST			0	0			Thunderstorm Wind (G52)
Sebastian County									
Hackett	29	1443CST			0	0			Thunderstorm Wind (G52)
Sebastian County									
Ft Smith to Ft Smith Muni Arprt	29	1445CST			0	0	40K		Thunderstorm Wind (G52)
									Winds estimated by spotters of 60 miles an hour damaged several roofs, and a trailer was overturned by the winds near the Wal-Mart Supercenter in east Fort Smith. Also, several trees were blown down, and an Air Guard oubuilding at the Fort Smith Regional Airport was destroyed. The coverage of severe winds was fairly small given a peak wind gust at the airport's nearby weather observing equipment of only 35 knots (39 miles an hour).
Sebastian County									
Barling	29	1500CST			0	0	0.50K		Thunderstorm Wind
									Several trees were blown down in Barling.
Sebastian County									
Barling	29	1500CST			0	0	0.50K		Thunderstorm Wind
									Several trees were blown down in Barling.
Franklin County									
Charleston	29	1502CST			0	0			Thunderstorm Wind (G57)
Crawford County									
Alma	29	1510CST			0	0	50K		Lightning
									A nursing home in Alma caught fire and was destroyed when lightning struck the home. All of the residents were evacuated safely, and none were injured.
Crawford County									
Mulberry	29	1515CST			0	0	3K		Thunderstorm Wind (G52)
									Power lines, a few trees, and numerous 3-4" diameter tree limbs were blown down in Mulberry.
Crawford County									
4 W Alma	29	1518CST 1600CST			0	0			Flash Flood
									US Hwy 64 between Alma and Van Buren was closed for a time by high water. Several streets in Alma were also under water.
Franklin County									
Altus	29	1520CST			0	0	2.5K		Thunderstorm Wind
									Numerous power lines and trees were blown down in Altus. A cluster of severe thunderstorms moved out of eastern Oklahoma and into westcentral Arkansas on the afternoon of June 29 along a nearly stationary front. These storms produced several severe wind reports and excessive rainfall along the Arkansas River valley. The most significant damage occurred in Fort Smith when a short line of storms "bowed" out, producing winds strong enough to cause damage to permanent structures.
Washington									
Johnson	30	0500CST			0	0	75K		Lightning
									Lightning caused a fire that heavily damaged a duplex in Johnson.

Storm Data and Unusual Weather Phenomena

June 1999

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

ARKANSAS, Northwest

Benton County

West Portion	30	0530CST 0630CST			0	0	100K		Flash Flood
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Several roads in western Benton County were flooded, including AR Hwy 43 near Maysville, AR Hwy 12 east of Gentry, and AR Hwy 59 near Sleepy Hollow. AR Hwy 264 was flooded, blocking access to the NW Arkansas Regional Airport.

In Maysville, Beauty Creek overflowed its banks, drowning at least 50,000 2-week old chickens at one chicken farm. Nearby along AR Hwy 43 two houses were flooded as well as several vehicles parked nearby. The water in one of the houses was apparently so high that the refrigerator was floating. Several propane tanks floating down the creek became lodged under the Hwy 43 bridge. The Maysville Baptist Church was also lightly flooded.

Near Decatur and Gentry, the bridge across the rain-swollen Flint Creek was completely submerged. There was also flood damage to Wagon Wheel Road and Butler Road.

Madison County

Japton	30	0530CST 0630CST			0	0	10K		Flash Flood
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A bridge on a county road was washed out near Japton.

Washington

North Portion	30	0530CST 0630CST			0	0	450K		Flash Flood
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In Springdale, US Hwy 71B was flooded. High water forced the closing of Gutensohn Road just north of Sunset Avenue and bridges at Silent Grove and Shady Grove Roads.

In Fayetteville, creeks overflowed into several neighborhoods, including the low-lying Willow Springs subdivision in west Fayetteville, where several homes sustained several thousand dollars in flood damage. The area near 18th Street and Beechwood Avenue, which connects to AR Hwy 16, was also flooded. Garland Avenue, which becomes AR Hwy 112, was flooded in places. The corner of AR Hwy 16 and AR Hwy 265 also flooded.

Damage to roads throughout Washington County was estimated at \$400,000. Initial assessments showed damage to 50 miles of county roads with four bridges destroyed, impassable or needing significant repairs. Among the worst hit was a low-water bridge over the War Eagle River on Washington County Road 526, also known as Gar Hole Road, which collapsed after being undermined by raging flood waters. Other bridges damaged include a bridge on County Road 872 near the Harmon community, a low-water bridge on County Road 203 and a small bridge on County Road 2002 near the Black Oak community.

Washington

Fayetteville	30	0800CST 0840CST			0	0	50K		Lightning
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Lightning caused fires at two separate homes in Fayetteville between 9:00 and 9:40 AM CDT.

Sebastian County

Ft Smith	30	0820CST 0920CST			0	0	250K		Flash Flood
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There was major street flooding in Fort Smith. Several homes on Briarcliff Drive were flooded with up to four feet of water. None of the homes were in a designated flood plain. The Red Cross assessed major damage to five homes and minor damage to six homes. A woman had to be rescued from the top of her car when the car stalled in high water on South 28th Street near I-540.

Crawford County

South Portion	30	0840CST 0940CST			0	0	50K		Flash Flood
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A subdivision around Rickey Circle on the east side of Van Buren saw considerable flooding, causing some residents to abandon their homes. Employees at Van Buren's Industrial Park had to leave work late in the morning by boat. Firefighters helped evacuate two residences on Flat Rock Circle. In all, firefighters responded to nine flood-related calls and assisted stranded motorists in two of those incidents. Police rescued a woman and her infant child who were stranded by flood waters on Northview Drive. Several downtown Van Buren businesses were flooded with several inches of water. Portions of US Hwys 64 and 71 between Van Buren and Alma were closed by flooding for a time. AR Hwy 59 in Van Buren was also closed for a time. A portion of Rudy Road had to closed briefly when the road was covered by 8 feet of water from the flooding Frog Bayou. Flash floods also hit portions of Orrick Road east of Alma. Otherwise, there was lots of street flooding in Van Buren. Damage to county roads was at least \$50,000.

Franklin County

Ozark	30	0845CST 0945CST			0	0			Flash Flood
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There was lots of street flooding in Ozark. Several streets were impassable. Several homes and businesses were affected by the flooding.

Major flash flooding resulted across northwest Arkansas when a line of thunderstorms, containing torrential rainfall and associated with a nocturnal MCS, moved slowly southeastward across northwest Arkansas on the morning of June 30. Major flash flooding was

Storm Data and Unusual Weather Phenomena

June 1999

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

ARKANSAS, Northwest

reported in several locations, most notably in the Fort Smith area and western Benton County.

The following are rainfall amounts measured at major airports across the region: NW Arkansas Regional Airport (Highfill)...3.20", Fort Smith Regional Airport...2.62", and Drake Field (Fayetteville)...2.39". This came on top of an already-wet spring and measurable rainfall in the two days preceding this event.

ARZ019-029

Crawford - Sebastian

30	1000CST			0	0			Flood
	2359CST							

The Arkansas River at Van Buren rose above its flood stage of 22 feet at 1100 AM CDT on June 30. The river continued to rise at the close of June. Refer to the July 1999 Storm Data publication for crest information.

ARZ019

Crawford

30	1800CST			0	0			Flood
	2000CST							

The Lee Creek at Van Buren rose above its flood stage of 23 feet at 700 PM CDT on June 30. The creek quickly crested at 23.1 feet at 800 PM CDT before falling back below flood stage at 900 PM CDT that same evening.

ARKANSAS, Southeast

Ashley County

Countywide	29	1910CST			0	0	2K	Thunderstorm Wind
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Large limbs were blown down throughout the county.

ARKANSAS, Southwest

Howard County

Dierks	01	2115CST			0	0	14K	Thunderstorm Wind (G65)
		2315CST						

Tree fell on a house.

Howard County

Umpire	01	2207CST			0	0		Thunderstorm Wind (G61)
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Numerous trees and powerlines down.

Hempstead

4 N Fulton	26	1515CST			0	0		Lightning
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Lightning blew a pine tree apart showering the roadside (Hwy 67) with kindling and knocking out power to the town.

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

NONE REPORTED.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

Madera County

8 SE Madera to 8.2 SE Madera	02	1723PST			0	0		Funnel Cloud
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Short-lived funnel spotted within line of convective activity by trained spotter.

Storm Data and Unusual Weather Phenomena

June 1999

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

CALIFORNIA, South Central

Fresno County

5 NNW (Fat) Air Terminal to 10 N (Fat) Air Terminal	02	1750PST 1830PST						4.7M	Small Hail
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While not meeting severe thunderstorm criteria, a line of late spring thunderstorms ran across north-central Fresno and to the east of Fresno. Hail just less than 3/4-inch in diameter was deposited to the depth of 2 inches accompanied by gusty wind to at least 30 MPH and locally heavy rain bringing widespread street flooding. Some power outages were reported throughout the Fresno City north and east sides from a line of thunderstorms that passed through the area from just before 7 PM PDT to half-past the hour. Spotters reported rainfall rates of 0.60 inches in 15 minutes in north-central Fresno...overall precipitation varied from 3/4-1 inch of rain over a 2-hour period along the storms' paths. Agriculture sustained damage from the hail with foliage and blossoms stripped on vines, and fruit and nut crops damaged from 10 to 100 percent in locations north, east, and southwest to southeast of Fresno. The damage figure is estimated for all of Fresno County, including the hail from the southwest-to-southeast of Fresno.

Fresno County

4 W Easton to 3 NW Fowler	02	1800PST 1815PST							Small Hail
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While not meeting severe thunderstorm criteria in hail size, the intolerance of local agriculture to any hail during the growing season led to damage among nut crops, stone fruit, and vineyards. The hail was reported just less than 3/4-inch.

Kern County

4 S Mettler to 4.5 S Mettler	29 30	1200PST 2359PST							Wild/Forest Fire
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Digier Fire. Burned 350 acres in the far south end of the San Joaquin Valley. No structures were lost and there were no injuries. Cost to contain the blaze by 7/1/99 unknown.

CALIFORNIA, Southeast

NONE REPORTED.

CALIFORNIA, Southwest

San Diego County

Pala to Rancho Bernardo	02	0200PST 0400PST						30K	Thunderstorm Wind
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Thunderstorm winds damaged power poles and blew tree branches into electric wires, resulting in power outages to 8000 customers in Pala, San Pasqual, Rincon, Escondido, and Rancho Bernardo.

CAZ055

San Bernardino County Mountains

	02	0629PST 0820PST		0	15			30K	Fog
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Dense fog dropped visibilities to 20 feet in the Cajon Summit on Interstate 15 during the morning commute. Ten separate crashes occurred involving 30 vehicles.

Orange County

12 W Laguna Beach	03	1825PST 1837PST							Waterspout
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CAZ055>056-058

San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains

	03	2107PST						25K	Winter Storm
	04	0515PST							

A late winter storm dumped three inches of snow at elevations above 5500 feet. It was the latest date on record that measurable snow had been observed.

Orange County

1 W San Clemente	04	1150PST							Funnel Cloud
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San Diego County

2 SE Banner to Banner	09 11	1400PST 1800PST						150K	Wild/Forest Fire
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A wild fire, fanned by erratic winds, consumed 700 acres, destroyed one historic wooden structure, forced the evacuation of 21 residents, and injured 2 firefighters.

CAZ058

San Diego County Mountains

	14	0900PST						0	24	Excessive Heat
	15	1600PST								

A group of men who had walked north from the Mexican Border near Tecate were found east of Julian suffering from dehydration and hypothermia. Skies were clear during their transit, daytime temperatures ranged between 100 and 117 degrees, and winds were southerly near 15 mph.

Storm Data and Unusual Weather Phenomena

June 1999

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

CALIFORNIA, Southwest

San Diego County

Del Mar to Ocean Beach	14	2100PST 2200PST			0	0	10K	Heavy Surf
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The combination of long period swells and spring tides caused minor flooding and beach erosion in the Del Mar area, and forced the closure of Ocean Beach Pier .

Orange County

3 W Huntington Beach	23	1635PST 1700PST			0	3	250K	Heavy Surf
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Choppy seas and large swells capsized a 34 foot fishing boat. The crew of three men were rescued and suffered only minor injuries.

San Diego County

Mission Beach	27	1100PST			0	1		Rip Currents
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An 18 year old male was caught in a rip current and drowned, but lifeguards were able to revive him after 45 minutes of CPR.

San Diego County

3 N Boulevard to 4 N Boulevard	27	1155PST			0	0		Wild/Forest Fire
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28 0900PST
About 1500 acres of brush was burned in a wild fire along McCain Valley Road in remote eastern San Diego County. About 300 firefighters battled the blaze.

San Diego County

3.5 NE San Diego	29	1515PST 1600PST			0	0	200K	Wild/Forest Fire
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A wild fire in a canyon destroyed one duplex and threatened several other residences .

CALIFORNIA, Upper

CAZ011>012

	05	1409PST			0	0		Extreme Cold
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06 0800PST
A Freeze warning was issued for Modoc county and a frost warning was later issued for Siskiyou/Modoc counties. Although some of the stations reported temperatures in the middle 30s and probably had frost, none met the criteria for a Freeze warning.

CAZ011>012

	06	1404PST			0	0		Extreme Cold
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07 0800PST
A Freeze Warning was issued for Modoc and eastern Siskiyou counties. Although several stations reported freezing temperatures, none met warning criteria. Yreka, just outside the warning area, did meet criteria with a low temperature of 31 degrees...15 degrees below normal.

CAZ011-011>012

	07	1404PST			0	0		Extreme Cold
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08 0800PST
A Freeze Warning was issued for Eastern Siskiyou and Modoc counties. Although several stations reported freezing temperatures, none met warning criteria. A Frost Warning was issued for western Siskiyou county at 2200 LST. Frost was likely in both the freeze and frost warning areas.

CAZ011

	08	1500PST			0	0		Extreme Cold
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09 0800PST
A Freeze Warning was issued for eastern Siskiyou county. Although several stations reported freezing temperatures, none met warning criteria. However, frost probably did develop in this area.

CAZ011

	24	1029PST			0	0		Extreme Cold
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25 0800PST
A Frost Warning was issued for eastern Siskiyou county. Although no frost was reported, some low temperature readings in the 30s indicate that frost probably did develop.

CAZ011>012

	25	0340PST			0	0		Extreme Cold
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26 0800PST
A Frost Warning was issued for Modoc and eastern Siskiyou counties. Although no frost was reported, numerous low temperature readings in the 30s indicate that frost probably did develop.

Storm Data and Unusual Weather Phenomena

June 1999

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

CALIFORNIA, West South Central

Los Angeles

2 W Palos Verdes Estates 03 1715PST 0 0 **Funnel Cloud**

A weather spotter reported a funnel cloud west of Palos Verdes.

Los Angeles

4 S San Pedro 03 1730PST 0 0 **Funnel Cloud**

Los Angeles County Fire Department reported three funnel clouds south of San Pedro, just off Point Fermin.

Los Angeles

Manhattan Beach 18 1000PST 1 0 **Rip Currents**

A young female drowned when a strong rip current pulled her into a deep drop off.
F12IW

CALIFORNIA, Western

NONE REPORTED.

COLORADO, Central and Northeast

Elbert County

8 SE Matheson 02 1650MST 0 0 0 0 **Thunderstorm Wind (G53)**

Larimer County

7 W Campion 02 1934MST 0 0 0 0 **Thunderstorm Wind (G56)**

COZ035-039

Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Eastern

06 0510MST 0 0 0 0 **High Wind (G77)**
0600MST

High winds developed for a short time in and near the foothills of Boulder County. The Gamow Tower on the CU Campus registered a peak wind gust to 87 mph (77 kts), with a peak gust to 71 mph (62 kts) atop Niwot Ridge.

Jefferson County

3 W Evergreen 10 1305MST 0 0 **Hail (1.00)**

Jefferson County

7 W Golden 10 1320MST 0 0 **Hail (1.75)**

Jefferson County

Lakewood 10 1350MST 0 0 **Hail (1.00)**

Jefferson County

Wheat Ridge 10 1355MST 0 0 **Hail (1.00)**

Denver County

Denver 10 1403MST 0 0 **Hail (1.13)**

Adams County

Commerce City 10 1425MST 0 0 **Hail (1.50)**

Denver County

Denver Intl Arpt 10 1500MST 0 0 **Hail (1.00)**

Denver County

Denver Intl Arpt 10 1501MST 0 0 **Thunderstorm Wind (G50)**

Adams County

Bennett to 7 E Bennett 10 1530MST
1545MST 0 0 **Thunderstorm Wind (G60)**

Damaging thunderstorm winds developed between Bennett to near Strasburg. High winds blew half a metal roof off a shed in a Bennett lumberyard. A small barn was also levelled between Bennett and Strasburg.

Adams County

3 E Manila 10 1530MST 0 0 **Thunderstorm Wind (G50)**

Adams County

Aurora 10 1650MST 0 0 **Hail (0.75)**

Adams County

35 NE Bennett 10 1700MST 0 0 **Hail (1.75)**

Washington

Lindon 10 1737MST 0 0 **Hail (1.75)**

Washington

4 W Anton 10 1750MST 0 0 **Hail (2.75)**

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Washington									
6 SE Lindon	10	1805MST			0	0			Hail (1.75)
Washington									
6 SE Lindon	10	1805MST			0	0			Thunderstorm Wind (G52)
Washington									
5 E Anton to 10 E Anton	10	1840MST			0	0			Hail (1.50)
Strong winds and large hail flattened crops, causing substantial damage. The areal extent of the damage occurred along a 5 mile stretch along U.S. Highway 36 and extended north and south of the highway for 2 miles. In addition to the crop damage, some windows were blown out near Lindon.									
Douglas County									
4 NE Castle Rock	11	1200MST			0	0			Hail (1.00)
Douglas County									
Castle Rock	11	1235MST			0	0			Hail (1.00)
Douglas County									
Sedalia	11	1326MST			0	0			Hail (1.00)
Douglas County									
Franktown	11	1329MST			0	0			Hail (1.00)
Adams County									
Aurora	11	1345MST			0	0			Hail (1.00)
Adams County									
Aurora	11	1348MST			0	0			Hail (0.88)
Elbert County									
4 S Elizabeth	11	1403MST			0	0			Hail (0.75)
Douglas County									
12 SE Franktown	11	1440MST 1540MST			0	3	3M		Hail (1.75)
Large hail, up to golfball size and accumulating several inches deep, caused a large section of a corrugated metal roof of a greenhouse complex to collapse. About a third of the roof covering the 30,000 square foot building collapsed. Thirty five workers were trapped in the debris, 3 people were treated for minor injuries. Hail piled up 1-2 feet deep blocked the roadways, slowing down emergency vehicles. Damage to the building was estimated to be around \$3.0 million.									
Lincoln County									
21 NW Karval	11	1915MST			0	0			Hail (1.00)
Lincoln County									
4 W Karval	11	1925MST			0	0			Hail (0.75)
Larimer County									
2 N Estes Park	12	1229MST			0	0	0		Hail (0.75)
Park County									
Bailey	12	1231MST			0	0	0		Hail (1.25)
Elbert County									
Simla	12	1405MST			0	0			Hail (0.75)
Weld County									
Hudson	12	1445MST			0	0			Hail (1.50)
Jefferson County									
Evergreen	14	1340MST			0	0	0		Lightning
Lightning sparked two small fires at separate residences near the Hiwan Country Club.									
Adams County									
Aurora	14	1350MST			0	0			Hail (1.50)
Adams County									
Aurora	14	1352MST			0	0			Hail (0.75)
Adams County									
Aurora	14	1402MST			0	0	35M		Hail (1.00)
Damage from several hailstorms that struck areas in and near the Denver Metropolitan area from June 11th-14th totalled \$35 million. Approximately \$17.5 million was from automobile claims, with another \$17.5 million in homeowner claims. The areas hardest hit by the storms included: Castle Rock, Commerce City, Evergreen and Golden.									
Weld County									
Eaton	17	1605MST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1999

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

COLORADO, Central and Northeast

Weld County

Eaton 17 1605MST 0.1 25 0 0 **Tornado (F0)**
A small tornado touched down, but did no damage.

Larimer County

Livermore 19 1425MST 0 1 0 0 **Lightning**
A 10-yr old boy was struck by lightning at a Boy Scout ranch. He was treated for minor injuries and released.

Adams County

Brighton 20 2230MST
 2300MST 0 0 0 **Lightning**
Lightning sparked an oil tank fire near Brighton.

Denver County

**(Den)Denver Intl
Arp** 22 1322MST 0 0 **Thunderstorm Wind (G55)**

Elbert County

Elbert 22 1347MST 0 0 **Thunderstorm Wind (G63)**

Denver County

Denver 23 1905MST
 1914MST 0 0 **Hail (1.00)**

Arapahoe County

Littleton 23 1929MST 0 0 **Hail (0.75)**

Weld County

Ft Lupton 25 1320MST 1 0 **Thunderstorm Wind (G50)**
Strong thunderstorm winds toppled an oil rig. A 37-yr old man was killed when he fell 55 feet from the derrick of the rig. M37OT

Logan County

21 SE Sterling 25 1705MST 0 0 **Hail (1.50)**

Phillips County

12 SSE Haxtun 25 1750MST 0 0 **Hail (2.00)**

Logan County

5 N Iliff 26 1950MST 0.2 50 0 0 **Tornado (F1)**

Logan County

3 N Crook 26 1955MST 0.2 50 0 0 100K **Tornado (F1)**

Sedgwick County

5 W Sedgwick 26 1955MST 0 0 **Hail (1.75)**

Logan County

Iliff 26 1957MST 0.2 50 0 0 **Tornado (F1)**

Logan County

Iliff 26 2045MST
 2100MST 0 0 **Hail (0.75)**

Phillips County

5 NW Holyoke 26 2110MST 0 0 **Hail (1.75)**

Phillips County

Holyoke 26 2115MST 0 0 **Hail (1.75)**

Phillips County

8 NE Holyoke 26 2120MST 0 0 **Hail (1.75)**

Phillips County

11 SE Holyoke 26 2135MST 0 0 **Hail (1.00)**

Phillips County

11 E Holyoke 26 2140MST 0 0 **Hail (1.75)**

Portions of the Northeast Plains were hammered by a variety of severe weather during the evening hours. Large hail, tornadoes, straight-line winds, heavy rain and flooding did extensive damage in Logan, Sedgwick and Phillips Counties. Several tornadoes reportedly touched down. A newly built home was struck 3 miles north of Crook, damaging nearly two thirds of the residence. Tornado touchdowns were also reported in and near Iliff.

Several barns, crops, farm equipment, grain bins and fences were either damaged or destroyed. Approximately 80 power lines were downed near Crook along with several trees as large hail and damaging winds moved through the area. Some livestock was also injured. Flooding also developed as several creeks jumped their banks. A number of county roads were washed out. Some roadways were covered by as much as 4 feet of water in spots. An exact estimate of the damage throughout the tri-county areas was not available.

Storm Data and Unusual Weather Phenomena

June 1999

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

COLORADO, Central and Northeast

Logan County

Peetz 27 2115MST 0 0 Hail (2.75)

Logan County

Crook 27 2130MST 0 0 Hail (1.75)

Logan County

Peetz 27 2140MST 0.1 25 0 0 Tornado (F0)

Sedgwick County

Ovid 27 2230MST 0.2 50 0 1 Tornado (F1)

More severe thunderstorms moved across Logan and Sedgwick Counties. Large hail, damaging straight-line winds and tornadoes caused additional damage. Several trees and power lines were reportedly downed. A tornado overturned an empty cattle truck near Ovid. The driver received only minor injuries.

COLORADO, East Central

Kit Carson

Flagler 02 1550MST 0 0 Hail (1.00)

Yuma County

Joes 02 1655MST 0 0 Hail (0.88)

Yuma County

9 SE Yuma 02 1750MST 0 0 Hail (0.75)

Yuma County

7 W Wray 02 1825MST 0 0 Hail (2.50)

Yuma County

6 N Laird 02 1856MST 0 0 Hail (1.00)

Yuma County

5 N Wray 02 1904MST 0 0 Hail (2.50)

Yuma County

12 N Laird 02 1915MST 0 0 Hail (1.50)

Kit Carson

Flagler 02 1550MST 0 0 Hail (1.00)

Yuma County

Joes 02 1655MST 0 0 Hail (0.88)

Yuma County

9 SE Yuma 02 1750MST 0 0 Hail (0.75)

Yuma County

7 W Wray 02 1825MST 0 0 Hail (2.50)

Yuma County

6 N Laird 02 1856MST 0 0 Hail (1.00)

Yuma County

5 N Wray 02 1904MST 0 0 Hail (2.50)

Yuma County

12 N Laird 02 1915MST 0 0 Hail (1.50)

Kit Carson

Flagler 10 1845MST
2020MST 0 0 Flash Flood

Kit Carson

18 N Flagler 10 1900MST 0 0 Hail (0.75)

Yuma County

5 SW Joes 10 1920MST 0 0 Hail (0.88)

Yuma County

4 N Kirk 10 1943MST 0 0 Hail (1.75)

Kit Carson

Seibert 10 1945MST 0 0 Hail (0.88)

Kit Carson

12 N Vona 10 1958MST 0 0 Hail (0.75)

Kit Carson

14 N Burlington 10 2040MST 0 0 Hail (2.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, East Central									
Kit Carson 10 N Peconic	10	2110MST			0	0			Hail (2.75)
			Windows broken out by large hail at farmstead.						
Kit Carson 14 N Burlington	10	2135MST			0	0			Flash Flood
			More than four inches of water of road 385.						
Kit Carson Flagler	10	2149MST			0	0			Thunderstorm Wind (G50)
Yuma County 8 NNE Joes	10	2200MST			0	0			Flash Flood
			Several roads covered with water.						
Kit Carson 12 SW Stratton	10	2234MST			0	0			Hail (1.00)
Kit Carson 12 SW Stratton	10	2234MST			0	0			Thunderstorm Wind (G87)
Kit Carson 12 N Seibert	10	2332MST			0	0			Flash Flood
			A quarter of a mile stretch of highway 59 covered by water.						
Yuma County 8 NE Joes	11	0000MST			0	0			Flash Flood
			Secondary roads flooded between Joes and Bonny Reservoir.						
Cheyenne County 16 S Aroya	11	2023MST			0	0			Hail (1.00)
Yuma County Kirk	22	1615MST			0	0			Thunderstorm Wind (G60)
			4 Inch diamter tree limbs broken by strong winds.						
Cheyenne County 2 SE Kit Carson	25	1748MST			0	0			Hail (0.75)
Kit Carson 5 N Vona	25	1800MST			0	0			Hail (0.75)
Cheyenne County 9 NNE Kit Carson	26	2045MST			0	0			Hail (0.75)
Cheyenne County 9 NNE Kit Carson	26	2045MST			0	0			Thunderstorm Wind (G60)
			Window screens ripped from house.						
Yuma County 22 N Laird	26	2145MST			0	0			Hail (1.00)
Yuma County 15 N Laird	28	0010MST	0.2	100	0	0			Tornado (F0)
Yuma County 2 SSW Beecher Is	28	0120MST			0	0			Hail (0.75)
Kit Carson 14 N Bethune	28	0130MST			0	0			Hail (0.75)
Cheyenne County 13 E Kit Carson	30	0545MST			0	0			Hail (0.75)
Cheyenne County 6 S Kit Carson	30	0625MST			0	0			Hail (1.50)
Yuma County Laird	30	0645MST			0	0			Hail (0.88)
Kit Carson 17 N Vona	30	2123MST			0	0			Hail (0.88)
Kit Carson 14 N Burlington	30	2135MST			0	0			Hail (1.75)
Kit Carson 8 NW Bethune to 10 NW Bethune	30	2144MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, East Central</u>									
Kit Carson									
Burlington	30	2200MST			0	0			Hail (2.75)
Kit Carson									
1 E Burlington	30	2215MST			0	0			Hail (2.50)
Kit Carson									
16 SE Burlington	30	2220MST			0	0			Hail (1.00)
Cheyenne County									
Arapahoe	30	2327MST			0	0			Hail (0.88)
<u>COLORADO, South Central and Southeast</u>									
Baca County									
3 W Pritchett	02	1635MST 1640MST			0	0			Hail (0.75)
Kiowa County									
5 SSW Towner	08	1520MST 1525MST			0	0			Hail (1.00)
Kiowa County									
5 E Sheridan Lake	08	1700MST 1705MST			0	0			Hail (1.00)
Prowers County									
3 W Bristol	08	1715MST 1720MST			0	0			Hail (0.75)
Prowers County									
20 S Holly	09	1625MST 1634MST	0.1	50	0	0			Tornado (F0)
A brief tornado over open country caused no known damage.									
El Paso County									
7 NE Colorado Spgs	09	1745MST 1750MST			0	0			Hail (0.75)
El Paso County									
5 NNE Colorado Spgs	09	1745MST 1750MST			0	0			Hail (1.00)
El Paso County									
2 S Peyton	09	1858MST 1903MST			0	0			Hail (1.00)
Las Animas									
Trinidad	10	1340MST 1345MST			0	0			Hail (0.75)
Las Animas									
Trinchera	10	1450MST 1455MST			0	0			Hail (1.00)
El Paso County									
Monument	11	1437MST 1500MST			0	0			Hail (1.00)
A massive, long-lasting hail fall produced hail depths of 1 to 2 feet, mainly in eastern sections of Monument. A final tally on damage amounts was not available as of late August.									
El Paso County									
Palmer Lake	11	1504MST 1530MST			0	0			Funnel Cloud
Custer County									
Rosita	11	1538MST 1550MST			0	0			Hail (1.75)
El Paso County									
Black Forest	11	1557MST 1630MST			0	0			Hail (2.50)
A massive, long-lasting hail fall, with stones ranging from 1/2 inch to 2.5 inches in diameter, piled up to depths of 1 to 2 feet with hail drifts to 4 feet in heavy runoff areas. A final tally on damage amounts was not available as of late August.									
El Paso County									
10 N Colorado Spgs	11	1600MST 1605MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
El Paso County									
7 NNE Colorado Spgs	11	1630MST 1635MST			0	0			Hail (0.75)
El Paso County									
7 ENE Colorado Spgs	11	1658MST 1703MST			0	0			Hail (1.00)
El Paso County									
Ellicott	11	1720MST 1742MST			0	0			Hail (1.00)
El Paso County									
10 SE Colorado Spgs	11	1722MST 1727MST			0	0			Hail (0.75)
El Paso County									
2 SE Fountain	11	1743MST 1748MST			0	0			Hail (0.75)
El Paso County									
Fountain	11	1747MST 1752MST			0	0			Hail (1.50)
El Paso County									
6 E Ellicott	11	1757MST 1802MST			0	0			Hail (1.00)
		Hail up to 6 inches deep on highway 24.							
Pueblo County									
Colorado City	11	1930MST 1935MST			0	0			Hail (0.75)
Pueblo County									
Colorado City	11	1945MST 1950MST			0	0			Hail (0.75)
Huerfano County									
Walsenburg	11	2009MST 2014MST			0	0			Hail (1.00)
Crowley County									
Ordway	11	2036MST 2041MST			0	0			Hail (0.88)
El Paso County									
3 SSW Colorado Spgs	12	1430MST 1435MST			0	0			Hail (0.75)
Pueblo County									
Pueblo	14	1334MST 1336MST			0	0			Hail (0.75)
Pueblo County									
Pueblo	14	1430MST 1500MST			0	0			Urban/Sml Stream Fld
		1 foot of water at the intersection of Troy Avenue and Highway 50.							
Rio Grande									
8 W Del Norte	17	1520MST 1530MST			0	0			Hail (1.00)
Rio Grande									
Monte Vista	17	1527MST 1532MST			0	0			Hail (1.25)
El Paso County									
Black Forest	23	2021MST 2026MST			0	0			Hail (1.00)
Baca County									
14 SSW Walsh to 19 SSE Walsh	29	1300MST 1328MST	7	100	0	0	25K		Tornado (F1)

A supercell which moved southeast through Baca county produced the following three tornados. A tornado began just northwest of the intersection of county road R and country road 42. It moved southeast and struck a ranch complex, destroying a concrete block garage and damaging a vehicle inside. Roof damage was done to the nearby house. The tornado continued to move southeast, then almost due south between ranch houses before lifting 7 miles after initial touchdown.

Storm Data and Unusual Weather Phenomena

June 1999

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

COLORADO, South Central and Southeast

Baca County

**16 SSW Walsh to
17 S Walsh** 29 **1305MST
1315MST** 2 50 0 0 **Tornado (F0)**

A tornado, possibly a landspout, roughly paralleled the path of the initial tornado with this supercell. Path width and length, as well as timing are estimates. There was no known damage.

Baca County

**22 SSE Walsh to
25 SSE Walsh** 29 **1338MST
1348MST** 4 100 0 0 **Tornado (F0)**

As the supercell moved farther southeast, a tornado began about one mile northeast of a residence and moved over open country and across the Cimarron River in far southeast Baca county. It dissipated over open country near the Colorado - Kansas - Oklahoma borders. The tornado caused no known damage.

El Paso County

4 S Rush 30 **0130MST
0135MST** 0 0 **Hail (0.75)**

Kiowa County

1 N Eads 30 **0620MST
0625MST** 0 0 **Hail (1.00)**

Prowers County

10 NE Lamar 30 **0733MST
0738MST** 0 0 **Hail (1.00)**

A hail fall northeast of Lamar lasted about 30 minutes and took out a 1 1/2 mile wide strip of wheat, corn, and alfalfa. No firm damage amount was available as of late August.

Kiowa County

4 W Towner 30 **2009MST
2014MST** 0 0 **Hail (1.00)**

Kiowa County

4 S Towner 30 **2014MST
2020MST** 0 0 **Hail (1.75)**

Kiowa County

6 N Towner 30 **2200MST
2205MST** 0 0 **Hail (0.75)**

COLORADO, West

Archuleta County

12 NW Pagosa Spgs 02 **1200MST
1210MST** 0 0 **Thunderstorm Wind (G60)**

Strong outflow winds from a thunderstorm blew down several large pine trees near a residence in the southwest San Juan Mountains.

COZ008

Central Colorado River Basin/Eagle And Vicinity
02 **1400MST** 0 0 **100K** **High Wind (G90)**

Strong winds associated with an approaching cold front intensified down the Colorado River valley near Dotsero, blowing a large steel bridge off its moorings and into the Colorado River. The bridge, located just north of Dotsero near the confluence of the Colorado River and Eagle River, was 250 feet long and 25 feet wide. The twisted remains of the bridge had to be removed from the river.

COZ021

Four Corners/Upper Dolores River/Cortez And Vicinity
02 **1400MST** 0 0 **3K** **High Wind (G65)**

Strong winds ahead of a cold front blew down several power poles and knocked down trees across power lines. The resultant power outages lasted from several hours in some areas to nearly a day in the Dunton area.

Mesa County

**Fruita to
2 W Fruita** 02 **1420MST
1430MST** 0 0 **2K** **Thunderstorm Wind (G60)**

A thunderstorm produced strong winds which were measured as high as 69 MPH (60 knots). Sections of wooden fences and some signs were blown down, as well as numerous tree branches.

COZ021

Four Corners/Upper Dolores River/Cortez And Vicinity
05 **0500MST
1000MST** 0 0 **4K** **Extreme Cold**

A late freeze destroyed some commercially grown grapes, as well as many garden vegetables.

COZ004

Elkhead And Park Mountains/Flat Tops/White River Plateau
05 **2000MST** 0 0 **Heavy Snow**
06 **0600MST**

A cold front moving across the area resulted in 4 to 8 inches of new snow.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>COLORADO, West</u>									
Montezuma 8 N Cortez	17	1300MST 1310MST			0	0	8K		Thunderstorm Wind (G65)
									A thunderstorm which moved into the area from the northwest produced strong winds which peeled off a 1000 square foot metal roof from a two-story building. The office on the second-story was exposed to heavy rains which followed the strong winds.
Mesa County Grand Jct	17	1708MST 1718MST			0	0	5K		Thunderstorm Wind (G60)
									A line of thunderstorms moved across the Grand Junction area from the west, blowing down a number of trees. The steel vents on the roof of a bank were blown off and a large sign was blown off an office building. The peak wind speed measured at Walker Field Airport (KGJT) was 55 MPH (48 knots). Stronger winds were estimated by law enforcement personnel in other parts of the Grand Valley.
Mesa County 1 S De Beque	20	1500MST			0	0			Wild/Forest Fire
									Lightning ignited vegetation on an Island in the Colorado River.
Montrose County 2 W Olathe	21	1646MST			0	1			Lightning
									Lightning struck a man and his two dogs as the man was irrigating on his property. The charge entered the man's head and blew a hole in his left boot where the charge exited. Both dogs were killed instantly.
Mesa County 2 SW Mack to 18 N Mack	23	1700MST 1800MST			0	0			Wild/Forest Fire
									Numerous lightning strikes resulted in 16 brush fires extending from the Black Ridge Wilderness Study area northward to the Demaree Wilderness Study area south of Douglas Pass.
Montrose County 2 S Naturita	26	1500MST			0	0			Wild/Forest Fire
									Lightning ignited a fire which eventually consumed more than 500 acres of pinion-juniper forest.
<u>CONNECTICUT, Northeast</u>									
CTZ002 Hartford	07	1300EST			0	0			Record Heat
									High pressure near Bermuda brought a southwest flow of hot and humid air to Connecticut. At Bradley International Airport in Windsor Locks, the high temperature of 98 degrees broke the previous record high of 96 degrees, which was set in 1925.
Hartford County Canton	07	1755EST			0	0			Hail (1.25)
Hartford County Canton	07	1755EST			0	0			Thunderstorm Wind (G50)
Hartford County Canton	07	1827EST			0	0			Hail (0.75)
									Scattered thunderstorms developed in advance of a cold front moving east from the Ohio Valley. One severe thunderstorm in Hartford County downed trees and wires in Canton, and produced half dollar sized hail. A second severe thunderstorm about half an hour later produced dime sized hail in Canton.
<u>CONNECTICUT, Northwest</u>									
CTZ001 Litchfield	07	1200EST 1700EST			0	0			Excessive Heat
									On June 7, the season's second Bermuda High brought the first 90 degree weather of 1999 to northwest Connecticut. At the Albany International Airport it was the first official 90 degree temperature since August 16, 1997. The temperature did not stop there, but soared all the way to 95 degrees. This value tied the daily record for the date last set in 1925. The combination of heat and humidity produced heat indices as high as 100 to 105 degrees during the hottest portion of the day. High temperatures were similar in Litchfield county. There were no unusual problems or power outages reported due to the excessive heat.
Litchfield County Winchester Center	07	1725EST 1731EST			0	0	4K		Hail (1.25)
Litchfield County Winchester Center	07	1738EST			0	0	2K		Hail (1.00)
Litchfield County Winchester Center	07	1738EST			0	0	3K		Thunderstorm Wind (G60)
Litchfield County New Hartford	07	1740EST			0	0	0		Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

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

CONNECTICUT, Northwest

Litchfield County

Bakersville 07 1755EST 0 0 0 **Hail (0.75)**

Litchfield County

Winchester Center 07 1802EST 0 0 0 **Hail (0.75)**

Litchfield County

Torrington 07 1808EST 0 0 0 **Hail (0.75)**

Litchfield County

New Hartford 07 1815EST
1825EST 0 0 5K **Hail (1.50)**

An extremely unstable airmass on June 7 resulted in scattered severe thunderstorms late in the afternoon across Litchfield County. The thunderstorms produced large hail dime size and larger. Hail of dime to nickel size was reported at Torrington, and Bakersville. New Hartford reported walnut size hail. Winchester Center was especially hard hit with dime to quarter size hail occurring four separate times in the course of an hour. In addition, a wind gust was clocked at 60 mph at Winchester Center.

Litchfield County

Sharon 28 1815EST 0 0 50K **Lightning**

Lightning from a thunderstorm struck a house in Sharon, Litchfield County. The result was a fire that gutted a portion of the building.

CONNECTICUT, Southern

Fairfield County

Danbury 29 1400EST 0 0 **Thunderstorm Wind (G50)**

As a severe thunderstorm moved northeast across Northern Fairfield County, it produced high winds and heavy rain that downed trees and power lines in Danbury. More than 600 residents in Danbury lost power during the thunderstorm.

DELAWARE

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

01 0000EST 0 0 **Unseasonably Dry**
30 2359EST

Unseasonably dry weather continued throughout the month of June across Delaware. On a county weighted average June monthly precipitation averaged between 1.8 and 2.3 inches and was only about 55 percent of normal. Only the Dover local area came close to normal precipitation. The lack of rain added to longer term precipitation shortages. By the end of the month the Palmer Drought Severity Index rated the entire state as being in severe drought.

Farmers were reporting stunted crop growth. Because of the lack of rain, they were not planting soybeans. There was increasing costs because of the need for early irrigation. Irrigation equipment companies reported a 500 percent increase in sales. They were working 15 to 16 hours a day to keep up with the demand. By the end of the month topsoil moisture conditions were rated as 42 percent short, subsoil moisture conditions were 36 percent short and pastures were 28 percent short or very short of moisture.

The ongoing drought had other affects beyond agriculture. Water levels in shallow water table observation wells were all below normal. Daily streamflow conditions continued below average. The Red Clay Creek near Wooddale (New Castle County) was notching new daily streamflow lows. Flow along the White Clay Creek was half of normal and was so low that Newark (New Castle County) was on the verge of ceasing to pump water from the creek and start buying it from United Water of Delaware.

Precipitation totals for the month included 4.04 inches in Dover (Kent County), 2.63 inches in Greenwood (Sussex County), 2.55 inches in Lewes (Sussex County), 2.12 inches in Georgetown (Sussex County), 1.90 inches at the Porter Reservoir (New Castle County) and 1.63 inches at the New Castle County Airport.

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

07 0900EST 0 5 **Excessive Heat**
09 1900EST

A large high pressure system over the southeastern United States pumped in a hot and humid air mass across the Delmarva Peninsula for three days. The hottest day was the 8th. A weak trough brought in slightly cooler and considerably drier air on the 9th, although high temperatures still reached around 90 degrees. A stronger backdoor cold front (it moved from north to south) brought in considerably cooler air into the region the evening of the 9th. High temperatures reached 98 degrees in Milford (Kent/Sussex County Line) and Salisbury, MD, 97 degrees in Georgetown (Sussex County) and 94 degrees at the New Castle County Airport.

There were five heat related illnesses reported in Wilmington on the 7th. Many schools in the state had early dismissals on the 8th. A fan drive was initiated for the elderly within Wilmington and the city's Department of Health and Social Service Division of Public Health issued safety and health related warnings. People were not the only ones to suffer, the Automobile Association of America (AAA) responded to about 180 calls of disabled vehicles throughout the state on the 7th.

DISTRICT OF COLUMBIA

DCZ001

District Of Columbia

01 0000EST 0 0 **Drought**
30 2359EST

Storm Data and Unusual Weather Phenomena

June 1999

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

DISTRICT OF COLUMBIA

High pressure was the dominant weather feature across the Washington D.C. metropolitan area during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. By the last week of June the Palmer Drought Index, a measure of long term drought conditions, indicated Washington D.C. was in a severe drought. June was the 8th month in the past 12 months that precipitation was below normal. From July 1998 through June 1999 precipitation was a staggering 14 inches below average, the 3rd driest 12 months on record. Washington Reagan National Airport reported a monthly total of 2.26 inches, 1.12 inches below normal. Measurable rain only fell on 8 days during the month, and 1.32 inches of the total fell on the 16th. The lack of precipitation affected water reserves. The flow of water down the Potomac River at Washington D.C. hovered around 18% of average, and many new record low daily flows were recorded in upstream tributaries of the river. Monthly flow rates along the basin have been below average for the last 10 months. Unusually high proportions of river flow, 33%, were diverted from the river into public water supplies during the month. The normal diversion rate is about 5%.

DCZ001

District Of Columbia

07	0800EST	0	0	Unseasonably Warm
09	2000EST			

High pressure centered over the Southeast U.S. caused air to downslope over the Appalachian Mountains, sending afternoon temperatures into the upper 90s to lower 100s. The heat, in combination with very humid air, resulted in afternoon heat indices between 100 and 110 degrees. Dupont Circle in Northwest Washington reported a high temperature of 100 degrees on the 7th, 8th, and 9th. The high temperature at Washington Reagan National Airport on the 7th was 98 degrees, which broke a record high of 97 degrees set in 1899. The high at National Airport on the 8th was 98 degrees, which also broke a record high of 97 degrees set in 1899. George Washington University reported a high temperature of 99 degrees on the 8th. The mercury climbed to 98 degrees again at National Airport on the 9th, but failed to break the record high of 102 degrees set in 1874. Nighttime lows only dipped into the upper 70s, making the overnight hours very uncomfortable for those without air conditioning. As a result of the heat, a pollution alert was issued for the Washington D.C. metropolitan area on the 7th, and D.C. authorities opened 5 "cooling shelters" for area residents during the heat of the day. Schools in the District cancelled classes on the 8th and 9th because many buildings did not have air conditioning. Low water pressure was reported in parts of Northeast Washington near the Anacostia River on the 8th and 9th, and was attributed to the high use of water during the unusually warm period.

FLORIDA, East Central

Brevard County

4 E Titusville	03	1230EST	0	0	Funnel Cloud
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The observer at the Titusville Executive Airport reported seeing a funnel cloud over the Indian River Lagoon.

Volusia County

Deltona	03	1430EST	0	0	Hail (0.75)
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Osceola County

Kissimmee	03	1635EST	0	0	Hail (1.75)
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Lake County

5 S Bay Lake	03	1725EST	0	0	Hail (0.75)
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Lake County

Groveland	03	1756EST	0	0	Hail (0.75)
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Lake County

Leesburg	03	1940EST	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down trees and power lines in the Leesburg area.

Lake County

Astatula	03	1955EST	0	0	Hail (0.75)
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Volusia County

Osteen	04	1415EST	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down power lines and trees along Route 415 south of Osteen.

Seminole County

Sanford	04	1418EST	0	0	Hail (0.75)
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Orange County

Orlando	04	1425EST	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees in Orlando.

Orange County

Orlando	04	1445EST	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down three trees in the Orlando area.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, East Central									
Orange County									
Winter Park	04	1445EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a few trees in Winter Park and adjacent areas of Orlando.
Orange County									
2 SW Orlando	04	1500EST			0	0	40K		Thunderstorm Wind (G60)
									Thunderstorm winds produced minor to moderate damage to seven homes in southwest Orange County.
Orange County									
Winter Park to Winter Garden	04	1500EST			0	0			Hail (1.00)
									One inch hail fell and a few power lines were blown down around Winter Park.
Orange County									
Winter Park	04	1500EST			0	0			Hail (1.00)
Osceola County									
Narcoosee	04	1542EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm winds blew down numerous trees and power lines in the Narcoosee area.
Lake County									
Leesburg	04	1605EST			0	0			Hail (0.75)
Lake County									
5 S Leesburg	04	1605EST			0	0			Hail (0.75)
Orange County									
Vineland	09	1655EST			0	0			Hail (1.00)
Orange County									
Walt Disney World	09	1658EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down trees on the Walt Disney World complex.
Indian River									
Fellsmere	10	1527EST			0	0			Hail (0.75)
Indian River									
4 NW Vero Beach	10	1607EST			0	0			Hail (0.75)
St. Lucie County									
Ft Pierce	11	1230EST			0	2			Lightning
									A father and daughter were seriously injured by lightning on Hutchison Island while setting under a large tree.
Volusia County									
Daytona Beach	13	1400EST			1	0			Rip Currents
									A 28 year old man drowned when he was pulled away from the shore by a rip current. Lifeguards from Stuart to Daytona Beach reported large numbers of rescues due to rip currents. M28IW
Brevard County									
Rockledge to Port St John	17	1525EST 1630EST			0	0	20K		Flash Flood
									Afternoon heavy rains in excess of four inches produced widespread flooding of major roadways across central and northern Brevard County. The most serious flooding occurred across Rockledge, Cocoa and Merritt Island. US Highway 520 and State Road 3 were flooded. Numerous cars were flooded and abandoned.
Lake County									
Altoona	20	1400EST			0	3			Lightning
									Three people received minor injuries when the farm shed they were in was struck by lightning.
Orange County									
Orlando	22	1540EST			0	0			Hail (1.00)
Osceola County									
Kissimmee	22	1550EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm winds blew down trees and signs and blew shingles off of roofs in Kissimmee.
Orange County									
Apopka	30	1625EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down trees and power lines in Apopka.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Extreme Southern									
Monroe County									
Summerland Key	03	0955EST 1000EST			0	0			Waterspout
		1 mile south of Sugarloaf Key							
Monroe County									
Marathon	05	1155EST 1205EST			0	0			Waterspout
		20 miles southeast of Key Colony Beach							
Monroe County									
Summerland Key	05	1559EST 1606EST			0	0			Waterspout
		6 miles south of Sugarloaf Key							
Monroe County									
Big Pine Key	05	1630EST 1641EST			0	0			Waterspout
		Waterspout reported 5 miles north of Big Pine Key							
Monroe County									
(Eyw)Key West Inl Ar	05	1650EST 1702EST			0	0			Waterspout
		waterspout reported 2 miles south of EYW							
Monroe County									
(Eyw)Key West Inl Ar	10	1715EST 1717EST			0	0			Waterspout
		waterspout reported 3 miles west of EYW							
Monroe County									
(Eyw)Key West Inl Ar	10	1736EST 1740EST			0	0			Waterspout
		waterspout 5 miles north of EYW							
Monroe County									
(Eyw)Key West Inl Ar	10	1743EST 1747EST			0	0			Waterspout
		waterspout 5 miles northwest of EYW							
Monroe County									
(Eyw)Key West Inl Ar	10	1749EST 1752EST			0	0			Waterspout
		waterspout 3 miles north of EYW							
Monroe County									
Stock Is	11	2100EST			0	0			Thunderstorm Wind (G50)
		A steel frame roof was blown off a building in Safe Harbor. Eyewitness estimates wind gusts 50 to 60 mph.							
Monroe County									
(Eyw)Key West Inl Ar	16	1730EST 1733EST			0	0			Waterspout
		waterspout 7 miles south of EYW, hit dive boat but caused no damage.							
Monroe County									
(Eyw)Key West Inl Ar	21	1341EST 1350EST			0	0			Waterspout
		waterspout 5 miles northeast of EYW							
Monroe County									
(Nqx)Key West Nas	22	0722EST 0726EST			0	0			Waterspout
		waterspout 4 miles north of Boca Chica							
Monroe County									
Summerland Key	22	1043EST 1045EST			0	0			Waterspout
		Waterspout 1 mile north of Sugarloaf Key							
Monroe County									
Marathon	23	1027EST 1030EST			0	0			Waterspout
		waterspout 1/2 mile north of Marathon							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>FLORIDA, Extreme Southern</u>									
Monroe County (Eyw)Key West Intl Ar	23	1905EST 1907EST			0	0			Waterspout
			waterspout 8 miles southeast of EYW						
Monroe County (Eyw)Key West Intl Ar	25	0813EST 0818EST			0	0			Waterspout
			waterspout 9 miles east of EYW						
Monroe County (Eyw)Key West Intl Ar	29	1520EST 1527EST			0	0			Waterspout
			waterspout 8 miles north of EYW						
Monroe County (Eyw)Key West Intl Ar	29	1525EST 1530EST			0	0			Waterspout
			waterspout 5 miles north of EYW						
<u>FLORIDA, Northeastern</u>									
Union County 4 NE Providence	03	1430EST			0	0	20K		Thunderstorm Wind
			Roof blown off mobile home. Large trees and power lines were blown down.						
Duval County Mandarin	03	1535EST			0	0			Hail (2.00)
Duval County Jacksonville	03	1552EST			0	0			Hail (0.75)
Nassau County Yulee	03	1700EST			0	0	2K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Duval County 5 S Jacksonville	03	1720EST			0	0	3.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Duval County 8 N Jacksonville	03	1721EST			0	0			Funnel Cloud
Nassau County Callahan	03	1722EST			0	0	0.50K		Thunderstorm Wind
			Large trees were blown down.						
Duval County Jacksonville	03	1725EST			0	0	2.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Columbia County 5 N Lake City	03	1845EST			0	0	1.5K		Thunderstorm Wind
			Large trees were blown down at US-441 & I-10.						
Suwannee County Newburn	03	1850EST			0	0	2K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Alachua County Gainesville	04	1555EST			0	0			Hail (0.75)
Alachua County Gainesville	04	1555EST			0	0			Hail (0.75)
Alachua County Newberry	04	1640EST			0	0			Hail (2.00)
Putnam County Interlachen	04	1734EST			0	0			Hail (0.75)
Putnam County Interlachen	04	1751EST			0	0			Hail (1.50)
Marion County 10 W Ocala	04	1810EST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>FLORIDA, Northeastern</u>									
Nassau County									
Yulee	06	1345EST			0	0	4K		Thunderstorm Wind
		One home with roof damage.							
Duval County									
Arlington	09	1600EST			0	0	5.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Marion County									
Oklawaha	10	1800EST			0	0	2.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Alachua County									
Gainesville	11	1915EST 2015EST			0	0	15K		Flood
		Water accumulating on the roof of the Oaks Mall, drained into the mall at more than 50 gallons per minute.							
Marion County									
Ocala	11	2150EST 2250EST			0	0	2.5K		Flood
		Several roads were closed in Southern Ocala.							
Marion County									
Reddick	13	1725EST			0	0			Hail (0.75)
Marion County									
Ocala	14	1915EST			0	0	2.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Flagler County									
Bunnell	16	1645EST			0	0			Funnel Cloud
Flagler County									
2 E Flagler Beach to 2.3 ENE Flagler Beach	30	1616EST			0	0			Funnel Cloud
Flagler County									
4 SSE Flagler Beach to 4 E Flagler Beach	30	1630EST			0	0			Waterspout
Nassau County									
4 SW Callahan	30	2000EST			0	0	2K		Thunderstorm Wind
		Large trees were snapped off near the base.							
<u>FLORIDA, Northwest</u>									
Walton County									
De Funiak Spgs	01	1600EST			0	0	5K		Lightning
		Lightning struck the Walton County Council on Aging office setting bedding material in a storage room ablaze.							
Jackson County									
Graceville	04	2115EST			0	0	300K		Lightning
		Lightning ricocheted off a tree and struck the roof of the Christian Memorial Chapel funeral home. The blaze gutted the visitation room and destroyed 75 percent of the structure.							
Madison County									
2 N Lee	03	1952EST 1957EST			0	0	75K		Thunderstorm Wind
		Straight-line winds ripped tin roofs off 13 chicken houses and blew over a feed tank. A roof was blown off a barn and debris was strewn across SR 255.							
Madison County									
Lee	03	1957EST			0	0	0.50K	100K	Hail (1.75)
		Hailstorm destroyed 20-acre tobacco crop at a farm on Midway Church Rd. A Lee resident's windshield was shattered by golfball size hail.							
Wakulla County									
Northeast Portion	04	1648EST			0	0	5K		Thunderstorm Wind
		Numerous downed trees and power lines near Wakulla Springs reported by the Wakulla County EMA.							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Northwest									
Leon County									
Tallahassee	04	1955EST 2005EST			0	0			Hail (1.00)
Quarter size hail reported at the Tallahassee Democrat Newspaper office and Governors Square Mall. Public reported dime size hail one mile west of the State Capital building.									
Leon County									
Tallahassee	04	2030EST 2040EST			0	0			Hail (1.75)
Public reported golfball size hail covering ground near the Tallahassee Memorial Hospital.									
Jackson County									
Countywide	04	2100EST 2115EST			0	0	5K		Thunderstorm Wind
Numerous downed trees along SRs 280, 167, 69 and 2 reported by the Jackson County EMA.									
Leon County									
Tallahassee	04	2105EST 2110EST			0	0			Hail (1.25)
Several public reports of dime to half dollar size hail.									
Leon County									
Lake Jackson	04	2115EST			0	0			Hail (0.75)
Public reported dime size hail.									
Leon County									
Tallahassee	04	2134EST 2140EST			0	0	100K		Thunderstorm Wind
Tallahassee P.D. reported a residence and two vehicles damaged by fallen trees. Scattered power outages from downed power lines affected 6,000 customers throughout the city.									
Leon County									
Killearn Estates	04	2137EST			0	0			Hail (0.75)
Public reported dime size hail.									
Liberty County									
Bristol	04	2145EST			0	0	5K		Thunderstorm Wind
Liberty County S.O. reported downed power lines.									
Jefferson County									
Drifton	04	2150EST			0	0	1K		Thunderstorm Wind
Jefferson county S.O. reported two large trees down at intersection of W Lake Rd and Drifton Highway.									
Franklin County									
Countywide	04	2210EST 2225EST			0	0	25K		Thunderstorm Wind
Franklin County S.O. reported downed power lines at Alligator Point, residential fence damaged by fallen trees at Lanark Village, and a large downed tree damaged a vehicle at Carrabelle.									
Madison County									
Greenville	05	1250EST			0	2			Lightning
Madison County EMA reported two youths injured by lightning at the Greenville Academy.									
Walton County									
Gaskin	05	1640EST			0	0			Hail (0.75)
Storm spotter observed dime size hail.									
Walton County									
Gaskin	05	1640EST			0	0	50K		Thunderstorm Wind
Walton County EMA reported damage to a partially constructed home and a roof blown off a barn.									
FLORIDA, Southern									
Palm Beach									
Boca Raton	02	0800EST			0	1			Rip Currents
A 35-year old male nearly drowned in a rip current in the Atlantic north of Palmetto Park Road.									
Palm Beach									
Lake Worth	02	2100EST			0	0	5K		Thunderstorm Wind (G55)
A severe thunderstorm wind gust blew down a tree causing minor damage to a house on White Egret Way									
Dade County									
South Miami Hgts	03	1250EST			0	1			Lightning
Lightning struck the door sill of a house hurling a 22-year old male who was walking through the doorway into the living room. He was transported to the hospital then released.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Southern									
Broward County									
East Portion	08	0800EST 2300EST			0	0	1M		Flash Flood
Dade County									
Northeast Portion	08	0800EST 2300EST			0	0	50K		Flash Flood
Palm Beach									
Southeast Portion	08	0800EST 2300EST			0	0	100K		Flash Flood
Excessive rains caused localized heavy flooding from Boca Raton to Miami Beach. The greatest official 24-hour rainfall was 13.75 inches at Pompano Beach with over 7 inches reported at Boca Raton and Miami Shores. Numerous streets were flooded and several vehicles became submerged in parking lots with their occupants having to be rescued. Three Broward mobile homes had to be evacuated, several roofs collapsed and numerous dwellings had flood waters inside.									
Broward County									
Miramar	09	0800EST 1200EST			0	0			Flash Flood
Street flooding in south Broward forced one family to evacuate their house.									
Broward County									
Miramar	09	0938EST			0	0			Funnel Cloud
The control tower at North Perry Airport reported a funnel cloud near the intersection of University Drive and Pembroke Road.									
Palm Beach									
15 W West Palm Beach	09	1445EST			0	0			Funnel Cloud
Sheriff's Office reported a well-formed funnel cloud near the 20-mile bend.									
Broward County									
2 E Dania	10	0647EST			0	0			Waterspout
Waterspout observed by a pilot over the Atlantic.									
Dade County									
2 E Miami Beach	10	0925EST			0	0			Waterspout
The Beach Patrol observed a waterspout in the Atlantic offshore Miami Beach.									
Broward County									
Cooper	10	1400EST			0	0	10K		Lightning
A lightning-initiated fire burned the attic of a house.									
Palm Beach									
Boynton Beach	10	1420EST			0	0			Funnel Cloud
Emergency Management reported a funnel cloud 1-2 miles west of Jog Road between Hypoluxo and Lantana Boulevards.									
Palm Beach									
5 SW West Palm Beach	10	1428EST			0	0			Funnel Cloud
A funnel cloud was reported over Royal Palm Beach.									
Palm Beach									
5 E West Palm Beach	11	0515EST			0	0			Waterspout
A waterspout was seen in the Atlantic 5 miles east of West Palm Beach.									
Collier County									
20 SE Naples	11	0800EST 2200EST			0	0			Wild/Forest Fire
A lightning-initiated wildfire burned 2400 acres of sawgrass in eastern Collier County, north of Port of the Island.									
Collier County									
2 W Marco	11	1700EST			0	0			Waterspout
A waterspout was sighted in the Gulf of Mexico two miles west of Marco Island.									
Palm Beach									
3 E Boca Raton	14	0630EST			0	0			Waterspout
A waterspout was seen in the Atlantic 3 miles offshore Boca Raton									
Palm Beach									
Jupiter	21	1500EST			0	1			Lightning
A woman talking on the telephone in a house was knocked to floor by the shock of a lightning strike. She was treated and released at a hospital.									
Collier County									
Naples	22	1400EST			0	0	50K		Lightning

Storm Data and Unusual Weather Phenomena

June 1999

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

FLORIDA, Southern

A lightning-initiated fire destroyed a mobile home.									
Broward County									
Miramar	22	1440EST			0	1			Lightning
A 24-year old construction worker was injured by a lightning strike as he stood near a puddle of water at the intersection of Miramar Parkway and Palm Avenue. He was admitted to the hospital.									
Glades County									
20 NE Lakeport	22	1655EST			0	0	20K		Thunderstorm Wind (G65)
Severe thunderstorm winds damaged house roofs, a screened porch and outbuildings.									
Dade County									
Cutler Ridge	23	1330EST			0	0			Hail (0.75)
Dade County									
Cutler Ridge	23	1330EST			0	0			Thunderstorm Wind (G50)
Dime-size hail and 60 mph wind gusts were reported near the Cutler Ridge Mall.									
Broward County									
Coral Spgs	23	1430EST			0	0			Funnel Cloud
Several funnel cloud and pea-size hail were reported were reported by off-duty NWS employee.									
Broward County									
Pompano Beach	24	1410EST	0.1	5	0	0			Tornado (F0)
Police reported a brief tornado touchdown on the Palm Aire Golf Course.									
Broward County									
Coral Spgs	24	1425EST			0	0			Funnel Cloud
Coral Springs Police reported a funnel cloud.									
Dade County									
4 SE Key Biscayne	27	0804EST			0	0			Waterspout
An off-duty NWS employee sighted a waterspout in the Atlantic four miles southeast of Key Biscayne.									
Palm Beach									
Lake Worth	27	1045EST			0	0			Funnel Cloud
Police reported a funnel cloud above Lantana Boulevard and Military Trail.									
Palm Beach									
Boca Raton	29	1230EST			1	0			Lightning
A boy was mortally injured by a lightning strike to the hip while taking cover under a tree during the height of a lightning storm. He and a cousin, who was unhurt, had been engaged in construction work on the Boca West Golf Course. The boy died a week after being struck. M14UT									
Palm Beach									
5 W West Palm Beach	29	2040EST			0	0			Thunderstorm Wind (G50)
Two trees were downed by thunderstorm winds in Wellington.									

FLORIDA, West Central

Sarasota County									
North Port	03	1606EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported near the intersection of Interstate 75 and Toledo Blade Boulevard by the Sarasota County Sheriffs Department.									
Hillsborough									
Valrico	03	1640EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported in Valrico by the public through WTSP-TV of St. Petersburg.									
Hillsborough									
5 SE Wimauma	03	1643EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by a Skywarn Spotter.									
Manatee County									
6 N Myakka City	03	1650EST			0	0	10K	0	Thunderstorm Wind
The Peace River Electric Group reported thunderstorm winds downed several power poles over rural eastern Manatee county.									
Hillsborough									
9 NNW Tampa	03	1854EST			0	0	1K	0	Lightning
During light rain following a thunderstorm, lightning struck, ignited and damaged parts of a home and workshop on Park Street in Tampa. Lightning initially struck an outdoor workshop and blew out chunks of driveway concrete as the charge travelled through underground wires to the home. The lightning charge then travelled through the homes interior wiring where it terminated in a bedroom wire mesh ceiling. The charge caused a portion of the wire mesh ceiling to explode and ignite a small fire within the home.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Pasco County									
Wesley Chapel	04	1345EST			0	0	1K	0	Lightning
Lightning struck and ignited an electrical fire on the roof of the Quail Hollow Elementary school in Wesley Chapel.									
Pasco County									
Wesley Chapel	04	1400EST			0	0	2K	0	Thunderstorm Wind
The St. Petersburg Times Newspaper reported that a few large trees were downed by thunderstorm winds near the intersection of Interstate 75 and State Road 54 in Pasco county.									
Hillsborough									
Brandon	04	1515EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by the public on Causeway Boulevard in Brandon through Bay News Nine Cable of Pinellas Park.									
Hillsborough									
6 N Tampa	04	1515EST			0	0	10K	0	Thunderstorm Wind
The public reported, through WTSP-TV of St. Petersburg, that thunderstorm winds downed a large tree atop a house near State Road 580 (Busch Blvd) and 16th Street.									
Citrus County									
Inverness Arpt to 3 S Inverness	04	1540EST			0	0	100K	0	Thunderstorm Wind
Thunderstorm winds piled two small planes on top of each other at the Inverness Airport. Also, Citrus County Emergency Management reported that several trees and power lines were toppled by thunderstorm winds over southern portions of Inverness.									
Hillsborough									
Wimauma	04	1545EST			0	0	2K	0	Thunderstorm Wind
The public reported that thunderstorm winds tore off the metal porch roof of a residential home along State Road 674 in Wimauma.									
Citrus County									
Beverly Hills	04	1552EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by a Skywarn Spotter in Beverly Hills.									
Polk County									
2 E Ft Meade	04	1705EST			0	0	25K	0	Thunderstorm Wind
The Ft Meade Police Department reported that thunderstorm winds downed several power lines and large trees along and near the intersection of U.S. Highway 98 and Keller Road.									
Citrus County									
7 SW Citrus Spgs to 5 SW Citrus Spgs	04	1738EST 1744EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported by a Skywarn Spotter.									
Highlands County									
Lake Placid	04	1745EST			0	0	2K	0	Thunderstorm Wind
The Highlands County Emergency Management reported that thunderstorm winds uprooted a large tree onto a house which damaged a corner of its roof in Lake Placid.									
Highlands County									
Lake Placid	04	1748EST			0	0	50K	0	Thunderstorm Wind
The Highlands County Sheriffs Department reported that thunderstorm winds downed several large trees in and around Lake Placid.									
Highlands County									
10.5 SW Sebring	04	1807EST 1810EST	0.3	5	0	0	100K	0	Tornado (F0)
The public observed a short lived tornado sporadically touch down near the intersection of West Josephine Road and Bethea Lane over rural extreme western Highlands county. The tornado removed the roofs of two mobile homes, caused extensive damage to the roof of a commercial building, toppled a few large trees and snapped several branches at a commercial tree farm before it lifted and dissipated.									
Highlands County									
10.5 SW Sebring to 7.5 S Sebring	04	1815EST 1820EST			0	0	0	0	Hail (1.00)
The public reported quarter sized hail from Bethea Lane east along West Josephine Road to near Gresham Road over rural southwest Highlands county.									
Highlands County									
2.8 SW Lake Placid	04	1815EST			0	0	10K	0	Thunderstorm Wind
The Highlands County Emergency Management reported that thunderstorm winds downed several large trees and damaged a fence near the intersection of Lake June Road and Grace Avenue near the south shore of Lake June.									
Lee County									
Ft Myers	04	1910EST			0	0	0	0	Hail (1.00)
Quarter sized hail was reported by a Skywarn Spotter in Ft Myers.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Lee County									
4 S Ft Myers	04	1913EST			0	0	0	0	Thunderstorm Wind (G52)
									A 60 mph wind gust was recorded by NWS ASOS wind equipment at Ft Myers Page Field.
Pinellas County									
Largo	05	1310EST 1315EST			0	0	10K	0	Thunderstorm Wind
									Thunderstorm winds tore off a 40 by 40 foot section of tar and foam roofing off the Oak Manor Nursing Home in Largo.
Pinellas County									
Largo	05	1310EST 1315EST			0	0	0	0	Hail (0.75)
									Dime sized hail was reported at the Oak Manor Nursing Home in Largo.
Pasco County									
Hudson	05	1328EST			0	0	0	0	Hail (0.75)
									Dime sized hail was reported by the public in Hudson.
Pinellas County									
Indian Rocks Beach to Largo	05	1341EST 1345EST			0	0	75K	0	Thunderstorm Wind
									The Pinellas County Sheriffs Department reported that thunderstorm winds caused moderate roof damage to a commercial building in Indian Rocks Beach and another in Largo.
Pinellas County									
Largo	05	1355EST			0	0	50K	0	Thunderstorm Wind
									Skywarn Spotters reported that thunderstorm winds downed several trees and damaged numerous fences along 131st Street between State Road 688 (Walsingham Rd.) and 102nd Avenue in Largo.
Pasco County									
New Port Richey	05	1410EST			0	0	0	0	Hail (0.75)
									Dime sized hail was reported by the public in New Port Richey through WFLA-TV of Tampa.
Sarasota County									
2 NNE Sarasota	05	1500EST			0	0	20K	0	Lightning
									Lightning struck and caused extensive fire damage to a home on the 3000 block of McCloud Circle in Sarasota.
Sarasota County									
3 N Sarasota	05	1507EST			0	0	5K	0	Tstm Wind (G45)
									Sarasota County Emergency Management reported that 50 mph thunderstorm wind gusts caused minor roof damage to four mobile homes in the Tri Par Mobile Home Park near the intersection of Desoto Road and University Parkway in Sarasota.
Manatee County									
4 SE Bradenton	05	1530EST			0	0	10K	0	Thunderstorm Wind
									The Bradenton Herald newspaper reported that thunderstorm winds downed a large tree which damaged the roof of a home on 55th Avenue Drive East near U.S. Highway 301 in Bradenton.
Pasco County									
Wesley Chapel	05	1605EST			0	0	5K	0	Thunderstorm Wind
									A Skywarn Spotter reported that thunderstorm winds downed a few large trees and several large branches in Wesley Chapel.
Hillsborough									
Brandon	09	1515EST			0	0	0	0	Hail (0.88)
									The public reported nickel sized hail in Brandon through WFLA-TV in Tampa.
Hillsborough									
1 N Thonotosassa	09	1540EST			0	0	5K	0	Thunderstorm Wind
									The public reported that thunderstorm winds downed several large trees along Knights-Griffin Road in Thonotosassa through Bay News Nine Cable of Pinellas Park.
Polk County									
5 N Lakeland to Polk City	09	1607EST 1625EST			0	0	5K	0	Thunderstorm Wind
									A Skywarn Spotter reported that thunderstorm winds downed a few large trees and numerous large branches along West Daughtery Road near U.S. Highway 98 and northeast along Old Polk City Road.
Polk County									
3 N Lakeland	09	1610EST			0	0	0	0	Hail (0.75)
									The public reported dime sized hail in Lakeland through Bay News Nine Cable of Pinellas Park.
Citrus County									
Floral City	11	1515EST			0	0	5K	0	Lightning
									Lightning struck and ignited a fire in the kitchen of a mobile home in Floral City.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Polk County									
5 S Lakeland	11	1930EST			0	0	5K	0	Thunderstorm Wind
The Lakeland Police Department reported that several large branches and power lines were downed by thunderstorm winds between State Road 37 and County Road 572 north of State Road 60 in south Lakeland.									
Citrus County									
Homosassa Spgs	12	1425EST 1525EST			0	1	1K	0	Lightning
The Citrus County Emergency Management reported that a seventeen year old female was struck and severely injured by lightning while standing in a boat at a boat ramp along Halls River Road along the Homosassa River as thunderstorm activity approached. The female was severely shocked, resuscitated with CPR, and comatose after lightning struck the deck of boat inches from where the victim was standing. The lightning strike melted a rubber band holding the victims ponytail and burned a hole into the boats fuel tank.									
Citrus County									
4 S Crystal River	12	1505EST			0	0	4K	0	Thunderstorm Wind
A Skywarn Spotter estimated that 60 mph winds downed four large trees near the intersection of County Road 494 and U.S. Highway 19.									
Hillsborough									
Thonotosassa	13	2100EST			0	1	0	0	Lightning
A man was injured by the sideflash of a lightning bolt that struck the ground approximately 20 feet from his location outside a mobile home in Thonotosassa. The victim was holding and shielding his head from rain with an open metal tipped umbrella when the lightning struck.									
Citrus County									
Homosassa	15	1430EST			0	0	20K	0	Lightning
Lightning struck and severely damaged a home on Woodbine Avenue in Homosassa.									
Citrus County									
Homosassa Spgs	15	1530EST			0	0	40K	0	Lightning
Lightning struck a large tree which fell atop and severely damaged four vehicles at the Florida Wellcare Alliance building in Inverness.									
Hillsborough									
Riverview	15	1625EST			0	0	2K	0	Tstm Wind (G45)
Estimated wind gusts of up to 50 mph flipped a carport onto a house in Progress Village in Riverview.									
Hillsborough									
Riverview	15	1645EST 1655EST			0	0	10K	0	Thunderstorm Wind
An off-duty NWS meteorologist reported that thunderstorm winds blew down the gables of a home under construction on Freeport Road in Riverview. Numerous trees and large limbs were also downed by thunderstorm winds along the 5000 block of 86th Street in the Progress Village subdivision in Riverview.									
Pasco County									
Zephyrhills	16	2000EST			0	0	5K	0	Tstm Wind (G45)
Thunderstorm wind gusts estimated at 45 to 50 mph damaged the carport and lanai of a prefabricated home in Zephyrhills.									
Pinellas County									
2 E St Petersburg	17	1220EST			0	0	0	0	Waterspout
A Skywarn Spotter reported a short lived waterspout approximately two miles east of the intersection of 9th Street and Central Avenue in St Petersburg.									
Pinellas County									
Palm Harbor	18	0555EST			0	0	1K	0	Lightning
Lightning struck a home on the 2900 block of East Orange Tree Circle in Palm Harbor and damaged several ceiling fans and the motor of a garage door opener. Lightning also struck on the 900 block of Wicks Drive which blew a hole in the roof and wall of a home.									
Manatee County									
2 S Bradenton Beach	18	1025EST			0	0	0	0	Waterspout
The public observed and reported a waterspout over Longboat Pass.									
Lee County									
Cape Coral	18	1400EST 1600EST			0	0	500K	0	Flood
The State of Florida Division of Emergency Management reported that six to eight inches of rainfall in less than three hours caused widespread flooding to numerous roadways and water damage to homes throughout Cape Coral. Nearly 50 homes reported water damage to carpets while an additional nine homes received major structural damage from floodwaters throughout Cape Coral.									

Storm Data and Unusual Weather Phenomena

June 1999

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

FLORIDA, West Central

Pinellas County

1 NE Tarpon Spgs 20 1633EST 0.1 5 0 0 2K 0 **Tornado (F0)**

A short lived tornado touched down and caused minor roof and porch damage to two mobile homes then removed a pest control tent off a home before it lifted and dissipated along Driftwood Lane in Tarpon Springs. Reported by WTSP-TV of St Petersburg and the Pinellas County Emergency Management.

Pinellas County

8 NNE St Petersburg 21 0010EST 1 0 0 0 **Rip Currents**

An eighteen year old male was swept away by a rip current after slipping off the old Gandy Bridge and falling into the the Old Tampa Bay waters.
M18IW

Lee County

9.5 SE Ft Myers 21 1542EST 0 0 0 0 **Thunderstorm Wind (G54)**

A 62 mph wind gust was recorded by the Automated Surface Observing System (ASOS) at the Southwest Regional Florida Airport in Ft Myers.

Lee County

Ft Myers 23 1355EST 0 0 0 0 **Waterspout**

A waterspout was reported on the Caloosahatchee River in Ft Myers by the local television media.

Polk County

2 N Haines City 25 1625EST 0 0 0 0 **Hail (0.75)**

A Skywarn Spotter reported dime sized hail two miles north of Haines City.

Pinellas County

Largo 26 1805EST
1810EST 0 0 0 0 **Hail (0.75)**

Dime sized hail was reported in Largo by a Skywarn Spotter that lasted for five minutes.

Polk County

Ft Meade 27 1415EST 0.3 5 0 0 1K 0 **Tornado (F0)**

A short lived tornado touched down and snapped several large branches off a few trees which damaged the roof of funeral home, damaged a vehicle and garage along a narrow path in Ft Meade over rural southern Polk county.

Sarasota County

15 WNW Sarasota 29 0818EST 0 0 0 0 **Waterspout**

A pilot reported a waterspout fifteen miles west northwest of Sarasota.

Hillsborough

8 NE Tampa 30 1415EST 0 0 0 0 **Hail (0.75)**

Dime sized hail was reported by an off-duty National Weather Service meteorologist near the intersection of Interstate 75 and County Road 581 (Bruce B. Downs Blvd).

Hillsborough

8 NE Tampa 30 1415EST 0 0 0 0 **Thunderstorm Wind**

An off-duty National Weather Service meteorologist estimated thunderstorm winds of 55 to 60 mph near the intersection of Interstate 75 and County Road 581 (Bruce B. Downs Blvd).

Hillsborough

Tampa 30 1415EST 0 0 200K 0 **Lightning**

Lightning struck and damaged six structures throughout Tampa.

Citrus County

10 W Ozello 30 1600EST 0 0 0 0 **Waterspout**

The public reported a waterspout west of Homosassa Bay through the Citrus County Emergency Management.

Highlands County

Lorida 30 1700EST 0 0 18K 0 **Lightning**

Lightning struck and killed 12 head of cattle at a dairy farm in Lorida.

FLORIDA, West Panhandle

Okaloosa County

Crestview 04 1950CST
1955CST 0 0 **Hail (1.00)**

Quarter size hail fell in the community.

Okaloosa County

Baker 04 1950CST
2000CST 0 0 5K **Thunderstorm Wind (G58)**

Storm spotters reported that high winds blew numerous trees down near the area.

Storm Data and Unusual Weather Phenomena

June 1999

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

FLORIDA, West Panhandle

Escambia County

Pensacola	09	1020CST 1025CST			0	0			Waterspout
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Two waterspouts were observed in Pensacola Bay between Pensacola and Pensacola Beach. The waterspouts moved west parallel to the shoreline and dissipated over the water.

Santa Rosa

Milton	11	1330CST			0	0	5K		Lightning
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Lightning struck the Santa Rosa county 911 center during the afternoon. It knocked the center off the air for several hours and they had to use a backup system to handle emergency calls.

Santa Rosa

Navarre	16	1835CST 1845CST			0	0			Waterspout
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A waterspout was observed over the Gulf of Mexico south of Navarre Beach. The waterspout dissipated before reaching land.

Escambia County

Pensacola Beach	16	1835CST 1845CST			0	0			Waterspout
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A waterspout was observed just offshore of Pensacola Beach. The waterspout was observed by several people and was likely the same one that was observed by people off of Navarre Beach. The waterspout dissipated before moving ashore.

Okaloosa County

6 S (Hrt)Mary Esther	23	1010CST 1015CST			0	0			Waterspout
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A waterspout was observed over the Gulf of Mexico, south of Mary Esther. The waterspout dissipated over the water.

Santa Rosa

Navarre to 6 S Avalon Beach	23	1715CST 1725CST			0	0			Waterspout
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A waterspout was observed over the Gulf of Mexico south of Navarre Beach. The waterspout dissipated over the water. The storm that triggered the spout then moved north across Navarre into Escambia Bay. The waterspout then redeveloped south of Garcon Point and dissipated before moving ashore. The storm never touched down over any land areas.

GEORGIA, East Central

NONE REPORTED.

GEORGIA, Lower

Glynn County

3 WSW Sterling	03	1615EST			0	0	1K		Thunderstorm Wind
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Power lines were blown down.

Camden County

St Marys	03	1615EST			0	0			Hail (0.75)
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Camden County

St Marys	03	1645EST			0	0	1.5K		Thunderstorm Wind
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Large trees and power lines were blown down.

Camden County

Kingsland	10	1720EST			0	0			Funnel Cloud
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Clinch County

Homerville	29	1855EST			0	0	0.50K		Thunderstorm Wind
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Large trees and power lines were blown down.

Pierce County

Bristol	30	1800EST			0	0	0.50K		Thunderstorm Wind
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Large trees and power lines were blown down.

GEORGIA, North and Central

Floyd County

Coosa to Armuchee	02	1430EST 1500EST			0	0	1.5K		Thunderstorm Wind
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Thunderstorm winds knocked trees and powerlines down across the west and north part of the county. One tree fell on a car.

Gordon County

Fairmount	02	1600EST			0	0	0.50K		Thunderstorm Wind
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North Georgia Power company reported 3 trees on a power line. One transformer blew.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Fulton County 2 N Roswell	02	1635EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Fulton County Roswell	02	1645EST			0	0	0.50K		Thunderstorm Wind
			The public reported pine trees snapped off and several trees down.						
Fulton County Roswell to Alpharetta	02	1700EST 1750EST			0	0	0.50K		Thunderstorm Wind
			North Georgia Power company and the public reported 2 trees down with power lines down.						
Fayette County 6 N Fayetteville	02	1710EST			0	0			Hail (1.00)
			The public reported dime to quarter size hail.						
De Kalb County Decatur	02	1715EST 1730EST			0	0	0.50K		Thunderstorm Wind
			North Georgia Power company reported at least 3 trees were down.						
Fayette County Fayetteville	02	1755EST			0	0			Hail (0.75)
			The 911 center reported dime size hail.						
Clayton County Riverdale	02	1800EST			0	0	0.50K		Thunderstorm Wind
			The public reported 2 pine trees were uprooted.						
Fayette County Peachtree City	02	1805EST 1810EST			0	1	1K		Thunderstorm Wind
			The 911 center reported a tree down on 2 cars at a soccer field, causing an injury. The public reported 2 trees down in a yard.						
Walton County Monroe	02	1820EST			0	0			Hail (1.75)
			The public reported dime to golfball size hail.						
White County Cleveland	02	1825EST			0	0			Hail (0.75)
			A ham radio spotter saw 3/4" hail.						
Spalding County Vaughn to Griffin	02	1828EST 1835EST			0	0			Hail (1.00)
			There were several reports of dime and quarter size hail from the public and the 911 center.						
Spalding County Griffin	02	1830EST			0	0	10K		Thunderstorm Wind
			A newspaper account said thunderstorm winds blew trees into power lines, causing power outages to some 4000 customers in central and western Spalding county. Most of the damage was on the north side of Griffin. Also, the wind damaged a gas pump shelter at a filling station.						
Walton County 3 S Monroe	02	1830EST			0	0	0.50K		Thunderstorm Wind
			The public reported several trees were uprooted.						
Monroe County 2 S Blount	02	1915EST			0	0	1K		Thunderstorm Wind
			The 911 center reported several very large trees down in the road.						
Coweta County Thomas Xrds	03	0728EST			0	0	0.50K		Thunderstorm Wind
			The public reported large limbs blown off trees.						
Fayette County Peachtree City	03	0900EST			0	0			Urban/Sml Stream Fld
			Persistent thunderstorms over southeast Coweta and southern Fayette counties produced around 3 inches of rain in a 2 hour period. Some roads were closed due to standing water.						
Cobb County 5 SW Marietta	03	1200EST			0	0	60K		Lightning
			A newspaper reported lightning caused a house fire on Wynford Drive off West Sandtown Road. A lightning bolt struck a tree, which set the house on fire and destroyed one room.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Troup County									
3 ESE Hogansville	03	1215EST			0	0			Hail (1.00)
			The sheriff reported quarter size hail.						
Troup County									
La Grange	03	1255EST			0	0			Hail (1.00)
			The public reported nickel to quarter size hail.						
Troup County									
4 N La Grange to 6 N La Grange	03	1334EST 1349EST			0	0			Hail (1.75)
			The public reported dime and golfball size hail.						
Clayton County									
Riverdale	03	1530EST			0	0	100K		Lightning
			A newspaper report indicated lightning may have been responsible for a fire which started in the attic and nearly destroyed a church on Sullivan Road near Riverdale Road.						
Coweta County									
4 E Newnan to Sharpsburg	03	1530EST			0	0			Hail (1.75)
			The public reported dime and golfball size hail.						
Fayette County									
Peachtree City	03	1535EST 1552EST			0	0			Hail (1.75)
			There were several reports of hail from the public, ranging from dime to golfball size.						
Coweta County									
Roscoe	03	1540EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Pickens County									
Hinton	03	1618EST			0	0	0.50K		Thunderstorm Wind
			The public reported a few trees down.						
Pickens County									
Hinton to 4 E Hinton	03	1633EST 1650EST			0	0			Hail (0.88)
			The public reported dime to nickel size hail.						
Pickens County									
Hinton to 5 SE Ludville	03	1657EST			0	0			Hail (1.75)
			The public reported golf ball size hail on Henderson Mountain.						
Gordon County									
Fairmount	03	1710EST			0	0			Hail (1.75)
			The public reported dime to golf ball size hail and large tree limbs down.						
Dooly County									
Lilly	03	1720EST 1725EST			0	0	3.5K		Thunderstorm Wind
			The 911 center reported several large tree limbs blown down and a roof blown off of a home.						
Floyd County									
Armuchee to 7 W Rome	04	1204EST 1224EST			0	0			Hail (1.75)
Floyd County									
Rome	04	1224EST 1249EST			0	0			Hail (1.75)
Floyd County									
3 W Rome to 3 E Rome	04	1249EST 1310EST			0	0			Hail (1.75)
Walker County									
Rossville to Rock Spg	04	1255EST 1328EST			0	0			Hail (1.00)
Polk County									
5 N Cedartown to 3 N Cedartown	04	1315EST			0	0	1K		Hail (1.75)
			Hail damaged a car.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Polk County									
5 N Cedartown	04	1315EST			0	0	0.50K		Thunderstorm Wind
The public reported trees were snapped by thunderstorm winds.									
Floyd County									
2 W Coosa to Cave Spg	04	1326EST 1330EST			0	0			Hail (1.00)
Polk County									
Cedartown	04	1345EST			0	0			Hail (0.75)
Floyd County									
3 W Lindale	04	1410EST			0	0			Hail (1.00)
Haralson County									
Tallapoosa	04	1419EST 1425EST			0	0			Hail (1.00)
Haralson County									
Tallapoosa to 6 S Tallapoosa	04	1425EST 1445EST			0	0			Hail (1.75)
Chattooga County									
Menlo	04	1433EST			0	0			Hail (1.75)
Clayton County									
Jonesboro to Lovejoy	04	1500EST 1510EST			0	0			Hail (1.75)
Fayette County									
2 E Fayetteville to 4 E Fayetteville	04	1500EST 1510EST			0	0			Hail (1.00)
Floyd County									
Coosa	04	1501EST			0	0			Hail (0.75)
Dade County									
1 E Wildwood	04	1520EST			0	0			Hail (0.75)
Madison County									
Danielsville	04	1525EST 1545EST			0	0	5K		Thunderstorm Wind
Reports from the sheriff, the public, and a spotter indicated thunderstorm winds knocked down trees and power lines.									
Madison County									
Danielsville	04	1537EST			0	0			Hail (0.75)
Walker County									
Rossville	04	1540EST 1550EST			0	0			Hail (1.00)
Walker County									
2 E Chickamauga to 10 NW Flintstone	04	1557EST 1626EST			0	0			Hail (1.00)
Oglethorpe									
Smithonia to Crawford	04	1600EST 1625EST			0	0			Hail (1.00)
Catoosa County									
Beaumont	04	1610EST			0	0			Hail (1.00)
Dade County									
Wildwood	04	1610EST 1622EST			0	0			Hail (0.75)
Clarke County									
Athens	04	1622EST 1639EST			0	0			Hail (1.75)
Oglethorpe									
Crawford to 2 E Crawford	04	1630EST 1633EST			0	0			Hail (1.75)
Walker County									
Chickamauga to Rossville	04	1633EST 1634EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Clarke County									
Athens	04	1640EST 1700EST			0	0	5K		Hail (2.75)
The public reported damage to cars and windshields.									
Jackson County									
2 S Attica	04	1640EST			0	0			Hail (3.00)
Greene County									
8 N Greensboro to Greensboro	04	1645EST 1700EST			0	0			Hail (1.75)
Greene County									
12 S Greensboro	04	1645EST 1700EST			0	0	1K		Thunderstorm Wind
The public reported some trees were down and others bent.									
Dade County									
3 N Trenton	04	1650EST			0	0			Hail (0.75)
Oconee County									
5 NW Watkinville to Watkinville	04	1654EST 1705EST			0	0			Hail (1.75)
Greene County									
Greensboro to 10 S Greensboro	04	1700EST 1715EST			0	0			Hail (1.75)
Meriwether									
4 E Manchester	04	1710EST			0	0			Hail (0.88)
Greene County									
10 S Greensboro to 15 S Greensboro	04	1715EST 1730EST			0	0			Hail (1.75)
Oconee County									
Farmington	04	1725EST			0	0			Hail (0.75)
Putnam County									
10 NE Eatonton to 12 E Eatonton	04	1738EST 1810EST			0	0			Hail (1.00)
Marion County									
7 N Five Pts	04	1740EST			0	0			Hail (1.00)
Jasper County									
2 W Broughton	04	1742EST			0	0			Hail (0.75)
Baldwin County									
Milledgeville to 3 SW Hardwick	04	1805EST 1825EST			0	0			Hail (1.75)
Hancock County									
8 W Devereux	04	1805EST			0	0			Hail (1.00)
Putnam County									
Central Portion	04	1810EST			0	0	1K		Thunderstorm Wind
The sheriff reported trees were downed in rural areas of the county.									
Baldwin County									
Milledgeville to 7 N Stevens Pottery	04	1830EST 1836EST			0	0			Hail (1.00)
Wilkinson County									
Countywide	04	1830EST 1900EST			0	0	25K		Thunderstorm Wind
The Wilkinson county emergency manager reported trees and powerlines down throughout the county. A newspaper account said the wind damaged the back porch of a home in McIntyre and lifted the roof from a pole barn. The homeowner's car was also damaged by hail.									
Wilkinson County									
Mc Intyre	04	1830EST			0	0	2K		Hail (1.25)
Talbot County									
Talbotton	04	1840EST			0	0	1K		Thunderstorm Wind
The Talbot county 911 center reported fallen trees.									

Storm Data and Unusual Weather Phenomena

June 1999

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

GEORGIA, North and Central

Pulaski County

Countywide

**04 1922EST
2000EST 0 0 250K Hail (0.75)**

A newspaper article reported hail and winds did over 300 thousand dollars worth of damage, mostly to crops in Pulaski county. Cotton, watermelon and cantaloupe were the most affected crops. About 50 acres of crops were lost at one farm. The hardest hit was Hardy Farms, which lost 545 acres of cotton. Another farm also suffered extensive cotton losses, where 1200 acres were destroyed by hail. The exact hail size was unknown, but with the amount of damage reported, it had to be at least 3/4 inch hail or larger. The preliminary figure for crop loss alone was 250 thousand dollars countywide.

Pulaski County

Countywide

**04 1922EST
2000EST 0 0 50K Thunderstorm Wind**

The newspaper article said that thunderstorm winds did extensive damage to four center-pivot irrigation systems and a number of farm buildings. Two barns were totally destroyed, and at least 6 homes were damaged.

Wilcox County

Countywide

04 1930EST 0 0 10K Hail (0.75)

The newspaper article reported crop damage from hail in Wilcox county.

Bleckley County

5 S Cochran

**04 1943EST
1952EST 0 0 Hail (0.75)**

Dodge County

Countywide

**04 1949EST
2000EST 0 0 10K Hail (0.75)**

The newspaper article also reported crop damage in Dodge county due to hail.

Wilcox County

6 N Abbeville to
3 N Abbeville

**04 2015EST
2030EST 0 0 2K Thunderstorm Wind**

Wilcox county 911 center and a co-op observer reported several large oak trees were uprooted. There also was an unofficial report of a tornado.

On the morning of June 4th. a moist and unstable airmass was in place across the Southeast states, including Georgia. As a frontal system moved slowly south from Tennessee into north Georgia, a severe thunderstorm outbreak affected most of north and central Georgia. Large hail was the primary threat, with the wet bulb zero around 10,000 feet. The storms began to form in northwest Georgia around 1 pm local time, and spread south and east throughout the afternoon and into the late evening. The worst damage was reported across the extreme southern part of the Peachtree City warning area. Pulaski County, in south central Georgia, sustained over \$300,000 worth of wind and hail damage, mostly to crops. There were other scattered reports of wind damage from this event, but large hail was the primary severe weather occurrence. Reports from the public and 911 centers indicated over 100 reports of 3/4 of an inch or larger hail, including over five dozen reports of 1 inch size or larger. There were even two reports of hail as large as a baseball and softball in northeast Georgia.

Coweta County

Welcome to
Newnan

**05 1610EST
1628EST 0 0 Hail (1.75)**

Coweta county 911 center and the public reported dime to golfball size hail.

Carroll County

Whitesburg

05 1635EST 0 0 Hail (0.75)

The Whitesburg fire department reported dime size hail.

Troup County

8 NE West Pt to
West Pt

**05 1711EST
1720EST 0 0 Hail (1.00)**

There were numerous reports from the public of hail which ranged from dime to quarter size.

Whitfield County

Tunnel Hill

05 1733EST 0 0 1K Thunderstorm Wind

The public reported several trees down.

Floyd County

10 W Rome

05 1844EST 0 0 1K Thunderstorm Wind

Floyd county 911 reported numerous trees down.

Murray County

Chatsworth to
Eton

**10 1340EST
1355EST 0 0 Hail (1.75)**

The public reported dime and golfball size hail.

Whitfield County

Dawnville

10 1345EST 0 0 1K Thunderstorm Wind

The public reported trees down.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Walker County 2 N Chickamauga to 2 S Rossville	10	1515EST			0	0	5K		Thunderstorm Wind
									Walker county 911 center reported wind damage between Chickamauga and Rossville. Many trees were blown over and a trailer was damaged by wind.
Cobb County Powder Spgs to Austell	14 15	1700EST 1800EST			0	0	100K		Lightning
									According to a newspaper report, lightning struck 8 houses in Cobb county, causing fires. The largest fire caused substantial damage to a home in Powder Springs. A detached garage was destroyed in Austell.
Pickens County Hinton	24	1957EST			0	0	5K		Thunderstorm Wind
									A radio station relayed a report from the public of trees down and 2 chicken houses damaged on highway 53 near Hinton.
Hall County Gillsville	24	2109EST			0	0			Hail (1.00)
									The public reported larger than quarter size hail.
Lumpkin County Dahlonega	24	2120EST 2140EST			0	0	1K		Thunderstorm Wind
									Lumpkin county 911 reported trees down.
Hall County Clermont	24	2130EST			0	1	75K		Thunderstorm Wind
									Hall county 911 reported severe thunderstorm winds destroyed a home on H. White Road. The roof of another home was damaged, and several other homes, barns and outbuilding sustained minor damage. There was 1 minor injury as the storm tracked east along the Hall and White county line.
White County Cleveland	24	2140EST			0	0			Hail (1.75)
									The public reported golfball size hail.
Spalding County Vaughn	25	1708EST			0	0			Hail (0.75)
									The 911 center reported dime size hail.
Floyd County Rome to Silver Creek	28	0300EST 0700EST			0	0	10K		Urban/Sml Stream Fld
Polk County Cedartown to Rockmart	28	0300EST 0700EST			0	0	10K		Urban/Sml Stream Fld
									Three to five inches of rain since midnight flooded some streets in the south half of Floyd county and north half of Polk county. Water was over the roads in Rome, Lindale, and Silver Creek in Floyd county; and in Cedartown and Fish Creek in Polk county. One home in South Rome flooded. Several others had water around them and some basements were flooded. A van was swept off the road near Fish Creek. Streets were clear of water by around 8:30 AM local time.
Clayton County Jonesboro	28	0900EST			0	2			Lightning
									Two workers were treated when lightning struck near the construction site for the new Clayton county jail and courthouse. They were not hit directly by the lightning, but were stunned. One was treated at the scene, while the other was taken to the hospital and released.
Treutlen County Soperton	28	2104EST 2105EST	0.1	20	0	0	75K		Tornado (F0)
									Treutlen county 911 and newspaper reports indicated that a tornado was responsible for damage in Soperton. Several buildings suffered roof damage. An 18 wheeler tractor-trailer was overturned, and a 2 ton antique jail wagon was pushed off a concrete display slab. Trees were also uprooted. A deputy sheriff reported seeing the funnel as it touched down on Third Street.
Jasper County Monticello	29	1240EST			0	0	0.50K		Thunderstorm Wind
									Jasper county 911 reported trees down.
Dade County Trenton	29	1305EST			0	0			Hail (0.75)
									The public reported dime size hail.
Baldwin County Milledgeville	29	1322EST			0	0			Hail (0.75)
									A skywarn spotter reported dime size hail.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Dade County									
5 SW Trenton	29	1325EST			0	0	2K		Thunderstorm Wind
			The Dade county sheriff reported trees and power lines down.						
Washington									
Deepstep to Sandersville	29	1330EST			0	0	1K		Thunderstorm Wind
			Washington county 911 reported trees down in Deepstep and Sandersville.						
Jefferson County									
Wrens	29	1345EST			0	0	1K		Thunderstorm Wind
			The Wrens police department reported trees down and power outages.						
Gilmer County									
4 SE Ellijay	29	1355EST			0	0	1K		Thunderstorm Wind
			The Ellijay police department reported trees down.						
Upson County									
Thomaston	29	1425EST			0	0	1K		Thunderstorm Wind
			Upson county 911 reported trees blown down by thunderstorm winds.						
Harris County									
Oak Mtn	29	1505EST			0	0	1.5K		Thunderstorm Wind
			Harris county 911 reported trees and power lines knocked down.						
Cherokee County									
6 W Canton to 2 E Canton	29	1530EST			0	0	1.5K		Thunderstorm Wind
			Cherokee county 911 reported power lines down and the public reported a few large tree limbs down.						
Jackson County									
Maysville	29	1540EST			0	0			Hail (0.88)
			The public reported nickel size hail.						
Banks County									
Homer	29	1545EST			0	0			Hail (0.75)
Banks County									
Homer	29	1545EST			0	0	1K		Thunderstorm Wind
			The public reported dime size hail and a large oak tree and some pine trees blown down.						
Forsyth County									
2 S Cumming	29	1605EST			0	0			Hail (0.75)
			Forsyth county 911 reported dime size hail.						
Forsyth County									
Cumming	29	1605EST			0	0	1.5K		Thunderstorm Wind
			The public reported a few trees blown down. Forsyth county 911 reported power lines down.						
Barrow County									
Bethlehem	29	1615EST			0	0	1K		Thunderstorm Wind
			Barrow county 911 reported power lines blown down.						
Fulton County									
Alpharetta	29	1619EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Gwinnett County									
Suwanee	29	1624EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Jackson County									
Jefferson	29	1630EST			0	0	1K		Thunderstorm Wind
			Jackson power company reported power lines were blown down.						
Wilcox County									
Rochelle	29	1640EST			0	0	1K		Thunderstorm Wind
			Wilcox county 911 reported trees were blown down.						
Crisp County									
Cordele	29	1645EST			0	0	0.50K		Thunderstorm Wind
			Crisp county 911 reported trees were blown down.						
Oglethorpe									
3 NW Arnoldsville to Crawford	29	1717EST 1722EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Oglethorpe 3 NW Arnoldsville to Crawford	29	1717EST 1722EST			0	0	0.50K		Thunderstorm Wind
			The public reported quarter size hail and a few large limbs down.						
Clayton County Forest Park	29	1830EST			0	0	1.5K		Thunderstorm Wind
			Clayton county 911 reported pine trees blown down. One fell on a car.						
De Kalb County Chamblee	29	1833EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Fulton County Union City	29	1845EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Clayton County Riverdale	29	1900EST			0	0	3K		Thunderstorm Wind
			Clayton county 911 reported a lot of power lines blown down.						
Fayette County Fayetteville	29	1900EST 1915EST			0	0	35K		Lightning
			Fires caused by lightning strikes damaged the attic of one home, destroyed an outbuilding at another, and caused minor damage at a couple of other places.						
Fayette County Kenwood to Fayetteville	29	1900EST 1915EST			0	0	175K		Thunderstorm Wind
			Severe thunderstorm winds began causing damage in northern Fayette county around 8 PM local time, where there was damage to a house and trees were down. The storm produced damage south along highway 85 and in Fayetteville, where most of the damage occurred. Roofs were torn off buildings, trees were uprooted and fell onto cars, and power lines were strewn over roads and yards. One woman was trapped in her car as debris from a roof fell onto her vehicle and power lines were downed around the scene. She was not injured. A church on Courthouse Square in Fayetteville was hit by a falling tree as well. The face of the clock tower on the square was cracked slightly. Roof damage to the Fayetteville pharmacy was estimated at \$55,000 to \$65,000, with another \$15,000 damage inside the store. The computer store next door suffered water damage due to a damaged roof allowing water to leak in. Two Fayetteville police officers reported seeing a funnel cloud north of Fayetteville.						
Bleckley County Cary	29	1915EST			0	0	1K		Thunderstorm Wind
			Bleckley county 911 reported trees blown down.						
Fayette County Peachtree City	29	2000EST			0	0	1.5K		Thunderstorm Wind
			Fayette county 911 reported several trees were blown down.						
Pulaski County 2 W Finleyson	29	2005EST			0	0	1.5K		Thunderstorm Wind
			Pulaski county 911 reported numerous trees were blown down.						
Coweta County Thomas Xrds	29	2010EST			0	0	1.5K		Thunderstorm Wind
			Coweta county 911 reported numerous trees blown down.						
Coweta County Newnan to Sharpsburg	29	2035EST 2040EST			0	0			Hail (0.75)
			There were 2 public reports of dime size hail.						
Heard County 1 W Texas to 2 W Franklin	30	1310EST 1320EST			0	0	1K		Thunderstorm Wind
			Heard county 911 reported trees were blown down near Texas and Franklin.						
Cobb County 2 W Acworth to Acworth	30	1313EST 1335EST			0	0			Hail (1.00)
			Several public reports indicated hail ranged from dime to quarter size.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Coweta County									
Dresden to Thomas Xrds	30	1320EST 1400EST			0	1	25K		Thunderstorm Wind
A gust front associated with a severe thunderstorm knocked trees and power lines down across Coweta county. At least 3 homes were damaged by falling limbs or trees. One had considerable damage, according to a newspaper report. One tree also fell on a vehicle, with 1 injury reported by the Coweta county EMA.									
Coweta County									
10 W Newnan to Thomas Xrds	30	1325EST 1356EST			0	0			Hail (1.75)
Several public reports of hail indicated the size ranged from dime size to golf ball size.									
Heard County									
1 W Franklin to 8 E Franklin	30	1325EST 1330EST			0	0			Hail (1.75)
Public reports indicated hail ranging from dime to golfball size fell in Heard county.									
Bartow County									
Cassville	30	1345EST			0	0	0.50K		Thunderstorm Wind
The public reported that trees were blown down.									
Cobb County									
Powder Spgs to Marietta	30	1345EST 1355EST			0	0			Hail (0.75)
There were a couple of reports of dime size hail.									
Cobb County									
5 N Marietta	30	1400EST			0	0	100K		Lightning
Lightning sparked a fire, which caused extensive damage to the roof and attic of a home on Packhorse Run.									
Fayette County									
Tyrone to Peachtree City	30	1405EST 1410EST			0	0	0.50K		Thunderstorm Wind
The public reported trees blown down.									
Cherokee County									
Countywide	30	1415EST			0	0	5K		Thunderstorm Wind
Cherokee county 911 reported power lines were down throughout the county.									
Spalding County									
Sunny Side	30	1415EST			0	0			Hail (1.00)
The public reported quarter size hail.									
Fulton County									
Roswell	30	1420EST			0	0	1K		Thunderstorm Wind
North Fulton county 911 reported trees were blown down.									
Spalding County									
7 N Griffin	30	1425EST			0	0	1K		Thunderstorm Wind
Spalding county 911 reported trees were blown down near the Henry county line.									
Sumter County									
Americus	30	1425EST			0	0	1K		Thunderstorm Wind
Sumter county 911 reported trees blown down.									
Gwinnett County									
3 SW Lilburn	30	1430EST			0	0			Hail (0.75)
The public reported dime size hail.									
Clayton County									
Forest Park to Morrow	30	1432EST			0	0			Hail (0.75)
The public reported dime size hail.									
De Kalb County									
Tucker	30	1440EST 1445EST			0	0	1K		Thunderstorm Wind
There were 2 public reports of trees blown down.									
Forsyth County									
2 S Big Creek	30	1455EST			0	0	10K		Thunderstorm Wind
The Forsyth county sheriff reported a roof was heavily damaged.									
Dooly County									
Unadilla	30	1500EST			0	0			Hail (0.75)
The Dooly county sheriff reported dime size hail.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
GEORGIA, North and Central									
Gwinnett County									
Lawrenceville	30	1510EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Newton County									
Oxford	30	1510EST 1513EST			0	0	2K		Thunderstorm Wind
			The public reported numerous trees knocked down.						
Peach County									
Ft Vly	30	1520EST			0	0			Hail (1.00)
			A radio station reported dime to quarter size hail.						
Pulaski County									
Hawkinsville	30	1525EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Clarke County									
Athens	30	1600EST			0	0	1K		Thunderstorm Wind
			The state climatologist reported trees were blown down.						
Walton County									
Monroe	30	1600EST			0	0	1.5K		Thunderstorm Wind
			Several trees were reported blown down.						
Bleckley County									
Cochran	30	1607EST			0	0			Hail (1.00)
			The Bleckley county 911 center reported quarter size hail.						
Baldwin County									
Milledgeville	30	1610EST			0	0			Hail (0.75)
			The public reported dime size hail.						
Laurens County									
Dudley	30	1620EST			0	0	1K		Thunderstorm Wind
			Laurens county 911 reported trees were blown down.						
Washington									
Tennille to Harrison	30	1701EST 1705EST			0	0	1.5K		Thunderstorm Wind
			The Washington county 911 center reported power lines were blown down in two different areas.						
Bartow County									
1 W Cartersville to Cartersville	30	1703EST 1710EST			0	0			Hail (0.88)
			The public reported dime to nickel size hail.						
Cherokee County									
Woodstock	30	1755EST 1800EST			0	0	3K		Thunderstorm Wind
			Cherokee county 911 reported several power lines and some transformers were blown down. Also, a tree fell on a house.						
Cobb County									
Kennesaw to 1 W Marietta	30	1818EST 1845EST			0	0			Hail (1.75)
			There were numerous reports from the public of hail ranging from dime to golfball size.						
Cobb County									
7.5 W Marietta	30	1825EST			0	0	2K		Thunderstorm Wind
			The public reported some trees blown down and others with tops taken off.						
Cobb County									
Marietta	30	1830EST			0	0	25K		Lightning
			A lightning bolt ignited a fire at a house on North Field Court in north Marietta. There was significant damage to the attic.						
Cobb County									
Marietta	30	1850EST			0	0	1K		Thunderstorm Wind
			The public reported trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 1999

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

GEORGIA, North and Central

Cobb County

Powder Spgs	30	2000EST 2200EST			0	0	1.2M		Flash Flood
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Thunderstorms produced nearly 3 inches of rain in parts of Cobb county during a 3 hour period, according to radar estimates. Newspaper articles said as much as 5 inches may have fallen as slow moving thunderstorms persisted over the area. Poor drainage may have also been responsible for accumulating 6 to 12 inches of water on some roads. About 90 homes were damaged by flood waters. About a dozen people in the Powder Springs area were evacuated, due to concern that the dam on a small private lake may have weakened. Cobb county officials estimated that the storms would cost affected homeowners \$1.2 million.

GEORGIA, Northeast

Franklin County

Royston	29	1620EST			0	0			Thunderstorm Wind (G50)
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Hart County

Bowersville	29	1622EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm downed a couple trees in Royston, then snapped a flag pole and blew several large limbs off trees in Bowersville.

GEORGIA, Southeast

Long County

2 N Ludowici	15	2200EST 2203EST			0	0			Thunderstorm Wind (G50)
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Trees down.

Mcintosh County

2 W Darien	16	1550EST 1553EST			0	0			Thunderstorm Wind (G50)
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Trees down.

Screven County

4 NE Sylvania	16	1735EST 1740EST			0	0			Hail (0.75)
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Chatham County

Savannah	29	0815EST 0818EST			0	0			Thunderstorm Wind (G50)
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Large limbs and power lines down.

Chatham County

East Portion	29	0915EST 1120EST			0	0			Flood
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Chatham County

East Portion	29	1200EST 1420EST			0	0			Flood
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Chatham County

East Portion	29	1500EST 1815EST			0	0			Flood
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Effingham County

Rincon	29	1510EST 1730EST			0	0			Flood
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Slow moving showers and thunderstorms developed repeatedly across Chatham County and Effingham County during the day. Twenty-four hour rainfall amounts ranged from about 7 inches to over 13 inches. As a result of the flooding, over 500 homes and businesses were damaged to varying degrees and almost 600 automobiles were damaged. Water was as much as 6 ft deep in some places. Numerous roads were washed out and/or closed during the flooding.

GEORGIA, Southwest

Worth County

Countywide	04	1920EST 1940EST			0	0	25K		Thunderstorm Wind
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Numerous downed trees and power lines blocking several county roads reported by the Worth County EMA.

Worth County

Sylvester	04	1935EST			0	0	50K		Thunderstorm Wind
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Sylvester P.D. reported power transformers blown down. Several motorists trapped in their vehicles by fallen trees.

Worth County

Sylvester	04	1935EST			0	0			Urban/Sml Stream Fld
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Sylvester P.D. reported flooding in Sylvester along U.S. 82.

Storm Data and Unusual Weather Phenomena

June 1999

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

GEORGIA, Southwest

Worth County									
Poulan	04	1937EST	0.5	50	0	0	2K		Tornado (F0)
Tornado sighted by Poulan fire squad toppled numerous trees off SR 256.									
Decatur County									
Bainbridge	04	2015EST			0	0			Hail (0.88)
Public reported nickel size hail.									
Decatur County									
Bainbridge	04	2015EST			0	0	1K		Thunderstorm Wind
Public reported several trees down.									
Worth County									
Sumner	04	2015EST			0	0	5K		Thunderstorm Wind
Several trees and power lines down reported by the Colquitt County 911 dispatch.									
Colquitt County									
Funston	04	2020EST			0	0			Funnel Cloud
Funnel cloud reported by the Colquitt County 911 dispatch.									
Colquitt County									
Moultrie	04	2050EST			0	0			Hail (0.88)
Nickel size hail reported by the Colquitt County 911 dispatch.									
Colquitt County									
Moultrie	04	2050EST			0	0	5K		Thunderstorm Wind
Several downed trees and power lines reported by the Worth County 911 dispatch.									
Thomas County									
Thomasville	04	2102EST			0	0	1K		Thunderstorm Wind
Few large trees down across Summer Hill Rd reported by the Thomas County EMA.									
Colquitt County									
1 N Moultrie	04	2106EST			0	0	2K		Thunderstorm Wind
Storm spotter reported few trees and power lines down across US 319.									
Tift County									
Tifton	05	1710EST			0	0			Hail (0.88)
Tifton County 911 dispatcher reported nickel size hail.									
Tift County									
Tifton	05	1710EST			0	0	5K		Thunderstorm Wind
Tifton County 911 dispatcher reported downed power lines.									
Turner County									
2.5 W Ashburn	29	1815EST			0	0	1K		Thunderstorm Wind
Two dozen cedar and pine trees were snapped or uprooted around GA Highway 112.									
Thomas County									
Thomasville	30	0730EST 1100EST			0	0	150K		Urban/Sml Stream Fld
Thomas County EMA reported up to 10 inches of water covered numerous streets and roads in Thomasville as slow-moving thunderstorms produced up to 8 inches of rain between 7 am and noon. Seven homes on Passmore St had up to six inches of water inside and six families were placed in a Red Cross temporary emergency shelter.									

GEORGIA, West Central

NONE REPORTED.

HAWAII

HIZ003>004-

Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - West

01	0000HST	0	0	Drought
30	2359HST			

Trade winds prevailed throughout the entire month of June, at mostly light to moderate intensities. Trade wind showers occurred across the region on a consistent basis, but rainfall totals were generally light statewide. The lack of significant rains over portions of the islands of Hawaii and Maui helped worsen an ongoing rainfall deficit that can be traced back to the 1997/98 El Nino event.

Maui County

Dry conditions persisted over most areas of Maui County during June. The central valley of Maui and the Makawao upslope region had been especially dry, with three gages in the area (Waikapu Country Club, Kihei, and Pukalani) recording zero rainfall through the month, and the gages at Kula and Ulupalakua recording only 0.01 and 0.03 of an inch, respectively. The persistence of dry conditions

Storm Data and Unusual Weather Phenomena

June 1999

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

HAWAII

in this area has forced local government to place mandatory restrictions on water use. Conditions were better over windward areas of Maui where rainfall totals were 69 and 87 percent of average. The three gages spread across the islands of Molokai and Lanai all reported below average rainfall as well.

Island of Hawaii

June was relatively dry for the island of Hawaii. The gage at Glenwood was the only site to report above average rainfall (7.83 inches, 107 percent of average). The remaining sites were mainly in the 50 to 75 percent of average range. The Kau region was very dry, with totals of only 9 and 15 percent of average recorded at Pahala and Kapapala Ranch, respectively. The Kamakoa gage in leeward Kohala showed the lowest rain total at 0.01 of an inch (3 percent of average). Although June was relatively dry for the island, year-to-date totals remained at, or above, average for most of the sites in the Hilo and Puna areas due to the very wet conditions experienced during January through mid-April.

The following list contains rainfall statistics for selected locations from Maui and the Island of Hawaii. The first column is the observed rainfall for June. The second column is the 30-year average for that location, while the third column lists the percent of average rainfall for the month of June. The fourth and fifth columns are the year-to-date totals and the year-to-date percents of average, respectively.

	June 99	Avg.	%Avg	YTD	YTD %Avg
Maui					
Kahului Airport	0.09	0.3	30	6.55	52
Hana	2.64	3.8	69	N/A	N/A
Haiku	2.85	3.4	84	N/A	N/A
Kihei	0.00	0.1	0	2.13	22
Lahainaluna	0.15	0.2	75	4.11	34
Wailuku	0.25	0.4	63	7.13	41
Island of Hawaii					
Hilo Airport	1.47	6.2	24	68.50	105
Pahala	0.20	2.2	9	12.34	40
Honaunau	2.87	7.0	41	11.30	35
Kamuela (Upper)	2.24	3.0	75	31.14	98
Glenwood	7.83	7.3	107	122.19	136
Laupahoehoe	3.30	6.2	53	62.11	75

In Upcountry Maui, the Board of Water Supply declared a warning stage in June, which requires a mandatory 10 percent cut in water consumption for all non-agricultural users. (Agricultural users are allowed a 30-day grace period to make critical decisions about when, or if, to sell livestock or plant crops.)

Ranchers and farmers in Kula and Ulupalakua in Maui are reducing their herds and crops to cope with the current drought, and are also doing so in anticipation of a mandatory 10-percent cut in water consumption that is likely to take place by the middle of July. Ulupalakua Ranch official Summer Erdman said the drought has been the worst in its 75-year history of recording rainfall. Erdman said the ranch, which manages about 23,000 acres, will probably lose about \$350,000 to \$500,000 in the next three to five years due to the drought.

In the Hamakua District on the island of Hawaii, some residents are required to reduce water use by 25%. This includes the Kukuihaele and Kapulena communities. Residents in the North Kohala towns of Makapala, Keokea, and Niulii were told to reduce their water consumption by 10%.

Island of Hawaii ranchers, who say some cattle are dying in the worst drought in years, are reducing the size of their herds because of parched pasture lands. Conventional wisdom holds that the Big Island's drought of 1998 faded after threatening vegetable and flower farmers for months. But it never ended for ranchers. Robby Hind, livestock manager for the 225,000-acre Parker Ranch that covers parts of the South Kohala and Hamakua districts in the northern parts of the Big Island, has reduced its livestock from 50,000 cattle to 35,000 head over the past four years and plans to reduce further to 30,000 because of the ongoing drought. Pono von Holt, owner of the 12,000-acre Ponoholo Ranch, has cut his herd from 7000 to about 5000 and is anticipating significant financial losses next year when the books close on the current ranching cycle. He has been forced to sell heifers for slaughter on the Mainland instead of keeping them for breeding stock. On the south side of the island, in the Kau District, the 14,000-acre Kahuku Ranch is spending hundreds of dollars a week to haul water to keep cows and calves alive after two years of drought, according to Carl "Soot" Bredhoff, the ranch manager for 17 years. Bredhoff said rain for the first six months of the last two years measured a total of 18.17 inches, versus about 59 inches recorded for the first six months in the two previous years combined.

Storm Data and Unusual Weather Phenomena

June 1999

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

HAWAII

The drought is also causing extreme fire-hazard conditions in Upcountry Maui and in the northern and southern sections of the island of Hawaii.

IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

Idaho County

(S80)Grangeville Arp	24	1653PST 1815PST				0	0	15K	Hail (1.50)
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Idaho County

(S80)Grangeville Arp	24	1653PST				0	0		Thunderstorm Wind (G54)
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1 1/2 inch hail and strong winds to 62 mph caused crop damage at Tolo Lake, Grangeville, Fenn, and Reservation Line in Idaho county between 5:30 to 5:50 PM. Estimated 75 percent crop damage in 12,200 acres of farmland. \$15,000 property damage in the Grangeville area to buildings, cars, airplanes and a helicopter. Many broken windows and dents on buildings and vehicles.

Grangeville in Idaho county....1.50 inch hail
Kooskia in Idaho county....1.00 inch hail

IDAHO, Northwest

Lewis County

Craigmont	24	1545PST 1600PST				0	0	5K	Hail (0.75)
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IDAHO, Southeast

IDZ020

Upper Snake River Plain

01		0000MST				0	0		Flood
25		1000MST							

The Henrys Fork of the Snake River continued its runoff flood from May 23. The river stage of 9.5 feet near Rexburg was exceeded with a peak of 11.1 feet reached on June 1 and 5. Flooding of low lying pasture and farmland occurred with minimal damage. The Henrys Fork also briefly exceeded the flood stage of 7.0 feet near St Anthony only on June 4, reaching 7.2 feet.

IDZ020

Upper Snake River Plain

02		1000MST				0	0		Flood
09		1000MST							

The Snake River near Shelley surpassed its flood stage of 12.0 feet and reached a peak of 12.4 feet on June 3. Flooding of low lying pasture and farmland was reported.

Bannock County

Pocatello	18	1545MST 1715MST				0	0		Hail (1.75)
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A severe thunderstorm dropped hail ranging from 0.75 to 1.75 inches at several locations in the city of Pocatello.

IDAHO, Southwest

Washington

Weiser	01	1400MST 1700MST				0	0		Urban/Sml Stream Fld
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During the afternoon of June first a series of showers and thunderstorms moved over the Weiser area dumping an estimated 2 to 3 inches of rain. Street flooding caused minor damage to a number of homes and businesses.

Canyon County

Melba to Nampa	15	1725MST 1815MST				0	0	40K	Thunderstorm Wind (G55)
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Ada County

Kuna to Boise	15	1750MST 1900MST				0	0		Thunderstorm Wind (G55)
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Scattered thunderstorms moved through southern Canyon and western Ada counties and produced damaging wind gusts. Numerous trees and powerlines were downed throughout the area. A 75 foot tall tree fell on a home in Nampa and a porch was torn off another home. In Boise, the I-84 connector was closed due to downed powerlines.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Schuyler County									
5.5 NW Rushville to 5 N Rushville	01	1605CST 1610CST	5	400	0	0	60K		Tornado (F0)
A tornado touched down 5.5 miles northwest of Rushville. As it travelled to the northeast it destroyed the roof of a machine shed and tipped over a camper and a fifth wheel. Numerous trees were blown over. Four and a half miles north northwest of Rushville, the tornado caused minor damage to two homes and the roof of a barn. Also, several power poles were snapped off at the base. The tornado lifted and dissipated 5 miles north of Rushville. No injuries were reported and damage was estimated around \$60,000.									
Schuyler County									
5 N Rushville to 4 NNW Rushville	01	1630CST 1640CST			0	0		0	Thunderstorm Wind
Thunderstorm winds blew down several trees, one of which fell onto an unoccupied car. Also, numerous tree limbs were blown down and a grain bin was blown over and onto Highway 67. No injuries were reported.									
Fulton County									
1 S Astoria to 3 NE Sepo	01	1645CST 1725CST			0	0		0	Thunderstorm Wind
Numerous trees and tree limbs were blown down in the Astoria area. Some of the trees fell over onto US 24 two miles east northeast of Astoria. As the storms approached the Sepo area, several large trees were blown down across US Route 136 three miles south of Sepo. Several more trees were blown down onto Route 78 one mile south of US Route 24. No injuries were reported.									
Cass County									
Beardstown	01	1654CST			0	0			Hail (0.75)
Knox County									
1 N Maquon	01	1655CST			0	0		0	Thunderstorm Wind
Six 25 foot tall trees were snapped off at their bases one mile north of Maquon.									
Mason County									
Bath to Manito	01	1710CST 1740CST			0	0	200K		Thunderstorm Wind (G52)
As a bow echo moved east across Mason County, numerous trees were blown down. Some of the trees caused minor structural damage. Also, a roof was lifted off of a house and an old drive-in movie screen was blown over. Five miles west of Manito, several power lines and trees were blown down in the Woodland Estates Subdivision. Several homes sustained minor damage from the fallen trees. A 60 mph wind gust was reported in Bath. Damage in Mason County due to the thunderstorm winds was estimated around \$200,000.									
Fulton County									
4.2 ENE Marbletown to 4.5 ENE Marbletown	01	1715CST 1717CST	0.3	10	0	0			Tornado (F0)
Mason County									
4.5 SSW Havana to 3 S Havana	01	1717CST 1725CST	3.5	200	0	0	500K		Tornado (F1)
A tornado touched down 4.2 miles east northeast of Marbletown (Fulton Co.), knocking over several power poles. Then it crossed the river into Mason County 4.5 miles south southwest of Havana. It hit one home causing the roof to collapse and sent bricks from the home into several houses across the street. Numerous wood projectiles (2x4s and 2x8s) were blown into a garage and porch of another house. A wheelbarrow was blown into one of the windows of the house and the garage was moved several inches off its foundation. The roof and upper floor of the garage (2 story) sustained damage. As the tornado moved east numerous trees were blown down before the tornado lifted and dissipated 3 miles south of Havana. No injuries were reported. Damage in Mason County was estimated around \$500,000.									
Mason County									
Bath	01	1740CST			0	0			Hail (0.75)
Tazewell County									
5 WSW Parkland to 3 W Dillon	01	1743CST 1815CST			0	0		0	Thunderstorm Wind
Numerous reports of trees, power poles, and power lines down as a bowecho moved through the south half of Tazewell County. Several outbuildings were either damaged or destroyed. Several irrigation rigs were blown over.									
Peoria County									
Peoria	01	1800CST			0	0		0	Thunderstorm Wind
In Peoria, a large tree was blown over onto a house causing minor damage. Also, several power lines were blown down as well.									
Sangamon County									
2 E Divernon	01	1801CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds snapped off 12 power poles at ground level two miles east of Divernon.									

Storm Data and Unusual Weather Phenomena

June 1999

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

ILLINOIS, Central

Christian County

4.4 SW Morrisonville to 4 N Palmer	01	1813CST 1825CST	11.1	200	0	0	750K	Tornado (F1)
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A tornado formed in Montgomery County (WFO St. Louis CWA) and crossed into Christian County 4.4 miles southwest of Morrisonville. Just inside the Christian County line the tornado took the roof off of a shed and smashed it into the southwest corner of a house at the second level bedroom. A camper was tipped over on its side and a visible tornado track could be seen in the cornfield surrounding the house. A mile and a half northeast, a 16 foot wide garage door was completely removed and the west wall of the attached garage was removed as well. A carport on a nearby house was destroyed. Further up the road numerous power poles were blown down, a house was blown 3 inches to the west on its foundation, and another home sustained moderate damage from a fallen tree on one end and the attached garage frame was pushed 6 inches inward on the other end. Two inch diameter tree branches were pierced at least a foot into the ground in this area. About a mile further northeast, the tornado caused around \$500,000 in damage to a farmstead. A garage was destroyed and wrapped around some farm equipment. More debris and missiles were projected several inches into the ground and a house was shifted a foot north from its foundation. Several outbuildings, grain bins, and two semis were destroyed. The tornado wrapped a grain bin around a combine and a huge grain wagon. The tornado remained on the ground for another mile and a half knocking over numerous trees and power poles before lifting and dissipating 4 miles north of Palmer. No injuries were reported and damage so far has been estimated around \$750,000.

Christian County

Countywide	01	1815CST 1830CST			0	0		Thunderstorm Wind (G61)
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As a line of storms moved northeast across Christian County it blew down numerous trees, tree branches, and power lines.

Christian County

3 WNW Palmer	01	1820CST			0	0		Hail (1.00)
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Logan County

Latham to Chestnut	01	1835CST 1840CST			0	0	0	Thunderstorm Wind
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Several large trees were blown down in Latham and Chestnut. In Latham, a shed had its doors blown off and a tree fell onto a house causing minor damage. Numerous power lines were blown down as well.

Woodford County

1.5 W Roanoke	01	1835CST			0	0	0	Thunderstorm Wind
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As a severe thunderstorm moved through Woodford County, it damaged a roof on a shed and caused minor damage to another one in the area 1.5 miles west of Roanoke.

De Witt County

Kenney to Clinton	01	1845CST 1900CST			0	0	0	Thunderstorm Wind
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As a line of severe storms moved through, numerous trees and power lines were blown down. In Kenney, siding was torn off of a church. In Clinton, one tree fell onto a home causing minor damage. No injuries were reported.

Macon County

Blue Mound to Mt Zion	01	1850CST 1910CST			0	1		Thunderstorm Wind (G52)
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As a line of severe storms moved through Macon County, four sheds, several garages and a barn were destroyed. Also, numerous trees and power lines were blown down in Niantic, Elwin, and Mt. Zion areas. In Niantic, a live power line fell onto a person causing minor injuries.

McLean County

Arrowsmith to Anchor	01	1905CST 1910CST			0	0	35K	Thunderstorm Wind
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As a line of severe storms moved northeast across eastern McLean County, numerous trees and power lines were blown down. Also, two sheds were destroyed near Anchor. Damage to the sheds was estimated around \$35,000.

Shelby County

3.5 WSW Tower Hill to 2 SW Findlay	01	1906CST 1928CST	15.5	450	0	4	2M	Tornado (F2)
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A tornado touched down on the east side of Lake Pana in Shelby County. Four homes and one mobile home were destroyed. A woman in the mobile home was injured and hospitalized for a time. A mile northeast near Route 16, several more homes were damaged or destroyed and two people in one of the destroyed homes were injured. Debris was scattered in the nearby fields. For the next four miles, several homes sustained moderate damage, numerous outbuildings and grain bins were either damaged or destroyed, and one woman sustained minor cuts and bruises. As the tornado moved to the northeast into the Westervelt area, numerous trees were blown down, buildings sustained minor damage, and 9 large grain bins were destroyed. The tornado remained on the ground for another 4.5 miles, knocking down trees and power lines before lifting and dissipating 2 miles southwest of Findlay. Damage was estimated around \$2 million.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Effingham County									
.4 S Altamont	01	1910CST 1911CST	0.2	10	0	0			Tornado (F0)
A tornado briefly touched down near the intersection of IL Route 128 and US 40. It uprooted a few trees and knocked down some power lines. No injuries were reported.									
Moultrie County									
Sullivan to 8 NE Lovington	01	1930CST 1945CST			0	0	75K		Thunderstorm Wind
In Sullivan, numerous trees, tree limbs and power lines were blown down. One tree fell onto a house causing minor damage. Five miles northeast of Lovington, several barns, outbuildings, and a garage were destroyed. Two homes sustained minor damage. Damage in this area was estimated around \$75,000. Eight miles northeast of Lovington, several trees were blown down across US Route 36.									
Piatt County									
Monticello to Pierson Station	01	1930CST 1940CST			0	0		0	Thunderstorm Wind
Numerous trees, tree limbs, and power lines were blown down in Monticello and Pierson Station. Some trees fell onto US Route 36 near Pierson Station.									
Effingham County									
Shumway	01	1935CST			0	0		0	Thunderstorm Wind
Thunderstorm winds blew down several trees and power lines in the Shumway area and damaged a couple of sheds.									
Shelby County									
Stewardson to 1 E Windsor	01	1935CST 1945CST			0	0	100K		Thunderstorm Wind (G61)
Numerous trees, tree limbs, and power lines were blown down in Stewardson. One business on the east side of town was destroyed. Another business sustained minor damage. As the storms moved northeast towards Windsor, eight power poles were snapped off along Route 16 east of Windsor.									
Champaign									
3 W Mahomet to Champaign	01	1941CST 1955CST			0	0			Thunderstorm Wind (G65)
A thunderstorm gust to 75 mph was reported near the Champaign/Piatt county line west of Mahomet. In Champaign, numerous trees, tree limbs, and power lines were blown down.									
Champaign									
3.5 SW Mahomet	01	1942CST	0.2	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field 3.5 miles southwest of Mahomet. No injuries or damage were reported.									
Douglas County									
Arthur to Garrett	01	1946CST 1950CST			0	0		0	Thunderstorm Wind
Several trees, tree limbs and power lines were blown down in Atwood, Arthur and Garrett.									
Coles County									
Etna	01	2002CST			0	0			Hail (1.00)
Clay County									
Iola	01	2015CST			0	0		0	Thunderstorm Wind
Several trees were blown down in the Iola area.									
Coles County									
2 W Mattoon to Charleston	01	2015CST 2032CST			0	0			Thunderstorm Wind (G65)
Several trees, tree limbs, and power lines were blown down. Two miles west of Mattoon, a metal building sustained minor damage.									
Cumberland									
3 NNE Neoga to Greenup	01	2015CST 2035CST			0	0			Thunderstorm Wind (G61)
As a severe storm moved across Cumberland County, a 70 mph wind gust was recorded 3 miles north northeast of Neoga. In Greenup, a small tree was uprooted and several large tree limbs were blown down.									
Jasper County									
Wheeler to 5 S Newton	01	2030CST 2050CST			0	0		0	Thunderstorm Wind
A line of severe storms moved through Jasper County. Five power poles were blown down on IL Route 33 near Wheeler. In Newton, a new drive-in movie screen was destroyed. A storage building on the fairgrounds was destroyed. Also, 5 miles south of Newton, a machine shed was damaged, a mobile home sustained minor damage, and the township voting precinct trailer was destroyed. No injuries were reported.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Edgar County									
Brocton to 5 S Paris	01	2036CST 2100CST			0	0		0	Thunderstorm Wind
As storms moved across Edgar County, numerous tree limbs were blown down. One tree was blown down 5 miles south of Paris on Route 1 and another one was blown down on US Route 150 just east of Paris. No injuries were reported.									
Jasper County									
5 W Rose Hill to 4.5 W Rose Hill	01	2036CST 2038CST	0.5	20	0	0			Tornado (F0)
A tornado touched down 5 miles west of Rose Hill. It caused moderate damage to a mobile home, uprooted several trees, and knocked down power lines. No injuries were reported.									
Vermilion County									
Westville to Danville	01	2044CST 2047CST			0	0		0	Thunderstorm Wind
As storms moved across Vermilion County, a tree split in half and fell onto a house in Westville causing minor damage. Also, a shed was destroyed and a camper was flipped over onto its roof. In Danville, a tree fell onto a car causing minor damage. Numerous tree limbs were blown down. No injuries were reported.									
Clark County									
4 SE Westfield to 3 W Clarksville	01	2045CST 2050CST	6	50	0	0	350K		Tornado (F0)
A tornado touched down 4 miles southeast of Westfield. It destroyed 3 machine sheds, a barn, and several trees. The nearby house did not sustain any damage. As it travelled to the northeast, another farm was hit. Two sheds, a brooder house, and half a barn were destroyed. The house sustained major damage with a large hole in the roof and almost every window was shattered. Debris was found up to two miles away. The house was shifted on its foundation which caused the concrete porch to split in half. A 2x4 flew through the house and was embedded into a wall. The tornado then lifted and dissipated 3 miles west of Clarksville. No injuries were reported and damage was estimated around \$350,000.									
Clark County									
2 SE Martinsville to 3 SE Marshall	01	2050CST 2115CST			0	0		0	Thunderstorm Wind
As severe storms moved through Clark County, numerous trees were blown down. One of the trees fell onto a house in rural Martinsville causing moderate damage. In Marshall, eight homes sustained minor damage and several power lines were blown down. Also, 3 miles southeast of Marshall, a machine shed was destroyed and a residence sustained minor damage. No injuries were reported.									
Crawford County									
Countywide	01	2056CST 2126CST			0	0			Thunderstorm Wind (G52)
Numerous trees, tree limbs, and power lines were blown down throughout the county. One house in Robinson sustained minor damage to its porch due to a fallen tree. No injuries were reported.									
Crawford County									
Oblong	01	2101CST			0	0			Hail (1.00)
Richland County									
Noble to 4 NNE Claremont	01	2106CST 2136CST			0	0			Thunderstorm Wind (G61)
A line of severe thunderstorms moved through Richland County. Numerous trees, tree limbs, and power lines were blown down in Noble, Olney, and 4 miles north northeast of Claremont. In Noble, a shed was destroyed and a tree fell onto a house causing minor damage.									
Lawrence County									
Countywide	01	2151CST 2211CST			0	0		0	Thunderstorm Wind
Numerous trees were blown down near Sumner, Bridgeport, Lawrenceville, and St. Francisville. In Russellville, several mobile homes sustained minor damage. No injuries were reported.									
Coles County									
Central Portion	01 02	2230CST 0300CST			0	0	3M		Flash Flood
Shelby County									
East Portion	01 02	2230CST 0300CST			0	0			Flash Flood
Slow moving thunderstorms produced heavy rainfall across the area during the late evening hours on June 1st and early morning hours of June 2nd. Rainfall amounts of 4 to 6 inches were common within a three hour period in eastern Shelby County and central Coles County. In Coles County, Mattoon sustained most of the damage. Dozens of residents became stranded by flood waters as it surrounded a housing development. Thirty to 42 apartments were inundated in the complex. An estimated additional 100 homes and businesses were affected by the flood waters as well. In Shelby County, 70 families were forced from their homes due to flooding, although only minor structural damage was reported there. Damage in Coles County was estimated around \$3 million. No injuries									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
									were reported.
Knox County									
Knox	04	1424CST			0	0		0	Thunderstorm Wind
									Several power poles were blown down.
Knox County									
Maquon	04	1435CST			0	0			Hail (0.75)
Stark County									
Osceola	04	1444CST			0	0		0	Thunderstorm Wind
									Numerous large tree limbs were blown down in Osceola.
Fulton County									
6 N Fairview to Canton	04	1456CST 1506CST			0	0		0	Thunderstorm Wind
									A line of severe storms moved southeast across Fulton County. It blew down numerous trees, tree limbs, power lines, and power poles 6 miles north of Fairview, in Farmington, and in Canton.
Peoria County									
Peoria	04	1509CST 1514CST			0	0		0	Thunderstorm Wind
									Numerous trees and tree limbs were blown down in Peoria. Some caused minor damage to a few homes, mainly to porches and roofs. No injuries were reported.
Tazewell County									
East Peoria to 4 ENE Delavan	04	1520CST 1543CST			0	0			Hail (1.75)
									Dime size hail fell in East Peoria, Washington, and 4 miles east northeast of Delavan. Golfball sized hail was reported in Tremont.
Woodford County									
Germantown Hills	04	1520CST			0	0			Hail (1.75)
Mason County									
1 S Havana to San Jose	04	1523CST 1543CST			0	0			Hail (1.75)
									Golfball sized hail fell one mile south of Havana and in Kilbourne. Dime size hail fell in San Jose.
Woodford County									
1 SW Washburn	04	1523CST 1525CST	0.3	20	0	0			Tornado (F0)
									A tornado touched down one mile southwest of Washburn. It caused extensive damage to one house's roof when it blew down several nearby trees, which then fell onto the house. It then moved into the Snag Creek Golf Course and blew down several more trees before lifting and dissipating. No injuries were reported.
Mason County									
Countywide	04	1524CST 1549CST			0	0		0	Thunderstorm Wind
									Numerous power poles were blown down countywide.
Woodford County									
Metamora	04	1524CST			0	0		0	Thunderstorm Wind
									Several trees were uprooted and numerous tree limbs were blown down in Metamora. One power pole was snapped off on the south side of town. No injuries were reported.
Tazewell County									
.5 NW Delavan to 2 ESE Delavan	04	1525CST 1530CST	2.5	200	0	0			Tornado (F1)
									A tornado touched down on the northwest side of Delavan. It uprooted several large trees. The only structural damage in this area was due to tree branches. As it travelled to the east southeast, it blew a small outdoor amphitheater into a nearby creek. As the tornado moved into the northeast side of town, it knocked down numerous trees. One tree fell onto an unoccupied truck, another one fell onto the roof of a house, and still another one fell onto a mobile home. Several other homes sustained minor damage to their roofs and siding on a few homes was ripped off. As the tornado moved east southeast out of town it weakened somewhat. It uprooted several more trees, knocked down more branches, and destroyed a small shed 2 miles east southeast of Delavan before lifting and dissipating. No injuries were reported.
Logan County									
San Jose	04	1526CST			0	0			Hail (0.75)
Cass County									
1 E Beardstown	04	1532CST			0	0		0	Thunderstorm Wind
									Several trees were blown down one mile east of Beardstown. Also, a home in the area lost some siding.
Tazewell County									
4.5 E Delavan	04	1534CST			0	0		0	Thunderstorm Wind
									A semi was blown over on I-155 east of Delavan. The driver was uninjured. Several trees were blown down nearby.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
McLean County									
Carlock to Heyworth	04	1543CST 1613CST			0	0			Thunderstorm Wind (G61)
As a line of severe thunderstorms moved southeast across McLean County, several reports of damage were reported. In Carlock, a 70 mph wind gust was reported. On the west side of Bloomington, a large tree fell onto a house causing moderate damage to the roof and siding. In Heyworth, numerous large tree limbs were blown down.									
Logan County									
4 NW Lincoln	04	1545CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down north of county road 1850N between I-155 and IL Route 121. No injuries or damage were reported.									
Logan County									
3.5 NW Lincoln to 1.5 NNW Lincoln	04	1550CST 1552CST	2.5	100	0	2			Tornado (F0)
The tornado initially touched down near the intersection of I-155 and I-55, about 3.5 miles northwest of Lincoln. It blew over several semis causing injuries to two drivers. The drivers were treated and released. The tornado continued to the east southeast damaging trees, grain bins, and farm equipment near IL Route 121 and county road 1750N. It crossed IL Route 121 and entered Kickapoo Creek county park, where it did extensive damage to dozens of trees. Several tree limbs and sheared tree tops were thrown 50 to 100 yards away. The tornado lifted and dissipated near the east edge of the park.									
Logan County									
3 WNW Lincoln to 1 ESE Lincoln	04	1550CST 1600CST			0	1			Thunderstorm Wind (G61)
Just to the south of the tornado that moved through the northern sections of Lincoln, a swath of damaging downburst winds cut a path through portions of Lincoln. Numerous trees, tree limbs, and power lines were blown down. Several residences sustained damage as a result of downed trees and large tree limbs. Lincoln College also sustained tree damage, as well as, minor damage to fencing and dugouts at the baseball field. Near the junction of IL Routes 10 and 121 a billboard was blown down and a grocery store suffered minor damage to the roof and exterior wall. On the west side of Lincoln near the entrance to I-55 (exit 126), a truck driver was injured while trying to exit his truck and run for cover in a local restaurant. The downburst winds knocked him to the ground. He suffered a broken arm and numerous bruises.									
McLean County									
5 E Carlock	04	1550CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down on the Hudson/Carlock blacktop 5 miles east of Carlock. No damage or injuries were reported.									
Logan County									
4 SW Lincoln	04	1553CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down near the I-55 exit 123 ramp four miles southwest of Lincoln. No injuries or damage were reported.									
McLean County									
4 SW Bloomington	04	1556CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down on Stringtown Road 4 miles southwest of Bloomington. No injuries or damage were reported.									
McLean County									
4 NW Heyworth to 1 N Heyworth	04	1604CST 1609CST	3.5	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down near the intersection of county roads 1200E and 450N then lifted. It touched down briefly once more one mile north of Heyworth. No injuries or damage were reported.									
McLean County									
1 W Lexington	04	1610CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field one mile west of Lexington. No injuries or damage were reported.									
Sangamon County									
Riverton	04	1612CST			0	0			Thunderstorm Wind (G61)
Several trees were blown down.									
McLean County									
1 SW Chenoa to 3 S Chenoa	04	1613CST 1618CST	2	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down one mile southwest of Chenoa, lifted and touched down once more 3 miles south of Chenoa. No injuries or damage were reported.									
Macon County									
3.5 S Maroa	04	1618CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field 3.5 miles south of Maroa. No injuries or damage were reported.									
Macon County									
7 SW Decatur	04	1628CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in Lincoln Homestead Memorial Park. No damage was reported.									
Macon County									
Boody	04	1630CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Macon County									
Boody	04	1630CST			0	0		0	Thunderstorm Wind
Several power lines were blown down in Boody.									
Sangamon County									
5 E Lanesville	04	1630CST			0	0			Hail (0.75)
Dime sized hail fell in Illiopolis.									
Macon County									
2 S Argenta	04	1635CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down at the intersection of county road 25 and I-72. No damage was reported.									
Mclean County									
1 S Saybrook	04	1635CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field one mile south of Saybrook. No damage was reported.									
Mclean County									
2 N Anchor to .5 N Cropsey	04	1638CST 1643CST	3.5	20	0	0	0	0	Tornado (F0)
A tornado touched down briefly several times from 2 miles north of Anchor to half a mile north of Cropsey. No damage was reported.									
Piatt County									
5 WNW Mansfield	04	1638CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in field. No damage was reported.									
Piatt County									
1 S Mansfield	04	1648CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage was reported.									
Champaign									
6 N Urbana	04	1713CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field 6 miles north of Urbana. No damage was reported.									
Shelby County									
4 NW Shelbyville	04	1713CST			0	0			Hail (0.75)
Champaign									
5 SE Urbana	04	1727CST	0.1	20	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field 5 miles southeast of Urbana. No damage was reported.									
Coles County									
Countywide	04	1728CST 1755CST			0	0		0	Thunderstorm Wind
Countywide trees and power lines were blown down. Also, in Mattoon a window was blown out on one building downtown.									
Effingham County									
Countywide	04	1734CST 1758CST			0	0		0	Thunderstorm Wind
Numerous trees, tree limbs, and power lines were blown down countywide. Some trees fell onto a few homes causing minor damage.									
Coles County									
Mattoon	04	1745CST			0	0			Hail (0.75)
Vermilion County									
Countywide	04	1748CST 1824CST			0	0		0	Thunderstorm Wind
Countywide numerous trees, tree limbs, and power lines were blown down.									
Clay County									
4 W Flora to 1 N Flora	04	1755CST 1805CST			0	0		0	Thunderstorm Wind
As a severe storm moved east through Clay County, it blew down several trees 4 miles west of Flora. One mile north of Flora signs at a racetrack were blown down and several power lines were blown down.									
Clark County									
Countywide	04	1805CST 1840CST			0	0		0	Thunderstorm Wind
Several trees and power lines were blown down countywide.									
Jasper County									
Newton to St Marie	04	1810CST 1829CST			0	0		0	Thunderstorm Wind
Numerous trees and power lines were blown down. Eight to ten power poles were blown down and some sheet metal was blown off of a barn. Near Route 130 and the St. Marie Spur, a barn and silo were damaged.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Clay County									
Clay City	04	1820CST			0	0			Hail (1.00)
Richland County									
Calhoun	04	1834CST			0	0	0		Thunderstorm Wind
Several power lines were blown down in Calhoun.									
Lawrence County									
Sumner	04	1849CST			0	0	0		Thunderstorm Wind
Several trees and power lines were blown down in Sumner.									
Woodford County									
1 SW Low Pt to Low Pt	06	1730CST 1732CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down a tree onto a house one mile southwest of Low Point causing major damage. Also, several other trees and power lines were blown down in Low Point.									
Sangamon County									
3 S Auburn	08	1345CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several large trees, some of which caused major damage to a minivan, a house, and a barn. One power pole was snapped in half.									
Macon County									
Decatur	08	1601CST			0	0			Hail (0.75)
Christian County									
Tovey	08	1608CST			0	0			Hail (1.00)
Macon County									
Bearsdale to 1 N Decatur Arpt	08	1628CST 1640CST			0	0			Hail (0.88)
Macon County									
1 S Decatur	08	1637CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several large tree limbs.									
Macon County									
Harristown	08	1710CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several power lines in Harristown.									
Champaign									
Bondville	09	1700CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several trees, knocked over a grain bin, and caused minor damage to a barn.									
Knox County									
1 S Galesburg	10	1525CST			0	0	5K	0	Thunderstorm Wind
Numerous tree limbs were blown down and one power pole was blown down onto a car causing \$5,000 in damage.									
Mclean County									
1 N Stanford to 2 NE Stanford	10	1530CST 1531CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several large tree branches onto a house causing minor damage. On Route 122 thirteen power poles were blown down.									
Woodford County									
1 N Goodfield	10	1640CST			0	0			Thunderstorm Wind (G59)
Several power poles were blown down.									
Vermilion County									
1 W Fithian	11	1208CST			0	0			Hail (0.75)
Vermilion County									
1 W Fithian	11	1210CST			0	0			Thunderstorm Wind (G61)
Morgan County									
Meredosia	11	1300CST			0	0			Thunderstorm Wind (G61)
Several large tree limbs were blown down.									
Christian County									
Pana	11	1355CST			0	0			Hail (0.75)
Christian County									
Pana	11	1400CST 1410CST			0	0	0		Thunderstorm Wind
Several trees were blown down in town, one of which fell onto an unoccupied car. On the north side of town ten power poles were snapped off at their bases.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
Woodford County									
4 W El Paso to El Paso	11	1414CST 1430CST			0	0	0	0	Thunderstorm Wind
Four miles west of El Paso, a roof was blown off of a building at a camp ground and a semi was blown over. In El Paso, several large tree limbs and power lines were blown down.									
Macon County									
Argenta	11	1425CST			0	0	0	0	Thunderstorm Wind
Several power lines were blown down in Argenta.									
Shelby County									
Clarksburg	11	1430CST			0	0	0	0	Thunderstorm Wind
Several trees were blown down in Clarksburg.									
Marshall County									
4 NW Varna	11	1615CST			0	0	0	0	Thunderstorm Wind
Several trees and power lines were blown down in the Lake Wildwood Subdivision 4 miles northwest of Varna.									
ILLINOIS, Northeast									
Will County									
Lockport	01	1650CST			0	0			Hail (0.75)
Cook County									
Lemont	01	1707CST			0	0			Hail (1.25)
Lee County									
Dixon to Paw Paw	01	1745CST 1815CST			0	0			Thunderstorm Wind (G61)
Winnebago									
Pecatonica	01	1810CST			0	0			Thunderstorm Wind (G50)
La Salle County									
Peru to Rutland	01	1818CST 1820CST			0	0			Thunderstorm Wind (G50)
De Kalb County									
3 NW Shabbona to De Kalb	01	1825CST			0	0			Thunderstorm Wind (G52)
A line of thunderstorms caused wind damage across part of north central Illinois during the early evening hours of June 1. Trees and power lines were downed on the north side of Dixon. Winds were estimated at 70 mph. As many as 50 large stately oak trees were knocked down in a park in Amboy. Homes and vehicles were also damaged by falling limbs. A highway maintenance shed was destroyed. Six power poles were blown down west of Paw Paw and poles were also downed near Herman and Steward Roads, just west of I-39. Trees were split in Pecatonica in Winnebago County and trees were damaged in Peru and Rutland in LaSalle County. In DeKalb County, a 60 mph wind gust was recorded at the meteorology department and Northern Illinois University. Twenty power poles were blown over and a pole barn was destroyed in the southern part of the county northwest of Shabbona.									
Iroquois County									
6 S Crescent City to Sheldon	01	2015CST 2030CST			0	0			Thunderstorm Wind (G50)
Thunderstorms blew a car off the road on highway 49. A tool shed was destroyed and a house was damaged south of Crescent City. Trees and power lines were downed in Sheldon.									
ILZ014									
Cook									
	03	1200CST			4	0			Excessive Heat
	11	1800CST							
A mild heat wave resulted in 4 deaths in Cook County. High temperatures were around 90 with the maximum heat index around 95 to 100 for about a week. M35PH, M53PH, F29PH, M48PH									
Livingston County									
Pontiac	04	1643CST			0	0			Thunderstorm Wind (G50)
Trees were blown down.									
Ford County									
1.5 W Roberts	04	1713CST	0.2	30	0	0			Tornado (F0)
There were several reports of a tornado west of Roberts and near Melvin. No damage was reported.									
ILZ003									
Winnebago									
	05	1500CST			2	0			Excessive Heat
Three boys were found in a closed car in Rockford. A 3 year old died on June 5th and a 2 year old died 2 days later. Another 2 year old survived. The high temperature in Rockford was 89. M3VE, M2VE									

Storm Data and Unusual Weather Phenomena

June 1999

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

ILLINOIS, Northeast

Ogle County

Polo **06** **1320CST** **0** **0** **Thunderstorm Wind (G50)**
A shed was damaged and tree limbs were blown down.

Kane County

Carpentersville **06** **1738CST** **0** **0** **Thunderstorm Wind (G63)**
A spotter reported a 72 mph wind gust.

La Salle County

5 N Seneca **06** **1810CST** **0** **0** **Thunderstorm Wind (G50)**
Tree limbs were blown down.

Grundy County

Morris **06** **1825CST**
1835CST **0** **0** **Thunderstorm Wind (G50)**
Trees were blown down in Morris and northern Grundy County.

Will County

Braidwood **09** **1340CST** **0** **0** **Hail (1.00)**

Cook County

Arlington Hgts **09** **1622CST** **0** **0** **Hail (1.75)**

Lake County

Buffalo Grove **09** **1635CST** **0** **0** **Hail (1.50)**

Grundy County

Morris **10** **1115CST** **0** **0** **150K** **Thunderstorm Wind (G50)**
Strong winds brought down tree branches and wires. Falling trees caused damage to buildings and at least one vehicle.

Will County

New Lenox **10** **1520CST** **0** **0** **Thunderstorm Wind (G50)**
Three silos and a machine shed were destroyed. Tree limbs and wire were downed.

Boone County

Caledonia **10** **1535CST** **0** **0** **Thunderstorm Wind (G50)**
Tree limbs up to a foot in diameter were blown down.

Kendall County

Newark **10** **1615CST** **0** **0** **Hail (1.00)**

De Kalb County

Kirkland to **10** **1640CST** **0** **0** **Thunderstorm Wind (G69)**
5 ENE De Kalb **1645CST**
60 mph winds were reported at Kirkland. Trees were uprooted northeast of Dekalb Airport and winds were estimated at 80 mph.

Lake County

Waukegan **10** **1500CST** **0** **0** **Thunderstorm Wind (G61)**
Strong winds knocked moored sailboats against piers causing damage. One boat clocked the winds at 70 mph. Tree limbs were blown down in Waukegan.

Iroquois County

Watseka **11** **1334CST** **0** **0** **Thunderstorm Wind (G51)**
A 59 mph wind gust was recored at the Emergency Operation Center. Trees were blown down.

Cook County

Park Ridge **11** **1520CST** **0** **0** **Thunderstorm Wind (G52)**
A spotter reported 55 to 60 mph winds. Tree limbs were blown down in Alsip and a limb fell on a car in Palos Heights.

Cook County

Chicago **11** **1530CST** **0** **2** **Lightning**
Lightning struck a tree, causing a limb to fall on a car on the southwest side of Chicago.

Iroquois County

Wellington **12** **1445CST** **0.2** **30** **0** **0** **Tornado (F0)**
There were public sightings of a tornado touching down briefly near Wellington. There was no damage.

ILZ003>005-

Winnebago - Boone - Mchenry - De Kalb - Kane

13 **1200CST** **0** **0** **Flood**
17 **1200CST**

Rainfall of between 1 and 2 inches had fallen during the last part of the second week of June. This rainfall set the stage for flooding. Between 4 and 6 inches of rain fell over parts of Ogle, Boone, Dekalb and Mc Henry counties on Sunday June 13.

In Boone County, residents along Coon Creek near Belvidere sandbagged homes in the River Reach subdivision. The Bel-Air Country Club was inundated. Residents along Lawrenceville Road and in Jellystone Park were told to leave their homes. Around 60 children at a day camp were taken to a nearby school. Homes were flooded in Capron. The Kiswaukee River at Belvidere crested at

Storm Data and Unusual Weather Phenomena

June 1999

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

ILLINOIS, Northeast

13.9 feet, .3 feet below the record crest.

In McHenry County, flooding occurred along the Upper Fox River and Nippersink Creek. It was the worst flooding in 6 years. At Four Colonies Park near Crystal Lake water was knee deep. Homes and streets suffered severe flooding along Nippersink Creek.

In Dekalb County there was some flooding of roads and homes. In Winnebago County flooding affected dozens of roads and parks. Some homes were sandbagged in New Milford. In northern Kane County a fire station and school were flooded. A bridge was washed out near Hampshire.

Kankakee County

Northwest Portion	22	1615CST 1715CST			0	0			Flash Flood
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Will County

Custer Park	22	1615CST 1715CST			0	0			Flash Flood
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Radar estimated that up to 4 inches of rain fell in southwest Will and northwest Kankakee Counties. Flooding was reported along Route 113.

ILLINOIS, Northwest

Carroll County

Savanna	01	1605CST			0	0			Thunderstorm Wind (G54)
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Thunderstorm winds gusting over 60 mph blew down several large trees.

Carroll County

Lanark	01	1610CST			0	0			Thunderstorm Wind (G58)
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Thunderstorm winds dumped a grain leg, a grain transport device, onto a large storage bin. Numerous reports of tree limbs down.

McDonough

2 E Industry	01	1638CST			0	0			Funnel Cloud
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Warren County

Roseville	01	1638CST			0	0			Urban/Sml Stream Fld
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Water over several roads in town.

Henry County

5 N Geneseo	01	1655CST			0	0			Thunderstorm Wind (G54)
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Several large tree limbs downed.

Carroll County

Thomson	01	1700CST			0	0			Thunderstorm Wind (G52)
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Henry County

Lynn Center	01	1700CST			0	0			Thunderstorm Wind (G54)
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Several power lines downed.

Whiteside County

Prophetstown	01	1705CST			0	0			Thunderstorm Wind (G52)
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Thunderstorm winds gusted to 60 mph for 5 minutes. A few small trees were downed.

Henry County

Oscos	01	1710CST			0	0			Thunderstorm Wind (G52)
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A few large trees downed.

Whiteside County

2 S Morrison	01	1718CST			0	0			Thunderstorm Wind (G56)
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Several large trees, roughly 4 to 6 feet in diameter, were blown down. Power lines were also downed.

Stephenson

1 S Florence	01	1750CST	0.1	10	0	0			Tornado (F0)
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Brief tornado touchdown along West Florence Road. No damage was reported.

Mercer County

Joy	04	1340CST			0	0			Thunderstorm Wind (G52)
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Power poles and numerous tree limbs were downed.

Rock Island

Moline	04	1400CST			0	0	1K		Lightning
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A lightning strike damaged the attic area of a residence.

Henry County

Oscos	04	1410CST			0	0	2.5K		Thunderstorm Wind (G65)
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Several pieces of equipment were blown over or damaged at J&L Feed Service.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Northwest									
Rock Island									
Countywide	04	1415CST			0	0			Thunderstorm Wind (G56)
									Power poles and numerous tree limbs downed throughout the county.
Henry County									
3 E Geneseo	04	1420CST			0	0			Funnel Cloud
Henry County									
Geneseo	04	1420CST			0	0	2.5K		Thunderstorm Wind (G65)
									A roof was partially blown off a house.
Henry County									
Kewanee	04	1430CST			0	1			Thunderstorm Wind (G65)
									Straight line winds blew a truck over in Kewanee. The driver escaped with only minor injuries. The sheriff's department received many calls regarding power lines being downed. Winds also ripped the top off a grain elevator and blew part of a roof off a building. A tree was also blown over onto a car at Lexington and Fourth street.
Hancock County									
Ferris	04	1435CST			0	0			Thunderstorm Wind (G52)
Mcdonough									
.5 S Bushnell	04	1500CST			0	0			Funnel Cloud
Mcdonough									
Macomb	04	1500CST			0	0			Thunderstorm Wind (G56)
Bureau County									
Wyandot	04	1514CST			0	0			Thunderstorm Wind (G56)
									Several trees downed in town.
Putnam County									
1 N Mc Nabb	04	1530CST	0.1	10	0	0			Tornado (F0)
									Brief tornado touchdown with no reported damage.
Rock Island									
1 S Milan	06	1332CST			0	0			Hail (1.00)
Whiteside County									
Fulton	06	1340CST			0	0			Hail (0.75)
Carroll County									
Savanna	06	1353CST			0	0			Thunderstorm Wind (G72)
									Several 15 inch diameter trees uprooted.
Warren County									
Little York	06	1355CST			0	0			Hail (0.75)
Stephenson									
Freeport	06	1410CST			0	0	5K		Thunderstorm Wind (G65)
									Roof partially torn off an apartment building.
Stephenson									
.5 N Freeport	06	1414CST	0.1	10	0	0			Tornado (F0)
									Brief tornado touchdown produced no damage or injuries.
Carroll County									
Shannon	06	1415CST			0	0	5K		Thunderstorm Wind (G65)
									Straight line winds gusting over 70 mph damaged a tavern and tore part of a roof off a restaurant.
Carroll County									
Savanna	06	1430CST			0	0	10K		Lightning
									Lightning struck a bell tower at St. Paul's Episcopal Church causing significant smoke and fire damage.
Henderson County									
Countywide	06	1430CST			0	0			Thunderstorm Wind (G55)
									Numerous tree limbs downed throughout the county. Winds also caused scattered power outages across the county.
Stephenson									
Freeport	06	1430CST			0	0			Urban/Sml Stream Fld
									Heavy rain flooded several streets including Locust street and Chestnut street.
Mercer County									
Seaton	06	1500CST	0.1	10	0	0			Tornado (F0)
									A tornado touched down briefly causing no injuries or damage.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Northwest									
Mercer County									
Viola	06	1504CST			0	0			Hail (0.75)
Stephenson									
Freeport	06	1510CST			0	0			Hail (0.75)
Mercer County									
Aledo	06	1515CST			0	0			Thunderstorm Wind (G55)
Several tree limbs downed. A large tree was blown down onto a baseball field.									
Stephenson									
Freeport	06	1522CST			0	0			Thunderstorm Wind (G55)
Several trees downed.									
Carroll County									
1 S Mt Carroll	08	1255CST			0	0	2.5K		Hail (0.88)
Wind-driven nickel sized hail damaged a number of corn fields. Approximately 40 percent of the plants in the field were broken off by the wind and hail. Winds were estimated around 70 mph.									
Carroll County									
1 S Mt Carroll	08	1255CST			0	0	2.5K		Thunderstorm Wind (G61)
Wind-driven nickel sized hail damaged a number of corn fields. Approximately 40 percent of the plants in the field were broken off by the wind and hail. Winds were estimated around 70 mph.									
Carroll County									
Savanna	08	1307CST			0	0			Hail (0.75)
Jo Daviess County									
Hanover	08	1330CST			0	0			Hail (0.75)
Carroll County									
Mt Carroll	08	1452CST			0	0			Hail (1.00)
Warren County									
Roseville	08	1512CST			0	0			Thunderstorm Wind (G55)
Several trees and power lines downed.									
Warren County									
1 W Roseville	08	1544CST			0	0			Urban/Sml Stream Fld
Heavy rain flooded Highway 116 west of town.									
Mcdonough									
Blandinsville	08	1719CST			0	0			Urban/Sml Stream Fld
Several roads closed due to flooding.									
Warren County									
Roseville	08	1753CST			0	0			Urban/Sml Stream Fld
Water over the Highway 67 bridge at 80th Avenue.									
Rock Island									
Milan	10	1442CST			2	0			Lightning
A man and woman fishing along the Rock River just east of the U.S. 67 bridge in Milan were struck and killed by lightning. The couple were fishing underneath a tree when the storm rolled in. F45UT, M46UT									
Henderson County									
1 N Rozetta	11	1545CST			0	0			Thunderstorm Wind (G52)
Winds gusting to 60 mph downed a tree.									
Bureau County									
Dalzell	11	1627CST			0	0			Hail (0.75)
Whiteside County									
1 E Erie	12	1300CST			0	0			Funnel Cloud
Whiteside County									
1 SE Prophetstown	12	1315CST			0	0			Funnel Cloud
Whiteside County									
1 E Prophetstown	12	1320CST	0.1	10	0	0			Tornado (F0)
A tornado touched down briefly causing no injuries or damage.									

ILLINOIS, South

ILZ084-088-092

Jackson - Union - Alexander

01	0001CST				0	0			Flood
03	0800CST								

After being over flood stage for much of May, the Mississippi River remained slightly above flood stage through early June. The river

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
ILZ084									
Jackson									
	01	0001CST			0	0			Flood
	10	2200CST							
	The Big Muddy River was held above flood stage in the Murphysboro area due to high water levels on the Mississippi River. Through early June, the river was never more than a couple feet above the 16-foot flood stage at Murphysboro. This resulted in minor flooding of some agricultural bottomland.								
White County									
Carmi	01	2335CST			0	0			Hail (0.75)
	Although most of the hail was only a half inch in diameter, the hailstorm persisted for 3 to 5 minutes.								
Johnson County									
Vienna	02	0100CST 0400CST			0	0			Urban/Sml Stream Fld
Pope County									
Herod	02	0100CST 0400CST			0	0	3K		Urban/Sml Stream Fld
Saline County									
Rudement	02	0100CST 0400CST			0	0	3K		Urban/Sml Stream Fld
	Thunderstorms produced very heavy rain that flooded small streams and creeks. At one residence near the confluence of two small creeks near Herod, the driveway was under 2 feet of water. In the Vienna area, minor street flooding occurred.								
Johnson County									
New Burnside	02	0110CST			0	0			Hail (1.00)
Wayne County									
Fairfield	04	1855CST			0	0	100K		Tstm Wind
	Over 75 trees were uprooted or destroyed in Fairfield. Several homes and businesses were damaged. Fallen debris caused several complete street blockages. Most of the building damage was due to trees falling on structures. One large house was heavily damaged by a huge walnut tree that was uprooted. The roof was reportedly blown off a dry-cleaning business.								
Wabash County									
Countywide	04	1855CST			0	0	3K		Thunderstorm Wind (G50)
	Limbs, trees, and power lines were down.								
Edwards County									
2 SW Browns	04	1855CST			0	0	30K		Lightning
	Lightning struck a large oil storage tank, causing a spectacular fire.								
Edwards County									
Albion	04	1858CST			0	0			Hail (0.88)
Edwards County									
Albion	04	1858CST			0	0			Thunderstorm Wind (G52)
	The county sheriff department reported a gust to 60 MPH.								
Jefferson County									
Ina	04	1901CST			0	0			Hail (1.00)
White County									
Carmi	04	1915CST			0	0	10K		Thunderstorm Wind (G52)
	Numerous trees and limbs were down around Carmi.								
Franklin County									
Benton to West Frankfort	04	1925CST 1935CST			0	0	10K		Thunderstorm Wind (G52)
	State police reported trees down in Benton. Glass was blown out of a video store in West Frankfort.								
Gallatin County									
Countywide	04	1945CST			0	0	5K		Thunderstorm Wind (G52)
	Large branches were down across the county.								
Williamson									
Marion	04	1945CST			0	0	7K		Thunderstorm Wind
	The roof of a shed was blown off along Old Route 13.								
Pope County									
Delwood	04	2000CST			0	0	3K		Thunderstorm Wind (G50)
	A few trees were down.								

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
Perry County									
1 N Tamaroa	04	2000CST			0	0	5K		Thunderstorm Wind (G50)
									Tree limbs and power lines were down.
Saline County									
1 S Harrisburg to 6 S Harrisburg	04	2001CST 2006CST			0	0	6K		Thunderstorm Wind (G50)
									Numerous trees and power lines were down.
Hardin County									
Elizabethtown	04	2020CST			0	0	3K		Thunderstorm Wind (G52)
									Trees were down.
Saline County									
Stonefort	04	2020CST			0	0	8K		Thunderstorm Wind
									The windows of a bank were blown out.
Massac County									
Midway	04	2055CST			0	0	3K		Thunderstorm Wind (G50)
									An observer in a local rainfall reporting network observed large tree limbs down.
Pulaski County									
Mounds	06	1540CST			0	0	3K		Thunderstorm Wind (G50)
									Power lines were blown down.
Pulaski County									
Mounds	06	1600CST 1800CST			0	0			Flash Flood
									Thunderstorms produced torrential downpours, enough to cover some roads with water. Trained spotters reported water over West Mounds Blacktop and other roads.
Gallatin County									
3 S Omaha	06	1738CST			0	0			Hail (1.00)
Gallatin County									
3 S Omaha	06	1738CST			0	0			Thunderstorm Wind (G52)
									A spotter estimated gusts to 60 MPH along Route 1.
Wayne County									
Golden Gate	09	1500CST			0	0	3K		Thunderstorm Wind (G52)
									Several trees were uprooted, and tree branches were blown off. The storm was accompanied by small hail.
Wayne County									
Enterprise	13	1725CST 2030CST			0	0			Urban/Sml Stream Fld
Edwards County									
Countywide	13	1735CST 2045CST			0	0			Urban/Sml Stream Fld
Wabash County									
Countywide	13	1735CST 2045CST			0	0			Urban/Sml Stream Fld
									Slow-moving thunderstorms produced very heavy rainfall rates, estimated up to 3 inches in 3 hours over Wayne County near Enterprise. A secondary road near Enterprise was barricaded shut due to flooding.
White County									
2 NE Carmi	28	1700CST 1900CST			0	0			Urban/Sml Stream Fld
									Thunderstorms produced very heavy rain that resulted in flooding of some roads and highways. High water closed off one lane of Illinois Route 1 between Crossville and Carmi. Officials directed one-way traffic through the flooded area until waters receded.
ILLINOIS, Southwest									
Montgomery									
5.5 W Raymond to 6 E Farmersville	01	1758CST 1813CST	10	200	1	4			Tornado (F3)
									A tornado first formed about 1 mile southwest of I-55 west of Raymond. The tornado moved northeast hitting a rest area along I-55. Six tractor-trailer trucks were overturned at the rest area, killing one driver and injuring 4 others. Two other trucks were also overturned just north of the rest area. The tornado continued northeast and intensified causing damage at two farms. Numerous barns and other outbuildings were destroyed and one house severely damaged. The occupant of the house escape injury by taking shelter in

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
an interior closet. The tornado then travelled over open farmland dissipating near the Christian County line. M54VE									
Macoupin County									
Bunker Hill	01	1845CST			0	0			Thunderstorm Wind (G60)
									Amateur radio spotters reported that 60-70 mph wind gusts downed some trees in the Bunker Hill area.
Madison County									
Alton	01	1845CST			0	0			Thunderstorm Wind (G50)
									Amateur radio spotters reported some trees down from thunderstorm wind gusts.
Macoupin County									
5 SSE Carlinville to 5.5 SE Carlinville	01	1855CST	0.5	50	0	0			Tornado (F1)
									A short-lived tornado blew 4 railcars off the tracks at a coal facility. About half a dozen trees were also downed in the area.
Madison County									
Godfrey	01	1900CST			0	0			Thunderstorm Wind (G50)
									Storm spotters reported trees and power lines down from thunderstorm wind gusts.
Fayette County									
1.5 SSE Brownstown to 5 NE St Elmo	01	1903CST 1918CST	10	150	0	0			Tornado (F2)
									A tornado produced a 10 mile intermittent damage path across Fayette County in the St. Elmo area. The tornado first formed southeast of Brownstown damaging 2 large machine sheds. The tornado crossed Route 170 knocking over a tractor-trailer. About 2 miles southwest of St. Elmo it destroyed several green houses. About 1 mile southwest of St. Elmo a large warehouse was destroyed. Several large steel beams supporting the warehouse were severely twisted. Also in this area, a 300 foot radio tower was destroyed, a mobile home and 3 homes were destroyed. The tornado weakened as it moved northeast of St. Elmo damaging a few outbuildings and downing trees.
Fayette County									
Ramsey	01	1952CST			0	0			Thunderstorm Wind (G50)
									Trained spotters reported trees down by thunderstorm wind gusts.
Brown County									
Mt Sterling	04	1537CST			0	0			Thunderstorm Wind (G54)
									The county Sheriff reported trees down from thunderstorm wind gusts.
Adams County									
Camp Pt	04	1550CST			0	0			Hail (1.00)
									Storm spotters reported 1 inch hail.
Pike County									
Chambersburg	04	1625CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed trees blocking Highway 104.
Greene County									
Roodhouse	04	1634CST			0	0			Thunderstorm Wind (G55)
									The county Sheriff reported trees and power lines down by thunderstorm winds.
Macoupin County									
Bunker Hill	04	1710CST			0	0			Hail (1.00)
									Storm spotters reported 1 inch hail.
Calhoun County									
Kampsville	04	1730CST			0	0			Thunderstorm Wind (G55)
									Large trees were reported blown down by thunderstorm winds.
Madison County									
Godfrey	04	1735CST			0	0			Thunderstorm Wind (G55)
Madison County									
Edwardsville	04	1740CST			0	0			Thunderstorm Wind (G55)
									Storm spotters reported trees and numerous power lines down from thunderstorm winds.
Bond County									
Greenville	04	1740CST			0	0			Thunderstorm Wind (G55)
Bond County									
Mulberry Grove	04	1745CST			0	0			Hail (1.00)
									Thunderstorm wind gusts downed a number of trees in Greenville. 1 inch hail was reported in Mulberry Grove.
Fayette County									
St Elmo	04	1745CST			0	0			Thunderstorm Wind (G55)
									Storm spotters reported trees and power lines down.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
Macoupin County									
Bunker Hill	04	1746CST			0	0			Hail (1.75)
			Storm spotters reported golfball size hail.						
Fayette County									
St Peter	04	1750CST			0	0			Thunderstorm Wind (G55)
Fayette County									
Vandalia	04	1750CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts blew the windows out of a restaurant in Vandalia. Trees and power lines were downed in St. Peter.						
Marion County									
Salem	04	1815CST			0	0			Hail (1.00)
Marion County									
Salem	04	1815CST			0	0			Thunderstorm Wind (G55)
Marion County									
Kinmundy	04	1817CST			0	0			Thunderstorm Wind (G55)
			The county sheriff reported trees and power lines down in Kinmundy. Storm spotters reported 1 inch hail in Salem along with scattered tree and power line damage.						
Clinton County									
Carlyle	04	1815CST			0	0			Thunderstorm Wind (G55)
Clinton County									
Trenton	04	1815CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts downed trees and power lines.						
Marion County									
Centralia	04	1830CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm winds downed power lines across town.						
St. Clair County									
Fairview Hgts	04	1840CST			0	0			Hail (0.75)
			Storm spotters reported 3/4 inch hail.						
Washington									
2 W Lively Grove	08	1240CST			0	0			Hail (0.75)
			3/4 inch hail was reported near Lively Grove.						
St. Clair County									
Cahokia	08	1403CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts downed some large trees and damaged the roof of a building.						
Marion County									
Salem	08	1440CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts uprooted 4 trees and downed 2 power poles.						
Adams County									
Quincy	10	1335CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts downed several trees in and around Quincy.						
Calhoun County									
Batchtown	11	1105CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds downed trees around Batchtown.						
Pike County									
Pittsfield	11	1245CST			0	0			Thunderstorm Wind (G52)
			Several trees were reported down by thunderstorm wind gusts.						
Fayette County									
Vandalia	11	1340CST			0	0			Thunderstorm Wind (G56)
Fayette County									
Ramsey	11	1342CST			0	0			Thunderstorm Wind (G56)
			Thunderstorm wind gusts downed trees along Highway 51 from Vandalia through Ramsey.						
St. Clair County									
4 N Belleville	11	1502CST			0	0			Hail (0.75)
			The County Sheriff reported 3/4 inch hail covering the ground north of Belleville.						
St. Clair County									
Belleville	11	1505CST			0	0			Thunderstorm Wind (G56)
St. Clair County									
Fairview Hgts	11	1505CST			0	0	100K		Thunderstorm Wind (G56)
			Thunderstorm wind gusts blew a large sign off the roof of a mall. Pieces of the sign blew onto the parking lot damaging at least 20						

Storm Data and Unusual Weather Phenomena

June 1999

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

ILLINOIS, Southwest

cars. Trees and power lines were downed in the Belleville area.

Jersey County

5 E New Delhi

11 1718CST 0 0 Hail (0.75)

Storm spotters reported 3/4 inch hail 2 miles west of Brighton, in southeast Jersey County.

Macoupin County

South Portion

13 0200CST
0530CST 0 0 Flash Flood

Madison County

East Portion

13 0200CST
0530CST 0 0 Flash Flood

Heavy early morning rain caused localized flash flooding. In Macoupin County, several county roads had to be closed because of high water. In Alton, in Madison County, several streets and underpasses became impassable.

Marion County

Central Portion

13 1515CST
1700CST 0 0 Flash Flood

Heavy rain caused localized flash flooding, mainly across east and south portions of Salem. Several roads had to be closed for a short time due to rapid runoff of water.

INDIANA, Central

Vigo County

5 SW Terre Haute
to
Terre Haute

01 2217EST
2230EST 0 0 Thunderstorm Wind (G52)

Sullivan County

Sullivan

01 2230EST
2232EST 0 0 Thunderstorm Wind (G50)

Clay County

Brazil

01 2236EST
2238EST 0 0 Thunderstorm Wind (G50)

Fountain County

Kingman

01 2239EST
2241EST 0 0 Thunderstorm Wind (G55)

Marion County

(Ind)Indnpls Intl Ar

01 2245EST
2247EST 0 0 Thunderstorm Wind (G58)

Parke County

Jessups

01 2245EST
2247EST 0 0 Thunderstorm Wind (G50)

Knox County

3 S Oaktown to
Oaktown

01 2250EST
2301EST 0 0 30K Thunderstorm Wind (G56)

Montgomery

Crawfordsville

01 2300EST
2302EST 0 0 Thunderstorm Wind (G55)

Putnam County

Greencastle

01 2300EST
2302EST 0 0 Thunderstorm Wind (G55)

Owen County

Carp

01 2328EST
2330EST 0 0 10K Thunderstorm Wind (G55)

Morgan County

Monrovia

02 0015EST
0017EST 0 0 Hail (0.75)

A line of severe thunderstorms moved across central Indiana producing wind gusts to 68 mph. Numerous trees were down, while a tree fell on a mobile home in Oaktown. Barns were also destroyed in Oaktown and Carp.

INZ053

Owen

02 0700EST
2300EST 0 0 Flood

Heavy rain allowed minor flooding along Mill Creek. The crest at Cataract was 14.10 feet (flood stage is 10 feet) on June 2.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Central									
INZ060									
		Sullivan							
	03	0700EST 2100EST			0	0			Flood
			Heavy rain allowed minor flooding along the Wabash River at Riverton. A few low rural roads were water covered. The crest was 15.20 feet (flood stage is 15 feet).						
INZ061-067>068									
		Greene - Knox - Daviess							
	03 05	0700EST 0500EST			0	0			Flood
			Heavy rain allowed for minor flooding along the White River. A few low rural roads were water covered. The crest was 19.46 feet (flood stage is 18 feet) at Worthington, 19.0 feet (flood stage is 18 feet) at Ellisten, 13.20 feet (flood stage is 13 feet) at Newberry and 15.30 feet (flood stage is 15 feet) at Edwardsport.						
Sullivan County									
Fairbanks to Sullivan	04	1950EST 2000EST			0	0			Thunderstorm Wind (G50)
Knox County									
5 N Vincennes to Oaktown	04	1955EST 2003EST			0	0			Thunderstorm Wind (G55)
Daviess County									
Washington	04	2035EST 2037EST			0	0			Thunderstorm Wind (G50)
Knox County									
2 E Wheatland	04	2037EST 2039EST			0	0			Thunderstorm Wind (G50)
Greene County									
4 S Bloomfield	04	2042EST 2044EST			0	0			Hail (1.00)
Martin County									
2 S Loogootee	04	2057EST 2059EST			0	0			Thunderstorm Wind (G50)
Greene County									
Bloomfield	04	2111EST 2113EST			0	0			Thunderstorm Wind (G50)
			A line of severe thunderstorms moved across southwestern parts of the IND CWA downing numerous trees along the way. 1 inch hail was also reported at Bloomfield.						
Morgan County									
Wilbur	06	1635EST 1637EST			0	0			Thunderstorm Wind (G50)
Martin County									
3 E Loogootee	06	1900EST 1902EST			0	0			Thunderstorm Wind (G50)
			Separate severe thunderstorms produced down trees across central Indiana.						
Sullivan County									
1 E Graysville	09	1430EST 1432EST			0	0			Thunderstorm Wind (G50)
Vigo County									
North Terre Haute	09	1535EST 1537EST			0	0			Thunderstorm Wind (G50)
Morgan County									
Martinsville	09	1606EST 1611EST			0	0			Thunderstorm Wind (G50)
Hamilton County									
2 S Carmel to 2 N Carmel	09	1735EST 1747EST			0	0			Hail (0.75)
Marion County									
Ravenswood to 2 N Ravenswood	09	1738EST 1747EST			0	0			Hail (1.00)
Johnson County									
Greenwood	09	1745EST 1747EST			0	0	200K		Thunderstorm Wind (G55)
			Scattered severe thunderstorms produced hail up to quarter size and wind gusts to 65 mph. There was significant damage to a couple of homes under construction in Greenwood.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>INDIANA, Central</u>									
Greene County									
4 W Linton	11	1207EST 1209EST			0	0			Thunderstorm Wind (G50)
Clay County									
Brazil	11	1244EST 1246EST			0	0			Thunderstorm Wind (G50)
Parke County									
8 NE Rockville	11	1325EST 1327EST			0	0			Thunderstorm Wind (G50)
Montgomery									
Crawfordsville to Linden	11	1327EST 1341EST			0	0			Thunderstorm Wind (G50)
Tippecanoe									
Lafayette	11	1405EST 1407EST			0	0			Thunderstorm Wind (G50)
Tippecanoe									
2 SW Buck Creek	11	1415EST 1417EST			0	0			Hail (1.00)
Marion County									
5 N (Ind)Indnpls Intl Ar	11	1433EST 1435EST			0	0			Hail (1.00)
Hamilton County									
Carmel	11	1450EST 1452EST			0	0			Thunderstorm Wind (G50)
A cluster of severe thunderstorms downed numerous trees and power lines across western parts of the IND CWA. Also, there was isolated reports of hail up to 1 inch in size.									
Carroll County									
Flora	12	1712EST 1715EST			0	0			Hail (0.75)
Johnson County									
Franklin	12	1759EST 1801EST			0	0			Hail (0.88)
Shelby County									
Shelbyville	12	1856EST 1945EST			0	0			Urban/Sml Stream Fld
Johnson County									
Franklin	12	1915EST 2000EST			0	0			Urban/Sml Stream Fld
A few slow moving thunderstorms produced hail slightly above severe limits at Franklin and Flora and local street flooding at Franklin and Shelbyville.									
<u>INDIANA, Northeast</u>									
White County									
5 E Wolcott	01	1035EST			0	0	0		Thunderstorm Wind
Numerous trees and power lines were downed.									
Starke County									
Bass Lake	01	1045EST			0	0	0		Thunderstorm Wind
Several trees were blown down.									
Pulaski County									
Denham	01	1050EST			0	0	0		Thunderstorm Wind
Several trees were downed north of town.									
Pulaski County									
Lakeside	01	1052EST			0	0	0		Thunderstorm Wind
Trees were reported blown down.									
White County									
Brookston	01	1102EST			0	0	0		Thunderstorm Wind
Trees were reported blown down.									
Fulton County									
5 N Kewanna	01	1115EST			0	0	0		Thunderstorm Wind
Sheriff reported trees and power lines down in the western part of the county									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Northeast									
White County 5 E Wolcott	01	2235EST			0	0	10K		Thunderstorm Wind
			Numerous trees and power lines blown down.						
Starke County Bass Lake	01	2245EST			0	0	0		Thunderstorm Wind
			Several trees were blown down.						
Pulaski County Denham	01	2250EST			0	0	0		Thunderstorm Wind
			Several trees down.						
Pulaski County Lakeside	01	2252EST			0	0	0		Thunderstorm Wind
			Several trees down.						
White County Brookston	01	2302EST			0	0	0		Thunderstorm Wind
			Several trees down.						
Fulton County 5 N Kewanna	01	2315EST			0	0	10K		Thunderstorm Wind
			Several trees and power lines were blown down across the western part of the county.						
Kosciusko County Milford	01	2350EST			0	0	50K		Thunderstorm Wind
			13 large trees were blown down in town. A metal roof was torn off a machine and tool shop. A pickup truck was damaged when a large tree was toppled onto it.						
Pulaski County 2 SW Lakeside	09	1710EST			0	0			Hail (0.75)
White County 3 NW Buffalo to 3 NW White Co Arpt	09	1710EST			0	0			Hail (0.75)
Blackford County 3 W Hartford City	09	1815EST			0	0	0		Thunderstorm Wind
			Several large branches and trees were blown down.						
Blackford County 5 SW Hartford City	09	1830EST			0	0			Hail (0.88)
Blackford County 3 W Hartford City	09	1830EST			0	0	0		Thunderstorm Wind
			Numerous trees and power lines were blown down along State Road 26.						
Grant County 4 NE Matthews	09	1832EST			0	0			Hail (0.75)
Grant County 4 NE Matthews to 4 E Matthews	09	1832EST			0	0	0		Thunderstorm Wind
			Trees downed.						
Grant County Gas City	09	1835EST			0	0			Hail (0.75)
Wabash INZ024	09	1920EST			0	0	0		Flood
			Streets flooded in Wabash up to 1 foot deep.						
Wabash County Somerset to Wabash	09	1920EST			0	0	25K		Thunderstorm Wind
			Numerous trees and power lines were downed across the southern part of the county.						
White County Brookston	11	1430EST			0	0	5K		Thunderstorm Wind
			Trees and powerlines down in Brookston reported by spotters.						
White County Monticello	11	1450EST			0	0	5K		Thunderstorm Wind
			Trees and powerlines down in Monticello reported by county sheriff department.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>INDIANA, Northeast</u>									
Noble County									
Rome City	12	1820EST			0	0	2K		Thunderstorm Wind
		Trees down reported by Noble County sheriff's office.							
Wabash County									
North Manchester	12	1840EST			0	0	2K		Thunderstorm Wind
		Trees reported down in North Manchester.							
Starke County									
2 WNW Hamlet	12	2003EST			0	0	2K		Thunderstorm Wind
		Amateur radio SKYWARN spotter reported trees down.							
Marshall County									
5 SW Plymouth	12	2030EST			0	0	2K		Thunderstorm Wind
		Trees down reported by Indiana state police.							
<u>INDIANA, Northwest</u>									
Jasper County									
Rensselaer	11	1355CST			0	0			Thunderstorm Wind (G61)
		70 mph winds were reported in Rensselaer.							
<u>INDIANA, South Central</u>									
Jefferson County									
Madison	12	1630EST 1645EST			0	0			Thunderstorm Wind (G50)
		Numerous trees and power lines down							
Crawford County									
Mifflin	28	1405EST 1420EST			0	0			Flash Flood
		A county road was washed away							
Dubois County									
Countywide	28	1405EST 1420EST			0	0			Flash Flood
		Numerous roads under water							
Crawford County									
Taswell	28	1440EST 1500EST			0	0			Flash Flood
		A bridge washed out near Highway 37							
Harrison County									
Corydon to Elizabeth	28	1510EST 1525EST			0	0			Flash Flood
		High water was reported across the area							
Harrison County									
Lanesville	28	1525EST			0	0			Thunderstorm Wind (G50)
		Trees down							
<u>INDIANA, Southeast</u>									
Dearborn County									
Dillsboro	09	1300EST 1310EST			0	0	3K		Thunderstorm Wind (G50)
		A severe thunderstorm produced winds that knocked down several trees.							
Wayne County									
Hagerstown	09	1700EST 1710EST			0	0	3K		Thunderstorm Wind (G50)
		A severe thunderstorm produced winds that knocked down several trees.							
Wayne County									
Richmond	09	1810EST 1900EST			0	0	5K		Flood
		Standing water was reported in the city of Richmond. Flooded roads were also closed.							
Franklin County									
New Trenton	10	2300EST 2313EST			0	0	3K		Thunderstorm Wind (G50)
		Numerous trees were reported knocked down, several of them mature.							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Southeast									
Dearborn County									
Countywide	11	0030EST 0045EST			0	0	4K		Thunderstorm Wind (G50)
			Several trees were downed across the county.						
Ohio County									
Rising Sun	12	1655EST 1700EST			0	0	2K		Thunderstorm Wind (G50)
			Trees were knocked down across the county.						
Ripley County									
Osgood	12	1712EST 1715EST			0	0	20K		Thunderstorm Wind (G60)
			Brief, strong winds caused minor damage to several buildings and major damage to the Indiana State Highway testing lab office.						
Dearborn County									
Countywide	12	1750EST 1800EST			0	0	3K		Thunderstorm Wind (G50)
			Several trees were downed across the county.						
Switzerland									
East Enterprise	13	2015EST 2020EST			0	0	2K		Thunderstorm Wind (G50)
			Two trees were knocked down.						
INDIANA, Southwest									
Posey County									
Wadesville	01	2332CST			0	0	3K		Hail (0.75)
			Gusty winds with the storm also downed a tree across a road near Griffin.						
Gibson County									
1 W Princeton to Princeton	04	1908CST 1918CST			0	0			Hail (1.75)
			Nickel size hail fell at U.S. Highway 41 and State Route 64, which is just west of Princeton. Hail up to the size of golf balls was observed by spotters a couple miles south of Princeton.						
Gibson County									
Princeton to Francisco	04	1909CST 1910CST			0	0	25K		Thunderstorm Wind (G61)
			Winds gusting to 70 MPH downed numerous trees and power lines. A mobile home was destroyed by a falling tree in Francisco. Cleaning up tree limbs blocking county roads took road crews 3 days. Downed trees caused damage to vehicles.						
Pike County									
Winslow to 2 S Petersburg	04	1925CST 1936CST			0	0	3K		Thunderstorm Wind (G52)
			Trees were blown down. One tree near Winslow took down some power lines.						
Posey County									
Poseyville	04	1926CST			0	0	3K		Thunderstorm Wind (G52)
			Several trees were down.						
Vanderburgh									
Darmstadt to Evansville	04	1930CST 1940CST			0	0	3K		Thunderstorm Wind (G60)
			Power lines were down at Darmstadt. Gusts from 60 to 70 MPH were reported just north of Roberts Stadium in Evansville.						
Gibson County									
Mackey	04	1930CST			0	0	5K		Thunderstorm Wind
			Several power poles were down near State Routes 57 and 168.						
Warrick County									
Newburgh	04	1940CST			0	0	5K		Thunderstorm Wind (G50)
			Numerous trees were down at the Alcoa Plant near Newburgh.						
Vanderburgh									
4 W Evansville	04	1945CST			0	0			Hail (0.75)
Spencer County									
Rockport	04	2000CST			0	0	3K		Thunderstorm Wind (G50)
			A couple of trees were down.						
Vanderburgh									
4 SE Evansville	04	2008CST			0	0	3K		Thunderstorm Wind (G50)
			Numerous power lines were down.						

Storm Data and Unusual Weather Phenomena

June 1999

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

INDIANA, Southwest

Warrick County

2 W Newburgh **06 1452CST** **0 0 50K** **Thunderstorm Wind**
The roof was torn off a 50 by 100 foot metal pole building at the Alcoa Plant.

Warrick County

Boonville **06 1540CST** **0 0 3K** **Thunderstorm Wind (G52)**
Trees were down.

Warrick County

Chandler **06 1600CST** **0 0 5K** **Thunderstorm Wind (G52)**
Trees were down.

Vanderburgh

Stacer **06 1620CST** **0 0** **Thunderstorm Wind (G53)**
A thunderstorm wind gust was measured between 60 and 65 MPH near the Gibson County line.

Gibson County

Warrenton **06 1620CST** **0 0** **Thunderstorm Wind (G52)**
A trained storm spotter estimated a gust near 60 MPH.

Warrick County

Stevenson **06 1635CST** **0 0** **Urban/Sml Stream Fld**
1730CST
Thunderstorms produced very heavy rain, sufficient to flood a portion of Highway 62.

Vanderburgh

North Portion **06 1650CST** **0 0** **Flash Flood**
1830CST

Thunderstorms produced very heavy rainfall. Radar estimated up to 1.5 inches per hour, with storm totals approaching 3 inches.

Vanderburgh

Evansville **24 2030CST** **0 0** **Urban/Sml Stream Fld**
2145CST

Thunderstorms produced very heavy rain, estimated by radar up to 2 inches in 2 hours. State police reported water partially over Highways 62 and 65.

Gibson County

Princeton to **26 1715CST** **0 0** **Flash Flood**
5 S Princeton **1845CST**

Thunderstorms produced very heavy rain. Emergency managers reported water over several roads.

Vanderburgh

Countywide **28 1130CST** **0 0** **Flash Flood**
1330CST

More thunderstorms with heavy rain moved over ground that was saturated by flooding rains in previous days. Rapidly rising water briefly covered parts of the U.S. Highway 41 interchange with Interstate 64. Average rainfall between 1 and 2 inches was enough to overload drainage systems on some Evansville city streets.

Gibson County

South Portion **28 1145CST** **0 0** **Flash Flood**
1330CST

IOWA, Central

Calhoun County

2.5 E Rockwell City **01 1555CST** **0.1 20 0 0** **Tornado (F0)**
Brief spinup landspout

Butler County

Parkersburg **01 1700CST** **0 0 5K** **Urban/Sml Stream Fld**

A frontal system stalled to the south of Iowa during the night of the 1st and began to lift north as a warm front during the day on the 2nd. At the same time an upper low moved northeast into the state. A surface low also formed under the upper low and moved along the front. Initial convection kicked off south of the surface low in the warm sector as a dry line punched east under the low. The storms that formed remained below severe levels, but did produce heavy rain and pea to marble size hail. As the upper low advanced east, a comma precipitation pattern formed. The head of the comma was over Butler County as heavy thunderstorms moved into the county and then stopped. As the vorticity maximum moved through the area, the storms began to sag slowly south and weaken. In the process, upwards of 2 to 3.1 inches of rain fell over much of Butler County. This caused urban flooding problems, but not too serious. Water was reported over some roads for a while, but the water receded once the rain tapered off. Meanwhile, over western Iowa, small thunderstorms formed in what would be the deformation zone under the cold pool aloft. The storms were popcorn variety and lasted for 15 minutes or less. A few of the storms produced cold air funnels. One storm in Calhoun

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
County produced a brief spin up tornado. The tornado did not do any damage and would better be described as a landspout rather than a tornado.									
Carroll County									
Halbur	04	0822CST			0	0	5K		Hail (0.75)
Carroll County									
6 NE Manning	04	0828CST			0	0	5K		Hail (0.75)
Carroll County									
Templeton	04	0837CST			0	0	5K		Hail (0.75)
Story County									
Ames	04	1030CST			0	0	100K		Lightning
Marshall County									
Marshalltown	04	1045CST			0	0	1K	5K	Hail (0.88)
Madison County									
Winterset	04	1048CST 1055CST			0	0	10K		Thunderstorm Wind (G50)
Madison County									
Patterson	04	1100CST			0	0	1K		Thunderstorm Wind (G50)
Madison County									
Patterson	04	1100CST			0	0	2K		Thunderstorm Wind (G52)
Polk County									
Johnston	04	1105CST			0	0	10K		Lightning
Warren County									
10 W Indianola	04	1111CST			0	0	5K		Hail (0.75)
Clarke County									
7 NW Osceola	04	1115CST			0	0	1K		Thunderstorm Wind (G52)
Madison County									
St Charles	04	1116CST			0	0	5K		Thunderstorm Wind (G56)
Warren County									
10 W Indianola	04	1116CST			0	0	1K	5K	Hail (1.00)
Warren County									
3 S St Marys	04	1119CST			0	0	15K		Thunderstorm Wind (G65)
Warren County									
New Virginia	04	1121CST			0	0	2K	5K	Hail (1.00)
Warren County									
New Virginia	04	1121CST			0	0	2K		Thunderstorm Wind (G52)
Warren County									
Lacona	04	1125CST			0	0	10K	5K	Hail (1.75)
Warren County									
6 SW Indianola	04	1127CST			0	0	5K	5K	Hail (1.75)
Warren County									
5 S Indianola	04	1130CST			0	0	5K	5K	Hail (1.75)
Warren County									
Indianola	04	1133CST			0	0	1K	3K	Hail (0.88)
Marion County									
3 S Pella	04	1158CST			0	0	1K		Thunderstorm Wind (G52)
Lucas County									
5 NW Chariton	04	1205CST			0	0	1K	5K	Hail (0.88)
Lucas County									
5 NW Chariton	04	1205CST			0	0	1K		Thunderstorm Wind (G52)
Lucas County									
Chariton	04	1220CST			0	0	25K	5K	Hail (2.00)
Lucas County									
9 E Chariton	04	1220CST			0	0	5K		Hail (0.75)
Lucas County									
6 E Chariton	04	1224CST			0	0	5K	5K	Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Lucas County									
6 E Chariton	04	1225CST			0	0		2K	Hail (0.75)
Monroe County									
Melrose	04	1235CST			0	0	2K		Thunderstorm Wind (G52)
Wapello County									
Ottumwa Arpt	04	1238CST			0	0			Thunderstorm Wind (G50)
Lucas County									
6 E Chariton	04	1240CST			0	0		5K	Hail (0.75)
Davis County									
5 SW Bloomfield	04	1330CST			0	0		5K	Hail (0.75)
Davis County									
Belknap	04	1335CST			0	0	5K		Thunderstorm Wind (G52)
Davis County									
Stiles	04	1335CST			0	0	1K	5K	Hail (0.75)
<p>A strong southerly flow of air developed over Iowa during the predawn hours setting the stage for the development of a mesoscale convective complex. A warm front was positioned to the southwest of Iowa. To the south of the front, surface dew point temperatures were in the low to mid 70s. To the north they remained around 60 degrees F. A low level jet stream formed with wind speeds in excess of 50 kts. Initially, thunderstorms fired over central Nebraska. After midnight, convection began to fire in a band from northwest into central Iowa. This convection remained below severe levels however. Meanwhile, the convection over Nebraska formed into a full blown mesoscale convective complex and moved into eastern South Dakota and northwest Iowa. After sunrise, the system did not die out as is usually the case. Instead it turned southeast and headed into Iowa. By mid morning, a beta bow element started to slide southeast across the state. The main weather features associated with the bow echo was winds and hail. As the system continued southeast across the state, it took on more characteristics of a derecho, and indeed turned southward and was over southern Alabama by the following morning. Reports of winds of 60 MPH or higher were numerous with the passage of the bow echo. Fortunately, most of the damage was limited to tree and power line damage. At least one home was damaged by high winds in Warren County, west of St. Marys. Reports of hail were also numerous with many reports of one inch up to golf ball size diameter hail. Lucas County was hard hit with hail of one and one half to two inches in diameter. In the town of Chariton, two inch diameter hail nearly covered the ground. The area of storms continued southeast and produced 58 MPH winds in Ottumwa, and 60 MPH winds in northern Davis County. The town of Stiles in Davis County received three quarter inch diameter hail as well. As the storms moved through central Iowa, lightning caused at least two fires. Lightning struck an apartment complex containing six units in Ames, setting it on fire. No injuries were reported, however extensive damage occurred to the complex. In Johnston, lightning struck a home and caused a fire in the attic. Damage there was limited to about \$10,000.</p>									
Palo Alto County									
8 NNE Emmetsburg	05	1810CST			0	0		5K	Hail (0.88)
Palo Alto County									
11 NNE Cylinder	05	1820CST			0	0		5K	Hail (0.75)
Winnebago									
Buffalo Center	05	1950CST			0	0	5K		Thunderstorm Wind (G56)
Wright County									
3 N Eagle Grove	05	2025CST			0	0	30K		Thunderstorm Wind (G65)
Worth County									
2 NE Northwood	05	2030CST			0	0	5K		Thunderstorm Wind (G61)
<p>The synoptic situation remained much the same as they were the previous night with the exception that the warm front was a little farther north than the previous night. A large mesoscale convective complex formed once again to the northwest of Iowa. The difference this time was that the entire system lifted northward into South Dakota and Minnesota. As a result, only the far northwest part of Iowa was affected by the severe weather. As the system brushed northwest Iowa, severe thunderstorms produced hail in Palo Alto County, though the hail was only slightly larger than severe criteria. The southeast edge of the complex brushed a small part of north central Iowa. Several trees were downed just to the northeast of Northwood by the high winds. A short time earlier, high winds moved through Winnebago County and caused damage in the Buffalo Center area. The outflow boundary moved south and blasted into Hancock County. A hog confinement building was destroyed by high winds north of Eagle Grove.</p>									
Audubon County									
Kimballton	06	1323CST			0	0	1K		Thunderstorm Wind (G52)
Pocahontas									
12 E Pocahontas	06	1400CST			0	0	10K	10K	Hail (1.50)
Calhoun County									
Manson	06	1415CST			0	0		5K	Hail (0.75)
Greene County									
Scranton	06	1422CST			0	0		3K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Webster County Gowrie	06	1431CST			0	0	10K		Thunderstorm Wind (G52)
Kossuth County Algona Muni Arpt	06	1435CST			0	0	10K	5K	Hail (1.50)
Kossuth County 5 N Algona	06	1438CST			0	0	10K	100K	Hail (1.00)
			Two to three mile wide swath of hail damage						
Webster County 2 S Otho to Otho	06	1440CST 1450CST	2	40	0	0	5K	1K	Tornado (F1)
Kossuth County Whittemore	06	1450CST			0	0	10K	5K	Hail (1.75)
Webster County Duncombe	06	1450CST			0	0	5K		Thunderstorm Wind (G56)
Kossuth County Bancroft	06	1453CST			0	0	20K	5K	Hail (1.75)
Wright County 10 S Clarion	06	1510CST	0.1	20	0	0			Tornado (F0)
Wright County Belmond	06	1519CST	0.1	20	0	0			Tornado (F0)
Hancock County 1 SE Garner	06	1527CST	0.1	20	0	0			Tornado (F0)
Franklin County 1 SE Dows to 5 W Hampton	06	1530CST 1541CST	11.5	40	0	0	10K	1K	Tornado (F1)
			Intermittent track						
Cerro Gordo 3 S Mason City	06	1546CST	0.1	20	0	0			Tornado (F0)
Cerro Gordo 5 NE Rockwell	06	1550CST			0	0	1K		Thunderstorm Wind (G52)
Hancock County .7 S Corwith	06	1630CST			0	1	25K		Thunderstorm Wind (G56)
Audubon County 1 W Audubon	06	1637CST			0	0	1K	5K	Hail (0.88)
Audubon County Audubon Arpt	06	1644CST			0	0	1K		Thunderstorm Wind (G52)
Calhoun County Rockwell City	06	1654CST			0	0	2K		Thunderstorm Wind (G53)
Wapello County Ottumwa	06	1730CST			0	0	25K		Thunderstorm Wind (G52)
Hamilton County 2 S Stratford	06	1754CST			0	0	25K		Thunderstorm Wind (G56)
Hamilton County 3 SW Kamrar	06	1805CST	0.2	25	0	0			Tornado (F0)
Story County 4 SW Story City to 3.3 SW Story City	06	1814CST 1815CST	0.7	30	0	0	2K		Tornado (F1)
Boone County Ogden	06	1815CST			0	0			Thunderstorm Wind (G50)
Hamilton County Randall	06	1815CST	0.1	20	0	0			Tornado (F0)
Hamilton County 2 N Kamrar	06	1817CST			0	0	10K		Thunderstorm Wind (G61)
Cerro Gordo 13 SW Mason City	06	1832CST			0	0	0.50K		Thunderstorm Wind (G52)
Cerro Gordo Thornton	06	1832CST			0	0	25K		Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Cerro Gordo									
Mason City	06	1840CST 1845CST			0	0	45K		Thunderstorm Wind (G61)
Worth County									
Manly	06	1852CST			0	0	3K		Thunderstorm Wind (G50)
<p>A cold front and dry line were approaching Iowa during the morning of the 6th. Overnight the preceding night, the dry line aloft moved into Iowa, however the dry line at the surface lagged behind by a few hundred miles. At sunrise, surface dew points were in the upper 60s to low 70s over western Iowa, while the dew point at 850 mb over Omaha had dropped to -8 degrees C. Little eastward progress occurred during the day as a strong upper level disturbance began to lift north from the Texas Panhandle. During the early afternoon skies cleared over western into central Iowa. Temperatures warmed into the upper 80s to low 90s, while at the same time temperatures in the mid levels cooled several degrees C. As a result, CAPE values were in excess of 4000 J/kg. By late afternoon, Iowa was in the rear entrance region of an upper level jet streak. Thunderstorms erupted as a result. Actually there were two short lines of convection. Both were oriented north-northeast to south-southwest and were moving northeast around 50 MPH. Severe weather developed rapidly and was mainly in the form of high winds and hail. There were several small tornadoes as well. Reports indicate that most of the tornadoes were brief spin-up tornadoes or gustnadoes. With the exception of two slightly stronger tornadoes, all of the tornadoes were very short lived F-0 tornadoes and produced little damage. A couple of the tornadoes did turn out to be a bit stronger. One in Webster County south of Otho was on the ground for a couple miles, while another was intermittently on the ground for over 10 miles in Franklin County. All of the tornadoes were over rural areas and consequently did little damage. Hail was very common with the storms as well. There were numerous reports of hail from three quarters inch up to golf ball size. One of the cells produced a two to three mile wide swath of one inch diameter hail across Kossuth County north of Algona, causing considerable crop damage. In addition to the hail, many locations reported winds of 60 to 70 MPH. High winds in Thornton lifted a steel grain bin and crushed it. In Hancock County, high winds from one of the storms blew a semi-tractortrailer over south of Corwith. The driver sustained minor injuries from broken glass. Winds were common since the storms were moving about 50 MPH themselves. Local law enforcement reported visibility reduced to under one half mile in blowing dust with several of the storms. Winds around 60 MPH swept through the Gowrie area in Webster County for example. Power was knocked out and many trees were toppled by the high winds. A barn was nearly destroyed near Stratford in Hamilton County.</p>									
Franklin County									
Ackley	08	1210CST			0	0	2K	5K	Hail (1.00)
Emmet County									
Armstrong	08	1228CST			0	0		2K	Hail (0.75)
Kossuth County									
3 NW Swea City	08	1245CST			0	0		3K	Hail (0.75)
Black Hawk									
Finchford	08	1315CST			0	0	2K	5K	Hail (1.00)
Bremer County									
3 SW Waverly	08	1329CST			0	0	1K	5K	Hail (0.88)
Kossuth County									
Lakota	08	1330CST			0	0		5K	Hail (0.75)
Winnebago									
5 W Lake Mills	08	1417CST			0	0		3K	Hail (0.75)
Winnebago									
Lake Mills	08	1424CST			0	0	10K		Thunderstorm Wind (G52)
Kossuth County									
10 NW Lu Verne	08	1630CST			0	0		5K	Hail (0.75)
Humboldt County									
3 SW Renwick	08	1659CST	0.1	25	0	0			Tornado (F0)
Wright County									
8 N Goldfield	08	1709CST	0.2	25	0	0			Tornado (F0)
Hancock County									
2 ESE Kanawha	08	1715CST			0	0		10K	Hail (0.75)
Hancock County									
2 ESE Kanawha	08	1715CST	0.2	25	0	0			Tornado (F0)
Wright County									
1 N Goldfield	08	1735CST			0	0		5K	Hail (0.75)
Black Hawk									
La Porte City	08 09	2000CST 0130CST			0	0	150K	25K	Flash Flood

Storm Data and Unusual Weather Phenomena

June 1999

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

IOWA, Central

Grundy County

Wellsburg	08 09	2000CST 0130CST			0	0	500K	50K	Flash Flood
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Marshall County

Marshalltown	08	2000CST			0	0	2K	3K	Hail (0.88)
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A strong upper level disturbance moved north-northeast into Iowa during the afternoon hours. A very unstable airmass was in place over the state with lifted indices near -10 degrees C. Surface dew points were in the low 70s as high temperatures soared into the upper 80s and 90s. This combined to produce CAPE values near 5000 J/kg. Thunderstorms erupted initially developed in more or less an east to west line. That line lifted north and as it did produced very heavy rain and some hail of three quarters of an inch to an inch in diameter. A second line formed in a more north to south orientation and moved east across the state. There were also some reports of dime size or larger hail from that line as well. Serious crop damage occurred in Hancock County southeast of Kanawha due to the hail. Crops needed to be replanted in the area. The main problem was with the intersection of the two lines. At the intersection of the two outflow boundaries from the lines a few brief tornadoes occurred. These were more like spin up tornadoes and were very short lived, causing no significant damage. One was in Wright County north of Goldfield, another Humboldt County southwest of Renwick, with yet another in Hancock County southeast of the Kanawha area. As the storms moved through the Lake Mills area in Winnebago County, high winds downed trees and caused vehicle damage. As the evening progressed, the upper level vorticity maximum was evident in the radar signature. The comma head of the precipitation passes over Black Hawk and Grundy Counties. Reports southeast of Waterloo indicated 3.76 inches of rainfall in a 90 minute period. Meanwhile, the area between Reinbeck and Wellsburg received in excess of 5 inches of rain in a 3 hour period. Normally, this amount of rain would not be all that serious, however soil conditions in that part of the state were very saturated resulting in significant runoff. Flash flooding occurred in the two counties. Numerous gravel roads were washed out over the northwest part of Butler County with widespread flooding reported between Reinbeck and Wellsburg.

IAZ004>007-

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

09 15	0600CST 0300CST				0	0	1.8M	2.7M	Flood
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The first two weeks of June saw a continuation of the pattern that persisted through much of May with heavy rains across most of the Des Moines HSA during the period. These rains were primarily due to meso scale forcing in the very humid airmass that persisted across the central Plains during the first half of the month. Heavy rainfall during the afternoon and evening of June 8 fell over northeast parts of the HSA as a very moist and unstable airmass combined with several weak outflow boundaries to generate widespread thunderstorms. Radar estimated rainfall of up to 6 inches was indicated over northwest Grundy County, and Flash Flood warnings were issued for Black Hawk and Grundy Counties. The highest rain gage report came from Steamboat Rock on the Iowa River with 2.65 inches. The heaviest rains fell in the Iowa and Cedar River basins, especially along the Beaver Creek. A Flood Warning was subsequently issued for the beaver Creek at New Hartford as the runoff from these storms entered the river, and Flood Statements were issued for several other forecast Points. The night of June 9 saw a repeat of the previous evenings convective activity, but fortunately centered over a different river basin. The heaviest rains were observed over Sac and Calhoun Counties in the extreme upper portions of the Raccoon River basin. Spotter reports from this area ranged from 2 to 3.5 inches, while radar indicated that up to 5 inches fell in some locations. Rains were still significant over parts of the Iowa and Cedar basins. Steamboat Rock on the Iowa River picked up an additional 2.12 inches to add to the 2.65 inches the night before. Williams in the northeast part of Hamilton County received 2.31 inches. An Urban/Small stream Flood Advisory was issued for the overnight activity in Sac, Calhoun, and Webster Counties. Convective rainfall was widespread across the HSA on the 10th for the third night in a row, with the heaviest amounts over the central and southern parts of the area. Two to 3 inches of rain fell over parts of the lower Des Moines River basin with 1 to 2 inches in the upper Skunk basin. Winterset, located in the North river basin, measured 1.95 inches and Story City in the Skunk basin, and Ames 3S exceeded flood stage by the evening of the 11th. Renewed convection developed over the counties south and east of Des Moines during the evening hours of the 11th, prompting the issuance of Urban and Small Stream Flood Advisories for several counties. Most of the rain barely missed the Raccoon River basin, where the river was already in flood due to rains on previous days. Rains continued to plague southern portions of the HSA late on the 12th and early on the 13th, as weak short waves, relatively strong jet stream dynamics, and relatively high moisture combined to generate slow moving thunderstorms. Again, the heaviest rain fell over basins which previous escaped heavy rains. This time the East Fork of the 102 river in Taylor County rose quickly to just below flood stage as a result of 2 to 4 inch rains and a Small Stream Advisory was also issued for Decatur County. For the most part, flooding was restricted to agricultural lands during this extended event. Crops were lost and some were able to be replanted. Scattered damage occurred along many of the states rivers, however most areas affected were areas that routinely receive high water, thus damage was limited.

Greene County

2 SW Grand Jct	09	1500CST			0	0	15K		Thunderstorm Wind (G56)
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Cass County

Atlantic	09	1507CST			0	0	15K		Thunderstorm Wind (G61)
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Cass County

1 N Atlantic	09	1509CST			0	0	250K	2K	Thunderstorm Wind (G94)
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Audubon County

Audubon	09	1515CST			0	0	2K		Thunderstorm Wind (G52)
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Cass County

9 NE Atlantic	09	1555CST			0	0	1K		Thunderstorm Wind (G52)
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Storm Data and Unusual Weather Phenomena

June 1999

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

IOWA, Central

Taylor County

New Market **09** **1627CST** **0** **0** **15K** **1K** **Thunderstorm Wind (G65)**

Dallas County

Perry **09** **1753CST** **0** **0** **3K** **Thunderstorm Wind (G52)**

Polk County

4 N Johnston **09** **1823CST** **0** **0** **1K** **Thunderstorm Wind (G53)**

Story County

Huxley **09** **1845CST** **0** **0** **3K** **Thunderstorm Wind (G53)**

The synoptic situation was very much like it was the previous day. A cold front had become nearly stationary from northern Minnesota into central Nebraska. An upper level disturbance lifted northeast into Iowa during the afternoon hours. The airmass was primed with dew point temperatures in the upper 60s to near 70 and surface temperatures in the upper 80s to low 90s. As a result, CAPE values were once again in excess of 5000 J/kg by mid afternoon. A line of thunderstorms formed over the west part of the state in a north to south line. Initially these storms were not severe. The southern end of the line was more broken up with several individual cells scattered along the line. The storms became pulse severe with one of the cells collapsing over Atlantic in Cass County. The microburst that resulted was recorded by a local radio station there at 108 MPH. Significant damage occurred over a 30 square block within the city with both structural damage as well as tree damage reported. Several homes sustained major structural damage. Another report indicated trees as large as three feet in diameter were toppled. After that storm dissipated, another cell formed northeast of Atlantic. This storm produced 60 MPH winds about 9 miles to the northeast of the city. Minor damage occurred in Audubon in Audubon County as 60 MPH winds blew into the city. Several farm buildings were damaged in Greene County as high winds struck southwest of Grand Junction. Yet another cell formed just west of Taylor County and moved into the area. This cell produced winds of 70 to 80 MPH as it moved into the New Market area. After a period of relatively quiet weather, the storms became stronger as they headed into central Iowa. High winds were recorded at 61 MPH at the NWS office in Johnston, with the winds causing tree damage across northern Polk County into the southern part of Story County. There were numerous reports of hail with the storms as they crossed the west two thirds of the state, though the hail size was generally around one half inch or less.

Madison County

2 S Winterset **10** **1005CST** **0** **0** **30K** **Thunderstorm Wind (G65)**

Warren County

Indianola **10** **1045CST** **0** **1** **10K** **Lightning**

Marion County

1 S Red Rock **10** **1105CST** **0** **0** **25K** **2K** **Thunderstorm Wind (G65)**

Polk County

Urbandale **10** **1120CST** **0** **0** **8K** **Lightning**

The synoptic weather situation remained much the same as it had been over the past few days with a very slow moving cold front oriented northeast to southwest across northwest Iowa. The front stalled during the late night hours. Another upper level disturbance lifted northeast in the southwest flow aloft that was in place over the central U.S. An area of thunderstorms developed to the southwest of Iowa and lifted northeast into the state. The storms took on a bow echo configuration as they lifted over south central and central Iowa. There were numerous reports of gusty winds and marble size hail, however most of the winds remained below severe levels. High winds were reported with the storms as they moved through Madison County, with 70 to 80 MPH winds reported south of Winterset. As the storms moved through the Red Rock Reservoir area, winds of 70 to 80 MPH caused tree damage in the area. The storms moved into central Iowa by mid day. They had weakened, but lightning from the storms struck a church in Urbandale causing a small fire in the buildings roof and attic. Damage was set between \$5,000 and \$10,000. Lightning struck a tree outside of a mobile home in Indianola. The tree crashed down onto the mobile home, smashing through the roof and wall and injuring one resident inside. She sustained only minor injuries.

Decatur County

Davis City **12** **1630CST**
1830CST **0** **0** **25K** **10K** **Flash Flood**

Thunderstorms once again erupted over already saturated ground across southern Iowa. Over Decatur County, two to three inches of rain fell during a 2 hour period causing flooding across the county with several roads under water.

Carroll County

Dedham **22** **2250CST** **0** **0** **5K** **Lightning**

Thunderstorms moved through Carroll County during the late evening hours. Lightning struck a tree outside of a house in Dedham. The bolt struck a tree, travelled under the driveway and punched three holes in the concrete, the largest about a foot in diameter. When it reached the garage it blew switches for the overhead door opener off the wall and shredded wires leading to the opener. The bolt also chipped the garage foundation. Inside the house the jolt blew the stereo and knocked out telephone service and blew out all the electrical circuit breakers in the house.

IAZ027-038-

Butler - Grundy - Carroll - Greene - Audubon - Guthrie - Dallas
23 **0200CST** **0** **0** **35K** **35K** **Flood**
24 **2300CST**

After a needed week of dry weather, moderate to heavy rains returned to parts of the HSA, mostly during the overnight hours of June 22 into the 23rd. The heaviest rains fell over the Raccoon and Des Moines river basins in west central and central Iowa. Guthrie

Storm Data and Unusual Weather Phenomena

June 1999

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

IOWA, Central

Center, in the Middle Raccoon watershed picked up a 24 hour total of 3.09 inches. Boon, along the Des Moines River received 2.86 inches. Response on the Raccoon was quite rapid, with the gage at Van Meter climbing from near 7 feet to 13.7 feet (flood stage is 13 feet) in about 18 hours by the afternoon of the 23rd. Damage from this flooding event was very minor as most rivers and streams did not exceed flood stage by very much. The flood waters were well within the normal flood plain.

Emmet County
9.5 E Estherville
Emmet County
Estherville

26 2021CST 0 0 1K 10K Hail (0.88)

26 2056CST 0 0 3K Hail (0.75)

A warm and fairly humid airmass was in place over Iowa. Surface temperatures warmed into the upper 80s to low 90s with dew point temperatures in the mid 60s to low 70s. A cold front was approaching the state from the northwest. Thunderstorms fired up along the northern portion of the front across Minnesota initially. Though the CAPE values over Iowa were near 5000 J/kg, thunderstorms were not able to fire initially due to a mid level cap. Storms back developed across central into south central Minnesota, then eventually developed south-southwest into Iowa. With the freezing level near 14,500 feet, it was difficult for the storms to produce hail. It took VIL values of 70 kg/m**2 to produce severe hail. The storms produced high winds and hail in Minnesota, but the winds in Iowa were below severe levels. Hail of three quarters inch to nearly one inch in diameter pelted Emmet County as the most intense storms moved across the county. In addition to the hail, the storms dropped one to two inches of rain as they passed. Local flooding was a problem, but it was not widespread.

IAZ023-033>035-

Pocahontas - Sac - Calhoun - Webster - Carroll - Greene - Audubon - Guthrie - Dallas

27 0600CST 0 0 45K 45K Flood
29 1500CST

The northwest sections of the HSA received heavy rains during the overnight hours of the 26th and early 27th. The rainfall, which developed along a slow moving cold front, was concentrated in the upper Des Moines River basin. Estherville, located in the upper reaches of the basin, picked up a 24 hours total of 2.04 inches. Rains in excess of an inch also fell over parts of the upper Raccoon basin, Perry for example received 1.54 inches. Additional significant rainfall on the 27th and 28th occurred along the same front over the west central and northeast parts of the HSA. Moderate rises were observed on a few rivers as a result of these rains, but only the North Raccoon near Jefferson briefly exceeded flood state. Damage from this event was once again quite minor as rivers only flooded areas that normally flood anyway. Statewide statistics for the month, provided by the Iowa State Climatologist, indicated that June of 1999 was wetter than normal, but not extremely so. With 5.27 inches of rain, it was the 46th wettest June in the past 127 years of Iowa weather records. The wettest areas were in the northwest and west central sections of the state. All agricultural districts had above normal rainfall except for the south central district, which was just slightly below normal. At 69.7 degrees, the state wide average temperatures were very close to normal for June, falling about one half degree below normal.

IOWA, East Central and Southeast

Jackson County

1 W Sabula 01 1545CST 0 0 Funnel Cloud

Jackson County

Miles 01 1600CST 0 0 Hail (0.75)

Buchanan County

Brandon 04 0730CST 0 0 Hail (0.75)

Muscatine County

4 E Muscatine 04 1319CST 0 0 Thunderstorm Wind (G58)

Scott County

2 S Eldridge 04 1336CST 0 0 Thunderstorm Wind (G58)

Muscatine County

Fruitland 04 1342CST 0 0 Hail (0.75)

Muscatine County

Muscatine 04 1342CST 0 0 Thunderstorm Wind (G53)

Louisa County

1 SE Wapello 04 1344CST 0 0 Funnel Cloud

Des Moines

Burlington 04 1410CST 0 0 Hail (0.75)
1430CST

Des Moines

Burlington 04 1415CST 0 0 Hail (0.88)

Lee County

Ft Madison 04 1428CST 0 0 Hail (0.75)

Lee County

Keokuk 04 1430CST 0 0 Thunderstorm Wind (G58)

High winds slowed the painting project on the Keokuk water tower. Scaffolding along the tower was bent.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, East Central and Southeast									
Scott County									
Davenport	04	1430CST			0	0	1K		Lightning
									Lightning caused a fire when it struck a house. The house sustained smoke damage. There were no reports of injuries.
Scott County									
Davenport	04	1437CST			0	0			Urban/Sml Stream Fld
									Heavy rain of 1 to 2 inches in an hour caused street flooding at the intersection of Division and Dover. High water also resulted in the closing of River Drive for a short time between East 3rd and 4th Street. Conditions improved shortly after the rains ceased.
Washington									
Brighton	06	1136CST			0	0			Thunderstorm Wind (G53)
Washington									
Washington	06	1150CST			0	0			Hail (2.75)
Muscatine County									
Muscatine	06	1159CST			0	0			Thunderstorm Wind (G52)
Johnson County									
Lone Tree	06	1210CST			0	0			Hail (1.75)
Louisa County									
Letts	06	1215CST			0	0			Thunderstorm Wind (G60)
									Numerous trees and power lines downed.
Muscatine County									
1 N Muscatine	06	1215CST			0	0			Hail (1.75)
									Wind-driven golfball sized hail damaged close to 350 acres of corn. Winds were estimated around 60 mph.
Muscatine County									
2 N Muscatine	06	1215CST			0	0	1.5K		Hail (1.75)
									Golfball sized hail knocked out 7 windows in a home. Winds downed three 40 foot walnut trees and an apple tree. A 12 foot by 60 foot storage trailer was also destroyed.
Muscatine County									
1 N Muscatine	06	1215CST			0	0	2.5K		Thunderstorm Wind (G52)
									Wind-driven golfball sized hail damaged close to 350 acres of corn. Winds were estimated around 60 mph.
Muscatine County									
2 N Muscatine	06	1215CST			0	0	1.5K		Thunderstorm Wind
									Golfball sized hail knocked out 7 windows in a home. Winds downed three 40 foot walnut trees and an apple tree. A 12 foot by 60 foot storage trailer was also destroyed.
Muscatine County									
West Liberty	06	1222CST			0	0			Hail (0.88)
Muscatine County									
2 W Muscatine	06	1225CST			0	0			Thunderstorm Wind (G63)
									Several trees, 4 to 5 inches in diameter, were downed by the strong winds.
Louisa County									
Wapello	06	1230CST			0	0			Thunderstorm Wind (G55)
									Numerous tree limbs downed.
Scott County									
1 SE Dixon	06	1240CST			0	0	10K		Thunderstorm Wind (G70)
									Winds in excess of 80 mph destroyed a barn. Several trees were uprooted and outbuildings suffered heavy damage. Two pickup trucks were also damaged.
Scott County									
2 S Dixon	06	1245CST			0	0	2K		Thunderstorm Wind (G70)
									Intense winds uprooted a 20 foot pine tree. Numerous tree limbs were downed and a basketball hoop attached to a garage came loose and smashed through the windshield of an automobile.
Scott County									
Davenport	06	1310CST			0	0			Hail (1.00)
Clinton County									
5 W Clinton	06	1315CST			0	0			Hail (1.00)
Scott County									
Blue Grass	06	1315CST			0	0			Hail (1.75)
Clinton County									
Dewitt	06	1345CST			0	0	7K		Thunderstorm Wind (G60)
									Damaging straight line winds near 70 mph downed numerous tree limbs throughout the town. A funeral home suffered damage to its roof when a tree landed on it. Two large umbrellas, valued at \$2,000 each, were destroyed at the Dewitt Aquatic Center.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, East Central and Southeast									
Lee County									
Ft Madison	06	1415CST			0	0			Thunderstorm Wind (G62)
			Several trees downed.						
Lee County									
Denmark	06	1430CST			0	0			Thunderstorm Wind (G62)
Buchanan County									
Independence	08	1351CST			0	0			Hail (0.75)
Jefferson County									
Fairfield	08	1352CST			0	0			Hail (0.75)
Buchanan County									
Lamont	08	1430CST			0	0			Hail (0.75)
Cedar County									
6 NW Tipton	08	1500CST			0	0	2K		Thunderstorm Wind (G61)
			Wind-driven pea-sized hail damaged some fields of corn and soybeans. The hail covered the ground making it look as if it had snowed. A machine shed was also destroyed by straight line winds estimated around 70 mph. The south side of a barn suffered damage while hail sheared the brome waterways so closely they appeared mown.						
Benton County									
.2 N Urbana	08	1638CST			0	0			Hail (1.50)
Buchanan County									
Monti	08	1700CST			0	0			Hail (0.75)
Dubuque County									
Epworth	08	1719CST			0	0			Urban/Sml Stream Fld
			Street flooding.						
Dubuque County									
Worthington	08	1719CST			0	0			Urban/Sml Stream Fld
			Torrential rain of 5 inches caused street flooding.						
Delaware County									
Manchester	08	1752CST			0	0			Flash Flood
			Heavy rain flooded several city roads.						
Dubuque County									
Farley	08	1753CST			0	0			Flash Flood
			Street flooding.						
Dubuque County									
Dubuque	08	1900CST			0	0			Flash Flood
			Very slow-moving thunderstorms dumped over 3 inches of rain over the city within 90 minutes. Cars were stranded when floodwaters cut off access to several roads.						
Keokuk County									
3 S Delta	10	1210CST			0	0			Hail (1.25)
Keokuk County									
Delta	10	1210CST			0	0			Thunderstorm Wind (G53)
			Several tree limbs downed.						
Benton County									
2 SE Garrison	10	1240CST			0	0			Thunderstorm Wind (G53)
			Large trees downed.						
Benton County									
4 S Van Horne	10	1240CST			0	0			Thunderstorm Wind (G53)
			Several tree limbs downed.						
Linn County									
3 E Cedar Rapids	10	1300CST	0.1	10	0	0			Tornado (F0)
			A brief tornado touchdown produced no reports of injuries or damage.						
Linn County									
5 N Cedar Rapids	10	1310CST			0	0			Thunderstorm Wind (G61)
Jones County									
Martelle	10	1316CST	0.1	10	0	0			Tornado (F0)
			A tornado touched down briefly causing no damage or injuries.						
Linn County									
Coggon	10	1317CST	0.1	10	0	0			Tornado (F0)
			A tornado touched down briefly causing no injuries or damage.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, East Central and Southeast									
Jones County									
Monticello	10	1323CST			0	0			Thunderstorm Wind (G53)
			Several trees downed.						
Jones County									
1 N Onslow	10	1323CST			0	0			Thunderstorm Wind (G55)
			Several power poles blown over.						
Johnson County									
Iowa City	10	1330CST			0	0			Urban/Sml Stream Fld
			Heavy rains flooded Route 218.						
Muscatine County									
Pleasant Prairie	10	1349CST			0	0			Thunderstorm Wind (G55)
			Power poles downed.						
Muscatine County									
1 E Montpelier	10	1356CST			0	0			Hail (0.75)
Scott County									
3 S Blue Grass to 3 E Blue Grass	10	1356CST			0	0			Thunderstorm Wind (G55)
			Several tree limbs and power poles downed.						
Scott County									
2 W Blue Grass	10	1442CST			0	0			Thunderstorm Wind (G55)
			Power lines downed.						
Scott County									
2 S Mc Causland	10	1446CST			0	0			Thunderstorm Wind (G53)
			Power lines downed.						
Des Moines									
Burlington Arpt	11	1531CST			0	0			Thunderstorm Wind (G53)
			61 mph wind gust measured by ASOS equipment at the airport.						
Cedar County									
West Branch	11	1752CST			0	0			Hail (0.75)
Linn County									
Cedar Rapids	11	1956CST			0	0			Urban/Sml Stream Fld
			Heavy rain resulted in the flooding of several streets.						
Benton County									
2 S Atkins	11	1959CST			0	0			Hail (0.75)
Linn County									
Hiawatha	11	2030CST			0	0			Urban/Sml Stream Fld
			Heavy rain of just over 2 inches in an hour flooded several streets. Cars were stranded in standing water on North Center Point Road and Robins Road.						
Iowa County									
2 E Marengo	11	2050CST			0	0			Flash Flood
			Slow moving thunderstorms dumped over 2 inches of rain. Several streets were covered in standing water of around a foot. Two cars were washed into a ditch by the flood waters.						
Iowa County									
3 NW Marengo	11	2050CST			0	0			Flash Flood
			Several roads were covered in standing water.						
Linn County									
Cedar Rapids	11	2102CST			0	0			Flash Flood
			Very heavy rain of just over 3 inches caused flooding of streets and parking lots throughout the city.						
Iowa County									
Marengo	11	2135CST			0	0			Flash Flood
			Slow moving thunderstorms brought torrential rains of 4 to 5 inches. Numerous roads were covered in standing water over a foot deep. Several cars were washed off roads.						
Henry County									
1 N Mt Pleasant	12	1203CST	0.1	10	0	0			Tornado (F0)
			A tornado touched down briefly causing no injuries or damage.						
Henry County									
Olds	12	1215CST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

June 1999

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

IOWA, East Central and Southeast

Linn County

Cedar Rapids 12 1811CST 0 0 **Urban/Sml Stream Fld**
Very heavy rains resulted in localized street flooding throughout the city.

Johnson County

North Liberty 12 1930CST 0 0 **Urban/Sml Stream Fld**
Thunderstorms dumped over 2 inches of rain resulting in localized flooding of city streets.

Scott County

2 E Parkview 12 2050CST 0 0 **Flash Flood**
Lake Huntington rose 1.5 feet in less than 2 hours.

Scott County

Parkview 12 2100CST 0 0 **Flash Flood**
Several roads flooded and impassable due to heavy rains of 2 to 3 inches.

Scott County

Davenport 12 2106CST 0 0 **Flash Flood**
2 to 3 inches of rain fell in 2 hours. Water a foot deep covered the intersection of Locust street and Highway 280 closing it for a short while.

IAZ098

Van Buren

13 1215CST 0 0 **Flood**
Just over 3 inches of rain in less than an hour caused the Big Indian Creek to rise out of it's bank.

Lee County

Argyle 13 1217CST 0 0 **Flash Flood**
Slow moving thunderstorms dropped over 3 inches of rain. Several city streets were covered with water and closed for a short time.

IOWA, Northeast

Floyd County

Rockford 06 1610CST 0 0 **25K Thunderstorm Wind (G51)**

Mitchell County

4 NE Osage 06 1630CST 0 0 **65K 35K Thunderstorm Wind (G56)**

Floyd County

Nora Spgs 06 1846CST 0 0 **50K 40K Thunderstorm Wind (G52)**

Mitchell County

Osage 06 1903CST 0 0 **70K 45K Thunderstorm Wind (G61)**

Mitchell County

St Ansgar 06 1930CST 0 0 **125K 55K Thunderstorm Wind (G61)**

Howard County

Chester 06 1935CST 0 0 **60K 45K Thunderstorm Wind (G58)**
Winds gusting up to 70 mph caused widespread damage with numerous trees and power lines downed.
In Osage and St Ansgar (Mitchell County), windows were blown out and grain bins collapsed.

IOWA, Northwest

Plymouth County

7 SW Craig 05 1615CST 0.1 50 0 0 **Tornado (F0)**
1616CST

A brief tornado caused minor damage. The amount of damage was unknown.

Plymouth County

9 NW Le Mars 05 1616CST 0 0 **Hail (1.75)**

Lyon County

2 E Larchwood 05 1630CST 0 0 **Hail (1.75)**

O'Brien County

Germantown 05 1635CST 0 0 **Hail (2.75)**

Sioux County

Fairview 05 1645CST 0 0 **Hail (1.00)**

O'Brien County

Primghar 05 1704CST 0 0 **Hail (2.75)**

O'Brien County

2 SE Primghar 05 1710CST 0 0 **5K Thunderstorm Wind (G56)**
Thunderstorm winds caused tree damage.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Northwest</u>									
O'Brien County									
1 S Paullina to 2 E Paullina	05	1712CST 1716CST	2.2	50	0	0	10K		Tornado (F0)
A tornado caused minor damage to several structures in Paullina. The tornado was photographed by a resident.									
O'Brien County									
Primghar	05	1712CST			0	0			Hail (1.75)
Clay County									
Royal	05	1746CST			0	0			Thunderstorm Wind (G52)
Clay County									
Spencer	05	1753CST			0	0			Thunderstorm Wind (G58)
Clay County									
Spencer Arpt	05	1753CST			0	0			Thunderstorm Wind (G54)
Dickinson County									
1 S Milford	05	1823CST 1930CST			0	0			Flood
Heavy rain caused lowland flooding, including part of highway 71.									
Clay County									
Spencer	05	1900CST 2000CST			0	0			Flood
Heavy rain caused street and some basement flooding.									
Clay County									
Everly	09	1239CST			0	0			Hail (0.75)
Clay County									
Spencer	09	1243CST			0	0	5K		Thunderstorm Wind (G51)
Thunderstorm winds blew down signs and caused tree damage.									
Dickinson County									
Spirit Lake	09	1320CST			0	0			Hail (0.75)
Woodbury County									
Pierson	09	1749CST 1758CST			0	0			Hail (0.75)
Woodbury County									
Sioux City Arpt	09	1756CST			0	0			Thunderstorm Wind (G60)
Cherokee County									
6 W Quimby	09	1800CST			0	0			Hail (1.00)
Woodbury County									
Sergeant Bluff	09	1803CST			0	0			Hail (0.75)
Ida County									
8 S Ida Grove	09	1812CST			0	0	5K		Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage and broke a house window.									
<u>IOWA, Southwest</u>									
Pottawattamie									
Walnut	06	1350CST			0	0			Thunderstorm Wind (G60)
Tree limbs up to a foot in diameter were downed plus shingles blown off a roof.									
Shelby County									
Elk Horn	06	1358CST			0	0			Hail (0.75)
Shelby County									
Elk Horn	09	1425CST			0	0	400K		Thunderstorm Wind (G61)
Thunderstorm winds blew the roofs off of 5 downtown buildings and felled several large trees. Power lines were also downed and substantial damage to the town's grain elevator was sustained.									
Page County									
Clarinda	09	1611CST			0	0			Thunderstorm Wind (G57)
Trees and tree limbs downed.									
Harrison County									
3 NE Mondamin	09	1700CST			0	0			Hail (0.88)
Harrison County									
Modale	27	0730CST 1000CST			0	0			Flash Flood
Rainfall around 7 inches in Modale flooded county roads in the area.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Southwest</u>									
IAZ090									
Fremont									
	28	0500CST			0	0			Flood
	29	0930CST							
Heavy rain in southwest Iowa caused the Nishnabotna River at Hamburg to reach 24.6 feet at 240 pm cst on 6/28/99, flood stage is 23 feet.									
<u>KANSAS, East</u>									
Cloud County									
Glasco	01	0057CST			0	0			Thunderstorm Wind (G61)
Brown County									
5 SE Hiawatha	04	0638CST			0	0			Hail (0.75)
Brown County									
Robinson	04	0641CST			0	0			Hail (0.75)
Coffey County									
Waverly	07	1701CST			0	0			Hail (0.75)
Ottawa County									
4 ENE Bennington	09	1740CST			0	0			Hail (0.75)
Ottawa County									
4 ENE Bennington	09	1740CST			0	0			Thunderstorm Wind (G52)
Ottawa County									
4 N Bennington	09	1742CST			0	0			Hail (0.75)
Ottawa County									
Bennington	09	1742CST			0	0			Hail (1.00)
Ottawa County									
4 N Bennington	09	1742CST			0	0			Thunderstorm Wind (G52)
Ottawa County									
8 ESE Lamar	09	1756CST			0	0			Hail (0.75)
Cloud County									
7 WSW Miltonvale	09	1815CST			0	0			Hail (0.88)
Franklin County									
Wellsville	02	2000CST			0	0	10K		Lightning
An unusual event occurred in Wellsville when lightning that struck a house a few days earlier and ignited a smoldering fire that burst into flames the evening of the 2nd. Considerable damage was done to the house, mainly the attic portion.									
Dickinson County									
Elmo	06	1650CST			0	0			Thunderstorm Wind (G52)
Sixty mph winds blew down tree limbs in Elmo.									
Osage County									
1 E Melvern	07	1715CST			0	0			Hail (0.75)
Dickinson County									
10 N Abilene	09	1815CST			0	0			Thunderstorm Wind (G52)
Clay County									
4 NW Oak Hill	09	1817CST			0	0			Hail (0.75)
Cloud County									
8 WSW Miltonvale	09	1820CST			0	0			Hail (1.00)
Clay County									
9 S Clifton	09	1828CST			0	0			Hail (1.00)
Clay County									
8 S Clifton	09	1830CST			0	0			Hail (1.75)
Clay County									
2 SSW Morganville	09	1835CST			0	0			Hail (1.75)
Clay County									
2 SSW Morganville	09	1835CST			0	0			Thunderstorm Wind (G52)
Clay County									
8 E Clifton	09	1845CST			0	0			Hail (1.75)
Washington									
4 SE Palmer	09	1910CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Washington									
4 SE Palmer	09	1920CST			0	0			Hail (0.75)
Severe thunderstorms developed late in the afternoon of the 9th near Minneapolis and moved northeast producing numerous reports of large hail and very strong winds.									
Clay County									
7 ENE Clay Center	11	1414CST			0	0			Hail (1.00)
Clay County									
2 N Wakefield	11	1425CST			0	0	1K		Thunderstorm Wind (G65)
Some windows were blown out of a house by strong winds.									
Marshall County									
2 W Marysville	11	1433CST			0	0			Hail (0.88)
Clay County									
5 N Green	11	1437CST			0	0			Hail (0.75)
Morris County									
1 E Skiddy	11	1740CST			0	0			Hail (0.75)
Morris County									
5 NW Council Grove	11	1755CST			0	0			Hail (0.75)
Marshall County									
Waterville	27	1037CST			0	0			Hail (1.00)
Marshall County									
Blue Rapids	27	1042CST			0	0			Hail (0.88)
Nemaha County									
Seneca	13	0630CST 0730CST			0	0			Urban/Sml Stream Fld
Over 2 inches of rain fell in a short time period and caused several small creeks and streams to go into minor flooding for a time. Some streets in Seneca were covered with water. Also the Nemaha River and Turkey Creek caused some minor agricultural and road flooding.									
Jefferson County									
Mc Louth	27	2000CST 2300CST			0	0	120K		Flash Flood
Heavy rains caused flash flooding. Two people were stranded by the flash flooding near McLouth and had to be rescued by boat. Three feet of water was in the Valley Falls High School gymnasium for a time. Eight homes had extensive flood damage.									
KSZ010>011-023									
Marshall - Nemaha - Pottawatomie									
	27	1330CST			0	0	20K	10K	Flood
	29	1400CST							
Heavy rains on the 27th sent the Black Vermillion River into flood. Longtime residents of the area said it was one of the worst they had seen. Areas from Centrailia to the confluence with the Kansas River were flooded. Some property and crop damage was reported. At some points in Pottawatomie county the river was reported to be 2 miles wide. At Frankfort the river crested at 28.8 feet at 0300 of the 28th. With flood stage at 19 feet this was nearly 10 feet above flood stage.									
Nemaha County									
Seneca	27	1730CST 2245CST			0	0	5K	45K	Flash Flood
Between 3 and 7 inches of rain fell causing flash flooding doing extensive agricultural damage and closing several roads and highways for a time. Several trailer homes were also evacuated for a time. Some businesses and homes were flooded with some minor damage.									
Pottawatomie									
5 S Onaga	28	0355CST 0700CST			0	0		50K	Flash Flood
Flash flooding resulted from heavy rains. A man was rescued from a vehicle that became stalled in flood waters 5 miles south of Onaga. Flash flooding also occurred in Wamego and other locations in the county doing extensive crop damage and flooding several roads and businesses.									
Riley County									
Manhattan	28	0510CST 0630CST			0	0			Urban/Sml Stream Fld
Heavy rains caused flooding in Manhattan and nearby areas. Several cars were washed off a street. Some roads were closed for a time.									
Wabaunsee									
1 SE Paxico	28	0542CST			0	0	3K		Lightning
Two bolts of lightning struck a 2 story farm house igniting a fire that heavily damaged the structure.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Douglas County 2 E Big Spgs	28	0700CST			0	0	15K		Lightning
					Lightning struck a business and ignited a fire which consumed the building.				
Wabaunsee Alma	28	0545CST			0	0			Urban/Sml Stream Fld
					Heavy rains of one to 3 inches in less than a one hour time period caused flooding in the Alma area. Some roads and small bridges were inundated by flood water for a time.				
Shawnee County Topeka	28	0610CST 0730CST			0	0	40K		Urban/Sml Stream Fld
					One to 2 inches of rain in a short time period caused numerous reports of flooding in and around Topeka. Twenty cars in a used car lot were damaged or destroyed by the rushing water. A woman in her 60's was rescued after her car became stalled and flooded in southern Topeka.				
Jackson County Circleville	28	0630CST			0	0	80K	65K	Flash Flood
					Heavy rains in a short time period caused flash flooding which damaged several roads and bridges and did extensive crop damage.				
Douglas County Lawrence	28	0650CST			0	0			Urban/Sml Stream Fld
					Heavy rain in a short time caused flooding that resulted in several reports of stalled vehicles. Some roads were closed for a time.				
Shawnee County Topeka	28	0605CST			0	0			Thunderstorm Wind (G52)
Lyon County 10 N Emporia	28	0615CST			0	0	4K		Thunderstorm Wind (G70)
					Strong winds blew the roof off a house.				
Lyon County Miller	28	0615CST			0	0	2K		Thunderstorm Wind (G70)
					Winds to 81 mph did some structural damage to buildings in Miller.				
Lyon County 4 E Emporia	28	0630CST			0	0	3K		Thunderstorm Wind (G65)
					Strong winds blew the roof off a trailer home.				
Osage County 4 S Barclay	28	0630CST			0	0			Thunderstorm Wind (G69)
Osage County Pomona Res	28	0640CST			0	0	12K		Thunderstorm Wind (G62)
					Strong winds overturned trailers and damaged 2 boat docks and nearly 40 boats.				
Osage County 4 W Melvern	28	0642CST			0	5	2K		Thunderstorm Wind (G69)
					Strong winds overturned trailers at Melvern Lake resulting in minor damage and minor injuries to 5 people.				
Franklin County Pomona	28	0645CST			0	0	5K		Thunderstorm Wind (G62)
					Strong winds blew the roof off a house.				
Osage County Melvern	28	0646CST			0	0	3K		Thunderstorm Wind (G65)
					Strong winds blew down tree limbs doing minor damage to property and buildings.				
Franklin County 1 N Williamsburg	28	0655CST			0	0			Thunderstorm Wind (G60)
Lyon County Reading	28	0658CST			0	0	1K		Thunderstorm Wind (G55)
					Strong winds did minor damage to a barn and a few sheds.				
Franklin County Ottawa	28	0700CST			0	1	70K		Thunderstorm Wind (G61)
					Strong winds damaged trees and blew down power lines. Falling tree limbs damaged at least 6 cars. Two churches and several businesses had extensive damage. One person was injured from broken glass.				
Osage County 8 S Osage City	28	0700CST			0	0			Thunderstorm Wind (G70)
Franklin County 5 NE Ottawa	28	0705CST			0	0			Thunderstorm Wind (G54)
Coffey County Waverly	28	0710CST			0	0			Thunderstorm Wind (G63)

Storm Data and Unusual Weather Phenomena

June 1999

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

KANSAS, East

Anderson County

Greely	28	0720CST			0	0			Thunderstorm Wind (G60)
Thunderstorms moved east across east central Kansas during the early morning of the 28th producing numerous reports of strong straight line winds. There were numerous reports of tree and tree limb damage. Power lines were downed near Miller and Ottawa. The roofs of several homes were blown away near Emporia and Pomona. Two churches were heavily damaged in Ottawa. At least 6 cars in Ottawa suffered damage from falling tree limbs. One person suffered minor injuries to the hip and elbow when a window of the second floor office she was working in was blown out. Five people were taken to a hospital and treated for injuries, one serious, they suffered when trailers were overturned at Melvern Lake.									

KANSAS, Extreme Southeast

Cherokee County

East Portion	12	2100CST 2300CST			0	0			Flash Flood
Thunderstorms produced locally heavy rain which produced minor flooding on low lying roadways.									

Cherokee County

North Portion	24	0750CST			0	0			Flash Flood
Thunderstorms produced 3 inches of rain in less than two hours which led to the flooding of roadways.									

Bourbon County

Countywide	28	0900CST 1200CST			0	0			Flash Flood
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Cherokee County

Countywide	28	0945CST 1200CST			0	0			Flash Flood
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Crawford County

Countywide	28	0951CST 1200CST			0	0			Flash Flood
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Heavy rain producing thunderstorms caused widespread, but generally minor, flooding of low lying areas. A few roads were briefly flooded.

KANSAS, North Central

Rooks County

Woodston	01	0010CST			0	0	0	0	Hail (0.75)
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Smith County

Lebanon	01	0013CST			0	0	0	0	Hail (0.75)
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Osborne County

Osborne	01	0030CST			0	0	0	0	Hail (0.75)
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Jewell County

Burr Oak	01	0035CST			0	0	50K	100K	Thunderstorm Wind (G61)
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Jewell County

2 S Esbon	01	0035CST			0	0	20K	50K	Hail (1.00)
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Smith County

3 S Kensington	01	0035CST			0	0	0	0	Thunderstorm Wind (G52)
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Smith County

Smith Center	01	0041CST			0	0	50K	100K	Thunderstorm Wind (G62)
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Mitchell County

Cawker City	01	0045CST			0	0	0	0	Thunderstorm Wind (G52)
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Mitchell County

Tipton	01	0045CST			0	0	0	0	Thunderstorm Wind (G52)
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Jewell County

Formoso	01	0110CST			0	0	10K	50K	Thunderstorm Wind (G55)
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Scattered severe thunderstorms continued from the evening of 5/31 into the early morning hours of the 1st. These storms produced hail up to 1 inch in diameter and wind gusts of 70 mph. Tree damage was reported primarily along and east of US Highway 281. A house under construction on the south side of Smith Center was heavily damaged by the strong winds. The community greenhouse in Formoso was also damaged by the wind. The downed trees caused power outages as well.

Phillips County

Woodruff	03	1915CST			0	0	0	0	Hail (0.88)
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Phillips County

4 E Woodruff	03	1918CST 1920CST	0.5	30	0	0	0	0	Tornado (F0)
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Storm Data and Unusual Weather Phenomena

June 1999

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

KANSAS, North Central

A rural fire department spotter observed a brief tornado just east of Woodruff. No damage occurred.

Rooks County									
Palco	04	2230CST			0	0	100K	50K	Thunderstorm Wind (G65)
Rooks County									
Damar	04	2240CST			0	0	100K	50K	Thunderstorm Wind (G65)
Rooks County									
6 NW Stockton	04	2255CST			0	0	20K	50K	Thunderstorm Wind (G60)
Rooks County									
8 N Stockton	04	2300CST			0	0	0	0	Thunderstorm Wind (G55)
Phillips County									
7 E Phillipsburg	04	2305CST			0	0	0	0	Thunderstorm Wind (G55)
Smith County									
Gaylord	04	2315CST			0	0	25K	0	Thunderstorm Wind (G55)
Smith County									
Kensington	04	2320CST			0	0	0	0	Thunderstorm Wind (G52)
Smith County									
Smith Center	04	2325CST			0	0	65K	0	Thunderstorm Wind (G55)
Osborne County									
Osborne	04	2330CST			0	0	0	0	Thunderstorm Wind (G52)

Collapsing thunderstorms across a portion of north-central Kansas produced damaging winds in parts of the region. Near Palco, 70+ mph winds tore the roof from the COOP. A barn was destroyed on a dairy farm near Damar. Numerous tree limbs and power lines were damaged and fell by the wind of 60 to 80 mph. Roofs were partially damaged in Smith county at Gaylord and Smith Center.

Rooks County									
Stockton	09 10	2337CST 0200CST			0	0	0	0	Flash Flood

Heavy rainfall flowed over U.S. Highway 183 for a time and flooded the swimming pool and park in town.

Phillips County									
Logan	27	0200CST			0	0	0	200K	Hail (1.00)
Jewell County									
Jewell	27	0315CST			0	0	0	0	Thunderstorm Wind (G52)
Rooks County									
Palco	27	0315CST			0	0	0	200K	Hail (0.88)
Rooks County									
1 E Stockton	27	0320CST			0	0	0	0	Thunderstorm Wind (G52)
Osborne County									
Osborne	27	0339CST			0	0	10K	500K	Hail (1.00)
Mitchell County									
Hunter	27	0415CST			0	0	0	100K	Hail (0.75)

The southern end of a line of severe thunderstorms rolled across north-central Kansas during the predawn hours. The storms packed 60 mph winds and one inch hail in spots. Wheat which was not yet harvested was damaged in some areas. Osborne county alone sustained one half million dollars in crop damage.

Osborne County									
Osborne	28	0315CST			0	0	0	0	Hail (1.00)
Rooks County									
2 N Palco	28	0330CST			0	0	0	0	Hail (0.75)

KANSAS, Northeast

KSZ025	Atchison								
	14	0000CST 2359CST			0	0			Flood

The combination of high water levels and 3 straight days of wet weather across northeast Kansas and northwest Missouri caused minor flooding of the Missouri River at Atchison.

Johnson County									
Countywide	23	1100CST 1400CST			0	0	50K		Urban/Sml Stream Fld
Leavenworth									
Countywide	23	1100CST 1400CST			0	0	50K		Urban/Sml Stream Fld

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					Killed	Injured	Property	Crops	
KANSAS, Northeast									
Wyandotte County									
Countywide	23	1100CST 1400CST			0	0	100K		Urban/Sml Stream Fld
Thunderstorms developed over the Kansas City metropolitan area on the morning of June 23. Storms continued to back-build and dumped heavy rains on the area. Rainfall totals on the Kansas side of the Kansas City metro area were generally between 1 and 2 inches, and street flooding was widespread, especially in Kansas City, KS.									
KSZ025-057-060- Atchison - Miami - Linn - Leavenworth - Wyandotte - Johnson									
	27	0000CST			0	0			Flood
	30	2359CST							
Excessive rainfall on June 27-28 in northeast Kansas caused widespread minor to moderate river flooding. Locations in flood included the Missouri River at Atchison and Leavenworth, the Kansas River near 23rd Street in Kansas City, Kansas, Indian Creek in Overland Park, the Marais des Cygnes at Osawatomie and LaCygne, the Delaware River near Muscotah, and Stranger Creek at Easton and Tonganoxie. The flooding along the Missouri and at Tonganoxie continued into the month of July.									
Leavenworth									
Countywide	27	2300CST			0	0	25K		Urban/Sml Stream Fld
	28	0000CST							
Heavy rainfall during the late evening hours resulted in urban flooding that required road closings and water rescues around midnight, local time.									
Linn County									
2 NW Parker	28	0718CST			0	0			Thunderstorm Wind (G60)
Gutters were blown off of a house.									
Miami County									
Paola	28	0725CST			0	0			Thunderstorm Wind (G65)
Trees 10 to 16 inches in diameter were downed.									
Johnson County									
Bonita	28	0740CST			0	0			Thunderstorm Wind (G65)
Johnson County									
Countywide	28	0800CST 1100CST			0	0	500K		Flash Flood
Several homes were flooded in Olathe and Mission Hills, and fire and rescue units responded to 74 emergency calls during the morning of June 28. Unofficial reports were received of 4 inches of rain in an hour, and a storm total of 7.8 inches was received at 131st and Kenneth Road. Near Stanley, flood waters from the Blue River were over the 151st Street bridge. Sections of Interstate 35 were closed due to high water.									
Johnson County									
Stanley	28	0800CST			0	0			Thunderstorm Wind (G70)
Several large trees were uprooted by thunderstorm winds.									
Leavenworth									
Countywide	28	0800CST 1100CST			0	0	250K		Flash Flood
Wyandotte County									
Countywide	28	0800CST 1100CST			0	0	1M		Flash Flood
Damaging flash flooding occurred in and around Kansas City, Kansas on the morning of June 28. Emergency crews rescued residents from approximately 30 flooded cars and 15 to 20 flooded homes. Dozens of homes were evacuated due to the flood waters. A bridge in Kansas City was damaged by the fast-moving flood waters, and sections of Interstates 35 and 635 were closed due to high water. Three buildings in Kansas City collapsed, as walls and foundations gave way under the force of the water. Northeastern Kansas was hit by three waves of thunderstorms on June 27 and 28, which produced excessive rainfall and eventually resulted in significant flash flooding in the Kansas City area. The first complex of storms moved through on the morning of June 27, without much in the way of excessive rain or severe weather. However, storms continued to re-develop across eastern Kansas, just south of the Nebraska-Kansas border, during the afternoon. By late afternoon, 2-3 inch rainfall totals were commonplace in the northeast corner of Kansas. The focus for thunderstorm development slowly shifted southward, closer to Kansas City, during the evening hours. The thunderstorm activity shifted southward out of the area after midnight, but on the morning of the 28th, another complex of storms moved through the area. The rains that these storms dropped on already saturated ground produced significant flash flooding.									

Storm total rainfall amounts were 3 inches or more through most of northeast Kansas. A few of the highest storm totals were 5.35 inches in Bonner Springs, 4.77" in Easton, 4.73" in Olathe, 4.50" in Overland Park, and 4.06" in Stilwell.

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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	
KANSAS, Northwest									
Norton County									
15 S Norton	03	1717CST			0	0			Hail (0.75)
Norton County									
3 E Norton	03	1734CST			0	0			Hail (1.00)
Norton County									
1 SW Calvert	03	1749CST			0	0			Hail (1.75)
Norton County									
4 E Norton	03	1800CST			0	0			Hail (1.75)
Norton County									
4 E Norton to 6 NNE Almena	03	1800CST 1847CST	10	1320	0	0	1M		Tornado (F3)
A large tornado dropped down just east of the town of Norton and stayed on the ground for approximately 10 miles before finally lifting north-northeast of the town of Almena. This Tornado reached around 3/4 of a mile wide at times and did major (F3) damage to a few farmsteads. Tornado also went through a stage with multiple vortices.									
Wichita County									
3 SE Leoti	04	1930CST			0	0			Hail (0.75)
Wallace County									
10 S Sharon Spgs	08	1435MST			0	0			Hail (1.00)
Greeley County									
15 NNW Tribune	08	1446MST			0	0			Hail (1.25)
Greeley County									
16 WSW Tribune	08	1540MST			0	0			Hail (0.75)
Thomas County									
Colby	08	1715CST			0	0			Thunderstorm Wind (G60)
Light pole blown over by strong winds. Part of the roof on a Community College dorm was destroyed.									
Greeley County									
14 NW Tribune	08	1724MST			0	0			Hail (1.00)
Wallace County									
9 NNE Sharon Spgs	08	1805MST			0	0			Hail (0.75)
Graham County									
7 N Penokee	09	2102CST			0	0			Hail (1.75)
Thomas County									
1 W Colby	09	2205CST			0	0			Hail (0.75)
Sherman County									
7 N Ruleton	10	2113MST			0	0			Thunderstorm Wind (G61)
Sherman County									
7 N Ruleton	10	2130MST			0	0	250K		Hail (1.75)
All the windows on the west side of house broken by large hail.									
Sherman County									
2 NE Ruleton	10	2148MST			0	0			Hail (1.75)
Sherman County									
Goodland	10	2205MST			0	0			Hail (1.25)
Sherman County									
7 NNE Edson	10	2235MST			0	0			Hail (1.75)
Sherman County									
Goodland	10	2333MST			0	0			Flash Flood
Numerous roads closed due to flooding.									
Thomas County									
5 N Brewster	10	2340CST			0	0			Hail (1.75)
Thomas County									
5 N Colby	11	0115CST			0	0			Hail (0.75)
Thomas County									
Mingo	11	0200CST			0	0			Thunderstorm Wind (G57)
Gove County									
Grinnell	11	0214CST			0	0			Thunderstorm Wind (G69)
Logan County									
5 W Oakley	11	0220CST			0	0			Thunderstorm Wind (G70)

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					Killed	Injured	Property	Crops	
KANSAS, Northwest									
Logan County									
4 N Russell Spgs	11	0255CST			0	0			Flash Flood
			Highway 25 flooded.						
Gove County									
3 W Campus	11	0300CST			0	0			Thunderstorm Wind (G61)
Thomas County									
Colby	11	0300CST			0	0			Flash Flood
			Numerous basements flooded in the city of Colby.						
Sheridan County									
3 N Angelus	11	0315CST			0	0			Thunderstorm Wind (G57)
Gove County									
Grinnell	11	0322CST			0	0			Thunderstorm Wind (G69)
Norton County									
New Almelo	11	0405CST			0	0			Hail (0.75)
Norton County									
New Almelo	11	0405CST			0	0			Thunderstorm Wind (G52)
Decatur County									
4 S Norcatur	11	0410CST			0	0			Hail (0.75)
Decatur County									
4 S Norcatur	11	0416CST			0	0			Hail (0.75)
Graham County									
Penokee	11	0416CST			0	0			Hail (0.75)
Graham County									
Penokee	11	0416CST			0	0			Thunderstorm Wind (G52)
Sherman County									
16 NE Goodland	11	0645MST 0745MST			0	0			Flood
			Beaver Creek flooded over its Banks. Secondary roads and fields were flooded.						
Decatur County									
14 SW Oberlin	11	0715CST			0	0			Flood
			Sappa Creek flooded out of its Banks.						
Rawlins County									
8 S Herndon	22	1607CST			0	0			Hail (0.75)
Decatur County									
9 WSW Oberlin	22	1608CST			0	0			Hail (0.88)
Wichita County									
15 NNE Leoti	22	1620CST			0	0			Hail (1.75)
Logan County									
4 S Winona	22	1626CST			0	0			Hail (0.88)
Logan County									
14 S Russell Spgs	22	1640CST			0	0			Hail (1.00)
Logan County									
5 SE Winona	22	1643CST			0	0			Hail (1.00)
Thomas County									
9 E Mingo	22	1650CST			0	0			Hail (0.75)
Decatur County									
2 W Oberlin	22	1702CST			0	0			Hail (1.00)
Wichita County									
3 S Marienthal	22	1800CST			0	0			Hail (0.75)
Sherman County									
7 NNE Edson	22	1808MST			0	0			Hail (0.75)
Sherman County									
8 E Edson	22	1815MST			0	0			Hail (0.75)
Wallace County									
13 N Wallace	22	1821MST			0	0			Hail (1.00)

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					Killed	Injured	Property	Crops	
<u>KANSAS, Northwest</u>									
Wichita County 3 SW Marienthal	22	1838CST			0	0			Hail (1.00)
Cheyenne County 3 NE Bird City	22	1850CST			0	0			Hail (0.75)
Wichita County 8 S Leoti to 12 SSW Leoti	22	1853CST 1920CST	4	880	0	0	250K		Tornado (F3)
A large tornado (F3) destroyed a farmstead. The house was nearly flattened by the tornado, and a tractor and grain combine/harvester were rolled several hundred feet. Tornado moved from East to West.									
Greeley County 10 NE Tribune	22	1855MST			0	0			Hail (1.00)
Thomas County Brewster	22	1920CST			0	0			Hail (1.00)
Logan County 7 NNW Mc Allaster	22	1946CST			0	0			Hail (0.75)
Logan County 19 S Mc Allaster	22	2000CST			0	0			Hail (1.00)
Wichita County 15 S Leoti	22	2020CST			0	0			Hail (1.00)
Wichita County 15 S Leoti	22	2035CST			0	0			Hail (1.50)
Decatur County 5 E Oberlin	24	1510CST			0	0			Hail (1.00)
Decatur County Oberlin	24	1534CST			0	0			Hail (0.75)
Rawlins County 13 SSE Ludell	24	1607CST			0	0			Hail (0.88)
Rawlins County 8 S Ludell	24	1625CST			0	0			Hail (2.00)
Rawlins County 8 SSW Atwood	24	1645CST			0	0			Hail (0.75)
Rawlins County 3 N Mc Donald	24	1707CST			0	0			Hail (0.88)
Cheyenne County 4 NNE Bird City	24	1720CST			0	0			Hail (0.88)
Decatur County 11 N Kanona	26	2150CST			0	0			Thunderstorm Wind (G60)
3 Inch tree limbs broken by strong winds.									
Decatur County 9 N Norcatur	26	2230CST			0	0			Hail (1.00)
Norton County 14 NNW Norton	26	2240CST			0	0			Thunderstorm Wind (G60)
Numerous trees blown over by strong winds.									
Cheyenne County 14 N Bird City	27	0030CST			0	0			Hail (0.88)
Norton County 1 E Norton	27	0135CST			0	0			Thunderstorm Wind (G60)
2 Inch tree limbs broken by strong winds.									
Decatur County Oberlin	27	0200CST			0	0			Thunderstorm Wind (G70)
Gas station canopy blown over.									
Graham County Bogue	28	0301CST			0	0			Hail (1.00)
Graham County Bogue	28	0318CST			0	0			Hail (0.75)
Cheyenne County 6 NW St Francis	30	0701CST			0	0			Thunderstorm Wind (G52)

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					Killed	Injured	Property	Crops	
<u>KANSAS, Northwest</u>									
Cheyenne County									
7 SW Bird City	30	0730CST			0	0			Hail (0.75)
Cheyenne County									
10 N St Francis	30	0730CST			0	0			Hail (1.75)
Cheyenne County									
4 NW St Francis	30	0745CST			0	0			Hail (1.75)
Cheyenne County									
1 NE Wheeler	30	0745CST			0	0			Hail (0.75)
Thomas County									
Colby	30	0838CST			0	0			Hail (0.88)
Cheyenne County									
6 NE Bird City	30	0845CST			0	0			Hail (0.88)
Sherman County									
6 NE Edson	30	1141MST			0	0			Hail (0.88)
Sherman County									
8 S Edson	30	1154MST	0.2	200	0	0			Tornado (F0)
Sherman County									
4 ENE Edson	30	1205MST			0	0			Hail (1.00)
Logan County									
Winona	30	1330CST			0	0			Hail (1.75)
Logan County									
9 SSW Russell Spgs	30	1400CST	0.2	200	0	0			Tornado (F0)
Logan County									
2 SW Russell Spgs	30	1405CST			0	0			Hail (1.25)
Wichita County									
1 N Leoti	30	1425CST			0	0			Hail (1.75)
Wichita County									
8 S Marienthal	30	1448CST	0.2	200	0	0			Tornado (F0)
Greeley County									
11 SW Tribune	30	2037MST			0	0			Hail (0.88)
Greeley County									
12 SW Tribune	30	2045MST			0	0			Hail (0.88)
Sherman County									
19 NE Goodland	30	2200MST			0	0			Hail (0.88)
Cheyenne County									
16 SW Bird City	30	2232CST			0	0			Hail (1.75)
Greeley County									
Horace	30	2235MST			0	0			Hail (1.75)
Wallace County									
4 NW Weskan	30	2235MST			0	0			Hail (1.75)
Greeley County									
Tribune	30	2250MST			0	0			Hail (2.50)
Logan County									
26 S Oakley	30	2300CST			0	0			Hail (0.75)
Greeley County									
16 N Tribune	30	2309MST			0	0			Hail (1.75)
Thomas County									
Colby	30	2320CST			0	0			Hail (0.75)
<u>KANSAS, Southeast</u>									
Russell County									
Russell	01	0007CST			0	0			Thunderstorm Wind (G72)
									Measured at Radio Station KRSL.
Russell County									
9 E Russell	01	0015CST			0	0			Thunderstorm Wind (G52)
									Semi blown of I-70 at mile post 193.

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					Killed	Injured	Property	Crops	
KANSAS, Southeast									
Russell County									
Russell	01	0018CST			0	0			Thunderstorm Wind (G57)
Ellsworth County									
Wilson	01	0020CST			0	0			Thunderstorm Wind (G65)
			Windows blown out of a home.						
Mcperson									
Mc Pherson	01	0146CST			0	0			Thunderstorm Wind (G53)
Harper County									
9 NW Attica	02	0040CST			0	0			Thunderstorm Wind (G61)
			Tree limbs, 6-7 inches in diameter, blown down.						
Kingman County									
2 S Zenda	03	0008CST			0	0			Thunderstorm Wind (G61)
			Large tree limbs blown down.						
Woodson County									
2 SW Yates Center	06	0730CST			0	0			Hail (1.75)
Woodson County									
Yates Center	06	0734CST			0	0			Hail (1.75)
Woodson County									
2 SW Neosho Falls	06	0745CST			0	0			Hail (0.75)
Wilson County									
2 E Buffalo	07	1508CST			0	0			Hail (0.75)
Montgomery									
3 W Sycamore	07	1520CST			0	0			Hail (0.88)
Wilson County									
Neodesha	07	1537CST			0	0			Hail (0.75)
Wilson County									
2 SW New Albany	07	1606CST			0	0			Hail (1.00)
Wilson County									
1 S New Albany	07	1608CST			0	0			Hail (1.00)
Wilson County									
2 W Fredonia	07	1615CST			0	0			Hail (1.00)
Sedgwick County									
2 NW Clonmel	07	1935CST			0	0			Thunderstorm Wind (G52)
Mcperson									
2 SW Elyria	09	1633CST			0	0			Hail (1.00)
Saline County									
Salina	09	1729CST			0	0			Hail (1.75)
Lincoln County									
2 NE Lincoln	09	1925CST			0	0			Hail (0.88)
Lincoln County									
5 NE Lincoln	09	1932CST			0	0			Hail (0.75)
KSZ069-091-091- Butler - Harper									
	12	0800CST			0	0			Flood
	20	1200CST							
			Rainfalls of 4-6 inches drenched much of Butler County including El Dorado that resulted in the closure of a half dozen roads across northwest and northeast Butler County.						
Sedgwick County									
Maize	16	0115CST			0	0	5K		Thunderstorm Wind (G63)
			Minor roof damage inflicted at an elementary school.						
Chautauqua									
Cedar Vale	24	0805CST			0	0			Hail (0.75)
			Reported by co-operative observer.						
Lincoln County									
2 SW Ash Grove	27	0428CST			0	0			Thunderstorm Wind (G52)
Lincoln County									
Lincoln	27	0441CST			0	0			Hail (1.00)

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					Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Lincoln County									
Lincoln	27	0441CST			0	0			Thunderstorm Wind (G52)
Kingman County									
Rago	27	1840CST			0	0			Hail (1.00)
Sedgwick County									
3 NW Wichita	27	1908CST			0	0			Hail (0.75)
Occurred in Northwest Wichita.									
Sedgwick County									
2 NW Wichita	27	1913CST			0	0			Hail (1.00)
Occurred in Northwest Wichita.									
Sedgwick County									
1 NW Wichita	27	1920CST			0	0			Hail (1.00)
Occurred in Northwest Wichita.									
Russell County									
2 N Lucas	28	0313CST			0	0			Hail (0.75)
Saline County									
Gypsum	28	0512CST			0	0			Hail (1.00)
Sedgwick County									
Wichita	28	0604CST			0	0			Thunderstorm Wind (G50)
Sedgwick County									
Wichita	28	0615CST			0	0			Thunderstorm Wind (G52)
Occurred in Northwest Wichita.									
Chase County									
Cottonwood Falls	28	0617CST			0	0			Hail (0.75)
Butler County									
Augusta	28	0636CST			0	0	5K		Thunderstorm Wind (G52)
Utility pole blown down.									
Greenwood									
Eureka	28	0653CST			0	0	5K		Thunderstorm Wind (G52)
Numerous tree limbs blown down and dumpsters overturned in Southwest Eureka.									
Woodson County									
1 N Vernon	28	0705CST			0	0			Hail (0.75)
Cowley County									
10 E Arkansas City	28	0709CST			0	0			Thunderstorm Wind (G52)
Elk County									
2 NW Grenola	28	0720CST			0	0	10K		Thunderstorm Wind (G52)
Transformers blown out.									
Neosho County									
St Paul	28	0722CST			0	0			Hail (0.75)
Wilson County									
Fredonia	28	0735CST			0	0			Thunderstorm Wind (G56)
Large trees blown down.									
Neosho County									
Thayer	28	0752CST			0	0			Thunderstorm Wind (G56)
Large trees blown down.									
Labette County									
1 NW Parsons	28	0800CST 0805CST			0	0	50K		Thunderstorm Wind (G56)
Substantial damage sustained to hangar as well as damage to rear landing gear and tail section of a Cessna 170 housed inside.									
<u>KANSAS, Southwest</u>									
Seward County									
15 NNW Liberal	02	2020CST			0	0			Hail (1.00)
Haskell County									
Sublette	02	2045CST			0	0			Hail (0.75)
Haskell County									
5 E Sublette	02	2055CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Gray County									
3 NW Montezuma	02	2110CST			0	0			Thunderstorm Wind (G65)
Clark County									
6 SSW Minneola	02	2120CST			0	0			Hail (0.75)
Clark County									
6 SSW Minneola	02	2120CST			0	0			Thunderstorm Wind (G56)
Gray County									
6 SW Cimarron	02	2123CST			0	0			Thunderstorm Wind (G56)
Meade County									
3 N Fowler	02	2130CST			0	0			Thunderstorm Wind (G56)
Ness County									
7 N Beeler	02	2130CST			0	0			Other
									Gradient wind from thunderstorms to the south took down 8 inch diameter limbs. One 18 inch diameter tree was uprooted.
Ford County									
3 ENE Bloom	02	2151CST			0	0			Thunderstorm Wind (G56)
Hodgeman County									
19 WSW Jetmore	02	2155CST			0	0			Hail (0.75)
Hodgeman County									
19 WSW Jetmore	02	2155CST			0	0			Thunderstorm Wind (G52)
									Wind rolled an empty 40 gallon water tank 200yards and also rolled it over a fence.
Clark County									
2 ENE Sitka	02	2200CST			0	0			Thunderstorm Wind (G61)
									Two to four inch diameter tree limbs blown down.
Ford County									
8 N Howell	02	2200CST			0	0			Thunderstorm Wind (G61)
									Tore a tin roof off a shed.
Ellis County									
Ellis	03	0100CST			0	0			Other
									Twenty-four inch diameter tree uprooted from high wind generated from dying thunderstorms to the south.
Ellis County									
Hays	03	0100CST			0	0			Other
									58 mph gust at the hays airport. Wind generated from dying thunderstorms to the south.
Hamilton County									
12 S Kendall	04	1745MST			0	0			Thunderstorm Wind (G61)
									Two to three inche diameter branches down.
Morton County									
Rolla	04	1855CST			0	0			Hail (0.75)
Stanton County									
15 SE Johnson	04	1902CST			0	0			Thunderstorm Wind (G52)
Grant County									
4 WSW Ulysses	04	1903CST			0	0			Hail (0.75)
Kearny County									
12 SW Lakin to 12 SW Lake Mc Kinney	04	1907CST			0	0			Hail (1.00)
Stevens County									
Hugoton	04	1910CST			0	0			Thunderstorm Wind (G70)
									Trailer homes blown off foundations, power lines down and roofs off houses.
Kearny County									
14 SW Lakin	04	1920CST			0	0			Hail (0.75)
Stevens County									
Hugoton	04	1930CST	0.5	75	0	0	750K		Tornado (F1)
									Large trees uprooted...at least 5 roofs heavily damaged...grain bin destroyed and power poles blown down. At least two folks witnessed the touched down...described as two swirling white funnels. Probably brief multiple suction vortices beneath the rotating updraft.
Stevens County									
18 SE Hugoton	04	1930CST			0	0			Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Finney County									
13 WSW Garden City	04	1940CST			0	0			Thunderstorm Wind (G52)
Stevens County									
8 NE Hugoton	04	1940CST			0	0	40K		Thunderstorm Wind (G71)
Damage to barn and pivot sprinkler.									
Stevens County									
Moscow	04	1940CST			0	0			Thunderstorm Wind (G56)
Morton County									
1 NE Richfield	04	1945CST			0	0			Hail (1.00)
Morton County									
5 E Richfield	04	1945CST			0	0			Hail (0.75)
Grant County									
15 ENE Ulysses	04	2005CST			0	0			Thunderstorm Wind (G56)
Haskell County									
4 W Satanta	04	2015CST			0	0	2K		Thunderstorm Wind
Power lines down and storage shed moved off foundation at the golf course.									
Seward County									
16 NNE Liberal	04	2025CST			0	0			Hail (0.75)
Stevens County									
9 SSE Hugoton	04	2030CST			0	0			Thunderstorm Wind (G56)
Three to four inch branches blown down.									
Gray County									
15 WNW Cimarron	04	2100CST			0	0			Thunderstorm Wind (G52)
Seward County									
10 N Liberal	04	2110CST			0	0			Hail (0.75)
Morton County									
2 SW Richfield	04	2114CST			0	0			Hail (1.00)
Morton County									
6 SSE Rolla	04	2215CST			0	0			Hail (0.75)
Morton County									
6 SSE Rolla	04	2215CST			0	0			Thunderstorm Wind (G52)
Ellis County									
Hays	04	2315CST			0	0	7K		Thunderstorm Wind
Dugout moved off foundation and football shed demolished.									
Haskell County									
Sublette	04	2315CST			0	0			Thunderstorm Wind (G52)
Gray County									
8 S Cimarron	05	0120CST			0	0			Thunderstorm Wind (G52)
Ford County									
Dodge City	05	0140CST			0	0			Thunderstorm Wind (G52)
Two inch diameter limbs blown down.									
Hodgeman County									
9 SSE Jetmore	05	0200CST			0	0			Thunderstorm Wind (G52)
Hodgeman County									
11 NNW Jetmore	05	0200CST			0	0	0.60K		Thunderstorm Wind
Two power poles blown down.									
Gray County									
Ingalls	05	0220CST			0	0			Thunderstorm Wind (G61)
Gray County									
Ingalls	05	0224CST			0	0			Thunderstorm Wind (G53)
Clark County									
2 NE Sitka	07	1403CST			0	0			Hail (0.75)
Kiowa County									
8 S Wellsford	07	1433CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Clark County									
9 S Ashland to 9 S Acres	07	1524CST			0	0			Hail (0.75)
Clark County									
5 E Ashland	07	1542CST			0	0			Hail (0.88)
Clark County									
9 NE Ashland	07	1559CST			0	0			Hail (0.75)
Gray County									
Cimarron	07	1711CST			0	0			Hail (0.75)
Gray County									
Cimarron	07	1712CST			0	0			Hail (0.75)
		Fell in the cimarron park.							
Gray County									
Cimarron	07	1715CST			0	0			Hail (0.75)
Scott County									
6 WSW Shallow Water	08	2043CST			0	0			Hail (0.88)
Scott County									
7 NW Scott City	08	2046CST			0	0			Hail (0.75)
Morton County									
10 WSW Richfield	08	2054CST			0	0			Hail (0.75)
Scott County									
11 ESE Shallow Water	08	2116CST			0	0			Hail (0.75)
Morton County									
4 NNE Rolla	08	2128CST			0	0			Hail (0.75)
		Relayed by the NWS - Amarillo							
Finney County									
13 NNW Kalvesta	08	2200CST			0	0			Hail (0.88)
Stevens County									
4 WSW Moscow	08	2200CST			0	0			Hail (0.75)
Stevens County									
6 W Moscow	08	2205CST			0	0			Hail (0.75)
Stevens County									
Moscow	08	2214CST			0	0			Hail (0.88)
Stevens County									
7 SE Hugoton	08	2223CST			0	0			Hail (0.88)
Seward County									
14 NNW Liberal	08	2234CST			0	0			Hail (0.75)
		Lasted four minutes.							
Seward County									
11 NW Kismet	08	2250CST			0	0			Hail (0.88)
Hodgeman County									
Jetmore	08	2255CST			0	0			Hail (0.75)
Meade County									
Meade	09	0025CST			0	0			Hail (0.75)
Clark County									
7 S Minneola	09	1540CST			0	0			Hail (0.75)
Edwards County									
20 ESE Kinsley	09	1703CST			0	0			Hail (0.75)
Morton County									
7 NE Elkhart	09	1843CST			0	0			Hail (1.00)
Comanche County									
3 N Wilmore	09	1923CST			0	0			Hail (0.75)
Kiowa County									
4 S Haviland	09	1928CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Kiowa County									
15 S Greensburg	09	1945CST			0	0			Hail (0.75)
Haskell County									
2 NNE Satanta	09	2020CST			0	0			Hail (0.75)
Stevens County									
5 N Hugoton	09	2021CST			0	0			Hail (0.75)
		Stripped the trees of leaves.							
Finney County									
10 NW Kalvesta	09	2030CST			0	0			Hail (0.75)
Meade County									
Plains	09	2043CST			0	0			Hail (1.00)
Finney County									
10 NNW Kalvesta	09	2045CST			0	0			Hail (1.50)
Meade County									
6 N Plains	09	2120CST			0	0			Hail (0.75)
Gray County									
2 ESE Copeland	09	2130CST			0	0			Hail (0.75)
Lane County									
13 S Alamota	09	2135CST 2235CST			0	0			Hail (0.75)
Ness County									
10 SW Ness City	09	2205CST			0	0			Thunderstorm Wind (G50)
		Measured by wind equipment.							
Barber County									
1 W Kiowa	09	2250CST			0	0			Flash Flood
		Water was over highway K2.							
Stevens County									
7 N Hugoton	10	0205CST			0	0			Flash Flood
		Water over highway 25.							
Stanton County									
2 S Johnson	10	0454CST			0	0			Hail (0.88)
Stanton County									
2 S Johnson	10	0455CST			0	0			Hail (0.88)
KSZ084									
Morton									
10	10	1935CST			0	0			High Wind (G52)
		Non-thunderstorm wind.							
Trego County									
3 NE Collyer	11	0255CST			0	0			Hail (0.75)
Morton County									
7 W Richfield	11	2216CST			0	0			Hail (0.75)
Stevens County									
10 S Moscow	11	2218CST			0	0			Hail (1.00)
		Relayed by radio station.							
Stevens County									
6 N Woods	11	2224CST			0	0			Hail (1.00)
Seward County									
18 NW Liberal	11	2225CST			0	0			Hail (0.75)
Seward County									
6 NW Kismet	11 19	2230CST 2230CST			0	0			Hail (0.88)
Stevens County									
9 N Hugoton	11	2250CST			0	0			Hail (0.88)
Seward County									
7 NW Kismet	11 19	2318CST 2318CST			0	0			Hail (1.00)
Seward County									
11 N Liberal	11 19	2325CST 2325CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Seward County									
Liberal	12	0025CST			0	0			Flash Flood
			Flooding reported all over town.						
Seward County									
15 NNE Liberal	12	0045CST			0	0			Flash Flood
			Flooding on highway 160 just east of the 83/160 intersection.						
Stevens County									
Hugoton	15	1325CST			0	0			Hail (0.75)
Gray County									
Cimarron	15	1515CST			0	0			Hail (0.75)
Haskell County									
15 N Satanta	18	1520CST			0	0			Hail (1.25)
Haskell County									
11 NNE Sublette	18	1530CST			0	0			Hail (1.25)
Haskell County									
3 N Tice	18	1544CST 1545CST	0.1	20	0	0			Tornado (F0)
Gray County									
Copeland	18	1545CST			0	0			Hail (0.75)
Haskell County									
1 SW Tice	18	1607CST			0	0			Thunderstorm Wind (G70)
Haskell County									
4 SE Sublette	18	1620CST			0	0			Hail (2.75)
Haskell County									
4 SE Sublette to 5 SE Sublette	18	1620CST 1625CST	1	40	0	0	11K		Tornado (F1)
			Machine shed heavily damaged, horse trailer turned over and windows blown out of a trailer.						
Haskell County									
6 SSE Sublette	18	1625CST			0	0			Hail (1.75)
Seward County									
11 N Kismet	18	1640CST			0	0			Hail (1.25)
Meade County									
1 W Plains	18	1643CST			0	0			Hail (0.75)
Meade County									
5 N Plains	18	1644CST			0	0			Hail (1.00)
Meade County									
Plains	18	1655CST			0	0			Hail (1.00)
Meade County									
3 W Meade State Park	18	1717CST			0	0			Hail (1.25)
Meade County									
9 SW Meade State Park	18	1724CST			0	0			Hail (1.75)
Meade County									
16 S Meade	18	1756CST			0	0			Hail (2.00)
Meade County									
16 S Meade	18	1756CST			0	0			Thunderstorm Wind (G52)
Stevens County									
2 N Woods	21	1445CST			0	0			Hail (0.75)
Seward County									
17 NNW Liberal	21	1455CST			0	0			Hail (0.75)
Kearny County									
22 NW Lakin to 21.5 NW Lakin	22	1915CST 1916CST	0.5	50	0	0			Tornado (F0)
Kearny County									
22 NW Lakin to 22 W Lake Mc Kinney	22	1930CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Kearny County									
22 NW Lakin to 21.5 NW Lakin	22 29	1930CST 1931CST	0.5	50	0	0			Tornado (F0)
									Brief touchdown again in same area as 15 minutes earlier.
Hamilton County									
9 N Kendall	22 29	2000MST 2000MST			0	0			Hail (1.75)
Kearny County									
24 NW Lakin	22	2030CST			0	0			Hail (1.75)
Kearny County									
24 NW Lakin	22 29	2030CST 2030CST			0	0			Thunderstorm Wind (G78)
									Blew six diameter tree limbs down.
Hamilton County									
1 NW Kendall	22	2035MST			0	0			Hail (0.75)
Kearny County									
18 NW Lakin	22	2045CST			0	0			Hail (0.88)
Kearny County									
19 NW Lakin	22	2045CST	0.1	20	0	0			Tornado (F0)
									Very brief spin-up/
Kearny County									
15 NW Lakin	22	2100CST			0	0			Hail (1.50)
Kearny County									
12 N Lakin	22	2112CST			0	0			Hail (0.75)
Finney County									
9 N Garden City	22	2115CST			0	1			Lightning
									Lightning struck the chimney, travelled down the phone line and burnt the ear of the resident talking on the phone when the handset exploded. Also, the charge blew the hinged fireplace doors 20 feet into the living room.
Kearny County									
5 N Lakin	22	2130CST			0	0			Thunderstorm Wind (G52)
Stanton County									
4 S Big Bow	22	2140CST			0	0			Thunderstorm Wind (G75)
Kearny County									
6 W Lakin	22	2154CST			0	0			Hail (2.50)
									Car windshield broken
Finney County									
4 N Holcomb	22	2158CST			0	0			Hail (0.75)
Finney County									
1 NW Pierceville	22	2225CST			0	0			Thunderstorm Wind (G61)
Finney County									
13 NW Kalvesta	22	2230CST			0	0			Hail (0.75)
Gray County									
Cimarron	22	2242CST			0	0			Thunderstorm Wind (G52)
Ford County									
2 SW Dodge City Arpt	22	2310CST			0	0			Thunderstorm Wind (G61)
									Trees broken, windows blown out of trailer house and fence twisted.
Finney County									
8 NE Garden City	23	0200CST			0	0			Hail (1.00)
Finney County									
Plymell	23	0235CST			0	0	82.5K		Lightning
									Lightning struck a home that was being constructed and burnt it to the ground.
Hamilton County									
5 W Kendall	23	1655MST			0	0			Hail (1.25)
Hamilton County									
4 ESE Syracuse	23	1737MST			0	0			Hail (1.00)
Hamilton County									
21 NW Syracuse	23	1738MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Southwest									
Hamilton County									
8 SE Syracuse	23	1750MST			0	0			Hail (1.50)
Hamilton County									
21 NW Syracuse	23	1753MST			0	0			Hail (1.50)
Grant County									
8 ENE Hickok	24	0630CST			0	0			Hail (0.75)
Lane County									
5 N Dighton	24	1340CST			0	0			Hail (1.75)
Lane County									
1 W Alamota	24	1440CST			0	0			Hail (0.75)
Finney County									
10 W Kalvesta	24	1556CST			0	0			Thunderstorm Wind (G61)
KSZ044>045									
Lane - Ness	24	1600CST 2100CST			0	0			Flood
<p>Torrential rainfall from nearly stationary thunderstorms produced widespread flooding across northern Lane and extreme northwest Ness counties. The result was rapid rises on the Cottonwood Creek and the north and middle forks of the Walnut river. Fields and roads were flooded in the area.</p>									
Hamilton County									
18 NNW Syracuse	25	1755CST			0	0			Hail (0.88)
Barber County									
Medicine Lodge Arpt	28	0841CST			0	0			Other
ASOS report a gust to 62 mph (54knots)									
Morton County									
3 NW Elkhart	29	1505CST			0	0			Hail (0.75)
Morton County									
3 W Elkhart	29	1520CST			0	0			Hail (1.75)
Morton County									
Elkhart	29	1529CST			0	0			Hail (0.75)
Gray County									
13 NNE Cimarron	29	2000CST			0	0			Hail (1.00)
Hodgeman County									
19 WSW Jetmore	29	2000CST			0	0			Hail (0.75)
Ford County									
Dodge City	29	2018CST			0	0			Hail (0.75)
Ford County									
Dodge City	29	2019CST			0	0			Hail (0.75)
Ford County									
Dodge City	29	2020CST			0	0			Hail (0.75)
Ford County									
Dodge City Arpt	29	2020CST			0	0			Hail (0.88)
Ford County									
Dodge City	29	2030CST			0	0			Hail (1.75)
Kiowa County									
9 WSW Greensburg	29	2117CST			0	0			Hail (0.75)
Meade County									
7 SSE Meade to 7 SS Meade	30	0045CST			0	0			Hail (0.75)
Barber County									
18 SW Medicine Lodge	30	0130CST			0	0			Thunderstorm Wind (G61)
Ness County									
3 NE Bazine	30	1122CST			0	0			Thunderstorm Wind (G56)
Recorded by wind equipment.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Ness County									
8 SE Brownell	30	1135CST			0	0			Excessive Rainfall
			Rainfall of 2.00" in 15 minutes.						
Rush County									
5 S Nekoma	30	1155CST			0	0			Hail (0.88)
Pawnee County									
1 N Larned	30	1227CST			0	0			Thunderstorm Wind (G52)
Pawnee County									
4 N Larned	30	1230CST			0	0	0.50K		Thunderstorm Wind
			Three inch diameter limbs down.						
Pawnee County									
4 NE Larned	30	1234CST			0	0	30K		Thunderstorm Wind (G61)
			Pivot sprinkler overturned and 18 inch diameter tree limb broken.						
Pawnee County									
2 NE Larned	30	1256CST			0	0	40K		Thunderstorm Wind
			Power poles down and pivot sprinkler overturned.						
Stafford County									
3 SW Seward	30	1257CST			0	0			Thunderstorm Wind (G61)
Stafford County									
3 N St John	30	1315CST			0	0			Excessive Rainfall
			Rainfall of 2.00" in 15 minutes.						
Stafford County									
3 N St John	30	1315CST			0	0			Thunderstorm Wind (G61)
Stafford County									
St John	30	1330CST			0	1	300K		Thunderstorm Wind
			One trailer home was completely destroyed and the occupant received minor cuts and bruises, but lucky to be alive according to the Emergency Manager. Trees were down all over the place and several roofs received quite a bit of damage. Several pivot sprinklers overturned or damaged and a patrol car window pushed out. The same patrol car was blown into a ditch, after sitting idle with the driver pressing on the brake, powerless to the high wind.						
Scott County									
12 N Modoc	30	1435CST			0	0			Hail (1.75)
			Broke windows out of a patrol car.						
Scott County									
1 N Modoc	30	1445CST	0.1	30	0	0			Tornado (F0)
			Reported by law enforcement.						
<u>KENTUCKY, Central</u>									
Butler County									
Morgantown	04	2235EST			0	0			Thunderstorm Wind (G50)
			A few trees down						
Simpson County									
Franklin	04	2335EST			0	0			Thunderstorm Wind (G50)
			Trees and power lines down						
Russell County									
Russell Spgs	10	1815EST			0	0			Thunderstorm Wind (G50)
			Numerous trees down						
Jessamine County									
Wilmore	10	2000EST			0	0	2K		Thunderstorm Wind
			Minor damage to structures and some trees down						
Garrard County									
5 N Buena Vista	10	2014EST			0	0	10K		Thunderstorm Wind
			Roofs blown off buildings in far northern part of county						
Jefferson County									
Countywide	28	1430EST 1830EST			0	0	20K		Flash Flood
Bullitt County									
Countywide	28	1535EST 1800EST			0	0			Flash Flood
			Multiple thunderstorms with heavy rain moved across Jefferson and Bullitt counties through the late afternoon hours. In Jefferson						

Storm Data and Unusual Weather Phenomena

June 1999

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

KENTUCKY, Central

county, Interstate 65 was flooded near downtown Louisville, and many roads were closed due to high water. In the Fairdale area, evacuations were required due to the flooding of homes. Four people required shelter. In Bullitt county, several roads were flooded and had many cars stalled in them due to the high water. Rainfall total for the day at the National Weather Service Forecast Office in Louisville was 4.60 inches.

Hardin County Countywide	28	1505EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Meade County Flaherty	28	1505EST			0	0			Thunderstorm Wind (G50)
Several trees down									
Bullitt County Lebanon Jct	28	1515EST			0	0			Thunderstorm Wind (G50)
A tractor trailer was blown over on Interstate 65									
Hart County Munfordville	28	1515EST			0	0	5K		Thunderstorm Wind
Barn roof blown off									
Nelson County Bardstown	28	1530EST			0	0			Thunderstorm Wind (G50)
Trees down									
Woodford County Countywide	28	1610EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Jessamine County Nicholasville	28	1645EST			0	0			Thunderstorm Wind (G50)
Trees down									

KENTUCKY, Eastern

Pike County 3 N Belfry	02	1130EST			0	0	15K	0	Thunderstorm Wind
Strong winds blew down several trees and powerlines in the Forest Hills area. Tree damage occurred at KY Governor Paul Patton's home which had to be removed from the street. A storage building lost its roof and the debris was scattered 100 feet. A radio tower owned by the John's Creek Fire Department was damaged. This tower also had some of the Appalachian Pager equipment on it which was also damaged.									
Leslie County Confluence	02	1740EST			0	0	2K	0	Thunderstorm Wind
Strong winds brought down several trees that knocked down power lines and blocked Highway 257.									
Leslie County Thousandsticks	10	1630EST			0	0	0	0	Thunderstorm Wind
Strong winds brought several trees down around the area.									
Pulaski County Mt Victory	10	1850EST			0	0	0	0	Thunderstorm Wind
Thunderstorm winds brought down several trees on Route 1003.									
Breathitt County Saldee	11	1700EST			0	0	0	0	Thunderstorm Wind
Trees were knocked down which partially blocked Route 387 and Highway 1110.									

KENTUCKY, Northeast

KYZ101>103-105 Greenup - Carter - Boyd - Lawrence	01	0000EST			0	0			Drought
	30	2300EST							
The drought continued across extreme northeast Kentucky. Some showers at the end of the month brought moisture to the top soil and crops. The total monthly rains were mostly 1.5 to 2.5 inches across the 4 counties. Charley of Lawrence County reported just an inch of rain for the entire month. The hottest weather was from the 6th through the 13th, peaking around 100 degrees on the 9th and 10th. On the 9th, Grayson and Ashland had 98 degrees. On the 10th, Ashland reached 100 degrees.									

KENTUCKY, Northern

Owen County New Liberty	09	1632EST 1637EST			0	0	1K		Hail (0.75)
Severe thunderstorm winds broke large branches from trees onto area roadways. Large hail also reported.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Northern</u>									
Owen County									
Owenton	09	1654EST 1659EST			0	0	3K		Thunderstorm Wind (G50)
		Several trees were knocked down.							
Kenton County									
Countywide	11	1955EST 2005EST			0	0	4K		Thunderstorm Wind (G50)
		Several trees were knocked down in the southern section of the county.							
Kenton County									
Ft Mitchell	11	2043EST 2048EST			0	0	3K		Thunderstorm Wind (G50)
		Trees were blown down.							
Carroll County									
Central Portion	12	1710EST 1715EST			0	0	10K		Thunderstorm Wind (G53)
		Several trees were knocked down through the county. A roof was reportedly blown off of a house and a barn.							
Boone County									
Florence	13	2039EST			0	1			Lightning
		A child was struck by lightning.							
<u>KENTUCKY, Southwest</u>									
Christian County									
Newstead to Hopkinsville	01	2230CST 2255CST			0	0	3K		Thunderstorm Wind (G52)
		A state trooper reported trees down.							
Union County									
Countywide	02	0130CST 0330CST			0	0	100K		Flash Flood
		Torrential downpours from thunderstorms dumped between 3 and 4 inches of rain in about 2 hours. This resulted in the closing of streets and highways throughout the county. One of the hardest hit areas was Highway 60 West in Morganfield, which was covered by an estimated two and a half feet of water at one point. This led to flooding of several businesses, including an auto body shop and a plumbing and electrical supply store. An equipment dealership suffered the loss of about 10 vehicles located on its lot. Elsewhere in Morganfield, major flooding occurred on North Morgan Street, which was closed near the Union County Shopping Center. Businesses along both sides of the street received extensive flooding. The first floor of a motel received severe damage, dislocating a number of guests. Several stores in the Union County Shopping Center, such as a video store and a restaurant, received water damage. A department store had a couple inches of water over the entire floor, resulting in over 3,000 dollars in lost merchandise.							
Union County									
Countywide	04	2000CST			0	0	8K		Thunderstorm Wind (G52)
		Several trees and a few power lines were down across the county.							
Henderson County									
Henderson	04	2005CST			0	0	6K		Thunderstorm Wind (G52)
		Numerous trees and power lines were down.							
Daviess County									
Stanley to Owensboro	04	2020CST			0	0	40K		Thunderstorm Wind (G55)
		At Stanley, numerous trees were downed by gusts estimated from 60 to 70 MPH. At least one vehicle and a shed were crushed by falling trees. A barn was destroyed by high winds about 5 miles south of Owensboro. A wind gust to 60 MPH was measured by wind equipment in the city of Owensboro, and many large tree limbs were down.							
Webster County									
Sebree	04	2020CST			0	0	5K		Thunderstorm Wind (G50)
		Numerous trees and limbs were down. Highway maintenance workers spent several hours clearing them from roadways.							
Daviess County									
Utica	04	2028CST			0	0	3K		Thunderstorm Wind (G52)
		Trees were down.							
Livingston County									
3 W Salem	04	2040CST			0	0	3K		Thunderstorm Wind (G50)
		Small trees and a few limbs were down between Burna and Salem.							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Southwest									
Muhlenberg									
Countywide	04	2045CST			0	0	5K		Thunderstorm Wind (G52)
			Trees and power lines were down.						
Crittenden County									
Countywide	04	2054CST			0	0	4K		Thunderstorm Wind (G52)
			Trees were down at scattered locations around the county.						
Hopkins County									
Madisonville	04	2100CST			0	0	4K		Thunderstorm Wind (G52)
			Large tree limbs and power lines were down.						
Caldwell County									
Princeton	04	2105CST			0	0	3K		Thunderstorm Wind (G50)
			Trees and power lines were down.						
Lyon County									
Countywide	04	2107CST 2130CST			0	0	4K		Thunderstorm Wind (G50)
			Numerous trees were down across the county. An estimated gust to 58 MPH was reported near the Interstate 24 interchange with the Western Kentucky Parkway.						
Mccracken									
Countywide	04	2115CST			0	0	4K		Thunderstorm Wind (G52)
			Numerous trees and power lines were down across the county.						
Todd County									
Clifty	04	2120CST			0	0	4K		Thunderstorm Wind (G50)
			Numerous trees and power lines were down across northern portions of the county.						
Livingston County									
Smithland	04	2121CST			0	0			Hail (1.00)
Marshall County									
Calvert City to Hardin	04	2125CST 2136CST			0	0	2K		Thunderstorm Wind (G52)
			A gust to 58 MPH was measured near Calvert City just off I-24. At Hardin, a gust to 60 MPH took down tree limbs.						
Trigg County									
Countywide	04	2129CST			0	0	4K		Thunderstorm Wind (G52)
			Numerous trees and power lines were down across the county.						
Christian County									
Countywide	04	2130CST			0	0	4K		Thunderstorm Wind (G52)
			Numerous trees were down across the county.						
Calloway County									
2 E Murray	04	2150CST			0	0	10K		Thunderstorm Wind
			Propane cylinders and signs were blown over.						
Calloway County									
Hazel	04	2228CST			0	0			Hail (0.88)
Christian County									
Crofton	06	1325CST			0	0	3K		Thunderstorm Wind (G52)
			Trees were down near U.S. Highway 41.						
Christian County									
Crofton	06	1345CST 1600CST			0	0			Flash Flood
			Thunderstorms produced torrential rainfall, with rates estimated by radar of up to 2.5 inches per hour.						
Marshall County									
4 WNW Palma to Gilbertsville	06	1600CST			0	0	4K		Thunderstorm Wind
			A microburst blew down numerous 12 to 20-inch trees in the Gilbertsville area. An off-duty National Weather Service employee estimated gusts near 60 MPH near Palma.						
Marshall County									
Draffenville	06	1600CST			0	0			Hail (1.50)
Mccracken									
2 NW Lone Oak	06	1610CST 1620CST			0	0	3K		Thunderstorm Wind (G52)
			A couple of large trees and limbs were down.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Southwest</u>									
Marshall County									
1 S Draffenville	06	1630CST			0	0	3K		Thunderstorm Wind (G52)
		Trees were down.							
Mccracken									
Reidland	06	1640CST			0	0			Thunderstorm Wind (G52)
Marshall County									
Palma to Draffenville	06	1645CST 1930CST			0	0			Flash Flood
		Thunderstorms produced torrential rainfall. A spotter reported rainfall of 2.1 inches in 45 minutes at Draffenville. Creeks near Palma and Sharpe rose very rapidly. In some low-lying areas, eight to ten inches of water covered roads.							
Mccracken									
3 NW Lone Oak	06	1715CST 1840CST			0	0	3K		Flash Flood
		Slow-moving thunderstorms produced very heavy rain. Water was over roads, including U.S. 62.							
Trigg County									
2 S Cadiz to 3 N Cadiz	10	2140CST 2144CST			0	0	4K		Thunderstorm Wind (G61)
		A National Weather Service damage survey revealed straight-line thunderstorm winds around 70 MPH caused minor damage to three homes. One vehicle was damaged by a falling tree limb. The damage path was about 1.5 miles wide.							
Lyon County									
Lamasco	10	2205CST			0	0	3K		Thunderstorm Wind (G52)
		A state trooper reported trees were downed in his yard by winds estimated near 60 MPH.							
Hopkins County									
Madisonville to 4 E Madisonville	27	0300CST 0600CST			0	0	75K		Flash Flood
		Very heavy rain from thunderstorms caused flash flooding. Streets were closed and voluntary evacuations were conducted. Flooding damaged several businesses in Madisonville. Rainfall measured 5.34 inches at the water plant in Madisonville.							
Mclean County									
2 W Sacramento	27	0535CST 0730CST			0	0			Urban/Sml Stream Fld
		Thunderstorms produced very heavy rain, estimated by radar up to 2 inches in 2 hours. Sheriff personnel reported 6 inches of water over Highway 85 near Sacramento, resulting in the posting of a detour.							
Daviess County									
Owensboro to Ensor	28	1510CST 1515CST			0	0			Funnel Cloud
		Numerous reports were received of a funnel cloud in the Owensboro area. The funnel cloud did not touch ground.							
<u>LOUISIANA, Northeast</u>									
Franklin Parish									
Countywide	26	0830CST 1030CST			0	0	50K		Flash Flood
		Several roads were closed and a few homes received minor damage due to widespread flooding.							
<u>LOUISIANA, Northwest</u>									
Bossier Parish									
Haughton	09	1720CST			0	0	10K		Thunderstorm Wind (G65)
		Powerlines and highway signs blown down.							
Webster Parish									
Springhill	22	2035CST			0	0	0.50K		Thunderstorm Wind
		A window was broken and a power line was felled near a furniture store on Hwy 371. A window was blown out of a business on Main street. Another building has 2 doors down and minor damage to a tin roof.							
Bossier Parish									
Bossier City	24	1900CST			0	0			Flash Flood
		Ten to 15 feet of water reported under some overpasses with severe street flooding throughout the city.							
Caddo Parish									
Shreveport	24	1900CST			0	0			Flash Flood
		Ten to 15 feet of water reported under some overpasses with severe street flooding throughout the city.							

Storm Data and Unusual Weather Phenomena

June 1999

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

LOUISIANA, Northwest

Webster Parish

Minden	24	1900CST				0	0	15K	Flash Flood
Severe street flooding around town. Several cars underwater and several businesses received water damaged including the Parish council building.									

LOUISIANA, Southeast

East Baton Rouge

3 SE Baton Rouge	14	1430CST				0	0	1K	Thunderstorm Wind
Thunderstorm wind gusts blew down several trees and downed power lines in the southeast portion of the Baton Rouge area. Electrical power was lost to approximately 3000 customers.									

St. James Parish

Countywide	26	1000CST 1400CST				0	0	15K	Flash Flood
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St. John The

Countywide	26	1000CST 1400CST				0	0	15K	Flash Flood
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St. Charles Parish

Countywide	26	1400CST 1630CST				0	0	15K	Flash Flood
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Lafourche Parish

North Portion	26	1800CST 0100CST				0	0	500K	Flash Flood
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Terrebonne Parish

North Portion	26	2015CST 2230CST				0	0	500K	Flash Flood
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An area of thunderstorms persisted over portions of extreme southeast Louisiana during the day and evening hours producing 6 to 12 inches of rain across the affected parishes. The highest rainfall total was just southeast of Thibodaux where 11.13 inches of rain was recorded. The intense rainfall rates overwhelmed local drainage producing flooding. In St. James, St. John the Baptist, and St. Charles Parishes, streets were flooded along with several houses in each parish. The most severe damage occurred in the north portions of Terrebonne and Lafourche Parishes where many roadway were flooded, and 100 houses in each parish were flooded. Water depth in the houses ranged from a few inches to up to a foot or more. Communities hard hit by flooding included Thibodaux, Raceland, Lockport, and Shriever.

LOUISIANA, Southwest

Iberia Parish

New Iberia	06	1400CST				0	0	5K	Thunderstorm Wind
Trees and power lines were blown down across the parish.									

Vermilion Parish

Erath	06	1455CST				0	0	10K	Thunderstorm Wind
A large tree blew down on a house, damaging the roof.									

Jefferson Davis

10 N Jennings	10	1500CST				0	0	20K	Thunderstorm Wind
Microburst winds blew down trees and damaged several buildings north of Jennings on Highway 102. Several buildings in Cajun Village had doors ripped off hinges and roof damage.									

Vermilion Parish

Intracoastal City	12	1155CST				0	0	150K	Lightning
Lightning struck an antenna outside a business, resulting in significant damage when a fire started inside the walls of the building.									

Lafayette Parish

Lafayette	16	1700CST				0	0	10K	Flash Flood
Around four inches of rain fell in an hour, resulting in flooding in Lafayette. One foot of water covered several roads, and some water was entering homes in southern sections of Lafayette.									

Calcasieu Parish

Lake Charles	25	1400CST				0	0	10K	Flash Flood
Around five inches of rain fell in less than two hours, resulting in significant street flooding across Lake Charles. Several streets were impassable due to high water.									

St. Martin Parish

St Martinville	26	0445CST				0	0	10K	Flash Flood
Highway 96 closed due to high water. Water approaching some homes in town. Significant street flooding occurring. Radar estimated upto 15 inches of rain fell across portions of St. Martin Parish.									

Iberia Parish

Loreauville	26	0600CST				0	0	5K	Flash Flood
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>LOUISIANA, Southwest</u>									
Water in some homes near Loreauville. Also reports of water across Shot Street, Spencer Loop, and West End Park. Between six and eight inches of rain fell across the area overnight.									
St. Martin Parish									
St Martinville	26	0600CST			0	0	5K		Flash Flood
									Flood waters reached into several homes on the south side of St. Martinville, after more than ten inches of rain fell overnight.
St. Martin Parish									
St Martinville	26	0700CST			0	0	5K		Flash Flood
									Highway 96 remains closed at Catahoula due to high water.
Rapides Parish									
Glenmora	26	0900CST			0	0	5K		Thunderstorm Wind
									Several large trees downed, reported by police department.
<u>MAINE, North</u>									
Hancock County									
Trenton	07	2235EST			0	0			Lightning
									Lightning strike resulted in a steeple fire resulting in minor damage.
Hancock County									
Northeast Harbor	07	2245EST			0	0			Lightning
									Lightning strike resulted in a fire that destroyed a house.
Penobscot County									
Bangor	08	0300EST			0	0			Thunderstorm Wind (G52)
									Several trees downed resulting in power outages.
<u>MAINE, South</u>									
MEZ007>009-									
Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin -									
	01	0000EST			0	0			Dry Conditions
	30	2359EST							
									Dry conditions continued in June. The Palmer Drought Severity Index dropped to a moderate drought category. Forest fire danger was high. Streamflow conditions also continued to be below normal with the Carrabassett River reaching its second lowest level in 77 years.
Kennebec County									
Litchfield Corners	07	1530EST			0	0			Thunderstorm Wind (G50)
Sagadahoc County									
Bowdoin Center	07	1535EST			0	0			Thunderstorm Wind (G50)
Sagadahoc County									
Bowdoinham	07	1540EST			0	0			Thunderstorm Wind (G50)
Sagadahoc County									
Bath	07	1545EST			0	0			Thunderstorm Wind (G50)
Lincoln County									
Alna	07	1552EST			0	0			Thunderstorm Wind (G50)
Franklin County									
Phillips	07	1915EST			0	0			Hail (0.75)
Franklin County									
Temple	07	1920EST			0	0			Hail (1.75)
Franklin County									
Stratton	07	1940EST			0	0			Thunderstorm Wind (G50)
Somerset County									
North Anson to Skowhegan	07	2020EST 2040EST			0	0			Thunderstorm Wind (G50)
									Severe thunderstorms downed trees and caused large hail in parts of western and central Maine. Golfball- sized hail was reported in the town of Temple in Franklin County with dime-sized hail reported in Phillips. Trees were reported down in parts of Kennebec, Lincoln, Sagadahoc, Franklin, and Somerset Counties.
Cumberland									
Cumberland Center	08	0440EST			0	0	25K		Lightning
Lincoln County									
Wiscasset	08	0505EST			0	0	5K		Lightning
									Lightning struck a home and ignited an early morning fire in the town of Cumberland. Lightning also struck a building at a wood products business in Wiscasset, igniting a fire. The fire destroyed a tower on the 60 ft. by 80 ft wooden structure used for storing sawdust.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MAINE, South									
Somerset County									
Skowhegan	08	1227EST			0	0			Thunderstorm Wind (G50)
Kennebec County									
China	08	1300EST			0	0			Hail (1.00)
Kennebec County									
Albion	08	1307EST			0	0			Hail (1.00)
Waldo County									
Liberty	08	1325EST			0	0			Hail (1.50)
Knox County									
Hope	08	1340EST			0	0			Hail (0.75)
Waldo County									
Lincolntown	08	1340EST			0	0			Hail (0.75)
Lincoln County									
Jefferson	08	1402EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms moving through western and central Maine knocked over trees in Skowhegan and Jefferson, and dropped large hail in parts of Kennebec, Waldo, and Knox Counties.									
Androscoggin									
Livermore Falls	09	1600EST			0	0			Lightning
Lightning struck a slow-sand, water filtration plant for the 7th time in 2 years									
Cumberland									
Naples	24	1345EST			0	0			Lightning
Lightning struck a garage which housed two oil delivery trucks in Naples. The ensuing fire destroyed the garage and both oil trucks. Two other homes in the area were struck by lightning later that evening.									
York County									
Acton	24	1400EST			0	0			Lightning
Lightning ignited a brush fire in Acton. Firefighters had to hike almost to the top of Gerrish Mountain packing water on their backs to fight the fire which threatened to spread due to the dry conditions.									
York County									
York Vlg	24	1420EST			0	0			Lightning
Lightning struck the Meadowbrook Plaza Office Building in York. Several individuals reportedly saw flashes of light coming out of various electrical equipment inside their offices. No one was injured in the incident, but phone equipment and possibly electrical wires were damaged by the lightning strike.									
Androscoggin									
Mechanic Falls	24	1420EST			0	0			Hail (1.75)
Androscoggin									
Mechanic Falls	24	1420EST			0	0			Thunderstorm Wind (G50)
Androscoggin									
Mechanic Falls	24	1420EST 1500EST			0	0			Urban/Sml Stream Fld
A severe thunderstorm blew down trees and dropped golf ball-sized hail in the town of Mechanic Falls. One to two inches of rain fell from the storm over a short period of time and caused streets to become flooded as culverts became overwhelmed by the heavy rain.									
Cumberland									
West Cumberland	24	1440EST			0	0	150K		Lightning
Lightning struck a home in West Cumberland and ignited a fire which completely destroyed the recently renovated residence.									
York County									
Buxton	28	1425EST			0	1			Lightning
One man was injured when the lift (cherry picker) in which he was riding was struck by lightning.									
York County									
Sanford	28	1530EST			0	0			Lightning
Lightning struck a school in Sanford creating a hole in the roof. Although the school was occupied at the time, no one was hurt.									
Kennebec County									
Benton	28	1840EST			0	0	25K		Lightning
Lightning ignited a fire that destroyed a mobile home in Benton.									
Cumberland									
Harrison	29	1600EST			0	0			Lightning
Lightning struck a sawdust shed at a lumber mill in Harrison. The 10- by 20-ft building was set ablaze by the strike but the wooden building was reportedly salvageable.									

Storm Data and Unusual Weather Phenomena

June 1999

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

MARYLAND, Central

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

01	0000EST	0	0		Drought
30	2359EST				

High pressure was the dominant weather feature across Maryland during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. The drought warning issued by the Maryland Department of the Environment remained in effect through June. By the last week of the month the Palmer Drought Index, a measure of long term drought conditions, indicated North Central and Northeast Maryland were in a severe drought, and South Central and Western Maryland were in an extreme drought. June was the 8th month in the past 12 months that precipitation was below normal. From July 1998 through June 1999 precipitation was a staggering 15 inches below average, the 2nd driest 12 months on record. Only 2.04 inches of rain fell at Baltimore/Washington International Airport (BWI) during the month of June, 1.63 inches below normal. BWI received 0.86 inches of this total on the 24th. The Maryland Science Center at Inner Harbor Baltimore reported a total of 2.42 inches. Additional June rainfall totals included Allegany County at 1.8 inches, Washington County at 2.8 inches, Frederick County at 2.6 inches, Prince Georges County at 2.5 inches, Carroll County at 1.7 inches, Northern Baltimore County at 2.4 inches, Howard County at 1.3 inches, Anne Arundel County at 2.2 inches, Montgomery County at 1.5 inches, Charles County at 2.2 inches, and St. Mary's County at 2.4 inches.

The lack of rainfall affected water levels along the Potomac River and the Chesapeake Bay. The flow of water past Washington D.C. hovered around 18% of average, and many new record low daily flows were recorded in upstream tributaries of the river. Unusually high proportions of river flow, 33%, were diverted out of the Potomac River into public water supplies during the month. The normal diversion rate is about 5%. Monthly flow rates of the Potomac River have been below average for the last 10 months. Flows in the Potomac were equal or slightly below minimum June daily mean flow values recorded during the 1980-82 drought. Many gaging stations reported streamflow at or below the 90 percent exceedence. The total flow into the Chesapeake Bay has been below average for the past 11 months. Freshwater inflow to the Chesapeake Bay in June was less than 74% of the previously recorded low set in 1964. The deficit of fresh water resulted in an increase of salinity levels in the bay and had an impact on animal and plant life. Several towns in Carroll County, including Mt. Airy imposed mandatory water restrictions at the beginning of the month. A popular swimming beach at Greenbriar State Park near Hagerstown remained closed because the water level remained well below the capacity of the 50 acre reservoir.

The lack of precipitation also continued to beat down crops and pastureland. Watering holes and irrigation sources continued to dry up, forcing many farmers to carry water to livestock. Hay producers reported less than half of their normal yields from their second cutting. Soybean planting came to a halt in many locations. Corn crops that should have been knee-high by mid month were only 1 foot tall. Some farmers had to reduce their herd sizes in order to stretch hay and water supplies. Tobacco, normally a drought-tolerant crop, suffered in the fields. 37% of pastureland, 18% of corn, and 21% of soybeans across the state were reported in poor or very poor condition. 59% of topsoil was reported as short or very short of moisture by the end of the month.

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

07	0800EST	0	1		Unseasonably Warm
09	2000EST				

High pressure centered over the Southeast U.S. caused air to downslope over the Appalachian Mountains, sending afternoon temperatures into the upper 90s to lower 100s. The heat, in combination with very humid air, resulted in afternoon heat indices between 100 and 110 degrees. Record high temperatures were set at Baltimore/Washington International Airport (BWI) on the 7th, 8th, and 9th. High temperatures on the 7th included 96 degrees at BWI, 98 degrees at the Maryland Science Center in downtown Baltimore, 95 degrees at Sharpsburg in Washington County, 97 degrees at Oxon Hill in Prince Georges County, and 100 degrees at Williamsport in Washington County. Highs on the 8th included 97 degrees at BWI, 98 degrees in downtown Baltimore, 97 degrees at Oxon Hill, and 95 degrees at Sharpsburg and Williamsport. Highs on the 9th included 96 degrees at BWI, 95 degrees in downtown Baltimore, 96 degrees at Cumberland, 98 degrees at Oxon Hill, 97 degrees at Bryans Road, 96 degrees as Sharpsburg, and 104 degrees at Williamsport. Nighttime lows dipped into the 70s, except the lower 80s in downtown Baltimore, making the overnight hours very uncomfortable for those without air conditioning. As a result of the heat, a pollution alert was issued for the Washington D.C. metropolitan area on the 7th. Air conditions reach "Code Red" levels two days in a row. Schools without air conditioning in the City of Baltimore, Prince Georges County, and Anne Arundel County cancelled classes. Area hospitals reported treating a handful of people for heat related illnesses, including a hospital in Anne Arundel County that admitted a patient for heat related dehydration. Several locations reported near record water and energy consumption during the period.

Anne Arundel 2 S Annapolis

14	1545EST	0	0	5K	Lightning
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Lightning strike damaged appliances inside a home.

Montgomery

2 SE Laytonsville

14	1600EST	0	1		Lightning
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Man struck by lightning while standing near a bulldozer.

Prince George'S

Camp Spgs to
Forestville

14	1634EST	0	0	20K	Thunderstorm Wind
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Trees and utility poles downed.

Storm Data and Unusual Weather Phenomena

June 1999

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

MARYLAND, Central

Prince George'S

Temple Hills	14	1637EST							
				0	0	50K			Lightning

Lightning strike started townhouse fire.

Anne Arundel

Annapolis	14	1710EST							
				0	0	5K			Thunderstorm Wind

Electrical wires downed.

An area of showers and thunderstorms moved across Central Maryland between 4:45 and 6:15 PM EDT. The strongest of these storms moved across Prince Georges and Anne Arundel County, producing winds in excess of 55 MPH, small hail, frequent lightning, and very heavy downpours. A government building near Auth Road in Camp Springs had a plate glass window on the northwest side of the structure blown out by high wind. Law enforcement reported several trees and power lines downed, mainly concentrated in the Camp Springs and Forestville area. 35 electrical wires were downed by fallen tree branches in the Baltimore and Annapolis area. 17,500 customers across Central Maryland and Southeast D.C. lost power as a direct result of the storm. Lightning was also a devastating part of the storm. One man standing near a bulldozer on Olney-Laytonsville Road in upper Montgomery County was struck by lightning around 5:00 PM EDT. He survived the strike but was in serious condition from hand and foot injuries. Lightning damaged electrical appliances in a home in the Hillsmere community, just south of Annapolis, around 5:35 PM EDT. Lightning also started a fire at a townhouse in Temple Hills around 5:37 PM EDT. Two brush fires were also ignited by lightning in Anne Arundel County. Heavy downpours from the storms were also a contributing factor in a fatal accident in Glen Burnie. A 21 year old man was killed around 5:30 PM EDT when his car hydroplaned on a curve and hit a tree on Interstate 895 near Ritchie Highway.

MARYLAND, Northeast

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

01		0000EST							
30		2359EST		0	0				Drought

The drought intensified during the month of June across the Maryland Eastern Shore. The drought warning for the state of Maryland remained in effect. On a county weighted average June monthly precipitation averaged between 2.0 and 2.2 inches and was only about 55 percent of normal. The lack of rain added to the longer term precipitation shortages. By the end of the month the Palmer Drought Severity Index rated the entire state as being in moderate to extreme drought.

Most crops were still in fair to good condition, but pastures needed additional moisture. About half the pastures in the state were rated as poor or worse. The one notable crop exception was soybeans. Because of the lack of rain, farmers stopped planting them and where they were planted, they were "in really big trouble". Farmers stated this was the earliest in the growing season that conditions were this dry in 50 years. By the end of the month about 2/3rds of the state's topsoil and 4/5ths of the state's subsoil was rated as being either short or very short of moisture.

The ongoing drought had other affects beyond agriculture. Several municipalities started implementing water restrictions including Centreville, Saint Michaels and Preston. On June 8th, the Maryland Department of Natural Resources (DNR) issued a warning of high fire danger across the Eastern Shore. About 35 acres have burned the first week of June. Overheated farm equipment and debris burning were the leading causes. The DNR suggested farm machines be equipped with fire tools or fire extinguishers to minimize the danger. About 200,000 young fish of all represented species were killed in two Chesapeake Bay tributaries in late June and early July. Low oxygen levels caused by drought induced low streamflows were blamed for the deaths.

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

07		0900EST							
09		1900EST		0	5				Excessive Heat

A large high pressure system over the southeastern United States pumped in a hot and humid air mass across the Delmarva Peninsula for three days. The hottest day was the 8th. A weak trough brought in slightly cooler and considerably drier air on the 9th, although high temperatures still reached around 90 degrees. A stronger backdoor cold front (it moved from north to south) brought in considerably cooler air into the region the evening of the 9th. The high temperature in Easton reached 95 degrees on the 7th and 98 degrees on the 8th, both making new daily high temperature records for the cooperative observation station. Highest temperatures reached during this hot spell included 98 degrees in Salisbury and 97 degrees at the Baltimore-Washington International Airport.

Some students became ill in Caroline County schools on the 7th. Authorities believed it was heat related. Students were dismissed early on the 8th in all schools that did not have air conditioning. Talbot County school districts cancelled all planned outdoor activities for the 8th.

MARYLAND, South

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

June 1999

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

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

MAZ015>016

Suffolk - Eastern Norfolk

07 1300EST 0 0 Record Heat

High pressure near Bermuda brought a southwest flow of hot and humid air to Massachusetts. At Logan International Airport in Boston, the high temperature of 97 degrees broke the previous record high of 92 degrees, which was set in 1925. At the Blue Hills Observatory in Milton, the high temperature of 93 degrees broke the previous record high of 93 degrees, which was also set in 1925.

Hampden County

West Springfield
Hampshire
Northampton

13 1402EST 0 0 Thunderstorm Wind (G50)

13 1417EST 0 0 Thunderstorm Wind (G50)

An isolated severe thunderstorm downed three 4-inch diameter limbs in West Springfield, at the intersection of Kings Highway and City View Avenue. The same storm also downed a few 2-inch diameter limbs and a power line on Florence Road in Northampton.

Essex County

Methuen
Essex County
Methuen
Norfolk County
Norfolk

23 1730EST 0 0 Hail (1.25)

23 1730EST 0 0 Thunderstorm Wind (G50)

23 1745EST 0 0 Hail (0.75)

Isolated severe thunderstorms moved across parts of Essex and Norfolk Counties. In Essex County, a severe thunderstorm downed trees and wires in Methuen, and also produced golf ball sized hail. In Norfolk County, another severe thunderstorm produced dime sized hail in Norfolk.

Hampshire

Northampton to
Belchertown
Hampden County
Westfield to
Springfield
Worcester County
Princeton

29 1519EST
1527EST 0 0 Lightning

29 1545EST
1734EST 0 0 Lightning

29 1612EST 0 0 Thunderstorm Wind (G50)

An isolated severe thunderstorm downed trees on Sterling Road in Princeton, and another tree downed by thunderstorm winds blocked Route 62. Other thunderstorms with frequent lightning caused scattered power outages in Hampshire and Hampden Counties. About 900 customers lost power. Belchertown was one of the hardest hit areas from lightning strikes.

MAZ015

Suffolk

30 2359EST 0 0 Record Dryness

At Logan International Airport in Boston, only a trace of precipitation fell during the month of June. This made June 1999 the driest June on record in Boston. The previous record was 0.23 inches, which was set in June, 1912. Records in Boston date back to 1872.

MASSACHUSETTS, West

MAZ001

Berkshire

07 1200EST
1700EST 0 0 Excessive Heat

On June 7, the season's second Bermuda High brought the first 90 degree weather to western Massachusetts. At the Albany International Airport it was the first official 90 degree temperature since August 16, 1997. The temperature did not stop there, but soared all the way to 95 degrees. This value tied the daily record for the date last set in 1925. The combination of heat and humidity produced heat indices close to 100 degrees in the Berkshires, during the hottest portion of the day. There were no unusual problems or power outages reported due to the excessive heat.

Berkshire County

Egremont Plain

07 1635EST 0 0 3K Thunderstorm Wind

An extremely unstable airmass on June 7 resulted in scattered severe thunderstorms late in the afternoon across Berkshire County. The thunderstorms produced wind gusts strong enough to bring down numerous trees along Rt. 23 in Egremont Plain.

MICHIGAN, East

Genesee County

3 SW Mt Morris to
Genesee

01 1720EST
2000EST 0 0 Flash Flood

Scattered thunderstorms developed in the afternoon over southeast Michigan, ahead of a cold front that was slowly moving south. A cluster of thunderstorms remained nearly stationary from 4 to 830 pm EDT across Mt Morris and Genesee Townships, as well as the

Storm Data and Unusual Weather Phenomena

June 1999

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

MICHIGAN, East

north side of the city of Flint. Radar estimated nearly 4 inches of rain fell, most of that in the first two and a half hours. The heaviest rain fell in the city of Mt Morris, where a spotter reported 3.3 inches of rain by 7 pm.

The resulting flash flooding closed numerous roads in the area, including Dort Highway, Pierson Road, Pasadena Avenue, Saginaw Road, and Clio Road. Several vehicles had to be rescued from high water at a railroad underpass at the junction of Pierson Road and Dort Highway.

MIZ069

Oakland

07	1300EST 1700EST			0	2				Excessive Heat
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An early summer heat wave brought temperatures in the upper 80s to lower 90s to southeast Michigan on the 6th through the 12th. The warmest temperatures were in the metro Detroit area. These readings approached record highs for those dates. One new record high was set, that being 91 degrees in Flint on the 10th. Two children overdid things while playing outside on the 7th, and were treated at a Pontiac hospital for heat exhaustion.

Livingston County

	Fowlerville	09	1640EST		0	0			Hail (1.00)
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Genesee County

	4 W Linden to Linden	09	1703EST 1709EST		0	0			Hail (1.25)
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Genesee County

	4 NW Fenton to Grand Blanc	09	1734EST 1744EST		0	0			Hail (1.75)
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Genesee County

	4 NW Fenton	09	1734EST		0	0			Thunderstorm Wind (G56)
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Genesee County

	Swartz Creek	09	1737EST		0	0			Hail (0.75)
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Genesee County

	Atlas to 2 S Davison	09	1752EST 1800EST		0	0	30K		Thunderstorm Wind (G60)
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Lapeer County

	1 E Lapeer	09	1835EST		0	0	5K		Thunderstorm Wind (G55)
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A warm and humid summertime airmass was present across southeast Michigan. A cluster of thunderstorms tapped the available instability and became severe as they crossed Livingston, Genesee, and Lapeer Counties.

These thunderstorms produced large amounts of hail early in their lifetimes. The largest hail report was of golfball sized hail from a spotter near Fenton. The thunderstorms evolved into damaging wind producers as they matured. Many large trees were downed from Grand Blanc, east to the city of Lapeer. In Atlas Township (Genesee County), a large building had part of its roof removed, and a trailer was overturned.

Huron County

	Sebewaing	10	1530EST		0	0			Hail (1.00)
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Oakland County

	3.5 NNE Farmington to Birmingham	10	1745EST		0	0	20K		Thunderstorm Wind (G55)
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Midland County

	Midland	10	1835EST		0	0			Hail (0.88)
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Midland County

	Sanford	10	1930EST		0	0			Hail (0.75)
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Midland County

	Midland	10	2000EST		0	0	3K		Thunderstorm Wind (G52)
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Midland County

	1 S Midland	10	2025EST		0	0	4K		Thunderstorm Wind (G52)
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Midland County

	Hope to 2.5 NW Midland	10	2117EST 2124EST		0	0			Hail (1.00)
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Midland County

	5 NE Midland	10	2131EST		0	0			Hail (0.75)
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It was another hot and humid day in southeast Michigan. Thunderstorms developed in the afternoon hours along the leading edge of the lake breeze boundaries, as they pushed inland from Saginaw Bay and Lake St Clair. The strongest storms during the late afternoon and evening produced very heavy rain and some hail. Relatively few storms produced strong wind gusts. A thunderstorm in southern Oakland County downed a few trees and power lines early in the evening, and a couple of cars were hit by falling trees.

Storm Data and Unusual Weather Phenomena

June 1999

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

MICHIGAN, East

During the evening, severe thunderstorms developed repeatedly over Midland County. Some locations within the county saw severe weather on multiple occasions during the evening. Again, most of the reports were of large hail, but a few trees and large limbs were downed as well. In addition, radar estimated over 5 inches of rainfall on the far west side of the city of Midland during the evening. Surprisingly, no significant flooding was reported - most likely due to antecedent dry conditions, and the mainly rural nature of the area where the heaviest rain fell.

Midland County

Sanford to 2 N Midland	11	1705EST 1715EST			0	0	10K	Thunderstorm Wind (G52)
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The warm and humid weather continued across the region. In fact, warm air aloft prevented thunderstorms from developing across most of southeast Michigan. However, thunderstorms did develop in western lower Michigan along the Lake Michigan lake breeze front in the afternoon. These storms moved northeast, reaching Midland County very late in the afternoon. Damaging wind gusts affected much of the county, which had been hit hard by severe thunderstorms the previous night. Large tree limbs were downed, mainly in a swath near US 10 from Sanford to just north of Midland.

Wayne County

Woodhaven	12	1245EST			0	0	5K	Thunderstorm Wind (G52)
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Macomb County

2 W Mt Clemens to 6 NW Mt Clemens	12	1425EST 1440EST			0	0	15K	Lightning
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Lightning struck several homes in Clinton and Macomb Townships. Bricks were torn off a chimney on one home, and an attic fire was started in another.

Macomb County

5 N Mt Clemens	12	1432EST 1440EST			0	0	4K	Thunderstorm Wind (G52)
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Macomb County

Memphis	12	1500EST			0	0		Hail (0.75)
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St. Clair County

3 S Emmett	12	1525EST			0	0	6K	Thunderstorm Wind (G52)
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Monroe County

Dundee	12	1534EST			0	0	3K	Thunderstorm Wind (G52)
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Monroe County

Dundee	12	1604EST			0	0	5K	Thunderstorm Wind (G52)
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Oakland County

Southfield	12	1625EST 2030EST			0	0	5K	Flash Flood
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Wayne County

Redford to Dearborn	12	1625EST 2030EST			0	0	25K	Flash Flood
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Monroe County

6 N Temperance	12	1640EST			0	0	5K	Thunderstorm Wind (G52)
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Wayne County

Redford	12	1640EST			0	0		Hail (1.00)
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Wayne County

Redford	12	1640EST			0	0	200K	Thunderstorm Wind (G65)
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Washtenaw

5 N Ypsilanti	12	1641EST			0	0		Hail (0.88)
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Oakland County

Royal Oak	12	1650EST			0	0	12K	Thunderstorm Wind (G52)
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Wayne County

Inkster to Dearborn	12	1655EST 1657EST			0	0	20K	Thunderstorm Wind (G56)
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Lenawee County

5 SW Adrian	12	1710EST			0	0	5K	Thunderstorm Wind (G52)
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Washtenaw

Ypsilanti	12	1720EST			0	0	10K	Lightning
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Lightning struck an apartment building and started a fire.

Genesee County

Flint	12	1745EST			0	1		Lightning
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Lightning struck a man as he was unloading groceries from his car. He was briefly hospitalized, but was not seriously hurt.

Storm Data and Unusual Weather Phenomena

June 1999

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

MICHIGAN, East

Yet another hot and humid day for southeast Michigan, producing an unstable atmosphere prone to thunderstorm development. The first thunderstorms developed early in the afternoon along lake breeze boundaries off of Lake Erie and Lake St Clair. Additional storms developed along the outflow boundaries from the initial thunderstorms, and things quickly snowballed from there.

Most of the severe thunderstorms produced either marginally severe hail, or damaging wind gusts that downed trees and power lines. The most widespread damage was in Redford, where two homes and several cars suffered extensive damage after being hit by toppled trees. Trees were also downed onto cars in Royal Oak. A swath of tree damage also occurred from Inkster to Dearborn. Sheriffs reported a 60 mph gust in Macomb Township, and a 65 mph gust in Inkster.

The same thunderstorm that produced severe weather in Redford also contributed to flash flooding there, and in the surrounding communities. About three inches of rain fell during the severe thunderstorm, with over five inches of rain for the event as a whole. This produced substantial urban flooding in Southfield, Redford, and Dearborn. Warren Avenue, Michigan Avenue, and Eight Mile Road were among the major highways that saw flooding. Many homes suffered basement flooding in this heavily urbanized area. Some side streets in Redford had standing water into the following day.

Monroe County

Monroe	13	1410EST		0	0	3K	Thunderstorm Wind (G56)
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Monroe County

1 E Ottawa Lake to Temperance	13	1436EST		0	0	20K	Thunderstorm Wind (G52)
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This was the last in a string of humid days, as a cold front dropped south across southeast Michigan that night. The atmosphere was still unstable enough to support a fifth straight day of severe weather. However, clouds covered much of the region for most of the day, limiting the available instability. Only in the far south, near the Ohio border, did substantial sunshine occur. It was here where the only severe thunderstorms of the day developed.

Once again, lake breezes played a role in initiating thunderstorms. This day, a lake breeze off of Lake Erie generated a severe thunderstorm that downed two trees in the city of Monroe. A trained spotter estimated 65 mph wind gusts with this storm. A second severe thunderstorm developed to the southwest soon after, downing numerous trees in Whiteford and Bedford Townships. One home was damaged when a tree fell on it. A Monroe County Sheriff estimated 60 mph winds in this area.

Shiawassee

Byron	28	2020EST		0	0	4K	Thunderstorm Wind (G52)
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Oakland County

Holly to 2 E Ortonville	28	2140EST		0	0	15K	Flash Flood
	29	0045EST					

St. Clair County

Sparlingville	28	2200EST		0	0	6K	Thunderstorm Wind (G52)
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A slow moving cold front was drifting southeast across Michigan, with a weak area of low pressure moving northeast along the front. These helped numerous thunderstorms develop during the evening and nighttime hours. Only a couple of these became severe, with trees and power lines downed in Byron and Sparlingville.

Training of thunderstorms occurred for a short time in the evening in northern Oakland County. A spotter measured 3.64 inches of rain from 845 pm to 1045 pm EDT in Ortonville. Runoff caused flash flooding in northern Oakland County, with several gravel roads washed out in rural areas, and some street flooding in the towns of Holly and Ortonville.

MICHIGAN, Extreme Southwest

Berrien County

Galien	02	0005EST		0	0	0	Thunderstorm Wind
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Several trees and power lines were blown down.

Berrien County

Galien	02	1205EST		0	0	0	Thunderstorm Wind
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Trees and power lines were reported blown down.

Cass County

Cassopolis	10	2125EST		0	0	5K	Thunderstorm Wind
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Tree fell onto house at Stone Lake in Cassopolis.

Berrien County

Berrien Spgs	11	1559EST		0	0	5K	Thunderstorm Wind
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Trees and power lines down in Berrien Springs.

Berrien County

New Buffalo	11	1559EST		0	0	5K	Thunderstorm Wind
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Trees and power lines down in New Buffalo reported by Berrien County sheriff.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, Extreme Southwest</u>									
Berrien County									
Sawyer	11	1559EST			0	0	5K		Thunderstorm Wind
Trees and power lines down in Sawyer reported by Berrien County sheriff.									
Hillsdale County									
Hillsdale to Jerome	11	2100EST			0	0	10K		Thunderstorm Wind
Trees and power lines down in northeast part of Hillsdale County.									
Branch County									
1 S Kinderhook	12	1800EST			0	0			Hail (0.88)
Branch County									
1 S Kinderhook	12	1800EST			0	0	10K		Thunderstorm Wind
SKYWARN spotter reported power lines downed on north side of Lake George. A three-foot diameter tree fell onto a garage. Parts of roofs also were damaged.									
Branch County									
Kinderhook	12	1800EST			0	0	2K		Thunderstorm Wind
SKYWARN spotter reported power lines and one tree down.									
Hillsdale County									
Hillsdale	12	1800EST			0	0	2K		Thunderstorm Wind
Power lines and a tree reported down.									
<u>MICHIGAN, North</u>									
Chippewa County									
Sault Ste Marie	02	1345EST			0	0			Flash Flood
Rainfall began late in the morning across eastern upper Michigan. Spotter reports and WSR-88D rainfall estimates indicated 2 to 5 inches of rain over eastern portions of the county. The bulk of the rain fell within a fairly short time frame (3 to 6 hours). Some roadways flooded and a few dirt roads washed out from Rudyard and Kinross northward along I-75 and M-129 to Sault Ste. Marie. Roadway flooding was also reported on Sugar Island. The only report of flood damage to property came from Sugar Island, where a garage floor had some standing water on it. The home suffered no monetary damage, and no businesses were affected.									
Manistee County									
1 E Manistee	06	1845EST			0	0			Thunderstorm Wind (G52)
Benzie County									
3 E Honor	06	1915EST			0	0			Thunderstorm Wind (G52)
Manistee County									
Wellston	06	1915EST			0	0			Thunderstorm Wind (G50)
Leelanau County									
Cedar	06	1925EST			0	0			Thunderstorm Wind (G50)
Trees Down									
Leelanau County									
2 E Leland	06	1928EST			0	0			Thunderstorm Wind (G50)
Wexford County									
Mesick	06	1930EST			0	0			Thunderstorm Wind (G50)
Trees down									
Grand Traverse									
Traverse City	06	1945EST			0	0			Thunderstorm Wind (G52)
Trees and power lines down									
Antrim County									
Alden	06	2013EST			0	0			Thunderstorm Wind (G50)
Charlevoix County									
Boyne Falls	06	2021EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Manistee County									
Pierport	06	2201EST			0	0			Thunderstorm Wind (G56)
Missaukee County									
Mc Bain	06	2226EST			0	0			Thunderstorm Wind (G50)
Grand Traverse									
Interlochen	06	2235EST			0	0			Thunderstorm Wind (G50)
Trees down									
A line of strong to severe thunderstorms passed out of Lake Michigan and brought severe winds to portions of northwest lower Michigan.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, North</u>									
Roscommon									
Houghton Lake Arpt	10	1406EST			0	0			Thunderstorm Wind (G51)
Presque Isle									
5 S Rogers City	10	1600EST			0	0			Thunderstorm Wind (G50)
Trees down on South Rogers Rd									
Alpena County									
7 W Lachine	10	1610EST			0	0			Thunderstorm Wind (G50)
Trees uprooted									
Otsego County									
Elmira	10	1800EST			0	0	3K		Lightning
Three horses and one pony were killed by lightning when the tree they were standing under was struck.									
Kalkaska County									
8 WNW Kalkaska	10	1907EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down									
Gladwin County									
Gladwin	10	2045EST			0	0			Hail (0.75)
Gladwin County									
3 SE Beaverton	10	2132EST			0	0			Thunderstorm Wind (G65)
Scattered strong thunderstorms throughout northern Michigan occurred during the afternoon and into the evening. A few of these storms produced severe wind gusts with one isolated report of severe hail. A tremendous amount of cloud to ground lightning strikes were also recorded.									
Roscommon									
Houghton Lake	11	1645EST			0	0	50K		Lightning
Roscommon									
Houghton Lake	11	1703EST			0	0			Thunderstorm Wind (G52)
Ogemaw County									
West Branch	11	2130EST			0	0			Lightning
Scattered strong to severe storms with tremendous lightning. Lightning strikes caused a house fire in the Houghton Lake area and a major outage of electricity and telephone service in West Branch									
Wexford County									
Cadillac	28	1910EST			0	0			Thunderstorm Wind (G56)
Billboard and power lines blown over									
Charlevoix County									
East Jordan	28	2005EST			0	0			Thunderstorm Wind (G52)
Emmet County									
3 NE Petoskey	28	2005EST			0	0			Thunderstorm Wind (G56)
Cheboygan									
Wolverine	28	2045EST			0	0			Thunderstorm Wind (G50)
Otsego County									
Johannesburg	28	2109EST			0	0			Thunderstorm Wind (G66)
Oscoda County									
3 NNE Luzerne	28	2205EST			0	0			Thunderstorm Wind (G52)
Alcona County									
Glennie	28	2240EST			0	0			Thunderstorm Wind (G50)
Many locations experienced wind gusts of 40 to 50 mph as two bands of storms passed through northern lower Michigan. Numerous severe thunderstorm warnings were issued where winds were forecast to surpass severe limits. Storms along the second band brought some of the strongest wind gusts and prompted a tornado warning for Oscoda County.									
<u>MICHIGAN, Upper</u>									
Gogebic County									
Ironwood	05	1900EST			0	0			Hail (1.00)
1.00 inch hail									
Iron County									
Crystal Falls	05	2015EST			0	0			Thunderstorm Wind (G60)
wind gusts to 70 mph...large trees down									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, Upper</u>									
Iron County									
Gaastra	05	2030EST			0	0			Thunderstorm Wind (G55)
		wind gusts to 60 mph...trees down							
Iron County									
Iron River	05	2030EST			0	0			Thunderstorm Wind (G55)
		wind gusts to 60 mph...trees down							
Menominee									
Spalding	05	2145EST			0	0			Hail (0.75)
		3/4 inch hail							
Menominee									
Menominee	06	0210EST			0	0			Thunderstorm Wind (G55)
		large trees down across highway 581							
Menominee									
Stephenson	06	0215EST			0	0			Thunderstorm Wind (G55)
		large trees down							
Delta County									
Nahma	06	0240EST			0	0			Thunderstorm Wind (G55)
		large trees down across highway 13							
Schoolcraft									
Steuben	06	0330EST			0	0			Thunderstorm Wind (G55)
		large trees down across highway 94							
Gogebic County									
Marenisco	06	1845EST			0	0			Thunderstorm Wind (G55)
		several trees down							
Gogebic County									
Watersmeet	06	1855EST			0	0			Thunderstorm Wind (G55)
		several trees down							
Dickinson County									
Hardwood	11	1630EST			0	0			Hail (1.75)
		golf ball sized hail							
Dickinson County									
Hardwood	11	1630EST			0	0			Thunderstorm Wind (G55)
		six inch diameter trees broken off							
Dickinson County									
Foster City	11	1637EST			0	0			Hail (1.25)
		1 1/4 inch hail							
Marquette County									
Watson	11	1700EST			0	0			Hail (2.50)
		egg sized hail							
Iron County									
Amasa	22	1330EST			0	0			Thunderstorm Wind (G55)
		several trees down							
<u>MICHIGAN, West</u>									
Allegan County									
Hamilton	02	0100EST			0	0	10K		Thunderstorm Wind
		Trees were downed by thunderstorm wind gusts estimated near 60 miles per hour.							
		The northern end of a Mesoscale Convective System diminished in intensity as it crossed Lake Michigan. However, as the storms reached the lakeshore counties, trees were downed by gusty thunderstorm winds at the intersection of the line of storms with an outflow boundary.							
Muskegon County									
Muskegon	06	2102EST			0	0	5K		Thunderstorm Wind
		Several 6 inch diameter tree limbs were downed by thunderstorm wind gusts in Muskegon.							
Lake County									
Baldwin	06	2142EST			0	0	10K		Thunderstorm Wind
		Trees were downed by thunderstorm wind gusts in Baldwin.							
		A line of thunderstorms crossed Lake Michigan and interacted with a pre-existing lake breeze boundary, resulting in downed tree limbs in Muskegon (Muskegon County) and several downed trees in Baldwin (Lake County).							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MICHIGAN, West									
Jackson County									
Rives Jct	09	0422EST			0	0			Hail (0.75)
0.75" hail was observed in Rives Junction, and dime sized hail covered the ground there.									
Ingham County									
Webberville	09	0440EST			0	0			Hail (0.75)
0.75" hail was observed by the Webberville Police Department. A weak upper air disturbance passing across southern Michigan triggered the development of severe thunderstorms that produced 3/4" diameter hail in Rives Junction (Jackson County) and Webberville (Ingham County).									
Montcalm County									
Howard City to Amble	10	1827EST 1833EST			0	0	20K		Thunderstorm Wind
A tree and several power lines were downed by gusty thunderstorm winds near Howard City. Power lines were also downed near Amble, and marble sized hail was observed as well.									
Van Buren County									
Paw Paw	10	1930EST			0	0	15K		Thunderstorm Wind
Tree limbs and power lines were downed in Paw Paw.									
Clare County									
Farwell	10	2013EST			0	0	15K		Thunderstorm Wind
Several trees were blown down and power lines were also downed in Farwell.									
Kent County									
Alaska to Rockford	10	2124EST 2135EST			0	0	30K		Thunderstorm Wind
Trees were downed in Alaska, just northeast of Grand Rapids, and also in Rockford. Several trees and power lines were also downed in the vicinity of Lowell, just east of Cannonsburg, and just northwest of Byron Center (all in Kent County). Thunderstorms developed across southwest Michigan on a lake breeze front in a very unstable air mass. The storms produced numerous reports of wind damage including downed trees and power lines, in addition to vivid lightning and very heavy rain.									
Newaygo County									
White Cloud to Big Prairie	11	1430EST 1437EST			0	0			Hail (0.75)
0.75" diameter hail was observed in White Cloud. 8 to 10 inch diameter limbs were downed by gusty thunderstorm winds near Trumbull Corners, just to the north of Big Prairie.									
Van Buren County									
Decatur	11	1433EST			0	0	10K		Thunderstorm Wind
Trees were downed by gusty thunderstorm winds in Decatur.									
Kent County									
Rockford	11	1435EST			0	0	10K		Thunderstorm Wind
1 foot diameter trees were downed by gusty thunderstorm winds near Algoma, just to the northwest of Rockford.									
Kalamazoo									
Kalamazoo	11	1437EST			0	0			Hail (0.75)
0.75" diameter hail was observed in Kalamazoo.									
Montcalm County									
Entrican	11	1524EST			0	0	10K		Thunderstorm Wind
Gusty thunderstorm winds blew down several trees in Entrican.									
Kent County									
Bowen	11	1535EST			0	0	10K		Thunderstorm Wind
18 inch tree limbs were downed by thunderstorm wind gusts in Bowne Center.									
Barry County									
Irving	11	1552EST			0	0	10K		Thunderstorm Wind
2 foot diameter trees were blown down by gusty thunderstorm winds in Irving. Thunderstorms developed across southern lower Michigan during the afternoon hours, in a very warm humid and unstable air mass out ahead of a cold front that was moving across the region. The first thunderstorms fired along a lake breeze boundary and moved slowly north. This activity produced several reports of gusty winds that brought down trees and tree limbs. There were also a couple of reports of 3/4 inch diameter hail.									
Gratiot County									
Sumner	13	1410EST			0	0	10K		Thunderstorm Wind
Downed trees and limbs were reported by law enforcement in Gratiot County.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, West</u>									
Allegan County									
Hamilton	13	2130EST			0	0	20K		Thunderstorm Wind
A roof was blown off a business in Hamilton by thunderstorm wind gusts.									
Kent County									
Rockford	13	2300EST			0	0	20K		Thunderstorm Wind
Several trees were uprooted by gusty thunderstorm winds and a possible small tornado in Rockford. A wave of low pressure developed and moved up along a frontal boundary that was draped across southern lower Michigan. The atmosphere was already moderately unstable in southern Michigan, so the wave of low pressure triggered the development of thunderstorms during the late evening hours. A thunderstorm with a bow echo developed in Allegan county, and wind gusts associated with it blew the roof off a business in Hamilton. As all of the activity moved northeast, thunderstorm wind gusts and a possible small tornado uprooted several trees in Rockford, in Kent County.									
Ottawa County									
Hudsonville	26	2315EST			0	0	2K		Thunderstorm Wind
A few large tree limbs were downed in the three block area of Hudsonville. An isolated severe thunderstorm occurred in Hudsonville, in Ottawa county, just after midnight, where several large tree limbs were downed by gusty thunderstorm winds.									
Ottawa County									
Port Sheldon	28	1921EST			0	0	10K		Hail (0.75)
3/4" hail was reported in Port Sheldon.									
Ottawa County									
Holland	28	1925EST			0	0	10K		Thunderstorm Wind
Numerous trees and power lines were downed by gusty thunderstorm winds in Holland.									
Allegan County									
Dorr	28	2010EST 2025EST			0	0	25K		Thunderstorm Wind (G52)
Wind damage from a thunderstorm included a snowmobile trailer that was blown across a yard, a fence that was blown down, and siding that was blown off a house. Several other homes and garages contained in the same subdivision sustained minor structural damage. One 2 car unattached garage was completely demolished. The damage path was 4,000 feet long and 200 feet wide. 3 trees were blown over.									
Ionia County									
Belding	28	2115EST			0	0	10K		Thunderstorm Wind
Several 6 to 8 inch diameter tree limbs were blown down. A cold front and surface wave of low pressure moving along it triggered the development of thunderstorms across southwest Michigan during the late afternoon and evening hours. A squall line developed across Muskegon, Ottawa, and Allegan counties. Thunderstorm wind gusts downed trees and power lines as well as produced 3/4" hail in Ottawa county. Wind gusts was also reported in Allegan and Ionia counties, with the most extensive damage was reported in Dorr, where 1 garage was demolished and minor structural damage was reported to several homes and garages.									
<u>MINNESOTA, Central and South Central</u>									
Yellow Medicine									
2 NE Canby	05	0200CST			0	0			Hail (0.75)
Kandiyohi County									
2 NW Prinsburg	05	0320CST			0	0			Hail (0.75)
Stearns County									
Paynesville	05	0330CST			0	0			Thunderstorm Wind (G60)
Barn destroyed. Winds estimated.									
Meeker County									
Litchfield	05	0345CST			0	0			Thunderstorm Wind (G50)
Large branches blown down. Estimated windspeed.									
Hennepin County									
Minneapolis	05	1507CST 1509CST			0	0			Hail (0.88)
Washington									
Hugo	05	1510CST			0	0			Hail (1.75)
Washington									
Mahtomedi	05	1511CST			0	0			Funnel Cloud
Hennepin County									
Maple Grove	05	1512CST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Hennepin County									
Minneapolis	05	1512CST 1514CST			0	0			Hail (1.50)
Carver County									
East Union	05	1520CST			0	0			Hail (1.50)
Washington									
2 SE Forest Lake	05	1520CST			0	0			Hail (2.75)
Scott County									
Shakopee	05	1529CST A few autos damaged.			0	0			Hail (2.75)
Scott County									
Shakopee	05	1529CST Lightning caused two house fires.			0	0			Lightning
Chisago County									
Shafer	05	1530CST			0	0			Hail (0.88)
Ramsey County									
White Bear Lake	05	1530CST			0	0			Hail (0.75)
Washington									
3 W Stillwater	05	1531CST			0	0			Funnel Cloud
Carver County									
Carver	05	1532CST Man slightly injured by bolt, taken to local hospital for observation.			0	1			Lightning
Scott County									
Savage	05	1535CST	0.1	25	0	0			Tornado (F0)
Scott County									
Shakopee	05	1535CST Car windows smashed, car bodies dented.			0	0			Hail (3.00)
Carver County									
Carver	05	1536CST			0	0			Hail (1.75)
Scott County									
Shakopee	05	1550CST			0	0			Hail (0.88)
Hennepin County									
Msp Flying Cloud Arp	05	1556CST			0	0			Hail (0.75)
Dakota County									
Eagan	05	1600CST			0	0			Hail (0.88)
Dakota County									
Inver Grove Heights	05	1650CST			0	0			Hail (1.00)
Washington									
Cottage Grove	05	1700CST 1701CST			0	0			Hail (1.00)
Washington									
Cottage Grove	05	1710CST			0	0			Hail (0.75)
Martin County									
5 NE Fairmont	05	1845CST			0	0			Thunderstorm Wind (G52)
Faribault County									
3 NW Elmore	05	1850CST			0	0			Thunderstorm Wind (G52)
Freeborn County									
Alden	05	1925CST Windows blown out of house. Estimated windspeed.			0	0			Thunderstorm Wind (G52)
Waseca County									
Matawan	05	1945CST			0	0			Thunderstorm Wind (G57)
Freeborn County									
Geneva	05	2005CST Large trees blown down. Wind damage also reported in Clarks Grove. Estimated windspeed.			0	0			Thunderstorm Wind (G52)
Steele County									
Blooming Prairie	05	2015CST			0	0			Thunderstorm Wind (G63)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Pine Is	05	2030CST			0	0			Thunderstorm Wind (G52)
Morrison County									
Flensburg	06	1334CST			0	0			Hail (0.75)
Morrison County									
4 NE Randall	06	1345CST			0	0			Hail (0.75)
Todd County									
6 E Bertha	06	1410CST			0	0			Hail (0.75)
Stearns County									
7 S Freeport	06	1430CST			0	0			Hail (0.75)
Wright County									
French Lake	06	1450CST			0	0			Hail (0.75)
Morrison County									
4 SE Bowlus	06	1455CST			0	0			Hail (1.00)
Faribault County									
Elmore	06	1510CST			0	0			Hail (1.00)
Sibley County									
6 E Arlington	06	1525CST			0	0			Hail (2.00)
Sibley County									
10 E Arlington	06	1525CST			0	0			Hail (2.00)
Carver County									
Mayer	06	1535CST			0	0			Hail (1.50)
Carver County									
2 S Norwood	06	1536CST			0	0			Hail (1.75)
									Strong thunderstorm winds also leveled barn near Hamburg.
Scott County									
8 SE Belle Plaine	06	1536CST			0	0			Hail (1.75)
Carver County									
Norwood	06	1537CST			0	0			Hail (2.75)
Le Sueur County									
2 S New Prague	06	1540CST			0	0			Thunderstorm Wind (G55)
									Trees blown down. Estimated windspeed.
Wright County									
Cokato	06	1552CST			0	0			Hail (0.75)
Wright County									
Monticello	06	1610CST			0	0			Thunderstorm Wind (G60)
									Large Tree toppled near home. Estimated wind speed.
Wright County									
3 W Monticello	06	1611CST			0	0			Hail (2.00)
									Strong winds also blew scaffolding down at high school.
Nicollet County									
Lafayette	06	1645CST			0	0			Hail (1.00)
Scott County									
Shakopee	06	1645CST			0	0			Thunderstorm Wind (G50)
									Estimated windspeed.
Stearns County									
13 SE St Cloud	06	1646CST			0	0			Hail (0.88)
Wright County									
Annandale	06	1647CST			0	0			Hail (0.88)
Wright County									
3 NW Monticello	06	1650CST			0	0			Hail (0.88)
Sherburne County									
Becker	06	1651CST			0	0			Hail (0.75)
Benton County									
1 S Sauk Rapids	06	1652CST			0	0			Hail (0.75)
									Occurred in portion of city of St. Cloud in Benton county.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Hennepin County									
New Hope	06	1656CST			0	0			Thunderstorm Wind (G50)
					Trees and power lines blown down near 32nd street and Boone. Estimated windspeed.				
Ramsey County									
St Paul	06	1658CST			0	0			Thunderstorm Wind (G60)
					Trees toppled on east side of St. Paul. Estimated windspeed.				
Mcleod County									
Glencoe	06	1700CST			0	0			Thunderstorm Wind (G55)
					Trees and power lines felled. Estimated windspeed.				
Washington									
Newport	06	1700CST			0	0			Thunderstorm Wind (G50)
					Trees blown down. Estimated windspeed.				
Goodhue County									
1 S Goodhue	06	1705CST			0	0			Thunderstorm Wind (G55)
					Squad car nearly blown off road. Estimated windspeed.				
Nicollet County									
Courtland	06	1705CST			0	0			Hail (1.75)
Nicollet County									
Courtland	06	1705CST			0	0			Thunderstorm Wind (G57)
Sibley County									
Gaylord	06	1705CST			0	0			Hail (0.75)
Mcleod County									
Hutchinson	06	1710CST			0	0			Thunderstorm Wind (G56)
					Trees and power lines blown down. Estimated windspeed.				
Mcleod County									
Silver Lake	06	1710CST			0	0			Thunderstorm Wind (G55)
					Trees and power lines toppled. Estimated windspeed.				
Goodhue County									
Red Wing	06	1720CST			0	0			Thunderstorm Wind (G50)
					Trees blown down. Estimated windspeed.				
Wright County									
3 E Maple Lake	06	1730CST			0	0			Thunderstorm Wind (G60)
					Roof blown off home. Estimated windspeed.				
Benton County									
6 E Foley	06	1734CST			0	0			Thunderstorm Wind (G50)
					Power lines blown down. Estimated windspeed.				
Kanabec County									
6 SE Mora	06	1740CST			0	0			Thunderstorm Wind (G55)
					Trees down. Estimated windspeed.				
Mille Lacs County									
5 N Milaca	06	1740CST			0	0			Thunderstorm Wind (G50)
					Estimated windspeed.				
Sherburne County									
Becker	06	1740CST			0	0			Thunderstorm Wind (G55)
					Large branches severed. Estimated windspeed.				
Sherburne County									
Becker	06	1751CST			0	0			Hail (0.75)
Kanabec County									
Mora	06	1800CST			0	0			Hail (0.75)
Kanabec County									
Mora	06	1811CST			0	0			Thunderstorm Wind (G55)
					Trees toppled. Estimated windspeed.				
Chippewa County									
3 NE Montevideo	08	0005CST			0	0			Hail (0.88)
Renville County									
3 N Sacred Heart	08	0015CST			0	0			Hail (0.75)
Renville County									
1 W Renville	08	0105CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Martin County									
Ceylon	08	1126CST			0	0			Hail (1.00)
Martin County									
Ceylon	08	1137CST			0	0			Hail (1.00)
Faribault County									
Elmore	08	1155CST			0	0			Hail (1.00)
Martin County									
4 SW East Chain	08	1215CST			0	0			Hail (1.00)
Faribault County									
6 W Elmore	08	1225CST			0	0			Hail (1.25)
		Crop damage reported.							
Faribault County									
4 SW Blue Earth	08	1240CST			0	0			Hail (1.25)
Faribault County									
1 W Frost	08	1300CST			0	0			Hail (1.75)
		Roads turned white due to extensive hail. Crop damage also reported.							
Faribault County									
4 S Frost	08	1315CST			0	0			Hail (1.00)
Yellow Medicine									
6 N Canby	08	2320CST			0	0			Hail (1.75)
		Hail punched holes in plexiglass porch sunroof.							
Swift County									
5 N Benson	08	2322CST			0	0			Hail (1.75)
Yellow Medicine									
6 N Canby	08	2335CST			0	0			Hail (1.75)
Swift County									
5 N Benson	08	2340CST			0	0			Hail (1.75)
Renville County									
Sacred Heart	08	2342CST			0	0			Hail (0.75)
Chippewa County									
9 E Big Bend City	08	2355CST			0	0			Hail (1.25)
Lac Qui Parle									
5 SW Madison	08	2359CST			0	0			Hail (1.75)
Douglas County									
Forada	09	0008CST			0	0			Hail (0.88)
Pope County									
15 S Starbuck	09	0010CST			0	0			Hail (1.25)
Pope County									
7 W Gilchrist	09	0020CST			0	0			Hail (1.00)
Douglas County									
1 W Kensington	09	0030CST			0	0			Hail (1.00)
Douglas County									
Kensington	09	0030CST			0	0			Hail (1.00)
Douglas County									
2 S Melby	09	0030CST			0	0			Thunderstorm Wind (G50)
		Hayshed collapsed. Estimated wind speed.							
Martin County									
Trimont	09	0045CST			0	0			Hail (1.50)
		Cornfield destroyed near Trimont. Estimated hail size.							
Stearns County									
Brooten	09	0049CST			0	0			Hail (0.75)
Lac Qui Parle									
4 NE Madison	09	0055CST			0	0			Hail (0.75)
Chippewa County									
Montevideo	09	0147CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Chippewa County									
3 N Montevideo	09	0155CST			0	0			Hail (0.75)
Kandiyohi County									
New London	09	0230CST			0	0			Hail (0.75)
Swift County									
5 NE De Graff	09	0230CST			0	0			Hail (1.50)
Renville County									
3 N Danube	09	0244CST			0	0			Hail (0.75)
Stearns County									
3 S Lake Henry	09	0300CST			0	0			Hail (0.75)
Watonwan County									
1 W Ormsby	09	1330CST			0	0			Thunderstorm Wind (G60)
			Large branches blocking driveway of citizen's home.						
Meeker County									
Grove City	09	1430CST			0	0			Hail (1.75)
			Residential windows smashed, home siding dented.						
Todd County									
2 W Eagle Bend	09	1520CST			0	0			Thunderstorm Wind (G65)
			Six inch diameter branches severed, 20 foot braced holding bin tossed into the air. Estimated windspeed.						
Sherburne County									
Big Lake	09	1635CST			0	0			Thunderstorm Wind (G60)
			Numerous trees and powerlines down. Estimated windspeed.						
Isanti County									
2 W Cambridge	09	1655CST			0	0			Thunderstorm Wind (G55)
			Trees toppled. Estimated windspeed.						
Mille Lacs County									
Princeton	09	1655CST			0	0			Thunderstorm Wind (G60)
			Numerous large branches and powerlines felled. Estimated Winds.						
Hennepin County									
Brooklyn Park	09	1657CST			0	0			Thunderstorm Wind (G55)
			Trees down. Estimated windspeed.						
Anoka County									
East Bethel	09	1710CST			0	0			Funnel Cloud
Martin County									
6 W Sherburn	09	1245CST			0	0			Hail (0.88)
Martin County									
5 W Fairmont	09	1355CST			0	0			Thunderstorm Wind (G52)
Redwood County									
3 N Sanborn	09	1405CST			0	0			Hail (0.75)
Kandiyohi County									
8 N Atwater	09	1420CST			0	0			Hail (1.00)
Redwood County									
2 W Sanborn	09	1423CST			0	0			Hail (0.88)
Stearns County									
3 W St Martin	09	1435CST			0	0			Hail (1.00)
Wright County									
3 N Annandale	09	1630CST			0	0			Thunderstorm Wind (G52)
Morrison County									
1 W Royalton	21	1812CST			0	0			Thunderstorm Wind (G55)
			Trees toppled onto power lines.						
Morrison County									
3 NW Royalton	21	1850CST			0	0			Hail (1.00)
Morrison County									
2 E Royalton	21	1902CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

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

MINNESOTA, Central and South Central

Morrison County

2 E Royalton 21 1920CST 0 0 Hail (1.75)
Farmer's entire field of corn flattened, ground white as snow from hail. Strong thunderstorm winds combined with wind driven hail to punch holes in house siding. Roof blown off pole building.

Blue Earth County

Mankato 22 1345CST 0 0 Thunderstorm Wind (G55)
Trees and power lines toppled. Estimated windspeed.

Hennepin County

Flying Cloud Arpt 22 1444CST 0 0 Thunderstorm Wind (G51)

Hennepin County

Bloomington 22 1445CST 0 0 Thunderstorm Wind (G55)
Trees down. Estimated windspeed.

Scott County

Prior Lake 22 1445CST 0 0 Thunderstorm Wind (G55)
Trees down. Estimated windspeed.

Anoka County

3 S Fridley 22 1500CST 0 0 Thunderstorm Wind (G50)
Trees down. Estimated Windspeed.

Anoka County

Coon Rapids 22 1510CST 0 0 Thunderstorm Wind (G50)
Trees down. Estimated Windspeed.

Dakota County

Rosemount 22 1525CST 0 0 Thunderstorm Wind (G55)
Tree branches 5 to 6 inches in diameter severed. Estimated windspeed.

Renville County

5 W Bechyn 26 1535CST 0 0 Hail (1.00)

Renville County

5 NE Bechyn 26 1545CST 0 0 Hail (1.00)

Kandiyohi County

3 E Blomkest 26 1555CST 0 0 Hail (1.50)

Morrison County

1 S Pierz 26 1645CST 0 0 Hail (0.88)

Renville County

1 SE Franklin 26 1720CST 0 0 Thunderstorm Wind (G50)
Trees down over power lines. Estimated Windspeed.

Stearns County

2 W Avon 26 1725CST 0.5 50 0 0 Tornado (F0)

Stearns County

5 N Kimball 26 1730CST 0 0 Thunderstorm Wind (G60)
Barn blown down. Estimated Windspeed.

Nicollet County

8 WSW Lafayette 26 1742CST 3 50 0 0 Tornado (F0)
Metal taken off outbuilding. Numerous trees down in river valley east of Fort Ridgely State Park.

Brown County

1 N Sleepy Eye 26 1750CST 0 0 Thunderstorm Wind (G55)
Tree down across portion of Highway 4. Estimated Windspeed.

Nicollet County

2 S St George 26 1750CST 0 0 Thunderstorm Wind (G55)
Trees toppled, estimated windspeed.

Brown County

New Ulm Arpt 26 1759CST 0 0 Thunderstorm Wind (G71)

Watonwan County

3 NE Darfur 26 1817CST 0 0 Hail (0.75)

Blue Earth County

6 W Lake Crystal 26 1830CST 0 0 Thunderstorm Wind (G55)
Trees felled. Estimated Windspeed.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Central and South Central</u>									
Watonwan County									
Darfur	26	1845CST			0	0			Hail (0.75)
Martin County									
6 N Trimont	26	1915CST			0	0			Hail (1.00)
Watonwan County									
1 S Odin	26	1915CST			0	0			Hail (1.00)
<u>MINNESOTA, Northeast</u>									
Cass County									
12 ESE Cass Lake	04	2212CST			0	0			Hail (0.88)
Itasca County									
20 NW Deer River	04	2213CST			0	0			Thunderstorm Wind (G50)
Six-inch diameter trees were blown down. Wind speed is estimated.									
Itasca County									
Deer River	04	2230CST			0	0			Hail (0.75)
Itasca County									
9 NW Deer River	04	2230CST			0	0			Thunderstorm Wind (G50)
Large trees were blown down. Wind speed is estimated.									
Itasca County									
12 S Grand Rapids	04	2240CST			0	0			Hail (0.75)
Itasca County									
6 NE Grand Rapids	05	0130CST			0	0			Thunderstorm Wind (G50)
Power lines and large branches were blown down. Wind speed is estimated.									
Itasca County									
2 S Cohasset	05	0158CST			0	0			Hail (0.75)
Cass County									
Hackensack	06	1435CST			0	0			Hail (0.75)
Cass County									
4 W Longville	06	1530CST			0	0			Hail (1.25)
Cass County									
East Gull Lake	06	1530CST			0	0			Hail (1.75)
Koochiching									
Northome	06	1535CST			0	0			Thunderstorm Wind (G52)
A weather spotter estimated thunderstorm winds to 60 mph.									
Itasca County									
2 S Ball Club	06	1606CST			0	0			Hail (1.00)
Crow Wing									
Deerwood	06	1609CST			0	0			Hail (1.75)
Crow Wing									
Deerwood	06	1610CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. Wind speed is estimated.									
Koochiching									
1.5 N Ray	06	1615CST			0	0			Hail (0.75)
Cass County									
4 E Hackensack	06	1615CST			0	0			Hail (2.00)
Crow Wing									
Crosby	06	1625CST			0	0			Thunderstorm Wind (G50)
Trees were blown down. Wind speed is estimated.									
Koochiching									
10 SW Little Fork	06	1645CST			0	0			Hail (1.00)
Koochiching									
Intl Falls Arpt	06	1717CST			0	0			Hail (0.75)
Aitkin County									
Aitkin	06	1719CST			0	0			Hail (1.00)
Koochiching									
5 E International Falls	06	1727CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northeast									
Aitkin County									
5 N Mc Gregor	06	1755CST			0	0			Hail (0.75)
Itasca County									
Bigfork	06	1806CST			0	0			Hail (0.75)
Pine County									
Hinckley	06	1905CST			0	0			Thunderstorm Wind (G55)
									Many large trees and a restaurant sign were blown down. The wind is estimated.
Crow Wing									
Baxter	09	1701CST			0	0			Thunderstorm Wind (G50)
									Trees were blown down. The wind speed is estimated.
Crow Wing									
Brainerd	09	1705CST			0	0			Thunderstorm Wind (G50)
									Trees and power lines were blown down. The wind speed is estimated.
Cass County									
Longville	09	1740CST			0	0			Thunderstorm Wind (G50)
									Many trees and power lines were blown down. The wind speed is estimated.
Itasca County									
12 W Togo	09	1740CST			0	0			Thunderstorm Wind (G61)
									Power lines and trees up to 18 inches in diameter were blown down. The witness estimated the winds to 70 mph.
Itasca County									
Togo	09	1742CST			0	0			Hail (0.88)
Cass County									
Whipholt	09	1745CST			0	0			Thunderstorm Wind (G50)
									Many trees were blown down. The wind speed is estimated.
Cass County									
Walker	09	1750CST			0	0			Thunderstorm Wind (G50)
									Many trees were blown down. The wind speed is estimated.
St. Louis County									
Nett Lake	09	1810CST			0	0			Hail (0.75)
Koochiching									
27 SE Little Fork	09	1810CST			0	0			Hail (1.50)
									Inch and a half hail was reported near Big Point on Nett Lake, about 2 miles west of the community of Nett Lake.
Koochiching									
27 SE Little Fork	09	1810CST			0	0			Thunderstorm Wind (G52)
									A retired National Weather Service employee estimated thunderstorm winds to 60 mph 2 miles west of Nett Lake.
Itasca County									
2.5 W Warba to 1 WNW Warba	09	1810CST 1815CST	2	50	0	0			Tornado (F0)
									A weak, short-lived tornado knocked down at least 30 to 40 trees on the west side of Shallow Lake. It also caused minor damage to residences and a boat dock. There were three confirmed sightings of the tornado.
Itasca County									
Grand Rapids	09	1818CST			0	0			Thunderstorm Wind (G50)
									Trees and power lines were blown down. The wind speed is estimated.
Itasca County									
Squaw Lake	09	1820CST			0	0			Thunderstorm Wind (G50)
									Trees were blown down. The wind speed is estimated.
Itasca County									
15 N Deer River	09	1825CST			0	0			Thunderstorm Wind (G61)
									Many small buildings were blown down. A tree was blown down on a pickup truck.
Itasca County									
Blackberry	09	1835CST			0	0			Thunderstorm Wind (G50)
									Trees were blown down. The wind speed is estimated.
St. Louis County									
Hibbing	09	1910CST			0	0			Thunderstorm Wind (G50)
									Trees were blown down. The wind speed is estimated.
Koochiching									
Ray	09	1943CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Northeast</u>									
St. Louis County									
Hoyt Lakes	09	2012CST			0	0			Hail (0.75)
Lake County									
45 N Little Marais	09	2122CST			0	0			Thunderstorm Wind (G50)
Trees were blown down along a 3/4 mile length of the Kekekabic Trail. The wind speed is estimated.									
St. Louis County									
Alborn	22	1750CST			0	0			Thunderstorm Wind (G50)
Trees were blown down. The wind speed is estimated.									
St. Louis County									
Duluth	22	1800CST			0	0			Thunderstorm Wind (G50)
Large trees were blown down. The wind speed is estimated.									
Koochiching									
International Falls	25	1928CST			0	0			Thunderstorm Wind (G52)
A witness estimated thunderstorm gusts to 60 mph.									
Cass County									
3 NE Walker	26	0846CST			0	0			Hail (0.75)
Itasca County									
Bovey	26	1400CST			0	0			Hail (0.75)
Itasca County									
4 N Grand Rapids	26	1400CST			0	1			Lightning
Lightning struck a pavilion in Gunn Park, knocking one juvenile male unconscious. Several other people were knocked to the ground. No injuries were reported to be severe. The time is approximate.									
St. Louis County									
Hibbing	26	1425CST			0	0			Thunderstorm Wind (G50)
Street signs were blown down. The wind speed is estimated.									
Aitkin County									
Hill City	26	1723CST			0	0			Thunderstorm Wind (G50)
Trees were blown down. The wind speed is estimated.									
St. Louis County									
Cook	30	1645CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down. The wind speed is estimated.									
<u>MINNESOTA, Northwest</u>									
Marshall County									
2.5 NE Warren	04	0530CST			0	0			Hail (0.75)
Pennington									
High Lndg	04	1547CST			0	0			Hail (1.00)
Polk County									
Gully	04	1651CST 1653CST			0	0			Hail (1.00)
Norman County									
15 NW Ranum	04	1703CST			0	0			Hail (1.00)
Polk County									
Erskine	04	1720CST			0	0			Hail (0.75)
Polk County									
Mc Intosh	04	1742CST 1755CST			0	0	50K		Hail (3.00)
Many vehicles were dented in McIntosh.									
Polk County									
Gully	04	1815CST			0	0			Hail (0.75)
Clearwater									
Bagley	04	1834CST			0	0			Hail (0.75)
Clearwater									
Clearbrook	04	1835CST			0	0			Hail (0.75)
Polk County									
2 E Fosston	04	1925CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Beltrami County									
Bemidji to 10 N Bemidji	04	1940CST 2200CST			0	0	50K		Flash Flood
									Rapid flooding washed out a driveway and flooded several roads.
Norman County									
Ada	04	1945CST			0	0			Hail (0.75)
Beltrami County									
Tenstrike	04	1949CST			0	0			Hail (0.75)
Norman County									
11 E Ada	04	2010CST			0	0	0.50K		Thunderstorm Wind
									Several trees were knocked down near Ada.
Beltrami County									
Blackduck	04	2012CST			0	0			Hail (0.88)
Beltrami County									
3 N Bemidji	04	2054CST			0	0			Hail (0.88)
Beltrami County									
8 N Bemidji	04	2105CST			0	0			Hail (0.75)
Beltrami County									
Tenstrike	04	2113CST			0	0			Hail (0.75)
Clay County									
Ulen	04	2212CST			0	0			Hail (0.75)
Mahnomen									
16 E Waubun	04	2245CST			0	0			Hail (0.88)
Otter Tail County									
5 NW Ottertail	04	2250CST			0	0			Hail (0.75)
Clearwater									
Zerkel	04	2327CST			0	0			Hail (0.75)
Hubbard County									
4 W Becida	04	2329CST			0	0			Hail (0.75)
Clearwater									
2 SE Lake Itasca	04	2335CST			0	0			Hail (0.75)
Hubbard County									
Laporte	05	0015CST 0020CST			0	0			Hail (0.75)
									Hail covered the ground.
Grant County									
Barrett	05	0145CST			0	0	5K		Thunderstorm Wind
									Powerlines were blown down in the thunderstorm winds.
Roseau County									
Greenbush	06	1315CST			0	0			Hail (0.75)
Roseau County									
6 NW Badger	06	1400CST	0.5	25	0	0			Tornado (F0)
Roseau County									
10 N Greenbush	06	1405CST			0	0			Hail (2.75)
Roseau County									
Greenbush	06	1410CST			0	0			Hail (2.00)
Roseau County									
6 NW Greenbush	06	1410CST	0.2	25	0	0			Tornado (F0)
Roseau County									
9 NW Badger	06	1420CST	0.5	25	0	0			Tornado (F0)
Marshall County									
Grygla	06	1450CST			0	0			Hail (1.00)
Roseau County									
Roseau	06	1452CST			0	0			Hail (1.00)
Beltrami County									
Fourtown	06	1509CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Beltrami County									
4 SE Blackduck	06	1510CST			0	0			Hail (1.00)
Beltrami County									
2 E Fourtown	06	1520CST			0	0			Hail (1.75)
Roseau County									
Roosevelt	06	1549CST			0	0			Hail (0.75)
Roseau County									
6 E Warroad	06	1605CST			0	0			Hail (1.25)
Lake Of The									
45 NW Baudette	06	1610CST			0	0			Thunderstorm Wind (G52)
Lake Of The									
23 NW Baudette	06	1611CST			0	0			Hail (1.25)
Lake Of The									
44 NW Baudette	06	1625CST			0	0			Hail (1.00)
Lake Of The									
44 NW Baudette	06	1625CST			0	0			Hail (1.00)
Kittson County									
Karlstad	06	1630CST			0	0			Hail (0.75)
Kittson County									
5 NE Hallock	06	1930CST			0	0			Hail (0.75)
Clay County									
Barnesville	09	0120CST			0	0	10K		Thunderstorm Wind
		A tree was blown over onto a house.							
Otter Tail County									
Fergus Falls	09	0135CST			0	0	25K		Thunderstorm Wind
		An office building in Fergus Falls lost its roof in the strong wind and a dugout at the community college was wrecked. Several trees were also blown down.							
Kittson County									
Hallock	09	0214CST			0	0			Hail (0.75)
Marshall County									
Warren	09	0345CST 0349CST			0	0	75K		Thunderstorm Wind (G52)
		A roof was blown off a building in Warren and a greenhouse was destroyed. A tree was also blown over on a house and three mobile homes sustained damage.							
Norman County									
Ada	09	0345CST			0	0	0.50K		Thunderstorm Wind
		Trees were blown over in Ada. A power pole was also blown over west of town, knocking out power to the western half of the county for 7 hours.							
Polk County									
4 NW Angus	09	0345CST			0	0	1K		Thunderstorm Wind
		15 large spruce trees were flattened by the wind.							
Polk County									
2 NE Sherack	09	0345CST			0	0	20K		Thunderstorm Wind
		Windows were blown out of a house and a hayshed was destroyed.							
Polk County									
5 NW Tabor	09	0345CST			0	0	0.50K		Thunderstorm Wind
Polk County									
4 NE Tabor	09	0345CST			0	0	15K		Thunderstorm Wind
		A barn roof was blown off.							
Polk County									
1 NE Tabor	09	0345CST			0	0	30K		Thunderstorm Wind
		A quonset building was blown down.							
Polk County									
Sherack	09	0348CST			0	0	20K		Thunderstorm Wind
		A grain bin was destroyed in the wind.							
Kittson County									
Lancaster	09	0430CST			0	0	0.50K		Thunderstorm Wind
		Trees were blown down in Lancaster.							

Storm Data and Unusual Weather Phenomena

June 1999

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									
Kittson County									
Karlstad	09	0440CST			0	0			Thunderstorm Wind (G52)
The roof on an apartment building was lifted up 4 feet before settling back down. Numerous trees were blown down.									
Marshall County									
Strandquist	09	0445CST			0	0	0.50K		Thunderstorm Wind
Roseau County									
Greenbush	09	0450CST			0	0	0.50K		Thunderstorm Wind
Becker County									
5 SW Ogema	09	1409CST			0	0			Hail (1.00)
Clay County									
7 NE Ulen	09	1420CST			0	0			Hail (0.75)
Norman County									
3 NW Faith	09	1450CST			0	0			Hail (0.75)
Mahnomen									
Bejou	09	1455CST			0	0			Hail (0.88)
Otter Tail County									
5 S Fergus Falls	09	1500CST	0.5	25	0	0			Tornado (F0)
Mahnomen									
4 NE Waubun	09	1513CST			0	0			Hail (1.75)
Otter Tail County									
4 S Dalton	09	1517CST	0.5	25	0	0			Tornado (F0)
A touchdown occurred at South Ten Mile Lake, causing minor damage. A 16 foot boat and trailer were flipped over, shingles were stripped off roofs, and a grain bin was moved off its foundation.									
Mahnomen									
1 SE Mahkonce	09	1546CST			0	0			Hail (0.75)
Red Lake County									
7 NW Oklee	09	1550CST			0	0			Hail (1.00)
Red Lake County									
Plummer	09	1553CST			0	0			Hail (1.75)
Clearwater									
8 W Zerkel	09	1600CST			0	0			Hail (0.75)
Red Lake County									
Oklee	09	1610CST			0	0			Hail (0.75)
Otter Tail County									
Battle Lake	09	1615CST			0	0			Hail (1.00)
Otter Tail County									
Battle Lake	09	1615CST			0	0	5K		Thunderstorm Wind
A large tree branch was blown over onto a garage.									
Clearwater									
2 W Alida	09	1635CST			0	0			Hail (0.75)
Beltrami County									
2 E Tenstrike	09	1645CST			0	0			Hail (0.75)
Hubbard County									
Becida	09	1647CST			0	0			Hail (1.00)
Beltrami County									
5 SW Bemidji	09	1655CST			0	0			Hail (0.75)
Beltrami County									
2 E Tenstrike	09	1720CST			0	0			Hail (0.75)
Beltrami County									
Tenstrike	09	1745CST			0	0			Hail (0.75)
Hubbard County									
2 SW Guthrie	09	1745CST			0	0			Hail (0.75)
Polk County									
East Grand Forks	20	1500CST 1700CST			0	0	20K		Urban/Sml Stream Fld
A thunderstorm complex converged over the greater Grand Forks area, producing 1 to 3 inches of rain in about an hour. Several roads and intersections were flooded.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Northwest</u>									
Kittson County									
5 W Halma	25	1611CST 1615CST			0	0			Hail (1.00)
Roseau County									
Roseau	25	1630CST			0	0			Hail (0.75)
Roseau County									
Fox	25	1645CST			0	0			Hail (0.75)
Kittson County									
5 W Lake Bronson	25	1655CST			0	0			Hail (1.00)
Roseau County									
Badger	25	1717CST			0	0			Hail (1.00)
Roseau County									
2 N Wannaska	25	1739CST			0	0			Hail (0.88)
Roseau County									
6 SE Roseau	25	1745CST			0	0			Hail (1.00)
Roseau County									
7 SE Warroad	25	1745CST			0	0			Hail (0.88)
Lake Of The									
5 N Pitt	25	1758CST			0	0	3K		Thunderstorm Wind
									Many trees were blown down, one falling on a storage shed.
Lake Of The									
Williams	25	1800CST			0	0			Hail (0.75)
Roseau County									
Roseau	25	1805CST			0	0	10K		Flash Flood
									The Polaris snowmobile factory in Roseau was flooded by the heavy rain.
Roseau County									
20 SW Roseau	25	1830CST			0	0	0.50K		Thunderstorm Wind
									Large trees were blown down.
Marshall County									
Strandquist	25	2255CST			0	0	5K		Thunderstorm Wind
									12 telephone poles were downed along Highway 59 from Strandquist to 3 miles south of Karlstad.
Marshall County									
3 NW Strandquist	25	2255CST			0	0	15K		Thunderstorm Wind
									Strong winds tipped over a grain dryer, ripped a steel quonset storage shed from its foundation, and tossed a hay ring a half mile.
Marshall County									
5 NW Strandquist	25	2255CST			0	0	2K		Thunderstorm Wind
									12 large oak trees were flattened by the wind.
Marshall County									
10 N Alvarado	25	2330CST			0	0	1K		Thunderstorm Wind
									Several power poles were damaged by the wind.
Polk County									
20 SE Crookston	25	2355CST			0	0	0.50K		Thunderstorm Wind
									Several large trees were blown down.
Beltrami County									
Bemidji	26	0125CST			0	0	20K		Thunderstorm Wind
									Strong winds blew over 4 interior block walls at the construction site for the new Bemidji High School. The walls were tethered to the ground with cables.
Roseau County									
20 SW Roseau	26	0130CST			0	0	0.50K		Thunderstorm Wind
									Trees were downed by the wind.
<u>MINNESOTA, Southeast</u>									
Mower County									
Le Roy	05	1910CST			0	0	50K		Thunderstorm Wind (G54)
Mower County									
2 N Lansing	05	2020CST			0	0			Thunderstorm Wind (G52)
Dodge County									
2 E Kasson	05	2028CST			0	0	20K	20K	Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Dodge County									
Kasson	05	2035CST			0	0	25K		Thunderstorm Wind (G52)
Olmsted County									
Rochester Arpt	05	2041CST			0	0			Thunderstorm Wind (G51)
Wabasha County									
Elgin	05	2045CST			0	0			Thunderstorm Wind (G52)
Mower County									
Grand Meadow	05	2100CST			0	0			Thunderstorm Wind (G52)
Wabasha County									
Elgin	05	2100CST			0	0	40K	35K	Thunderstorm Wind (G61)
Wabasha County									
Elgin	05	2102CST			0	0	60K	50K	Thunderstorm Wind (G68)
Olmsted County									
Rochester	05	2110CST			0	0	100K		Thunderstorm Wind (G55)
Mower County									
Le Roy	05	2135CST			0	0	15K		Thunderstorm Wind (G52)
Winona County									
10 S Winona	05	2137CST			0	0	3K		Thunderstorm Wind (G52)
Fillmore County									
Fountain	05	2147CST			0	0			Hail (0.75)
Winona County									
Hart	05	2208CST			0	0			Hail (0.75)
Fillmore County									
1 W Rushford	05	2220CST			0	0	20K		Hail (1.00)
Spotters and law enforcement officials reported hail as large as golfballs, while winds gusted as high as 78 mph, downing numerous trees and power lines. A couple of farms near Elgin (Wabasha County) had extensive roof damage to barns and out-buildings.									
Mower County									
2 N Lyle	06	1615CST			0	0	30K	25K	Thunderstorm Wind (G51)
Dodge County									
2 E Kasson	06	1640CST			0	0		35K	Thunderstorm Wind (G52)
Olmsted County									
Byron	06	1642CST			0	0	25K	30K	Thunderstorm Wind (G60)
Olmsted County									
2 N Rochester	06	1648CST			0	0	25K		Thunderstorm Wind (G54)
Olmsted County									
Stewartville	06	1648CST			0	0	20K		Thunderstorm Wind (G52)
Olmsted County									
Rochester	06	1649CST			0	0	70K		Thunderstorm Wind (G56)
Olmsted County									
Rochester	06	1651CST			0	0	45K		Thunderstorm Wind (G52)
Wabasha County									
2 S Elgin	06	1657CST			0	0	15K		Thunderstorm Wind (G52)
Winona County									
Utica	06	1710CST			0	0	15K		Thunderstorm Wind (G54)
Fillmore County									
Preston	06	1719CST			0	0		30K	Thunderstorm Wind (G52)
Mower County									
Le Roy	06	1915CST			0	0	50K	35K	Thunderstorm Wind (G61)
Mower County									
3 S Grand Meadow	06	1933CST			0	0	35K		Thunderstorm Wind (G61)
Fillmore County									
1 W Spring Vly	06	1934CST			0	0	30K		Thunderstorm Wind (G56)
Fillmore County									
Spring Vly	06	1935CST			0	0	25K		Thunderstorm Wind (G61)
Fillmore County									
9 E Spring Vly	06	1945CST			0	0		40K	Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1999

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

Preston 06 1952CST 0 0 15K **Thunderstorm Wind (G55)**

Winona County

Ridgeway 06 2030CST 0 0 5K **Thunderstorm Wind (G55)**

Wind gusts as high as 70 mph knocked down numerous trees and power lines. Several farms in the Le Roy, Lyle and Adams area (Mower County) suffered damage when barns and machine sheds collapsed due to the near hurricane-force winds.

Fillmore County

1 W Chatfield 08 1139CST 0 0 **Hail (0.75)**

Fillmore County

Preston 08 1145CST 0 0 20K **Hail (0.75)**

Fillmore County

Peterson 08 1203CST 0 0 30K **Hail (1.00)**

Houston County

Caledonia 08 1240CST 0 0 15K **Hail (0.88)**

Hail up to an inch in diameter was reported by spotters and law enforcement officials.

MINNESOTA, Southwest

Nobles County

Bigelow 08 1232CST 0 0 **Hail (0.75)**

Lincoln County

Arco 08 2209CST
2215CST 0 0 **Hail (1.00)**

Pipestone County

Ruthton 08 2225CST 0 0 **Hail (1.75)**

Lincoln County

Tyler 08 2228CST 0 0 **Hail (0.75)**

Lyon County

5 SW Russell 08 2258CST 0 0 **Hail (1.00)**

Lyon County

Minneota 08 2333CST 0 0 **Hail (0.75)**

Jackson County

2 N Petersburg 09 1308CST 0 0 **Thunderstorm Wind (G52)**

Cottonwood

9 NE Storden 09 1415CST 0 0 5K **Thunderstorm Wind (G52)**

Thunderstorm winds caused tree damage.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

Traverse County

Browns Vly 05 0115CST 0 0 **Thunderstorm Wind (G52)**

Big Stone County

Ortonville 05 0130CST 0 0 **Thunderstorm Wind (G70)**

Winds gusting to 80 mph destroyed a barn and four grain bins near Ortonville.

Traverse County

2.5 E Tintah 21 1330CST 0 0 **Hail (0.88)**

MISSISSIPPI, Central

Sunflower County

Ruleville 02 0140CST 0 0 1K **Thunderstorm Wind**

Several large tree limbs were blown down.

Leflore County

Greenwood 02 0200CST 0 0 100K **Thunderstorm Wind**

Several stores in a shopping center received substantial damage in the form of broken windows and torn roofing.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSISSIPPI, Central</u>									
Adams County									
Natchez	06	1515CST			0	0	3K		Thunderstorm Wind
			Several trees were blown down.						
Lauderdale									
3 S Meridian	10	1750CST			0	0			Hail (0.88)
Covington County									
Collins	11	1305CST			0	0	10K		Thunderstorm Wind
			Power lines were blown down.						
Smith County									
Mize	25	1355CST			0	0	15K		Thunderstorm Wind
			Several trees and power lines were blown down.						
<u>MISSISSIPPI, North</u>									
Alcorn County									
Corinth	03	1910CST 1915CST			0	0	0.01K		Hail (0.75)
Alcorn County									
Glens to Jacinto	03	1925CST 1935CST			0	0	0.02K		Hail (0.75)
Tishomingo									
Burnsville	03	1935CST 1940CST			0	0	10K		Thunderstorm Wind
			One house suffered minor roof damage. Several large trees were blown down.						
Itawamba County									
Fairview	10	1250CST 1255CST			0	0	0.05K		Hail (0.88)
Union County									
New Albany	24	1200CST 1500CST			0	0	25K		Flash Flood
			Numerous roads were flooded as over 5 inches of rain fell in 90 minutes. Several homes and businesses and homes had water inside them.						
Chickasaw County									
Houston	27	1100CST 1400CST			0	0	1K		Flash Flood
			Over three inches of rain fell in the Houston area causing Houlika Creek to overflow its banks. Several roads were flooded in the area.						
Calhoun County									
Calhoun City	28	1500CST 1800CST			0	0	1K		Flash Flood
			Heavy rains produced flash flooding in the southern part of Calhoun City. One home was surrounded by water.						
MSZ010									
Coahoma									
	29	2000CST			0	0	10K		High Wind
			A 4,000-seat gym and auditorium on the campus of Coahoma Community College in Clarksdale was damaged by high winds.						
<u>MISSISSIPPI, South</u>									
Pike County									
Progress	10	1750CST			0	0	0		Hail (0.88)
Pike County									
Mc Comb	10	1750CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm wind gusts blew down several trees.						
Harrison County									
1 S Gulfport	25	1112CST			0	0	0		Waterspout
			A large waterspout developed just offshore the coast of Gulfport and Biloxi area.						
Amite County									
3 S Liberty	25	1200CST			0	0	10K		Thunderstorm Wind
			Thunderstorm wind gusts blew down several trees onto a mobile home.						
<u>MISSISSIPPI, Southeast</u>									
George County									
Benndale	08	1540CST 1541CST			0	0	4K		Thunderstorm Wind (G50)
			Trees and power lines were blown down along State Highway 57 just south of Benndale.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Southeast									
George County									
5 W Lucedale	08	1625CST			0	0			Hail (0.75)
Dime size hail was reported along State Highway 26, west of Lucedale.									
MISSOURI, East									
Marion County									
Palmyra	01	1457CST			0	0			Hail (1.00)
The county Sheriff reported 1 inch hail in Palmyra.									
Cole County									
Brazito	01	1540CST			0	0			Hail (1.00)
The county Sheriff reported 1 inch hail and 50 mph wind gusts in Brazito.									
Osage County									
Linn	01	1638CST			0	0			Hail (0.88)
The county Sheriff reported nickel size hail around Linn.									
Lincoln County									
Troy	01	1715CST			0	0			Thunderstorm Wind (G55)
Lincoln County									
3 E Troy	01	1720CST			0	0			Hail (0.88)
Storm spotters reported nickel size hail along with trees and power lines down from thunderstorm wind gusts.									
Crawford County									
2.5 NNW Steelville to 2.7 NNW Steelville	01	1805CST	0.2	75	0	0	1K		Tornado (F0)
A short-lived tornado struck along Birds Nest Road just north of Steelville. About a dozen trees were downed and one home suffered minor damage to the roof and garage.									
St. Louis County									
Clayton	01	1835CST			0	0			Thunderstorm Wind (G55)
St. Louis County									
Fenton	01	1835CST			0	0			Thunderstorm Wind (G55)
Thunderstorm wind gusts downed a few trees in the Fenton area. Wind gusts estimated around 60 mph downed trees and power lines in Clayton.									
Clark County									
5 N Kahoka	04	1410CST			0	0			Thunderstorm Wind (G52)
Storm spotters reported trees down north of Kahoka.									
Clark County									
4 W Kahoka	04	1430CST			0	0			Thunderstorm Wind (G55)
Storm spotters reported trees and power lines down.									
Scotland County									
2 S Memphis	04	1455CST			0	0			Hail (1.00)
The county Sheriff reported 1 inch hail south of Memphis.									
Clark County									
2 S Kahoka	04	1525CST			0	0			Hail (1.00)
The county Sheriff reported 1 inch hail just south of Kahoka.									
Lewis County									
Williamstown	04	1535CST			0	0			Hail (2.50)
Tennis ball size hail was reported near Williamstown.									
Lewis County									
Canton	04	1545CST			0	0			Hail (0.75)
Lewis County									
Canton	04	1545CST			0	0			Hail (1.00)
Storm spotters reported hail from 3/4 to 1 inch in diameter along with 50 to 55 mph winds.									
Lewis County									
Monticello	04	1545CST			0	0			Hail (0.75)
The county Sheriff reported 3/4 inch hail.									
Lewis County									
4 W Canton to 3.5 WNW Canton	04	1545CST 1546CST	0.5	50	0	0			Tornado (F0)
A brief tornado formed west of Canton on Route 16. One home suffered roof damage and a barn was damaged. Several large trees									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, East									
									were also downed.
St. Louis County									
Ferguson	04	1750CST			0	0			Thunderstorm Wind (G55)
St. Louis County									
Spanish Lake	04	1805CST			0	0			Thunderstorm Wind (G55)
									Storm spotters reported trees down across north St. Louis County.
Clark County									
Kahoka	06	1400CST			0	0			Thunderstorm Wind (G53)
Clark County									
4 NE Kahoka	06	1400CST			0	0			Thunderstorm Wind (G53)
									Thunderstorm winds blew down trees across Route C and in Kahoka.
Franklin County									
Washington	08	1151CST			0	0			Hail (1.00)
									Storm spotters reported 1 inch hail.
Montgomery									
2 N Bellflower	08	1315CST			0	0			Hail (1.00)
Montgomery									
2 N Buell	08	1320CST			0	0			Thunderstorm Wind (G55)
									Hail, from 3/4 to 1 inch in diameter, covered the ground up to 3 inches deep north of Bellflower and west of Olney (Lincoln County). North of Buell, wind gusts downed several trees.
St. Louis County									
Maplewood	08	1350CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed trees in south central St. Louis County. Some downed trees blocked streets.
St. Louis (C)									
St Louis	08	1400CST			0	0			Thunderstorm Wind (G54)
									Thunderstorm wind gusts downed trees, some power lines, and traffic signals. The roof and portion of a wall of one building were also damaged.
Jefferson County									
Dittmer	08	1440CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed some power lines.
Callaway County									
Portland	10	1130CST			0	0			Hail (0.75)
									Storm spotters reported 3/4 inch hail in Portland.
Scotland County									
3 W Memphis	10	1158CST			0	0			Hail (0.75)
									The Sheriff Department reported 3/4 inch hail west of Memphis.
Clark County									
2 S Kahoka	10	1235CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed trees just south of Kahoka.
Audrain County									
Farber	10	1240CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds gusts downed some power lines in Farber.
Clark County									
2 E Kahoka	10	1240CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts downed trees which blocked Route EE east of Kahoka.
Osage County									
Linn	10	1450CST			0	0			Hail (1.00)
Osage County									
3 E Linn	10	1455CST			0	0			Thunderstorm Wind (G55)
									The Sheriff Department reported 1 inch hail in Linn and several trees down east of Linn.
St. Charles County									
Cottleville	11	1030CST			0	0			Thunderstorm Wind (G52)
									Storm spotters reported trees down near St. Charles County Community College.
St. Charles County									
St Peters to St Charles	11	1035CST			0	0			Thunderstorm Wind (G69)
									Storm spotters reported wind gusts near 80 mph which downed trees and power lines across parts of St. Peters and St. Charles.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, East									
Callaway County									
Portland	11	1300CST			0	0			Thunderstorm Wind (G56)
The County Sheriff reported numerous trees down in Portland.									
Montgomery									
Middletown	11	1305CST			0	0			Thunderstorm Wind (G52)
The County Sheriff reported a few trees down in Middletown.									
Warren County									
2 W Dutzow	11	1450CST			0	0			Thunderstorm Wind (G53)
Thunderstorm wind gusts blew roof shingles off a few homes between Dutzow and Marthasville.									
St. Louis County									
Florissant	11	1631CST			0	0			Hail (1.00)
Amateur radio spotters reported 1 inch hail on the north side of Florissant.									
St. Louis County									
North Portion	12	1500CST 1700CST			0	0			Flash Flood
St. Louis (C)									
North Portion	12	1500CST 1700CST			0	0			Flash Flood
Rainfall of about 4 inches in 90 minutes caused flash flooding across the north parts of St. Louis City and County. The hardest hit area was near Lambert St. Louis International Airport. The east bound lanes of Interstate 70 had to be closed for a while because of high water. Several area businesses had flooded basements due to the rapid runoff. Several people had to be rescued from a flooded parking lot at a local grocery store.									
Monroe County									
West Portion	12	2000CST 2145CST			0	0			Flash Flood
Audrain County									
West Portion	12	2030CST 2145CST			0	0			Flash Flood
Boone County									
North Portion	12	2030CST 2145CST			0	0			Flash Flood
Rainfall of 2 to 4 inches caused flash flooding across the area. The worst flooding was in the town of Madison in west Monroe County where virtually all streets went underwater. Highway 151 was flooded at several location in Monroe and west Audrain County. Flooding also occurred along Highway 22 in north Boone County.									
Clark County									
West Portion	13	0015CST 0500CST			0	0			Flash Flood
Rainfall of 3 to 4 inches caused some localized flash flooding. Highway K in the west portion of the county was flooded as were other low lying roads.									
Crawford County									
5 N Cuba	27	1220CST			0	0			Thunderstorm Wind (G53)
Crawford County									
3 SW Cuba	27	1225CST			0	0			Thunderstorm Wind (G56)
Thunderstorm wind gusts ranging from 60 to 65 mph downed trees blocking Routes P and O in the Cuba area.									
Crawford County									
5 N Steelville	27	1230CST			0	0	35K		Thunderstorm Wind (G56)
Thunderstorm wind gusts downed trees along Highway 19. A boat was also destroyed by the wind.									
Washington									
4 W Shirley	27	1310CST			0	0			Thunderstorm Wind (G53)
Thunderstorm wind gusts downed trees west of Shirley on State Highway 8.									
Washington									
1 W Belgrade	27	1320CST			0	0			Thunderstorm Wind (G52)
Storm spotters reported trees and power lines down just west of Belgrade.									
Reynolds County									
2 E Oates	27	1330CST			0	0			Thunderstorm Wind (G52)
The County Sheriff reported trees down a few miles east of Oates along Highway J.									
Reynolds County									
Lesterville	27	1335CST			0	0			Thunderstorm Wind (G52)
A storm spotter reported a few trees down along Highway 49 near Lesterville.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSOURI, East</u>									
Audrain County									
Mexico	30	2215CST			0	0			Thunderstorm Wind (G52)
A storm spotter reported a couple of trees down in Mexico.									
Monroe County									
Countywide	30	2215CST 2355CST			0	0			Urban/Sml Stream Fld
Rainfall of 2 - 3 inches caused some road flooding across parts of Monroe County. Highway 24 was covered with 6 inches of water near the town of Madison.									
<u>MISSOURI, Lower</u>									
Dunklin County									
Arbyrd to Octa	03	1745CST 1800CST	11	50	0	0	10K		Tornado (F0)
The tornado started near Arbyrd and tracked northeast. Several trees and power lines were knocked down.									
Dunklin County									
Senath	03	1812CST 1820CST			0	0	0.01K		Hail (0.75)
Dunklin County									
Senath	03	1812CST 1820CST			0	0	5K		Thunderstorm Wind
A few trees were blown down.									
Pemiscot County									
Wardell	10	1430CST 1435CST			0	0	10K		Thunderstorm Wind
A building used to store farm equipment was destroyed.									
Dunklin County									
Kennett	28	1313CST 1325CST			0	0	35K		Thunderstorm Wind
A hangar at the Kennett Municipal Airport was blown down. Numerous trees, power lines and signs were knocked down.									
Pemiscot County									
Countywide	28	1335CST 1400CST			0	0	20K		Thunderstorm Wind
A few homes were damaged. Several trees and power lines were blown down across the county.									
<u>MISSOURI, Northwest</u>									
MOZ046-054 Cooper - Henry									
	01	0000CST			0	0			Flood
	03	2359CST							
Thunderstorms on May 30-31 produced heavy rain in sections of west-central Missouri, causing minor flooding of the South Grand River at Urich and the Missouri River near Boonville.									
MOZ020-038>039 Buchanan - Lafayette - Saline									
	01	0000CST			0	0			Flood
	10	2359CST							
Minor to moderate river flooding that began in May continued into June on the Missouri River at St. Joseph, Napoleon, Waverly, and Miami.									
Livingston County									
Chillicothe	01	1305CST			0	0			Hail (0.75)
A line of thunderstorms developed during the afternoon hours roughly along Interstate 35 from the Missouri River northward. The storms tracked eastward across northern Missouri and produced isolated reports of hail.									
Schuyler County									
Coatsville	04	1342CST			0	0			Hail (1.00)
Linn County									
Marceline	06	0907CST			0	0			Hail (0.75)
Linn County									
Linneus	06	0930CST			0	0			Hail (0.75)
Grundy County									
10 SE Trenton	06	0940CST			0	0			Hail (0.88)
Grundy County									
Laredo	06	0945CST			0	0	15K		Thunderstorm Wind
Power lines and poles were downed by thunderstorm winds.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
Sullivan County									
Humphreys	06	0950CST			0	0	30K		Thunderstorm Wind
			Barns were damaged by thunderstorm winds.						
Pettis County									
La Monte	06	1650CST			0	0			Thunderstorm Wind (G60)
Saline County									
Marshall	06	1715CST			0	0	25K		Thunderstorm Wind
			Power lines and trees were downed in the town of Marshall. A line of thunderstorms developed ahead of a slow moving cold front, and tracked across western and northern Missouri during the morning hours. These storms produced damaging winds and hail in sections of north central Missouri. During the late afternoon hours, another line of thunderstorms developed ahead of the same front, and produced damaging winds in west central Missouri as it moved eastward.						
Bates County									
Amoret	07	1848CST			0	0			Hail (1.75)
Bates County									
Amsterdam	07	1900CST			0	0			Hail (1.00)
Chariton County									
Brunswick	08	1427CST			0	0			Hail (0.88)
Howard County									
6 NE Burton	08	1630CST			0	0			Hail (0.75)
Randolph County									
2.5 SW Higbee	08	1635CST			0	0			Hail (0.75)
Randolph County									
Higbee	08	1654CST			0	0	10K		Thunderstorm Wind
			Thunderstorm winds tore shingles off houses in Higbee.						
Howard County									
6 ENE Burton	08	1700CST			0	0			Urban/Sml Stream fld
			High water from Hungry Mother Creek covered a county road bridge just north of Bunker Hill. Isolated storms in central Missouri became severe, producing large hail in several locations. Localized rainfall amounts of 2 to 3 inches in Howard and Randolph Counties produced small stream flooding problems.						
Johnson County									
Warrensburg	10	1615CST			0	0			Hail (0.75)
Johnson County									
Warrensburg	10	1620CST			0	0			Thunderstorm Wind (G60)
			Tree limbs 6 to 8 inches in diameter were downed.						
MOZ020-037									
Buchanan - Jackson									
	11	0000CST			0	0			Flood
	16	2359CST							
			Several days of wet weather across northwest Missouri, northeast Kansas, and southeast Nebraska from June 10-12 caused already high water levels to rise above flood stage on the Missouri River at St. Joseph and Sibley.						
Pettis County									
La Monte	20	2100CST			0	0	15K		Thunderstorm Wind
			Thunderstorm winds damaged a house and a barn and La Monte.						
MOZ020-029>030-									
Buchanan - Clay - Ray - Lafayette - Saline									
	23	0000CST			0	0			Flood
	26	2359CST							
			The same storms that produced the urban and flash flooding in the Kansas City area on June 23 also triggered minor river flooding on the Missouri at St. Joseph, Napoleon, Waverly, and Miami, the Little Platte near Smithville, and the Crooked River near Richmond.						
Clay County									
Countywide	23	1100CST 1400CST			0	0	50K		Flash Flood
Jackson County									
Countywide	23	1100CST 1400CST			1	0	50K		Flash Flood
			A 7-year old boy was killed after being swept away while playing near a rain-swollen creek in Blue Springs. M7IW						
Platte County									
Countywide	23	1100CST 1400CST			0	0	50K		Flash Flood
			Thunderstorms developed explosively over the Kansas City metro area during the late morning hours. Storms continued to back-build and dump heavy rain on the area into early afternoon. Kansas City International received 1.85 inches of rain between 10						

Storm Data and Unusual Weather Phenomena

June 1999

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

MISSOURI, Northwest

am and 1 pm, and a total of 2.04 inches for the day. Gladstone reported 3.76 inches of rain for the day, and 2.19 inches of rainfall was reported in Blue Springs. Many roads in and around Kansas City had to be closed for several hours due to high water.

MOZ020-028>030- Buchanan - Platte - Clay - Ray - Chariton - Jackson - Lafayette - Saline - Howard - Johnson -

27	0000CST	1	0		Flood
30	2359CST				

Excessive rainfall across northeast Kansas and northwest and west-central Missouri on June 27 and 28 caused extensive river flooding across western and central Missouri. Minor to moderate flooding occurred on the Missouri River at St. Joseph, Kansas City, Sibley, Napoleon, Glasgow, and Boonville, Big Creek near Blairstown, the Blackwater River at Valley City and Blue Lick, the Blue River near Bannister Road and Blue Parkway in Kansas City, the Lamine River at Otterville, the Little Blue near Lake City, the Platte River at Sharps Station and Platte City, the South Grand at Urich, the Little Platte near Smithville, the Crooked River near Richmond, the Fishing River near Mosby, and the Chariton River at Brunswick.

Major flooding occurred at two locations on the Missouri River. At Waverly, the river crested on June 30 at 29.05 feet, which is 9.05 feet above flood stage. At Miami, the river crested on the evening of June 30 at 27.5 feet, which is 9.5 feet above flood stage. Many of the affected streams remained above flood stage into the month of July.

On June 28, a 29-year old man was killed after apparently being swept under while rappelling off a bridge into the flooded Blackwater River near Warrensburg. M29IW

Atchison County

2 W Phelps City

27	0545CST	0	0		Thunderstorm Wind (G60)
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Large tree limbs were downed by thunderstorm winds.

Johnson County

7 S Holden

27	0935CST	0	0	50K	Thunderstorm Wind
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A trailer was destroyed, and another home sustained roof damage.

Jackson County

Countywide

27	1500CST 1700CST	0	0	10K	Urban/Sml Stream Fld
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With the ground already wet from approximately an inch of rain earlier in the day, another wave of thunderstorms moved through the Kansas City metro area during the mid-afternoon hours. Between 4 and 5 pm CDT, the Kansas City Downtown Airport recorded 1.11 inches of rain. Urban flooding necessitated numerous road closings and multiple water rescues were performed.

Henry County

Windsor

27	2145CST	0	0	20K	Thunderstorm Wind
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A tree was knocked down onto a house.

Jackson County

Lees Summit

28	0000CST 0130CST	0	0	200K	Urban/Sml Stream Fld
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A late-night round of thunderstorms, mainly in southern portions of the Kansas City metro, triggered more urban flooding. Approximately 10 townhomes in a subdivision in Lees Summit were damaged by floodwaters.

Bates County

Butler

28	0030CST	0	0		Thunderstorm Wind (G65)
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A transformer was destroyed and trees were downed.

Bates County

10 W Foster

28	0030CST	0	0		Thunderstorm Wind (G60)
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Trees were downed by thunderstorm winds.

Cass County

Archie

28	0030CST	0	0	25K	Urban/Sml Stream Fld
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Heavy rainfall from late-night thunderstorms produced urban flooding in the town of Archie. The area around City Hall and a city park were flooded. Standing water was reported inside the city hall, and a police cruiser parked outside was damaged by the flood waters.

Cass County

Drexel

28	0736CST	0	0		Thunderstorm Wind (G60)
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Storm Data and Unusual Weather Phenomena

June 1999

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

MISSOURI, Northwest

Jackson County

Countywide	28	0800CST 1100CST			0	0	250K	Flash Flood
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After the storms of the 27th had already dumped upwards of 3 inches of rain on portions of the Kansas City metro area, another complex of storms moved through on the morning of the 28th. The downtown Kansas City airport received 2.10 inches of rain on the 28th, including 1.87 inches in a period of 38 minutes. Significant urban and flash flooding resulted in the metro area, primarily south of the Missouri River. Approximately 100 roads were closed by high water, which was as deep as 5 feet in some locations. The Kansas City Fire Department responded to 88 flood-related emergency calls between 8 am and noon. Numerous vehicle rescues were reported in Kansas City and Blue Springs.

Jackson County

Countywide	28	0800CST 0805CST			0	0		Thunderstorm Wind (G60)
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Numerous reports of downed trees were received from around Jackson County, including Kansas City, Lees Summit, and Blue Springs. Northwest and west-central Missouri were battered by three separate rounds of thunderstorms on June 27 and 28. The first cluster of storms moved through on the morning of the 27th, producing isolated incidents of wind damage. During the afternoon, storms continued to redevelop over northeastern Kansas and track eastward into west-central Missouri. By late afternoon, the storm track had shifted southward into the Kansas City metro area. These rains on top of already saturated ground began to produce flooding problems. Storms continued to track across the Kansas City area during the evening, bringing rain totals to nearly 3 inches in some parts of the metro area by 10 pm. South of Kansas City, the late-night storms produced wind damage, downing trees in Bates and Henry Counties.

Just in time for Kansas City's Monday morning rush hour on the 28th, another cluster of thunderstorms moved through the metro area. These storms caused wind damage, downing trees in parts of Jackson and Cass Counties. Rainfall rates around 2 inches per hour were reported in some parts of the Kansas City area, and widespread urban and flash flooding resulted.

Storm total rainfall amounts across northwest and west-central Missouri were generally 3 inches or greater. The hardest hit areas in the Kansas City metro area were near the Missouri River. Kansas City Downtown Airport recorded 5.02 inches of rain, and 5.55 inches of rain fell in Independence. Southern Johnson and northern Henry counties in west-central Missouri recorded some of the highest rainfall totals in west-central Missouri. In Henry County, Blairstown received 6.41 inches, Clinton reported 5.91", Ulrich had 4.98", and 4.25 inches of rain fell in Windsor. In Johnson County, 5.50 inches fell at Kingsville, and 4.67 inches were recorded at Whiteman Air Force Base.

MISSOURI, Southeast

MOZ087

Cape Girardeau								
	01	0001CST			0	0		Flood
	11	0800CST						

After being over flood stage for much of May, the Mississippi River remained slightly above flood stage at Cape Girardeau through early June. With a flood stage of 32 feet, the river held at or below 33.5 feet during early June. This caused some minor flooding of agricultural bottomlands.

Stoddard County

Charter Oak	01	1910CST			0	0		Hail (0.75)
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Dime size hail fell on Highway D.

New Madrid

Portageville	07	1450CST			0	0	7K	Thunderstorm Wind (G52)
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Several large tree limbs were downed, including one across the front porch of a house.

Scott County

3 S Benton	13	2100CST 2230CST			0	0		Urban/Sml Stream Fld
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Thunderstorms produced very heavy rainfall, estimated by radar up to 2 inches. Rescue personnel reported up to a foot of water on parts of Highway 61 south of Benton.

Scott County

Chaffee	27	1520CST			0	0	2K	Thunderstorm Wind (G52)
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A few trees were down.

MISSOURI, Southwest

Ozark County

Brixey	01	0424CST			0	0		Hail (1.00)
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Polk County

3 W Bolivar	01	1511CST 1535CST			0	0		Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Camden County									
Decaturville	01	1515CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds destroyed a garage.						
Miller County									
Eldon	01	1535CST			0	0			Hail (1.75)
Miller County									
Olean	01	1535CST			0	0			Hail (0.75)
Newton County									
Seneca	01	1610CST			0	0			Hail (1.00)
Newton County									
3 W Neosho	01	1620CST			0	0			Hail (1.00)
Newton County									
Neosho	01	1620CST			0	0			Hail (1.00)
Maries County									
7 S Brinktown	01	1625CST	1	200	0	0	75K		Tornado (F1)
			A tornado destroyed a home about 7 miles south of Brinktown.						
Texas County									
Houston	01	1655CST			0	0			Hail (0.88)
Texas County									
Raymondville	01	1715CST			0	0			Hail (1.00)
Phelps County									
4 W St James to 3 E St James	01	1720CST 1730CST	7	300	0	0	3.5M		Tornado (F3)
			A tornado with an intermittent damage path, damaged 200 homes, businesses, and other buildings in the southern portion of St. James. Of these, 33 homes were destroyed along with the St. James Golf Course clubhouse and two Missouri Department of Transportation (MODOT) buildings. Initially, the tornado touched down just west of the intersection of Hwy BB and County Road (CR) 3370 and produced F1 damage, damaging roofs and destroying a barn. The path width was about 200 yards. The tornado then moved east, south of the downtown St. James area and intensified. F2-F3 damage occurred with a 200-300 yard damage path. Several homes and farm buildings were severely damaged or destroyed. F3 damage occurred at the golf course and at the MODOT site south-southeast of town with a damage path width of 300 yards. The tornado then weakened rapidly, producing F1 damage with a damage path width of 150 yards about 3 miles southeast of downtown.						
Phelps County									
Flat to 5 E Flat	01	1755CST 1800CST	5	400	0	0	100K		Tornado (F1)
			A tornado severely damaged one home and destroyed outbuildings north of Edgar Springs near the town of Flat. One garage was destroyed.						
Phelps County									
4 NE Edgar Spgs to 5 NE Edgar Spgs	01	1810CST 1815CST	1	250	0	0	175K		Tornado (F2)
Dent County									
5 SW Lecoma to 4 SW Lecoma	01	1815CST 1820CST	1	250	0	0	50K		Tornado (F2)
Dent County									
3 SW Lecoma	01	1822CST	0.2	100	0	0	10K		Tornado (F0)
			A tornado touched down northeast of Edgar Springs and moved into rural areas in northwest Dent County. 12 homes were damaged and 2 were destroyed in the Edgar Springs area. One mobile home was severely damaged in northwest Dent County. Numerous trees and power lines were downed.						
Dent County									
Lake Spg	01	1820CST			0	0	0		Tstm Wind/Hail
			A thunderstorm produced quarter sized hail and downed large tree limbs.						
Wright County									
5 SE Grovespring	01	1828CST			0	0			Hail (1.00)
Dent County									
2 N Salem	01	1835CST			0	0	0		Thunderstorm Wind
			Thunderstorm winds downed trees just north of Salem.						
Wright County									
7 N Hartville	01	1835CST	0.2	50	0	0	0		Tornado (F0)
			A tornado briefly touched down damaging and uprooting trees.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Texas County									
Houston	01	1910CST			0	0			Hail (1.00)
Texas County									
Houston	01	1910CST			0	0			Hail (1.00)
Dent County									
Lenox	01	1915CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds downed power poles and trees.						
Texas County									
Licking	01	1915CST			0	0			Hail (0.88)
Greene County									
6 NE Springfield	07	1553CST			0	0			Hail (0.88)
Dade County									
Greenfield	07	1715CST			0	0			Hail (0.75)
Christian County									
Clever	07	1801CST			0	0			Hail (0.75)
Christian County									
Billings	07	1804CST			0	0			Hail (0.75)
Taney County									
Forsyth	10	1010CST			0	0			Hail (0.88)
Douglas County									
West Portion	10	1145CST			0	0			Flash Flood
			Thunderstorms produced locally heavy rain which led to minor flooding of low lying roads.						
Shannon County									
West Portion	12	1400CST 1700CST			0	0			Flash Flood
			Thunderstorms produced 2 to 3 inches of rain in a 3 hour period which led to minor flooding of streams and low lying roadways. Most of the flooding was confined to western and southern sections of the county.						
Barry County									
South Portion	13	1545CST 2000CST			0	0			Flash Flood
			Thunderstorms produced rainfall in excess of 4 inches which led to the flooding of low lying roadways near Seligman and the Roaring River State Park area.						
Vernon County									
Nevada	13	1620CST 1640CST			0	0	75K		Thunderstorm Wind
			Two downbursts produced widespread damage in Nevada. The first downburst occurred at 520 pm CDT (420 pm CST) and was estimated at 60 to 70 mph. Another downburst occurred about 10 minutes later and produced winds estimated at 80 to 100 mph. Numerous trees, power lines, and power poles were downed. One tree fell on a car and destroyed it. Marmaduke Park (northwest Nevada) and the State Hospital Campus experienced extensive tree damage. Many homes experienced minor roof damage. One roof was blown completely off of a truck company building and found 100 to 200 yards southeast of the building site.						
Greene County									
2 E Springfield	13	1930CST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds blew trees down and knocked a small outbuilding over.						
Maries County									
Vichy	27	1157CST			0	0			Thunderstorm Wind (G50)
Phelps County									
Rolla	27	1200CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds downed power lines.						
Phelps County									
Edgar Spgs	27	1220CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds downed power lines.						
Shannon County									
Eminence	27	1345CST			0	0			Thunderstorm Wind (G55)
Benton County									
2 N Warsaw	27	1650CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Cedar County									
2 NW Stockton	27	1850CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSOURI, Southwest</u>									
Benton County									
Lincoln	27	2220CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds downed power lines.
Morgan County									
Countywide	27	2238CST			0	0			Flash Flood
	28	0200CST							
Benton County									
Countywide	27	2240CST			0	0	30K		Flash Flood
	28	1700CST							
St. Clair County									
Countywide	28	0400CST			0	0			Flash Flood
		1200CST							
									A complex of thunderstorms produced 3 to 6 inches of rain over portions of central and west central Missouri which led to widespread flooding of low lying areas. The hardest hit area was in northern Benton County where some roads were washed out and damaged.
Morgan County									
11 SW Gravois Mills	27	2245CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds downed a tree onto a mobile home near Ivy Bend along the Osage River.
Camden County									
Climax Spgs	27	2256CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees.
Morgan County									
Barnett	27	2310CST			0	0			Thunderstorm Wind (G55)
Camden County									
Osage Beach	27	2310CST			0	0	10K		Thunderstorm Wind
									Thunderstorm winds downed numerous trees and power lines near Osage Beach.
Vernon County									
5 SW Nevada	28	0115CST			0	0	10K		Thunderstorm Wind
									Thunderstorm winds destroyed part of a roof and downed trees.
Jasper County									
Joplin	28	0920CST	0.2	40	0	0	220K		Tornado (F1)
									A tornado briefly touched down in the south part of the city of Joplin. The tornado picked up a car and a small truck. The car was thrown into a strip mall complex damaging a corner of the building. The truck was pushed into a portion of a car wash. The car wash sustained damage to about 60 percent of the facility. Two large concrete bases for the vacuum equipment were picked up or rolled about 10 feet from their original location.
									The tornado also uprooted trees, blew a metal shed into a tree, completely took the roof off of one home and toppled a chimney.
Jasper County									
Sarcoxie	28	1000CST			0	0	0		Thunderstorm Wind
									Large tree limbs blown down.
Jasper County									
Joplin	28	1000CST			0	0			Flash Flood
		1200CST							
									Thunderstorms that produced locally heavy rain caused some minor flooding along Turkey creek in eastern Joplin.
Newton County									
Countywide	30	0218CST			0	0			Flash Flood
		0600CST							
									Thunderstorms produced heavy rain that led to some minor street and road flooding in and around Neosho and Seneca.
Jasper County									
South Portion	30	0945CST			0	0			Flash Flood
		1100CST							
									A complex of thunderstorms produced heavy rain that led to minor flooding in Joplin and along Center Creek in southern Jasper County.
<u>MONTANA, Central</u>									
Liberty County									
3 SW Marias	02	1655MST	0.1	10	0	0			Tornado (F0)
									1 INCH HAIL ALSO
Gallatin County									
Bozeman	17	1630MST			1	0			Lightning

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MONTANA, Central									
		M51UT							
Blaine County									
Chinook	18	1335MST	0.5	10	0	0			Tornado (F0)
Lewis And Clark									
Helena	18	1610MST			0	0			Thunderstorm Wind (G52)
Meagher County									
White Sulphur Spgs	18	1805MST			0	0			Thunderstorm Wind (G52)
Judith Basin									
10 SW Utica	18	1815MST			0	0			Thunderstorm Wind (G52)
Fergus County									
Danvers	18	1840MST			0	0			Thunderstorm Wind (G52)
Gallatin County									
(Wey)West Yellowston	18	1930MST			0	0			Hail (1.50)
Fergus County									
10 S Grassrange	19	1510MST			0	0			Hail (0.75)
Gallatin County									
Bozeman	19	1615MST			0	0			Hail (0.75)
Judith Basin									
Hobson	19	1801MST			0	0			Hail (1.75)
Fergus County									
55 NE Lewistown	19	1815MST			0	0			Hail (0.75)
Fergus County									
Lewistown	19	1855MST			0	0			Hail (1.00)
Fergus County									
15 SE Lewistown	19	1950MST			0	0			Hail (0.75)
Gallatin County									
5 W Belgrade	21	1410MST			0	0			Hail (1.50)
Judith Basin									
5 SW Stanford	21	1533MST			0	0			Thunderstorm Wind (G61)
Judith Basin									
Windham	21	1544MST			0	0			Thunderstorm Wind (G69)
Fergus County									
12 W Lewistown to Lewistown	21	1556MST 1615MST			0	0			Thunderstorm Wind (G69)
Fergus County									
10 WNW Denton	21	1608MST			0	0			Thunderstorm Wind (G64)
Judith Basin									
15 N Moccasin	21	1609MST			0	0			Thunderstorm Wind (G69)
Fergus County									
11 NW Lewistown	21	1610MST	0.2	10	0	0	3K		Tornado (F0)
Fergus County									
7 E Roy to 18 E Roy	21	1642MST 1710MST			0	0			Thunderstorm Wind (G53)
		POWER POLE BROKEN DOWN							
Fergus County									
4 W Lewistown	21	1645MST			0	0			Thunderstorm Wind (G52)
MTZ014									
	24	1534MST			0	0			High Wind (G52)
		HELENA ASOS							
MTZ014									
	24	1700MST			0	0			High Wind (G69)
		NEAR MARTINSDALE							
MTZ011									
	25	0610MST			0	0			High Wind (G52)
		11 S CHINOOK							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, Central</u>									
Madison County									
1 SW Ennis Big Sky Arpt	29	1200MST	0.2	10	0	0			Tornado (F0)
Fergus County									
10 N Moore	30	1400MST	0.1	75	0	0			Tornado (F0)
<u>MONTANA, East</u>									
Valley County									
5 NE Hinsdale	08	0200MST 0600MST			0	0			Flash Flood
Heavy rain falling on already saturated soil caused Rock Creek to rise out of its banks and cause washouts on Rock Creek Road.									
Prairie County									
23 NW Terry	08	0930MST			0	0			Hail (0.75)
Dawson County									
5 S Glendive	08	1015MST			0	0			Thunderstorm Wind (G58)
Richland County									
6 E Sidney	08	1426MST			0	0			Hail (1.00)
Richland County									
Sidney	08	1428MST			0	0			Hail (1.75)
Petroleum County									
Winnett	11	1200MST			0	0			Hail (0.75)
Garfield County									
1 W Sand Spgs	11	2340MST			0	0			Hail (0.75)
McCone County									
10 N Vida	19	1538MST			0	0			Hail (0.75)
Roosevelt County									
Poplar Arpt to Poplar	19	1552MST			0	0			Hail (0.75)
Roosevelt County									
Wolf Pt	19	1700MST			0	0			Hail (0.75)
Daniels County									
2 N Madoc	19	1755MST			0	0			Hail (0.75)
Sheridan County									
Daleview	19	1830MST			0	0			Hail (0.75)
McCone County									
45 NW Circle	19	2200MST			0	0			Hail (1.50)
Roosevelt County									
28 N Poplar	20	1325MST			0	0			Hail (0.75)
Roosevelt County									
4 N Poplar	20	1430MST 2000MST			0	0	25K		Flash Flood
Emergency Manager reported road closures in central Roosevelt county due to extremely heavy rain falling on already saturated soil. Up to 2 feet of water was reported over the North Poplar Road. Other secondary roads along the Poplar River and Smoke Creek were also closed due to high water.									
Richland County									
4 S Crane	20	1610MST			0	0			Hail (1.50)
Richland County									
2 SW Crane	20	1625MST			0	0			Hail (1.00)
Richland County									
4 N Savage	20	1638MST			0	0			Hail (1.00)
Dawson County									
Glendive	20	1700MST			0	0			Hail (1.00)
Dawson County									
15 E Glendive	20	1705MST 1715MST			0	0			Funnel Cloud
Dawson County									
Glendive	20	1719MST			0	0			Hail (2.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, East</u>									
Dawson County									
Glendive	20	1730MST			0	0	10K		Hail (4.00)
Wibaux County									
18 S Wibaux	20	1840MST			0	0			Hail (1.00)
Wibaux County									
25 S Wibaux	20	1850MST			0	0			Hail (0.75)
Wibaux County									
5 W Wibaux	20	1855MST			0	0			Hail (1.00)
Wibaux County									
6 S Wibaux	20	1925MST			0	0			Hail (1.00)
Dawson County									
1 E Hodges	20	1930MST			0	0			Hail (0.75)
Wibaux County									
15 S Wibaux to 17 S Wibaux	20	2100MST 2300MST			0	0			Flash Flood
Garfield County									
Jordan	21	0222MST			0	0			Hail (0.75)
Petroleum County									
26 N Winnett	21	1615MST			0	0			Hail (0.75)
Phillips County									
20 S Zortman	21	1700MST			0	0			Thunderstorm Wind (G57)
Garfield County									
Jordan	21	1730MST			0	0			Hail (0.75)
Garfield County									
Jordan	21	1730MST			0	0			Thunderstorm Wind (G61)
Petroleum County									
38 NNE Winnett	21	1730MST			0	0			Thunderstorm Wind (G59)
Prairie County									
35 NW Terry	21	1802MST			0	0			Thunderstorm Wind (G50)
Garfield County									
20 N Jordan	21	1803MST			0	0			Thunderstorm Wind (G52)
Phillips County									
Zortman	21	1805MST			0	0			Hail (1.00)
McCone County									
Vida	21	1814MST			0	0			Thunderstorm Wind (G52)
Valley County									
Ft Peck	21	1818MST			0	0	50K		Thunderstorm Wind
Phillips County									
11 WNW Saco	21	1830MST			0	0	3K		Thunderstorm Wind
Valley County									
2 W Ft Peck	21	1830MST			0	0	8K		Thunderstorm Wind
Prairie County									
25 NW Terry	21	1840MST			0	0			Thunderstorm Wind (G52)
Phillips County									
7 N Saco	21	1843MST	0.2	50	0	0			Tornado (F0)
Valley County									
14 NW Glasgow	21	1845MST	0.1	40	0	0			Tornado (F0)
Valley County									
Glasgow	21	1845MST			0	0			Thunderstorm Wind (G58)
Valley County									
Tampico	21	1845MST			0	0			Thunderstorm Wind (G65)
Valley County									
3 SW Vandalia	21	1846MST			0	0			Thunderstorm Wind (G80)
Valley County									
15 S Opheim	21	1920MST			0	0	3K		Thunderstorm Wind (G70)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, East</u>									
Valley County									
13 N Oswego	21	1920MST			0	0			Thunderstorm Wind (G70)
Roosevelt County									
Poplar	21	1926MST			0	0			Thunderstorm Wind (G60)
Valley County									
Opheim	21	1928MST			0	0			Thunderstorm Wind (G52)
Roosevelt County									
21 N Wolf Pt	21	1929MST			0	0			Hail (1.75)
Valley County									
Opheim	21	1930MST	0.2	100	0	0	250K		Tornado (F1)
McCone County									
5 N Vida	21	1945MST			0	0			Thunderstorm Wind (G52)
Richland County									
34 NW Lambert	21	1945MST			0	0			Thunderstorm Wind (G52)
Daniels County									
1 SE Flaxville	21	1948MST			0	0			Thunderstorm Wind (G56)
Roosevelt County									
Froid	21	2010MST			0	0			Thunderstorm Wind (G65)
Sheridan County									
Plentywood	21	2011MST			0	1			Thunderstorm Wind (G56)
Daniels County									
10 SSW Peerless	21	2012MST			0	0			Hail (0.75)
Daniels County									
10 SSW Peerless	21	2012MST			0	0			Thunderstorm Wind (G63)
Daniels County									
Whitetail	21	2014MST			0	0	1K		Thunderstorm Wind
<p>Over almost a four hour period, numerous severe thunderstorms moved from southwest to northeast across northeast Montana. These storms produced winds to 92 miles an hour, several small tornadoes and hail to a size of 1.75 inches. The community of Opheim was hit hardest by straight line winds and a weak tornado. Most of downtown Opheim was damaged including the front wall of the local hotel taken down. Power was out for most of the Opheim area for more than 18 hours. A state disaster declaration was declared for the Opheim area. The town of Froid suffered damage from straight line winds which pushed a concrete grain elevator off of its foundation. At the Fort Peck Lake Marina, significant damage was done to boats, docks and campers at the storms passed. One home in Fort Peck lost its roof.</p>									
Valley County									
5 S Opheim	25	0325MST			0	0			Hail (1.00)
Valley County									
15 ESE Opheim	25	0405MST			0	0			Hail (1.00)
Daniels County									
9 N Richland	25	0410MST			0	0			Hail (0.75)
<u>MONTANA, South</u>									
Powder River									
Biddle	04	2045MST 2055MST			0	0			Hail (0.88)
Penny to nickel size hail was observed in Biddle.									
Yellowstone									
Billings	05	1650MST 1710MST			0	0			Funnel Cloud
Several funnel clouds were spotted in the Billings area.									
Treasure County									
25 SSE Hysham	07	1735MST			0	0			Hail (0.88)
Spotter report of nickel size hail.									
Powder River									
Otter	07	1740MST			0	0			Hail (0.88)
Spotter report of nickel size hail.									
Rosebud County									
9 NW Colstrip	07	1800MST			0	0			Hail (0.75)
Spotter report of dime size hail.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MONTANA, South									
Golden Valley									
6 S Lavina	07	1958MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Musselshell									
21 SW Roundup to 14 SE Roundup	07	1958MST 2025MST			0	0			Hail (0.88)
			Several spotters reported nickel to dime size hail in southern Musselshell County.						
Musselshell									
15 S Roundup	07	2050MST			0	0			Funnel Cloud
			Spotters indicated a funnel cloud on US-87.						
Carter County									
30 S Ekalaka	08	1435MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Carter County									
19 NE Alzada	08	1455MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Rosebud County									
1 NW Ingomar	11	1250MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Stillwater County									
5 S Columbus	12	1720MST			0	0			Hail (0.75)
			Montana highway patrol reported dime size hail.						
Carbon County									
4 N Roberts	12	1733MST			0	0			Hail (0.75)
			Spotter report of dime size hail near Cooney Reservoir.						
MTZ028									
Wheatland									
	18	0500MST			0	0			Flood
	26	1800MST							
			The Yellowstone River in Livingston went above flood stage for several days. Water overflowed its banks and ran over the road between 9th Street Island and Siebeck Island. However, no significant damage was caused by the flooding.						
Wheatland County									
Harlowton	18	1912MST			0	0			Thunderstorm Wind (G52)
			Spotter estimated 60 mph wind gust. Some power lines were downed in Harlowton and in Shawmut.						
Golden Valley									
Ryegate	18	1940MST			0	0			Thunderstorm Wind (G61)
			Spotter estimated wind gust of 70 mph. Several large branches were downed in Ryegate.						
Musselshell									
20 S Roundup	18	1945MST			0	0			Funnel Cloud
Musselshell									
Roundup	18	2020MST 2030MST			0	0			Thunderstorm Wind (G56)
			Musselshell County Sheriff reported 65 mph wind gusts. Several large tree branches and street signs were blown down.						
Yellowstone									
Billings	18	2030MST			0	0			Thunderstorm Wind (G52)
			Montana State Highway Patrol estimated 60 mph wind gusts in Billings						
Golden Valley									
10 SW Ryegate	19	1510MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Golden Valley									
5 W Ryegate	19	1625MST			0	0			Hail (0.75)
Wheatland County									
Shawmut	19	1625MST			0	0			Hail (0.75)
			Wheatland County Sheriff reported dime size hail in Shawmut and 5 miles west of Ryegate.						
Park County									
5 NNW Wilsall	19	1746MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Powder River									
Sayle	19	1855MST			0	0			Hail (1.00)
			Spotter report of quarter size hail.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MONTANA, South									
Powder River 8 SW Biddle	19	1940MST			0	0			Hail (1.00)
			Spotter report of quarter size hail.						
Fallon County 12 NNE Baker to 18 N Baker	20	1900MST 1915MST	5	300	0	0			Tornado (F2)
			A large tornado which touched down near Ollie Road, about 3 miles east of Montana Highway 7. The tornado travelled north to County Road 616 then northwest over Beaver Creek before lifting at the Fallon/Wibaux County border. The tornado destroyed a well built cattle shed, lifted up, twisted and moved a large irrigation pipe about 100 yards and sucked the water out of a section of Beaver Creek.						
Fallon County Countywide	20	1910MST 1945MST			0	0			Funnel Cloud
			Numerous funnel clouds were reported by the Fallon County Sheriffs Department.						
Fallon County Ollie	20	1925MST 1930MST			0	0			Hail (1.75)
			Golf ball size hail was reported in Ollie.						
Wheatland County 7 S Judith Gap	21	0345MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Yellowstone 16 N Pompeys Pillar	21	1550MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Wheatland County 1 N Harlowton	21	1554MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Yellowstone Worden	21	1600MST			0	0	5K		Thunderstorm Wind
			Wind gusts from a thunderstorm destroyed a 20 by 24 foot shed. The wind also twisted a round bale feeder and tore a chicken house door off.						
Wheatland County 5 N Harlowton	21	1605MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Rosebud County Sumatra	21	1655MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Rosebud County 20 N Forsyth	21	1714MST			0	0			Thunderstorm Wind (G52)
			Spotter estimated 60 mph wind gust.						
Rosebud County Rock Spgs	21	1740MST 1800MST			0	0			Hail (1.00)
			Dime to quarter size hail was reported in Rock Springs.						
Powder River 20 N Broadus	25	1457MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Powder River 24 W Broadus	25	1500MST			0	0			Hail (1.75)
			Golf Ball size hail was reported at Home Creek Butte.						
Custer County 20 SE Mizpah	25	1543MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Carter County Ekalaka	25	1557MST			0	0			Hail (1.00)
			DES reported quarter size hail.						
Carter County 15 S Ekalaka	25	1615MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, South</u>									
Powder River									
Broadus	25	1630MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Custer County									
20 S Mizpah	25	1700MST			1	0			Lightning
			A 14 year-old boy was struck and killed by lightning while standing on a front tire of a tractor in a field. M14EQ						
Carter County									
20 S Ekalaka	25	1728MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
Custer County									
20 NW Miles City	25	1813MST			0	0			Hail (0.75)
			Spotter report of dime size hail.						
<u>MONTANA, West</u>									
MTZ005									
Missoula / Bitterroot Valleys									
	03	1700MST			0	0			Flood
	05	0300MST							
			Several fishing access sites along the bitterroot river were flooded and closed due to high water						
Sanders County									
Paradise	24	1648MST 1650MST			0	0			Hail (0.75)
Lake County									
Round Butte	24	1723MST 1730MST			0	0			Hail (0.75)
Missoula County									
(Mso)Missoula Intl A	24	2023MST 2115MST			0	0			Hail (0.75)
Missoula County									
Missoula	24	2023MST			0	0			Thunderstorm Wind (G52)
			Lolo in Missoula county.... .75 inch hail at 735 PM. Missoula in Missoula county.... .75 inch hail at 740 PM. Paradise in Sanders county... .75 inch hail at 448 PM. Round Butte in Lake county... .75 inch hail at 523 PM.						
			60 MPH winds reported in south Missoula at 745 PM MST.						
<u>NEBRASKA, Central</u>									
Keith County									
10 NW Brule	02	1945CST			0	0			Hail (1.00)
Sheridan County									
4 N Antioch	02	2040CST			0	0			Hail (0.75)
Sheridan County									
7 N Antioch	02	2045CST			0	0			Hail (0.75)
Chase County									
7 S Champion	02	2120CST			0	0			Hail (0.75)
Sheridan County									
26 S Rushville	02	2145CST			0	0			Hail (1.00)
Sheridan County									
7 S Hay Spgs	02	2330CST			0	0			Hail (0.75)
Sheridan County									
Lakeside	03	1650CST			0	0			Hail (1.00)
Sheridan County									
1 W Lakeside	03	1710CST			0	0	3K	25K	Hail (1.75)
Sheridan County									
7 N Ellsworth	03	1800CST			0	0	3K	25K	Hail (1.75)
Sheridan County									
20 NNE Ellsworth	03	1820CST 1850CST			0	0		5K	Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Cherry County 38 SSE Merriman	03	1910CST			0	0	25K		Hail (4.50)
Sheridan County 21 NNE Ellsworth	03	1925CST			0	0			Hail (1.00)
Cherry County 38 S Merriman	03	1940CST			0	0	25K		Hail (2.50)
Cherry County 38 SSE Merriman	03	2010CST			0	0	25K		Hail (2.75)
A Funnel Cloud was sighted at the same location.									
Custer County 1 E Berwyn	03	2036CST			0	0			Hail (0.75)
Garfield County 10 N Burwell	03	2103CST			0	0	3K	25K	Hail (1.75)
Cherry County 18 SSW Cody	03	2230CST			0	0			Hail (0.75)
Garfield County 12 E Burwell	03	2255CST 2325CST			0	0		5K	Hail (1.00)
Garfield County 4 SE Burwell	03	2300CST			0	0			Hail (1.00)
Wheeler County 1 S Bartlett	03	2300CST			0	0			Hail (0.75)
Wheeler County 1 S Bartlett	03	2300CST			0	0			Hail (0.75)
Wheeler County 6 S Bartlett	03	2338CST			0	0	1K		Thunderstorm Wind (G60)
Shingles were blown from a roof.									
Cherry County 5 W Crookston	04	0044CST	1	50	0	0	1K		Tornado (F0)
Spotter reported brief tornado touch down over open rangeland.									
Cherry County 5 NW Valentine	04	0108CST	1	50	0	0	1K		Tornado (F0)
Spotter reported brief tornado touch down over open rangeland.									
Cherry County 44 SSW Merriman to 42 SSE Merriman	03	1955CST 2055CST	17	300	0	0	50K		Tornado (F1)
A tornado destroyed several windmills and damaged trees.									
Custer County 7 N Westerville	03	2045CST			0	0	4K	25K	Hail (1.75)
Custer County 8 SW Comstock to 7 WSW Comstock	03	2100CST 2120CST			0	0	100K		Thunderstorm Wind
Custer County 3 SW Comstock to 1 N Comstock	03	2135CST 2157CST	5.5	300	0	0	300K		Tornado (F2)
Several large hail reports were received beginning at 936 PM CDT near Berwyn. Five center pivot irrigation systems were overturned from 8 miles southwest to 7 miles west southwest of Comstock at approximately 1000 PM CDT. A tornado initially touched down 3 miles southwest of Comstock and was intermittently on the ground causing tree damage. The tornado then dropped down 1 mile southwest of the center of Comstock. It reached its maximum intensity as it struck a farm 1/2 mile west of Comstock. Every outbuilding on the farm was destroyed, including a large machine building and the house was heavily damaged. The tornado then crossed the Middle Loup River and struck a residence on the northwest edge of Comstock destroying three outbuildings and damaging the house. Another farm a mile north of Comstock was struck, and everything but the house was destroyed. Several vehicles in the path were damaged or destroyed.									
Cherry County 41 SSW Merriman to 39 S Merriman	03	2050CST 2110CST	2	50	0	0			Tornado (F0)
A tornado touched down in southwest Cherry County and remained over rangeland causing no significant damage.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Perkins County									
Grant	04	1737CST 1743CST			0	0			Hail (1.00)
Keith County									
18 NW Brule	04	1755CST			0	0			Hail (1.00)
Keith County									
7 SSW Roscoe	04	1807CST			0	0			Hail (0.75)
Arthur County									
10 NW Arthur	04	1815CST			0	0			Hail (0.75)
Mcperson									
13 W Tryon	04	1825CST			0	0			Hail (0.88)
Arthur County									
11 N Arthur	04	1828CST			0	0			Hail (1.50)
Grant County									
14 SSE Hyannis	04	1840CST			0	0	4K	25K	Hail (1.75)
Grant County									
13 S Hyannis	04	1840CST			0	0			Hail (0.75)
Cherry County									
42 SSW Merriman	04	1915CST			0	0			Hail (0.88)
Hooker County									
20 S Mullen	04	1920CST			0	0	4K	25K	Hail (1.75)
Hooker County									
10 S Mullen	04	1925CST			0	0	10K	50K	Hail (4.50)
Hooker County									
6 E Mullen	04	1958CST			0	0	6K	50K	Hail (2.50)
Hooker County									
8 ENE Mullen	04	2003CST	1	50	0	0			Tornado (F0)
Spotter reported a brief tornado touch down over open country with no damage.									
Cherry County									
14 SW Brownlee to 6 SW Brownlee	04	2005CST 2020CST	8	50	0	0			Tornado (F0)
Storm chasers and the general public observed the tornado as it moved across open country.									
Cherry County									
8 SSE Brownlee to 7 SE Brownlee	04	2030CST 2035CST	2	50	0	0	5K		Tornado (F0)
The tornado moved across open rangeland southeast of Brownlee with minor damage to fences and trees.									
Cherry County									
10 SSE Brownlee to 9 ESE Brownlee	04	2035CST 2050CST	5	50	0	0	50K		Tornado (F1)
The tornado touched down west of highway 83, crossed the highway and destroyed a scale house at a cattle handling facility.									
Cherry County									
11 E Brownlee to 12 ENE Brownlee	04	2055CST 2105CST	2	50	0	0			Tornado (F0)
The tornado was on the ground for a short time and moved across open rangeland.									
Thomas County									
3 NNW Thedford to 7 N Thedford	04	2010CST 2022CST	4	250	0	0	50K		Tornado (F2)
The tornado, observed by numerous storm chasers, including the VORTEX team, and the general public, touched down in Thomas County 3 miles north northwest of Thedford and was on the ground for 15 miles before lifting in southeast Cherry County 6 miles east southeast of Brownlee. The path was over rangeland destroying 9 windmills, several miles of fences and numerous trees. This was the most significant of 6 tornadoes produced by the same supercell thunderstorm.									
Cherry County									
15 SSE Brownlee to 6 ESE Brownlee	04	2022CST 2045CST	19	250	0	0	50K		Tornado (F2)
This was a continuation of the Thomas county tornado that initially touched down 3 miles north north west of Thedford and traveled into Cherry county.									
Keya Paha County									
11 NW Springview	04	2052CST			0	0	25K		Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Cherry County 13 S Wood Lake	04	2110CST			0	0			Hail (0.75)
Keya Paha County 10 WSW Springview	04	2152CST			0	0	4K	25K	Hail (1.75)
Lincoln County North Platte	05	1618CST			0	0			Hail (0.75)
Lincoln County 20 NNE North Platte	05	1655CST			0	0	4K	25K	Hail (1.75)
Sheridan County 7 WSW Gordon	05	1658CST	1	50	0	0			Tornado (F0) The tornado touched down briefly over open rangeland.
Sheridan County 3 NW Rushville	05	1711CST	1	50	0	0			Tornado (F0) Spotters observed a brief tornado touch down in open country.
Keya Paha County 18 ENE Springview	05	1955CST			0	0			Hail (0.75)
Sheridan County 6 SW Gordon	05	1658CST	1	50	0	0			Tornado (F0) The tornado touched down briefly but caused no damage.
Logan County Stapleton	05	1700CST 1710CST			0	0	50K	25K	Hail (2.75) The large hail began as walnut sized hail and, within 5 minutes became baseball sized. numerous vehicles were damaged and windows were broken and siding damaged on several residential buildings.
Sheridan County 8 S Rushville to 10 S Rushville	05	1705CST 1709CST	2	50	0	0			Tornado (F0) The Sheridan county Emergency Manager observed several brief tornado touchdowns along the 2 mile path. No property damage was reported.
Thomas County 15 SSE Thedford	05	1725CST			0	0		25K	Hail (1.50)
Sheridan County 9 N Rushville	05	1729CST 1730CST	1	50	0	0			Tornado (F0) A spotter on the scene reported a brief tornado touchdown.
Sheridan County 2 N Hay Spgs	05	1730CST 1731CST	1	50	0	0			Tornado (F0) Spotters reported a brief tornado touch down.
Sheridan County 10 NE Gordon to 12 NE Gordon	05	1740CST 1745CST	2	200	0	0			Tornado (F1) Spotters observed what they described as a large tornado touch down over open uninhabited country that did no damage to property.
Hooker County 12 S Mullen	05	1750CST			0	0			Hail (0.75)
Cherry County 4 SW Brownlee	05	1800CST			0	0			Hail (0.75) Hail was accompanied by 60 mph winds.
Hooker County 3 S Mullen	05	1800CST			0	0			Hail (0.88)
Brown County 20 SW Ainsworth	05	1830CST			0	0			Thunderstorm Wind (G60)
Brown County 23 SW Ainsworth	05	1907CST			0	0	2K		Hail (1.75)
Brown County 5 E Ainsworth	05	1910CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Brown County									
28 SW Ainsworth	05	1912CST			0	0	5K	50K	Hail (3.00)
Rock County									
9 SW Bassett to 5.5 SW Bassett	05	1916CST 1920CST	3.5	50	0	0	75K		Tornado (F0)
									Tornado chasers observed a small tornado that damaged three center pivot irrigation units and two small empty grain bins before going back up into the parent cloud.
Rock County									
4 NNE Bassett to 6.5 NNE Bassett	05	1929CST 1933CST	2.5	250	0	0	750K		Tornado (F1)
									Storm chasers and Law Enforcement observed a tornado that destroyed two center pivot irrigation systems, power poles, and a large grain bin facility.
Cherry County									
11 SSE Valentine	05	1950CST			0	0			Hail (1.00)
Rock County									
3 W Rose	07	1910CST			0	0	2K	50K	Hail (1.75)
Keya Paha County									
10 NE Springview	07	2005CST			0	0			Hail (0.88)
Keya Paha County									
10 ENE Springview	07	2015CST			0	0			Hail (1.00)
Keya Paha County									
17 ENE Springview	07	2105CST			0	0			Hail (1.00)
Boyd County									
Naper	07	2120CST			0	0			Hail (0.75)
Boyd County									
8 WNW Naper	07	2130CST			0	0			Hail (1.00)
Arthur County									
9 S Arthur	08	1625CST			0	0			Hail (0.75)
Cherry County									
41 S Merriman	08	1730CST			0	0			Hail (0.75)
Hooker County									
15 SSW Mullen	08	1835CST			0	0	7K		Hail (2.50)
Thomas County									
8 NE Thedford	08	1915CST			0	0			Hail (0.75)
Brown County									
11 S Johnstown	08	1920CST			0	0			Thunderstorm Wind (G60)
Cherry County									
10 N Elsmere	08	1930CST			0	0			Hail (0.75)
Brown County									
4 WNW Johnstown	08	1945CST			0	0			Hail (0.75)
Chase County									
13 WSW Champion	18	1730CST			0	0		50K	Hail (1.50)
Sheridan County									
5 SW Hay Spgs	20	2140CST			0	0			Hail (0.88)
Boyd County									
Butte	21	0339CST			0	0			Hail (0.75)
Holt County									
10 N O Neill	21	0425CST			0	0			Hail (0.88)
Sheridan County									
7 S Hay Spgs	22	1545CST			0	0			Hail (0.75)
Keya Paha County									
23 WNW Springview	22	1800CST			0	0			Hail (0.75)
Cherry County									
40 SW Valentine	22	1810CST			0	0	10K		Thunderstorm Wind (G80)
									Several large trees were blown down.

Storm Data and Unusual Weather Phenomena

June 1999

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

NEBRASKA, Central

Keya Paha County

Springview	22	1815CST			0	0	100K		Thunderstorm Wind (G100)
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A storm system moved through Springview causing major damage to buildings, power poles and numerous trees. Surface wind estimates were 100 mph. The wind at the top of wind turbines west of Springview were measured at 136 mph about 200 feet above the surface.

Cherry County

2 W Wood Lake	22	1840CST			0	0		Hail (0.88)
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Keya Paha County

8 NNE Springview	22	1840CST			0	0		Hail (0.75)
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Lincoln County

North Platte	22	1840CST			0	0		Hail (0.88)
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Brown County

16 WNW Ainsworth to Ainsworth	22	1845CST			0	0	250K	Thunderstorm Wind (G95)
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A thunderstorm system produced strong wind with speed estimated in excess of 90 mph. The wind storm actually began in eastern Cherry County near Wood Lake and travelled across most of northern Brown County doing major damage to grain bins 10 miles west of Ainsworth. In the city of Ainsworth, numerous trees were broken and roofs were damaged by the wind. A tree fell on a 1998 Ford Pickup smashing the cab. The Pickup was a total loss.

Lincoln County

North Platte	22	1855CST			0	0		Hail (1.00)
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Keya Paha County

20 WNW Springview	22	1900CST			0	0	1K	Thunderstorm Wind (G70)
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At Sunny Brook Camp (20 miles west northwest of Springview) 10 to 12 inch tree branches were down and a canoe trailer was blown over.

Mepherson

11 SSE Tryon	22	1930CST			0	0	50K	Hail (1.50)
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Frontier County

15 SE Stockville	22	1935CST			0	0		Thunderstorm Wind (G65)
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Thunderstorm wind estimated at 60 to 70 mph was observed near Medicine Creek Dam on Harry Strunk Lake.

Logan County

2 S Stapleton to Stapleton	22	1935CST			0	0	30K	60K	Hail (0.88)
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Hail and strong winds in and around Stapleton damaged a center pivot irrigation system and destroyed a half section of irrigated corn.

Rock County

Bassett	22	1935CST			0	0	5K	Thunderstorm Wind (G70)
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Thunderstorm wind broke 10 to 12 inch tree branches off the trees.

Custer County

3 SE Arnold	22	2030CST			0	0		Hail (0.75)
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Grant County

Whitman	24	0825CST			0	0		Hail (0.88)
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Garden County

12 SE Oshkosh	24	1815CST			0	0	8K	25K	Hail (2.00)
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Cherry County

24 SW Valentine	24	1855CST			0	0		Hail (0.88)
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Deuel County

9 NE Chappell	24	1915CST			0	0		Hail (0.88)
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Deuel County

11 ESE Chappell	25	2101CST			0	0		Hail (0.75)
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Keith County

20 W Ogallala to 5 E Ogallala	26	2210CST 2225CST			0	0	30K	500K	Hail (2.50)
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A severe thunderstorm that developed in western Keith County produced tennis ball sized hail which destroyed approximately 10000 acres of wheat. Corn and sugar beets were also damaged; but, those crops were not as sensitive to hail damage because of the early developmental stage of the corn and the underground growth of beets..

Lincoln County

4 NW Sutherland	26	2230CST			0	0	1K	Thunderstorm Wind (G60)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Chase County									
13 WSW Champion	26	2305CST			0	0		10K	Hail (0.75)
		Hail was covering the ground.							
Lincoln County									
North Platte	26	2328CST 2345CST			0	0	500K		Thunderstorm Wind (G80)
		A severe thunderstorm with damaging wind squalls moved through Lincoln and Custer Counties causing extensive loss and damage of trees. Several trees were uprooted and many more were broken in the city of North Platte. Reports from Callaway in southwest Custer County indicated that branches of ten inches in diameter were broken in that area. A few of the fallen trees in North Platte damaged roofs and fences.							
Custer County									
Callaway	27	0030CST			0	0			Thunderstorm Wind (G70)
Frontier County									
4 W Stockville	27	0100CST			0	0	2K		Hail (0.75)
		In addition to the hail, large tree limbs were reported blown down 4 miles west of Stockville and 3 miles southeast of Maywood.							
Cherry County									
45 S Merriman	27	1645CST			0	0			Hail (0.75)
		Tree branches as large as four inches diameter were reported down.							
Cherry County									
12 SW Brownlee	27	1755CST			0	0	7K	25K	Hail (1.75)
		Golf ball sized hail was covering the ground.							
Thomas County									
7 N Thedford	27	1805CST			0	0	7K	25K	Hail (1.75)
Thomas County									
3 N Thedford	27	1816CST			0	0	10K	25K	Hail (1.75)
		Golf ball sized hail driven by 40 mph wind broke windows in a house. At the same time, hail of unknown size had accumulated to a foot deep on U.S. Highway 83 about 16 miles north of Thedford.							
Blaine County									
4 E Dunning	27	1855CST			0	0			Hail (0.75)
Garden County									
2 E Lisco	27	1902CST			0	0			Hail (0.88)
Garden County									
12 SE Oshkosh to 6 SE Lewellen	27	1940CST 2000CST			0	0	60K	1.1M	Hail (1.75)
Deuel County									
9 N Big Spgs	27	2000CST			0	0	10K	50K	Hail (1.75)
Keith County									
30 NW Ogallala to 10 NW Brule	27	2000CST 2020CST			0	0	20K	1.1M	Hail (1.75)
		The thunderstorm became severe in south central Garden County just southeast of Oshkosh and crossed the county line in western Keith County and travelled to near Brule in southwest Keith County. The swath of the hail storm was approximately 4 miles wide and 25 miles long, and it brushed the northeast corner of Deuel county. The wheat on about 64,000 acres was destroyed.							
Keith County									
4 SSE Ogallala	27	2030CST	1	50	0	0			Tornado (F0)
		The tornado touched down briefly.							
Perkins County									
10 NNW Elsie	27	2105CST			0	0	10K	25K	Hail (1.75)
Cherry County									
4 N Merriman	27	2230CST			0	0			Hail (0.88)
Sheridan County									
6 N Gordon	27	2235CST			0	0			Hail (0.75)
Deuel County									
8 NW Chappell	27	2237CST			0	0	10K	25K	Hail (2.50)
Deuel County									
2 W Chappell	27	2252CST	1	50	0	0			Tornado (F0)
		The tornado touched down briefly.							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Chase County									
Imperial to Wauneta	28	0110CST 0115CST			0	0	50K	500K	Hail (1.75)
The hailstorm began in northwest Chase County just north of Lamar and travelled through the county to Wauneta, passing along the south edge of Imperial. According to newspaper reports, damage estimates included 10,000 acres of wheat and 50,000 acres of corn. The wheat was a total loss while losses in corn were estimated to be 11 to 16 percent production decreases.									
Cherry County									
2 NW Kilgore	29	1510CST	1	50	0	0			Tornado (F0)
Coop observer reported a brief tornado touch down.									
Cherry County									
22 WSW Brownlee	29	1525CST			0	0			Hail (0.75)
Cherry County									
4 NE Kilgore	29	1535CST	1	50	0	0			Tornado (F0)
Law Enforcement watched the slow moving tornado touch down briefly.									
Cherry County									
12 W Brownlee	29	1545CST			0	0			Hail (0.75)
Cherry County									
4 ENE Kilgore	29	1545CST	1	50	0	0			Tornado (F0)
Sheriffs deputy observed a brief tornado touch down over open country.									
Cherry County									
15 W Brownlee	29	1550CST			0	0			Hail (1.00)
Cherry County									
5 ENE Kilgore to 6 E Kilgore	29	1550CST 1555CST	2	50	0	0	5K		Tornado (F0)
Law Enforcement officials observed the tornado as it moved slowly along a 2 mile path. Two power poles were downed.									
Cherry County									
8 N Brownlee	29	1615CST			0	0			Hail (0.75)
Cherry County									
8 NW Brownlee	29	1625CST			0	0			Hail (0.75)
Cherry County									
7 SE Brownlee	29	1630CST			0	0			Hail (0.75)
Cherry County									
4 N Brownlee	29	1640CST			0	0			Hail (0.75)
Cherry County									
16 SE Brownlee	29	1645CST			0	0			Hail (0.75)
Thomas County									
Halsey	29	1725CST			0	0			Hail (1.00)
Thomas County									
1 W Halsey	29	1725CST			0	0	5K	55K	Hail (1.75)
Thomas County									
2 SW Halsey	29	1725CST			0	0			Hail (0.75)
Blaine County									
5 WSW Dunning	29	1735CST			0	0		6K	Hail (1.00)
Custer County									
13 NW Anselmo to 3 SW Anselmo	29	1740CST 1805CST			0	0		10K	Hail (1.00)
A severe thunderstorm developed in northwest Custer County and first produced 0.75 inch hail 13 miles northwest of Anselmo. By the time it was southwest of Anselmo, the hail was 1.00 inch in diameter.									
Custer County									
3 S Merna	29	1815CST	1	50	0	0			Tornado (F0)
The tornado touched down briefly.									
Custer County									
6 W Berwyn	29	1833CST			0	0			Hail (0.75)
NEBRASKA, East									
Butler County									
Bellwood to Linwood	01	0000CST 0230CST			0	0			Flash Flood
Flash flooding closed county roads between Bellwood and Linwood.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Colfax County									
Schuyler	01	0000CST 0400CST			0	0			Flash Flood
Flash flooding in town with water over highway 30 and over the park and golf course on the south side of town.									
NEZ050									
Butler									
	01	0200CST			0	0			Flood
	02	0800CST							
Rainfall of 6 to 8 inches fell over the northern half of Butler county from 5/31/99 into the early morning hours 6/1/99. This rainfall caused extensive flooding to county roads in the northern part of the county with 40 roads reported closed along Clear Creek from just east of highway 81 east toward the Octavia and Linwood areas.									
NEZ043									
Colfax									
	01	0220CST			0	0			Flood
	02	0600CST							
Up to 5 inches of rain fell across southern Colfax county which closed 15 roads including highway 15 south of Schuyler and one lane of traffic on highway 30 near Richland. The park and golf course in Schuyler were also flooded.									
NEZ051									
Saunders									
	01	1300CST			0	0			Flood
	02	0400CST							
Rainfall of 3 to 4 inches fell over Saunders county into the early morning hours of 6/1/99. The heavy rain caused Wahoo Creek at Ithaca to reach 20.08 feet during the evening of 6/1/99, flood stage is 19 feet.									
NEZ078									
Saline									
	02	0500CST			0	0			Flood
	04	0500CST							
Three to 6 inches of rain in the upper basin of the Blue River caused the river to flood around the Crete area. The river reached a crest of 20.26 feet at 600 am cst on 6/3/99, flood stage is 18 feet. Mainly lowland flooding of Agricultural land was observed.									
NEZ093									
Richardson									
	02	0500CST			0	0			Flood
	08	1630CST							
Heavy rain over eastern Nebraska and Southwest Iowa much of early June caused the Missouri River to flood bottomlands around Rulo most of this time period. The river crested at 18.87 feet in the morning of 6/7/99, flood stage is 17 feet.									
NEZ091									
Nemaha									
	02	0900CST			0	0			Flood
	30	2359CST							
Above normal rainfall across much of the Missouri River Basin above Brownville caused the Missouri River to flood mainly lowland areas much of June. At Brownville, where the flood stage is 32 feet, there were only a few days in this time period when the river was below 32 feet. Higher crests during the month included...34.96 feet at 900 am cst on 6/3/99, 34.8 feet in the afternoon of 6/6/99 and the highest of 37.02 feet at 845 am cst on 6/29/99. The last stage flooded the Riverview Marina causing evacuation of camping sites.									
NEZ068									
Otoe									
	02	1800CST			0	0			Flood
	07	0500CST							
Persistent heavy rain over eastern Nebraska and southwest Iowa caused the Missouri River to flood bottomlands around Nebraska City for much of this time period. The river reached 19.35 feet at 600 am cst on 6/3/99 and 18.8 feet at 600 am cst on 6/6/99, flood stage is 18.0 feet.									
Antelope County									
Elgin	03	2318CST	0.1	20	0	0			Tornado (F0)
Brief touchdown reported by Elgin police just west of town.									
Antelope County									
Elgin	03	2327CST			0	0			Hail (0.75)
Madison County									
Newman Grove	04	0010CST			0	0			Hail (1.00)
Platte County									
Creston	04	0020CST			0	0			Hail (1.00)
Madison County									
Newman Grove	04	0028CST 0230CST			0	0			Flash Flood
Flash flooding of Dry Creek and Shell Creek closed a road near town and made sandbagging necessary around several homes.									
Madison County									
Madison	04	0038CST			0	0			Thunderstorm Wind (G52)
At junction of highways 81 and 32.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Platte County									
2 NE Humphrey	04	0045CST			0	0	5K		Thunderstorm Wind (G55)
Winds over 60 mph blew down signs along highway 81 in northern Platte County.									
Madison County									
1 S Madison	04	0050CST	0	20	0	0	8K		Tornado (F0)
Brief apparent touchdown took the roof off of a chicken house plus damaged a metal shed.									
Madison County									
Madison	04	0100CST 0230CST			0	0	300K		Flash Flood
Around 5 inches of rain fell in the Madison area causing flash flooding along Union Creek which forced some residents along the creek to be evacuated to the auditorium. The heavy rain also ripped up around a block of asphalt covering a brick street and washed out a half-mile section of railroad track near town.									
Boone County									
7 E Petersburg	04	0100CST 0200CST			0	0			Flash Flood
Water over highway 32 east of town.									
Stanton County									
8 SSW Stanton	04	0100CST	0	20	0	0			Tornado (F0)
Brief rainwrapped touchdown damaged one old outbuilding and an 18 inch cottonwood tree.									
Platte County									
.5 N Humphrey	04	0100CST 0600CST			0	0	10K		Flash Flood
Three to 5 inches of rain in northern Platte county caused extensive flash flooding which closed highway 91 just west of its junction with highway 81. A pickup with 2 people in it was washed off of highway 91 near Humphrey and swept 1/2 mile downstream totally destroying the truck. The occupants were not hurt.									
Platte County									
Lindsay	04	0100CST 0600CST			0	0			Flash Flood
Lindsay Manufacturing parking lot was evacuated after becoming submerged by flood waters.									
Stanton County									
2 S Stanton	04	0111CST			0	0			Hail (0.75)
Stanton County									
5 SW Stanton	04	0140CST 0500CST			0	0			Flash Flood
Three to 4 inches of rain caused flash flooding of 5 county roads southwest of Stanton near the Wood Duck State Wildlife Management Area. Railroad tracks in this area were also washed out.									
Cuming County									
Wisner	04	0145CST 0315CST			0	0			Flash Flood
Eight inches of water over highway 275 through town.									
NEZ042									
Platte									
	04	0200CST 1500CST			0	0			Flood
Heavy rain of 3 to 4 inches flooded highway 91 near Lindsay into the afternoon hours Friday 06/04/99.									
Thurston County									
2 S Pender	04	0250CST 0430CST			0	0			Flash Flood
Highway 9 just south of Pender flooded.									
Washington									
Blair	04	0320CST			0	0			Hail (1.00)
Mostly pea size but a few up to 1 inch.									
NEZ044									
Dodge									
	04	0500CST 2000CST			0	0			Flood
Heavy rain early on the 4th caused minor lowland flooding along Maple Creek in Dodge county. The creek reached 11.7 feet at Nickerson during the afternoon of the 4th, flood stage is 10 feet.									
NEZ033									
Cuming									
	04	1200CST			0	0			Flood
	05	0400CST							
Heavy rain early on the 4th caused minor lowland flooding along the Elkhorn River in Cuming county. The river reached 12.5 feet at West Point at 500 pm on 6/4/99, flood stage is 12 feet.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
NEZ032									
		Stanton							
	04	1300CST			0	0			Flood
	05	0100CST							
	Heavy rain early on the 4th caused lowland flooding along the Elkhorn River in Stanton county. The river reached 14.2 feet at Pilger early in the afternoon on 6/4/99, flood stage is 12 feet.								
Madison County									
Newman Grove	05	1530CST			0	0			Hail (0.88)
Pierce County									
Pierce	05	1551CST			0	0			Hail (0.75)
Cedar County									
Belden	05	1625CST			0	0			Hail (0.75)
Knox County									
Crofton	05	1642CST			0	0			Hail (0.88)
Richardson									
6 NE Humboldt	06	1538CST			0	0			Hail (0.88)
Washington									
Kennard	09	1631CST			0	0			Hail (0.88)
Saunders County									
8 WNW Weston	09	1725CST			0	0			Hail (1.50)
Butler County									
2 E Bruno	09	1740CST			0	0			Hail (0.88)
Saunders County									
3 W Weston	09	1742CST			0	0			Hail (1.50)
Seward County									
9 N Utica	09	1840CST			0	0			Hail (0.75)
Butler County									
Surprise	09	1853CST			0	0			Hail (0.75)
Saunders County									
5 S Morse Bluff	09	1955CST			0	0			Hail (1.75)
Saunders County									
4 WSW Morse Bluff	09	2000CST			0	0			Thunderstorm Wind (G52)
	A few large limbs downed.								
Seward County									
4 W Beaver Crossing	09	2009CST			0	0			Hail (0.75)
Seward County									
Goehner	09	2025CST			0	0			Thunderstorm Wind (G61)
	Estimated 70 mph thunderstorm wind gust blew over a semi truck on I-80 west of Goehner interchange.								
Saline County									
4 N De Witt	09	2030CST			0	0			Hail (1.00)
Butler County									
Linwood	09	2052CST			0	0			Hail (1.00)
Saunders County									
1 S Wahoo	10	0400CST 0600CST			0	0			Flash Flood
	Flash flooding closed highway 77 south of town for a while.								
Cedar County									
Wynot	10	0400CST 0930CST			0	0			Flash Flood
	Two to 3 inches of rain, with an isolated 7 inch report, caused flash flooding around the Wynot area...mainly along the West Bow Creek area.								
NEZ051									
		Saunders							
	10	1900CST			0	0	25K		Flood
	11	0100CST							
	Heavy rain overnight on 6/9/99 into 6/10/99 am eventually made its way into larger streams in Saunders county washing out a county road 6.5 miles west of Morse Bluff and a bridge just south and west of Swedeburg. Wahoo creek at Ithaca reached 19.3 feet early on 6/11/99, flood stage is 18 feet.								

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
NEZ093									
			Richardson						
	12	0400CST			0	0			Flood
	15	0900CST							
	Heavy rain over the area caused the Missouri River to again flood for an extended time period in Richardson county. The river reached 18.8 feet at Rulo at 430 pm cst on 6/13/99, flood stage is 17 feet.								
NEZ078									
			Saline						
	12	0600CST			0	0			Flood
	13	1400CST							
	Heavy rain in the upper portions of the Blue River on the 10th and 11th caused minor lowland flooding of the Big Blue River around Crete and of the West Fork of the Big Blue River near Dorchester. The river reached 19.7 feet at Crete during the morning hours of 6/13/99, flood stage is 18 feet. The West Fork reached 17.1 feet at Dorchester at 230 am cst on 6/12/99, flood stage is 15 feet.								
NEZ068									
			Otoe						
	12	1300CST			0	0			Flood
	13	0800CST							
	Additional heavy rain caused the Missouri River to crest at 18.4 feet at 600 pm cst on 6/12/99, flood stage is 18 feet.								
Butler County									
David City	27	0200CST			0	0			Thunderstorm Wind (G55)
	Thunderstorm wind gust over 60 mph snapped two relatively large trees almost in half.								
Platte County									
2 W Columbus	27	0230CST 0430CST			0	0			Flash Flood
	Flash flooding of county roads west of Columbus from overnight rainfall of around 4 inches.								
NEZ051									
			Saunders						
	27	0300CST			0	0			Flood
	28	0200CST							
	Heavy rain during the morning hours of 6/27/99 caused Wahoo Creek at Ithaca to reach around 20.5 feet during the evening of 6/27/99, flood stage is 19 feet.								
Butler County									
David City	27	0400CST 0800CST			0	0			Flash Flood
	Rainfall of 3 to 4 inches of rain caused flash flooding of many county roads north of David City with water also across highway 15 north of town.								
Saline County									
1 N Crete	27	0405CST			0	0			Thunderstorm Wind (G52)
	Thunderstorm gusts did some tree and crop damage.								
Saunders County									
Ashland	27	0530CST 0730CST			0	0			Flash Flood
	Flash flooding of highway 63 near Ashland.								
Nemaha County									
Auburn	27	0545CST			0	0			Thunderstorm Wind (G61)
	Trees downed on roads.								
Nemaha County									
Brownville	27	0555CST			0	0			Thunderstorm Wind (G52)
Lancaster County									
2 NE Davey	27	0600CST 0800CST			0	0			Flash Flood
	Flash flooding over highway 77 northeast of Davey.								
Saunders County									
Ceresco	27	0600CST 0800CST			0	0			Flash Flood
	Flash flooding over highway 77 near Ceresco.								
NEZ042									
			Platte						
	27	0600CST 1000CST			0	0			Flood
	Four to 5 inches of rain overnight caused flooding of Lost Creek 8 miles northwest of Columbus near the Oconee area. The flooding closed a few county roads.								

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, East</u>									
NEZ067		Cass							
	27	1000CST 2200CST			0	0	40K		Flood
	Heavy rain of 2 to 4 inches fell over most of Cass county in a 6 hour period ending around 800 am on the 27th. This caused extensive flooding along Weeping Water Creek on the 27th which washed out 8 county roads and heavily damaged one bridge. The Creek crested at 27.4 feet around 4pm on the 27th at Union...flood stage is 25 feet.								
NEZ065		Seward							
	27	1800CST 2100CST			0	0			Flood
	Heavy rain early on the 27th caused Plum Creek near Seward to flood over a bridge on a county road south of town during the evening of the 27th.								
NEZ093		Richardson							
	27	1900CST 2359CST			0	0			Flood
	For at least the 3rd time in June an extended flood event was observed along the Missouri River in Richardson county. At Rulo the river reached 21.5 feet at 430 am on 6/29/99, flood stage is 17 feet. The flooding continued into July.								
NEZ050		Butler							
	27	2000CST 28 2000CST			0	0			Flood
	Heavy rain of 3 to 4 inches early on the 27th caused the Big Blue River to flood agricultural lowlands from Surprise through Uylsses. The River at Surprise reached an estimated 8.7 feet at 600 am cst on 6/28/99, flood stage is 7 feet.								
NEZ068		Otoe							
	27	2000CST 30 2345CST			0	0			Flood
	Heavy rain brought the Missouri River out of its banks in Otoe county around Nebraska City for at least the 3rd time in June. The river at Nebraska City reached 20.71 feet during the morning hours on 6/29/99 and remained above its 18 foot flood stage into July.								
NEZ078		Saline							
	28	0100CST 30 0400CST			0	0			Flood
	Heavy rain on 6/27/99 caused minor lowland flooding along the Big Blue River near Crete. The river at Crete crested at 20.83 feet at 600 am cst on 6/29/99, flood stage is 18 feet.								
Wayne County									
3 NE Wayne	30	1355CST	0	10	0	0			Tornado (F0)
	Pilot reported a brief touchdown of a small tornado.								
Cass County									
Eagle	30	1540CST 1800CST			0	0			Flash Flood
	Heavy rainfall of 1 to 3 inches in several hours caused flash flooding near Eagle.								
NEZ067		Cass							
	30	1820CST 2100CST			0	0			Flood
	For the second time in less than a week flooding in Cass county caused extensive damage to county roads.								
<u>NEBRASKA, Extreme Northeast</u>									
Dakota County									
4 NW Jackson	05	1535CST			0	0			Hail (1.75)
Dixon County									
4 SE Newcastle	05	1645CST			0	0			Hail (1.75)
Dixon County									
Allen	27	0244CST			0	0			Thunderstorm Wind (G57)
Dixon County									
5 S Newcastle	27	0305CST			0	0	5K		Thunderstorm Wind (G52)
	Thunderstorm winds caused tree damage, including 8 inch diameter limbs broken.								
<u>NEBRASKA, Extreme Southwest</u>									
Dundy County									
21 N Haigler	02	1930MST			0	0			Hail (0.75)
Dundy County									
21 N Haigler	02	1930MST			0	0			Hail (0.75)
Dundy County									
20 N Haigler	18	1640MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, Extreme Southwest</u>									
Dundy County									
Haigler	18	1657MST			0	0			Hail (0.75)
Red Willow									
7 NE Indianola	22	1600CST			0	0			Hail (0.75)
Hitchcock County									
1 W Stratton	22	1905CST			0	0			Hail (0.75)
Red Willow									
6 SSE Mc Cook	26	1920CST			0	0			Hail (0.75)
Red Willow									
4 NW Danbury	26	1951CST 2000CST	0.5	250	0	0	6.5K		Tornado (F1)
Red Willow									
9 NNW Danbury	26	2015CST	0.2	100	0	0			Tornado (F0)
Red Willow									
8 SW Mc Cook	26	2020CST			0	0			Hail (1.00)
Red Willow									
Mc Cook	26	2042CST			0	0			Hail (1.75)
Red Willow									
Mc Cook	26	2100CST			0	0			Hail (1.25)
Red Willow									
Mc Cook	26	2130CST			0	0			Hail (1.75)
Red Willow									
Danbury	26	2147CST			0	0			Hail (0.75)
Red Willow									
Mc Cook	26	2147CST Street flooding in city of McCook.			0	0			Flash Flood
Dundy County									
12 N Parks	26	2245MST			0	0			Hail (0.88)
Red Willow									
Mc Cook	27	0055CST 5 Inch diameter tree limbs broken by strong winds.			0	0			Thunderstorm Wind (G60)
Hitchcock County									
4 S Culbertson	27	0100CST Numerous large tree limbs broken by strong winds.			0	0			Thunderstorm Wind (G60)
Dundy County									
23 NNE Benkelman	28	0035MST			0	0			Hail (1.00)
Dundy County									
4 N Max	30	0950MST			0	0			Hail (1.00)
<u>NEBRASKA, South Central</u>									
Harlan County									
9 SE Stamford	03	1920CST			0	0	0	0	Hail (1.75)
Harlan County									
Alma	03	1950CST			0	0	0	0	Hail (0.75)
Valley County									
12 W Ord to 7 N Ord	03	2220CST 2315CST	14	1000	0	0	1.5M	1M	Tornado (F3)
Valley County									
Elyria	03	2345CST Late in the evening of June 3rd, a severe thunderstorm produced a large tornado across northwest Valley county. The thunderstorm entered the western part of the county around 11 pm. Shortly thereafter, the tornado touched down 12 miles west of Ord and snaked its way northeast before lifting after midnight about 7 miles north of Ord. This F3 tornado had a damage path almost one-half mile wide at one point. It completely destroyed two farmsteads and damaged two others along its path. At the two destroyed farmsteads, residents took shelter in the basement upon warning. The tornado tossed cars and farm equipment up to 300 feet, strewn irrigation pipe across the countryside and killed livestock. The two destroyed homes were completely wiped from the foundation. However, given sufficient warning, no one in the storms path was injured or killed.			0	0	0	0	Hail (0.75)
Franklin County									
Franklin	04	2330CST			0	0	75K	0	Thunderstorm Wind (G62)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Collapsing thunderstorms in northern Kansas produced wind gusts to 70 mph across a small part of southern Nebraska. In Franklin county, numerous tree limbs and power lines were downed by the wind. A garage was destroyed and church sign blown over. The next morning, residents awoke to a quarter inch of fine dust in their homes. Some driving at the time of the wind compared conditions to the "Dust Bowl" years of the 1930s.									
York County Bradshaw	09	1814CST			0	0	0	1M	Hail (1.75)
York County 5 SW York	09	1913CST			0	0	10K	500K	Hail (1.00)
York County Mc Cool Jct	09	1940CST			0	0	10K	500K	Hail (1.00)
York County 3 SE Lushton	09	2010CST	0.2	30	0	0	0	0	Tornado (F0)
York County South Portion	09 10	2120CST 0000CST			0	0	50K	1M	Flash Flood
Buffalo County Kearney	09	2213CST			0	0	0	0	Hail (0.75)
Severe thunderstorms pounded portions of south-central Nebraska with heavy rain and hail during the evening hours. An average of 4 to 6 inches of rain fell across southern York county forcing water over U.S. Highway 81 in McCool Junction. Widespread hail and wind along with the heavy rain caused substantial corn and soybean damage. Some county roads and bridges near Henderson, Bradshaw and McCool Junction were damaged by the high water. A storm chaser in the area witnessed a brief tornado south of York. It touched down in an open field and caused no damage.									
Merrick County Central City	22	2200CST			0	0	0	0	Thunderstorm Wind (G52)
Nance County Fullerton	22	2210CST			0	0	75K	0	Thunderstorm Wind (G57)
Kearney County 1.5 N Axtell to 2 N Axtell	23	2032CST 2034CST	0.5	20	0	0	0	0	Tornado (F0)
Kearney County 5 SW Minden	23	2115CST			0	0	0	150K	Thunderstorm Wind (G61)
A renegade thunderstorm moved southeast across western Kearney county and produced a brief tornado just north of Axtell. The tornado was observed by a trained spotter and no damage was reported.									
Franklin County Upland	26	1830CST			0	0	5K	150K	Hail (1.00)
Dawson County Gothenburg	27	0030CST			0	0	0	0	Thunderstorm Wind (G56)
Nance County Fullerton	27	0115CST			0	0	0	0	Thunderstorm Wind (G52)
Dawson County Farnam	27	0130CST			0	0	0	0	Thunderstorm Wind (G52)
Gosper County Elwood	27	0130CST			0	0	0	0	Thunderstorm Wind (G52)
Nance County Genoa	27	0130CST			0	0	0	0	Thunderstorm Wind (G52)
Merrick County 5 NE Central City	27	0150CST			0	0	0	0	Thunderstorm Wind (G56)
Furnas County Beaver City	27	0200CST			0	0	200K	500K	Thunderstorm Wind (G69)
Phelps County Atlanta	27	0200CST			0	0	75K	200K	Thunderstorm Wind (G61)
Phelps County Holdrege	27	0200CST			0	0	15K	150K	Thunderstorm Wind (G56)
Buffalo County Kearney	27	0215CST			0	0	0	0	Thunderstorm Wind (G52)
Harlan County Alma	27	0215CST			0	0	150K	500K	Thunderstorm Wind (G69)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Phelps County									
Funk	27	0215CST			0	0	0	0	Thunderstorm Wind (G52)
Harlan County									
Alma	27	0230CST			0	0	100K	500K	Thunderstorm Wind (G69)
Harlan County									
Ragan	27	0230CST			0	0	100K	500K	Thunderstorm Wind (G69)
Kearney County									
Wilcox	27	0230CST			0	0	200K	500K	Thunderstorm Wind (G69)
Polk County									
Osceola	27	0230CST			0	0	20K	150K	Thunderstorm Wind (G61)
Kearney County									
Minden	27	0245CST			0	0	100K	500K	Thunderstorm Wind (G69)
Kearney County									
Norman	27	0245CST			0	0	100K	750K	Thunderstorm Wind (G69)
Buffalo County									
2 E Kearney	27	0250CST			0	0	80K	0	Thunderstorm Wind (G61)
Franklin County									
Franklin	27	0250CST			0	0	20K	150K	Thunderstorm Wind (G56)
Adams County									
Ayr	27	0300CST			0	0	40K	250K	Thunderstorm Wind (G61)
Webster County									
Blue Hill	27	0300CST			0	0	80K	0	Lightning
Webster County									
Blue Hill	27	0300CST			0	0	0	0	Thunderstorm Wind (G52)
Webster County									
Red Cloud	27	0300CST			0	0	0	0	Thunderstorm Wind (G52)
Adams County									
Hastings	27	0305CST			0	0	25K	0	Thunderstorm Wind (G56)
Hall County									
Wood River	27	0310CST			0	0	0	0	Thunderstorm Wind (G52)
Nuckolls County									
6 NE Lawrence	27	0315CST			0	0	0	0	Thunderstorm Wind (G52)
Hamilton County									
Marquette	27	0320CST			0	0	0	0	Thunderstorm Wind (G52)
Clay County									
Clay Center	27	0330CST			0	0	50K	150K	Thunderstorm Wind (G61)
Merrick County									
Silver Creek	27	0330CST			0	0	25K	100K	Thunderstorm Wind (G61)
Fillmore County									
Geneva	27	0335CST			0	0	0	0	Thunderstorm Wind (G51)
Thayer County									
Belvidere	27	0340CST			0	0	0	0	Thunderstorm Wind (G51)

Widespread wind damage occurred during the predawn hours of June 27 as a line of severe thunderstorms packing winds up to 80 mph roared across south-central Nebraska. The hardest hit areas were Furnas, Harlan and Kearney counties. In Furnas county, trees were uprooted and 12 inch tree limbs snapped. Windows were blown out and a horse trailer moved 20 feet by the wind. Damage to grain bins and outbuildings was extensive. In Harlan county, ten center irrigation pivots were lost and 5 to 10 percent of the corn and soybean crop suffered "green snap" damage from the wind. A portion of the roof was torn from a home near Stamford and numerous trees were uprooted in the area. Finally in Kearney county, the funeral home in Wilcox lost its roof in the wind. The interior was badly damaged as well. Quite a few grain bins were lost in southern Kearney county along with about a dozen center pivots. In all, 100 to 150 power poles were snapped in the three county area. Power was out for several hours in many areas.

Elsewhere, damage was less extensive but still widespread to trees and some small buildings. In Blue Hill, lightning struck a home and nearly burned it to the ground. The occupants were able to escape without injury. Power poles were snapped near Clay Center and a portion of a roof was ripped from a barn on a farm near Edgar. Heavy rainfall of 2 to 4 inches forced water over low lying areas and temporarily flooded the streets of Kearney. Just east of Kearney, a wind gust blew over two semi tractor trailers on Interstate 80. Damage to the trucks was extensive but no injuries resulted.

Storm Data and Unusual Weather Phenomena

June 1999

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

NEBRASKA, South Central

Harlan County

1 E Oxford 28 0310CST 0 0 5K 0 Thunderstorm Wind (G55)

Phelps County

4 S Bertrand 28 0310CST 0 0 5K 0 Thunderstorm Wind (G55)

Phelps County

2 NW Atlanta 28 0320CST 0 0 5K 0 Thunderstorm Wind (G55)

Strong winds from a severe thunderstorm snapped a few power poles in northwest Harlan and southwest Phelps counties. A window and fuel tanks were damaged by the wind northwest of Atlanta too.

NEBRASKA, West

Banner County

Harrisburg 02 1711MST
1715MST 0 0 Hail (0.88)

Nickel size hail reported 15 miles northeast of Harrisburg, NE

Scotts Bluff

Mc Grew 02 1735MST
1741MST 0 0 Hail (1.00)

3/4 to 1 inch hail in Mc Grew, NE

Morrill County

Bridgeport 02 1740MST
1744MST 0 0 Hail (1.00)

1 inch hail reported 3 miles northeast of Bridgeport, NE

Morrill County

Bridgeport 02 1748MST
1752MST 0 0 Hail (1.00)

1 inch hail reported 6 miles northeast of Bridgeport, NE

Box Butte County

Hemingford 02 1827MST
1831MST 0 0 Hail (0.75)

3/4 inch hail reported 15 miles west of Hemingford, NE

Box Butte County

Alliance Arpt 02 1840MST
1843MST 0 0 Hail (0.75)

Box Butte County

Alliance 02 1845MST
1850MST 0 0 Hail (0.75)

3/4 inch hail reported 4 miles southeast of Alliance, NE

Dawes County

Ft Robinson 02 1855MST
1904MST 0 0 Hail (0.88)

Sioux County

Harrison 02 1904MST
1908MST 0 0 Hail (1.75)

Golfball size hail reported 22 miles northeast of Harrison, NE

Sioux County

Harrison 04 1532MST
1536MST 0 0 20K Hail (1.75)

Golfball size hail reported on east side of Harrison, NE

Sioux County

Harrison 04 1600MST
1605MST 0 0 3K 3K Hail (1.75)

Golfball size hail reported 22 miles northeast of Harrison, NE

Sioux County

Harrison 04 1612MST
1615MST 0 0 Hail (1.00)

1 inch hail reported 18 miles north of Harrison, NE

Sioux County

Harrison 04 1615MST
1618MST 0.1 30 0 0 Tornado (F0)

Brief tornado reported 14 miles north of Harrison, NE

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Sioux County									
Harrison	04	1618MST 1620MST			0	0	10K	5K	Hail (2.50)
									2.50 inch hail reported 22 miles northeast of Harrison, NE
Dawes County									
Whitney	04	1628MST 1631MST	0.1	30	0	0			Tornado (F0)
									Brief tornado reported northwest of Whitney, NE
Dawes County									
Crawford	04	1633MST 1636MST			0	0			Hail (0.88)
									Nickel size hail reported 11 miles north of Crawford, NE
Scotts Bluff									
Mc Grew	05	1455MST 1508MST			0	0	30K		Hail (1.50)
Box Butte County									
Hemingford	05	1539MST 1543MST			0	0			Hail (1.50)
									1.50 inch hail reported 4 miles west of Hemingford, NE
Box Butte County									
Alliance	05	1545MST 1548MST			0	0			Hail (0.75)
									3/4 inch hail reported 23 miles west of Alliance, NE
Box Butte County									
Hemingford	05	1549MST 1553MST			0	0			Hail (1.00)
									1 inch hail reported 3 miles northwest of Hemingford, NE
Dawes County									
Box Butte Res	05	1607MST 1610MST			0	0			Hail (0.75)
									3/4 inch hail reported near Box Butte Reservoir
Dawes County									
Chadron	05	1625MST 1635MST			0	0			Hail (0.75)
Sioux County									
Harrison	10	1755MST 1802MST	0.3	30	0	0			Tornado (F0)
									Tornado reported north of Henry, NE
Sioux County									
Harrison	10	1800MST 1806MST	0.2	30	0	0			Tornado (F0)
									Tornado reported 12 miles north of Mitchell, NE
Sioux County									
Harrison	10	1830MST 1835MST	0.2	30	0	0			Tornado (F0)
									Tornado 10 miles north of Scottsbluff, NE
Sioux County									
Harrison	10	1921MST 1925MST	0.1	30	0	0			Tornado (F0)
									Tornado 13 miles north-northeast of Scottsbluff, NE
Box Butte County									
Hemingford	10	1936MST 1940MST			0	0			Hail (1.00)
									1 inch hail reported 15 miles west of Hemingford, NE
Sioux County									
Harrison	12	1600MST 1604MST			0	0			Hail (0.75)
									3/4 inch hail reported 7 miles southwest of Harrison, NE
Morrill County									
Angora	12	1610MST 1614MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Morrill County									
Bayard	12	1655MST 1659MST			0	0			Hail (0.75)
			3/4 inch hail along highway L62A 4 miles north of Bayard, NE						
Scotts Bluff									
Melbeta	14	1437MST 1443MST			0	0	25K		Hail (1.75)
Scotts Bluff									
Melbeta	14	1450MST 1455MST			0	0			Hail (1.00)
			1 inch hail reported 3 miles south of Melbeta, NE						
Banner County									
Harrisburg	14	1530MST 1534MST			0	0			Hail (0.75)
			3/4 inch hail reported 9 miles northeast of Harrisburg, NE						
Scotts Bluff									
Gering	14	1715MST 1720MST			0	0			Hail (0.75)
			3/4 inch hail reported 5 miles south of Gering, NE						
Kimball County									
Kimball	14	1832MST 1837MST			0	0			Hail (0.75)
Morrill County									
Bridgeport	19	1845MST 1850MST			0	0			Hail (1.75)
			Hail, mostly 1 inch or less, but a few stones up to golfball size, reported 15 miles southeast of Bridgeport, NE						
Cheyenne County									
Dalton	19	1845MST 1849MST			0	0			Hail (0.75)
			3/4 inch hail reported 3 miles southeast of Dalton, NE						
Cheyenne County									
Dalton	19	1930MST 1934MST			0	0			Hail (0.75)
Box Butte County									
Hemingford	20	2010MST 2014MST			0	0			Hail (0.75)
			3/4 inch hail reported 4 miles southwest of Hemingford, NE						
Cheyenne County									
Lodgepole	24	1727MST 1733MST			0	0	10K		Hail (1.75)
			Golfball size hail reported 2 miles north of Lodgepole, NE						
Cheyenne County									
Sidney	24	1815MST 1819MST			0	0			Hail (0.75)
			3/4 inch hail reported 11 miles northeast of Sidney, NE						
Cheyenne County									
Sidney	24	1855MST 1859MST			0	0			Hail (0.88)
			Nickel size hail reported 8 miles northwest of Sidney, NE						
Cheyenne County									
Gurley	25	1815MST 1818MST			0	0			Thunderstorm Wind (G60)
			6 to 7 inch diameter limbs broken by high wind gusts 7 miles southeast of Gurley, NE						
Banner County									
Harrisburg	26	1710MST 1715MST			0	0			Hail (0.75)
			3/4 inch hail reported 20 miles northwest of Harrisburg, NE						
Banner County									
Harrisburg	26	1720MST 1724MST			0	0			Hail (1.00)
			1 inch hail fell 12 miles northwest of Harrisburg, NE						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, West									
Banner County									
Harrisburg	26	1726MST 1728MST	0.1	25	0	0			Tornado (F0)
Tornado briefly touched down west of Harrisburg, NE									
Banner County									
Harrisburg	26	1755MST 1800MST			0	0			Hail (1.00)
1 inch hail reported 8 miles south of Harrisburg, NE									
Kimball County									
Kimball	26	1827MST 1830MST			0	0			Hail (1.75)
1 3/4 inch hail reported 9 miles northeast of Kimball, NE									
Cheyenne County									
Potter	26	1839MST 1846MST			0	0			Hail (2.75)
2 3/4 inch hail reported 4 miles north of Potter, NE									
Cheyenne County									
Potter	26	1839MST 1845MST			0	0	250K		Hail (2.75)
Cheyenne County									
Potter	26	1842MST 1846MST			0	0			Hail (1.00)
Cheyenne County									
Potter	26	1857MST 1900MST			0	0			Hail (1.00)
Cheyenne County									
Brownson	26	1906MST 1915MST			0	0	6M	20M	Hail (2.75)
Thunderstorms with large hail and winds exceeding 80 mph caused extensive damage to crops and property over a large part of western Cheyenne county in Nebraska, with many crops completely destroyed. This was the most damaging hailstorm ever recorded in Cheyenne county. Power was knocked out in Sidney with some streets flooded in the city. Meteorological observation equipment at the Sidney airport was severely damaged.									
Cheyenne County									
(Sny)Sidney Arpt	26	1925MST 1928MST			0	0			Thunderstorm Wind (G73)
Cheyenne County									
Sidney	26	1927MST 1929MST	0.1	40	0	0			Tornado (F0)
Brief tornado reported 5 miles north of Sidney, NE									
Banner County									
Harrisburg	26	2028MST 2032MST			0	0			Hail (0.88)
Banner County									
Harrisburg	26	2055MST 2100MST			0	0	50K		Hail (1.75)
Scotts Bluff									
Henry	27	1546MST 1551MST			0	0			Hail (1.75)
1 3/4 inch hail reported 3 miles south of Henry, NE									
Scotts Bluff									
Mitchell	27	1548MST 1602MST			0	0	50K		Hail (1.25)
Scotts Bluff									
Scottsbluff	27	1617MST 1625MST			0	25	55M	2M	Hail (2.75)
A large severe thunderstorm with very large hail caused extensive damage to crops and property over much of Scotts Bluff county in western Nebraska. Hardest hit was the city of Scottsbluff, where the largest hail was reported. 25 injuries were reported, mainly due to shattered glass while inside automobiles. The Scottsbluff zoo reported injuries to many animals, particularly birds.									
Scotts Bluff									
Gering	27	1621MST 1625MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, West</u>									
Scotts Bluff									
Scottsbluff	27	1623MST 1627MST			0	0			Hail (1.75)
			1 3/4 inch hail reported 2 miles southeast of Scottsbluff, NE						
Scotts Bluff									
Scottsbluff	27	1625MST 1630MST			0	0			Hail (2.00)
			2 inch hail reported 1 mile northwest of Scottsbluff, NE						
Scotts Bluff									
Mc Grew	27	1643MST 1647MST	0.5	50	0	0	20K		Tornado (F1)
			Tornado blew a roof off a house in Mc Grew, NE						
Scotts Bluff									
Scottsbluff	27	1651MST 1655MST	0.2	30	0	0			Tornado (F0)
			Tornado reported 8 miles south of Scottsbluff, NE						
Morrill County									
Redington	27	1717MST 1725MST	0.3	40	0	0			Tornado (F0)
			Numerous reports of tornadoes in the Redington and Bridgeport, NE areas.						
Morrill County									
Bridgeport	27	1717MST 1725MST			0	0	500K		Hail (2.50)
			2 1/2 inch hail reported 2 miles west of Bridgeport, NE						
Kimball County									
Kimball	27	2048MST 2053MST			0	0			Hail (1.75)
Cheyenne County									
Potter	27	2114MST 2122MST			0	0			Hail (1.00)
Cheyenne County									
Lodgepole	27	2140MST 2148MST			0	0			Hail (0.88)
Cheyenne County									
Lodgepole	27	2140MST 2148MST			0	0			Hail (1.75)
			1 3/4 inch hail reported 4 miles northwest of Lodgepole, NE						
Box Butte County									
Alliance	30	1605MST 1610MST	0.1	25	0	0			Tornado (F0)
			Tornado reported 7 miles west-southwest of Alliance, NE						
<u>NEVADA, North</u>									
NVZ012									
Lander/Eureka									
	02	2000PST			0	0			Heavy Snow
	03	0800PST							
			8 inches of new snow was reported in Austin.						
<u>NEVADA, South</u>									
NVZ019									
Spring Mountains									
	04	0300PST 1030PST			0	0			Heavy Snow
			A late season Pacific storm brought heavy snow to the extreme southern Nevada mountains. The Spring Mountains received 7 to 8 inches of new snow in a six hour period at elevations between 7,000 and 8,000 feet.						
<u>NEVADA, West</u>									
NVZ003									
Greater Reno/Carson City/Minden Area									
	02	2000PST			0	0	0		Heavy Snow
	03	0500PST							
			Overnight snowfall in the Carson Valley from unusually late winter storm left 2-5 inches on valley floor, elevation 4500 feet.						

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW HAMPSHIRE, North and Central

NHZ001>010- Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton -

	01	0000EST			0	0			Dry Conditions
	30	2359EST							

Dry conditions continued in June. The Palmer Drought Severity Index dropped to a moderate drought category. Forest fire danger was high. Streamflow conditions also continued to be below normal. As of the end of the month, the state was on track to set a new record for the number of fires in a single year. Through June, 1048 fires had burned 460 acres and 34 buildings in the state. The busiest year previously was 1985 when 1605 fires were recorded. The state's drought management team issued a drought warning asking residents of the state to voluntarily conserve water.

Merrimack

	28	1440EST			0	0			Thunderstorm Wind (G62)
		1445EST							

A microburst from a severe thunderstorm knocked down numerous trees in the town of Loudon. The trees, in turn, knocked down power lines in the area, leaving many residents without electrical service.

Merrimack

	28	1609EST			0	0			Lightning
--	----	---------	--	--	---	---	--	--	-----------

Lightning struck the Allenstown Town Hall igniting a fire in the eaves of the building. Several holes in the attic of the building were also attributed to the lightning.

Merrimack

	28	1615EST			0	0			Lightning
--	----	---------	--	--	---	---	--	--	-----------

Lightning struck and ignited a fire in a shed in Allenstown. The fire quickly spread to a mobile home located next to the shed and completely destroyed the mobile home.

Belknap County

	29	1400EST			0	0			Lightning
--	----	---------	--	--	---	---	--	--	-----------

A home in Sanbornton suffered extensive smoke damage after an electrical panel and the basement floor caught fire when lightning struck a tree about 40 feet away. The fire spread to the floor joists and to an upstairs bedroom before being extinguished.

Carroll County

	29	1550EST			0	0			Lightning
		1555EST							

Lightning ignited a fire that destroyed a workshop and storage shed in Wakefield. Minutes later, another lightning strike ignited a fire in a house in the town. Reportedly, the home was badly damaged.

Rockingham

	29	1600EST			0	0	30K		Lightning
--	----	---------	--	--	---	---	-----	--	-----------

Lightning struck a 50-ft by 75-ft shed in Auburn causing a fire that destroyed the building. Damages were estimated at \$30,000.

Rockingham

	29	1605EST			0	0			Thunderstorm Wind (G50)
--	----	---------	--	--	---	---	--	--	-------------------------

Winds from a severe thunderstorm downed trees in the Auburn/Chester area.

NEW HAMPSHIRE, Southern

Cheshire County

	29	1500EST			0	0			Thunderstorm Wind (G50)
		1505EST							

Hillsborough

	29	1600EST			0	0			Lightning
--	----	---------	--	--	---	---	--	--	-----------

An isolated severe thunderstorm downed two small trees in Rindge, and downed wires in Marlborough. Lightning from another storm struck the roof of an apartment building in Manchester, creating a two-alarm fire. Other lightning strikes in Hillsborough County resulted in scattered power outages, mostly in the towns of Bedford and Merrimack. About 600 customers lost power.

NEW JERSEY, Northeast

NONE REPORTED.

NEW JERSEY, South and Northwest

Burlington County

	01	0000EST			0	0	0	0	Wild/Forest Fire
		1500EST							

A suspicious fire started in five different locations in Woodland Township in Burlington County during the late afternoon of the 31st. The unseasonably dry spring weather helped the fire spread. The fire was located within the Pine Barrens in the area north of New Jersey State Highway 72, west of Ocean County Highway 539 and east of Woodmansie Road. About 394 acres burned before the fire was declared under control at 4 p.m. EDT on June 1st. One fire alone consumed 300 of the acres burned. Underground turf continued to burn in the month of June and was not completely out until the 21st of June.

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW JERSEY, South and Northwest

NJZ001-007>010- Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern
01 0000EST 0 0 Unseasonably Dry
30 2359EST

Unseasonably dry weather continued throughout the month of June across New Jersey. Aside from Essex, Cumberland and Atlantic Counties, all the other counties on a county weighted average had less than half of their normal monthly precipitation. The state average rainfall total of 1.92 inches was the 10th driest June on record dating back to 1895. The driest counties were Hunterdon, Somerset and Mercer, where either .8 or .9 of an inch of rain fell all month and was about 22 percent of normal monthly rainfall. The unseasonably dry weather forced a fire ban at all campgrounds. The ongoing dry weather will prevent many farming areas from having a second cutting of hay. Yields on other crops are expected to be affected if no rain is received soon including the soybean crop. Farmers were forced to irrigate their crops. Pumpkins and sweet corn in Northern New Jersey were suffering because farms in the northern part of the state rely heavily on precipitation and not irrigation.

NJZ001-007>010- Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern
07 0900EST 0 0 Unseasonably Hot
08 1800EST

NJZ015>020- Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western
07 0900EST 0 0 Excessive Heat
09 1800EST

A large high pressure system over the southeastern United States pumped in a hot and humid air mass across New Jersey. The hottest day was the 8th. A weak trough brought in slightly cooler and considerably drier air on the 9th, although high temperatures still reached around 90 degrees. A stronger backdoor cold front (it moved from north to south) brought in considerably cooler air into the region the evening of the 9th. New daily high temperature records were set on both the 7th (96 degrees) and the 8th (98 degrees) at the Atlantic City International Airport in Pomona. The daily record high temperature of 95 degrees was tied at the Atlantic City Marina on the 8th.

In Camden County, a hotline was established for the elderly to refer them to cooler, air-conditioned locations. No serious heat related problems were reported. Highest temperatures during this hot spell included 100 degrees in New Lisbon (Burlington County), 98 degrees at the Atlantic City International Airport, Freehold (Monmouth County), East Toms River (Ocean County), Pemberton (Burlington County) and Belle Mead (Somerset County), 97 degrees in Mount Holly (Burlington County), Pennsauken (Camden County), Long Branch (Monmouth County), Iselin (Middlesex County), White House Station (Hunterdon County) and Sussex (Sussex County), 96 degrees in Chatham (Morris County), Columbia (Warren County), New Brunswick (Middlesex County), Margate (Atlantic County) and Millville (Cumberland County), 95 degrees at the Marina within Atlantic City, Trenton (Mercer County) and Cape May Courthouse and 94 degrees in Hightstown (Mercer County).

Warren County

Belvidere 07 1825EST 0 0 Thunderstorm Wind (G50)

A weakening severe thunderstorm still managed to knock down large tree limbs and wires in Belvidere. Wind damage with this storm was far more extensive on the Pennsylvania side of the Delaware River in Northampton County.

Ocean County

5 SW Beachwood 08 1100EST 0 0 0 0 Wild/Forest Fire
09 1700EST

A forest fire began near the Cedar Creek in the Dover Forge section of the Double Trouble State Park in Lacey Township in Ocean County at noon EDT on the 8th. About 115 acres burned by 9 p.m. EDT. The fire spread into southern Berkeley Township. Dover Road between Lacey and Berkeley Townships was closed because of smoke drift. The fire was brought under control at 6 p.m. EDT on the 9th. About 285 acres were burned. The cause was determined to be a campfire. Campfires were banned by the New Jersey Forestry Service because of the unseasonably dry weather.

Ocean County

4 SE Pasadena 09 2200EST 0 0 0 0 Wild/Forest Fire
10 1700EST

For the second day in a row another large forest fire started within Lacey Township in Ocean County. This one began around 11 p.m. EDT about one mile north of the Cedar Bridge Fire Tower off of County Route 539. The fire was contained at 6 p.m. EDT the next day, but not before 70 acres were burned. The unusually dry weather continued to exacerbate fire conditions throughout the state.

Atlantic County

Countywide 20 1700EST 0 0 0 Heavy Rain
21 0100EST

Burlington County

Atsion to 20 1700EST 0 0 0 Heavy Rain
Wading River 21 0100EST

Cumberland

Countywide 20 1700EST 0 0 0 Heavy Rain
21 0100EST

Ocean County

Tuckerton to 20 1700EST 0 0 0 Heavy Rain
Seaside Hgts 21 0100EST

A low pressure system that moved off the North Carolina Coast helped produce a band of heavy rain across southeast New Jersey

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW JERSEY, South and Northwest

throughout the evening of the 20th into the early morning of the 21st. Storm totals in this band averaged between 1.5 and 2.5 inches, most of which fell during an eight hour period from 6 p.m. EDT on the 20th through 2 a.m. EDT on the 21st. Some urban and poor drainage flooding occurred, but no other serious problems were reported. As a result of this band only Cumberland and Atlantic Counties (on a county weighted average) came close to normal precipitation for the month of June. Storm totals included 2.78 inches in Estell Manor (Atlantic County), 2.32 inches in Absecon (Atlantic County), 2.11 inches at the Atlantic City International Airport, 1.93 inches in Millville (Cumberland County), 1.83 inches in Seabrook (Cumberland County), 1.51 inches in Beach Haven (Ocean County), 1.44 inches within Atlantic City and 1.34 inches in Atsion (Burlington County).

NEW MEXICO, Central and North

Quay County

5 SE Tucumcari 02 1520MST 0 0 Hail (0.75)

Curry County

Melrose 02 1526MST 0 0 Hail (1.75)

Chaves County

14 NE Elkins 02 1554MST 0.1 50 0 0 Tornado (F0)

TV Station Chase Team reported brief tornado over open rangeland between Elkins and Elida.

Quay County

Ragland 02 1600MST 0 0 Hail (0.75)

Roosevelt County

3 W Portales 02 1645MST 0 0 30K Thunderstorm Wind

Strong winds destroyed several barns just west of Portales.

Quay County

Tucumcari 02 1720MST 0 0 Hail (0.75)

Quay County

Logan 04 2037MST 0 0 Hail (1.00)

Dime to quarter size hail piled 4 inches deep in Logan.

Chaves County

Roswell 08 1545MST
1555MST 0 0 Hail (1.75)

Colfax County

9 N Maxwell 10 1450MST 0 0 Hail (0.88)

State Police report zero visibility in pounding nickel size hail at I-25 Rest Stop north of Maxwell.

Colfax County

6 ESE Cimarron 11 1530MST 0 0 Hail (0.88)

Colfax County

30 E Springer 11 1640MST 0 0 Hail (1.00)

Harding County

7 N Roy 11 1705MST 0 0 Hail (0.88)

Colfax County

5 N Springer 11 1550MST
1555MST 0 0 Hail (1.00)

Mora County

Gascon 11 1715MST 0 0 Hail (0.75)

De Baca County

5 S Ft Sumner 11 1830MST 0 0 Hail (0.75)

De Baca County

Dunlap 11 1915MST 0 0 Hail (0.75)

Chaves County

20 N Elkins 11 2206MST 0 0 Hail (1.00)

Roosevelt County

Elida 12 0050MST 0 0 Hail (0.75)

Colfax County

3 E Eagle Nest 12 1220MST 0 0 Hail (0.75)

NM2009

Middle Rio Grande Valley
12 2353MST 0 0 High Wind (G49)

A large 60 foot cottonwood tree was toppled by winds of 45 to 55 mph that swept into northern Albuquerque during late evening. The winds had developed as outflow moving down the Rio Grande Valley and around the north end of the Sandia mountains following strong thunderstorms that occurred over southern Santa Fe County during the early evening.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW MEXICO, Central and North									
Torrance County									
5 E Moriarty	16	1554MST			0	0			Thunderstorm Wind (G52)
									Spotter estimated winds of at least 60 mph as gust front passed.
Torrance County									
Estancia	16	1618MST 1625MST			0	0	100K		Hail (1.75)
									Large hail pounded vehicles and broke windows after a storm moved south from Santa Fe and merged with other storms near Estancia and northeast of Willard.
Sandoval County									
1 N Bernalillo	16	1625MST 1630MST			0	0	15K		Thunderstorm Wind (G50)
									A possible small gustnado damaged several trailer homes as the outflow from a strong thunderstorm centered 5 miles to the west moved over northern Bernalillo. A storm survey indicated damage consistent with straightline winds.
Bernalillo County									
Albuquerque	16	1800MST 1845MST			0	0	1.2M		Flash Flood
									Heavy rain of 2 inches in 45 minutes swamped streets and dry arroyos across northern Albuquerque. Over 100 new automobiles on a dealer lot were flooded by rapidly rising water. Poor or clogged drainage was partially to blame for these losses.
Mckinley County									
24 NE Crownpoint	17	1648MST			0	0			Hail (0.75)
Colfax County									
Cimarron	17	1845MST			0	0			Hail (0.88)
Colfax County									
Springer	17	1900MST			0	0			Hail (0.75)
Chaves County									
Hagerman	21	2000MST 2100MST			0	0			Flash Flood
									High water from the Rio Felix covered roads near Hagerman.
Chaves County									
Lake Arthur	21	2140MST 2240MST			0	0			Flash Flood
									Three feet of water closed low water crossings along Walnut Creek west of Lake Arthur.
Roosevelt County									
Elida	21	2045MST			0	0			Hail (0.75)
Roosevelt County									
3 E Dora	24	1518MST			0	0			Hail (1.75)
Roosevelt County									
Arch	24	1602MST			0	0			Hail (0.75)
Roosevelt County									
Pep	24	1718MST			0	0			Hail (1.75)
									A large and lasting severe storm with large hail developed over south central Roosevelt County.
Mora County									
Levy	28	1635MST			0	0			Hail (2.50)
Mora County									
2 N Wagon Mound	28	1645MST			0	0			Hail (1.75)
									Several severe storms pounded rural areas of Mora County with unusually large hail.
Guadalupe County									
Dilia	28	1645MST 1650MST			0	0			Hail (1.00)
Guadalupe County									
20 S Santa Rosa	28	1810MST			0	0			Hail (1.50)
San Miguel									
Conchas Dam	28	1826MST 1830MST			0	0			Hail (1.75)
De Baca County									
Yeso	28	1900MST			0	0			Hail (2.50)
Guadalupe County									
1 N Newkirk	28	1915MST	0.1	50	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEW MEXICO, Central and North</u>									
Guadalupe County									
10 W Pintada	28	1930MST			0	0			Hail (1.00)
Guadalupe County									
15 N Vaughn	28	1942MST	0.1	5	0	0			Tornado (F0)
Guadalupe County									
Dilia	28	2035MST			0	0			Hail (0.75)
A cluster of severe storms with large hail and several small, brief tornadoes over open rangeland moved slowly across Guadalupe and De Baca counties.									
Guadalupe County									
10 SE Vaughn	28	2140MST			0	0			Hail (0.75)
State Police reported hail, strong wind and heavy rain at the scene of an accident on Highway 285.									
<u>NEW MEXICO, South Central and Southwest</u>									
Grant County									
Pinos Altos	13	1900MST 1905MST			0	0			Thunderstorm Wind (G65)
A mobile home had half of the roof torn off and was pushed off the foundation by strong thunderstorm winds.									
Dona Ana County									
Las Cruces	17	0300MST 0700MST			0	0			Flash Flood
Three to four inches of rain fell in the East Mesa area of Las Cruces. Water running off the nearby Organ Mountains caused considerable damage to mobile homes, homes and washed out roads. The high water had some residents on the east side of Las Cruces trapped in their homes for several hours. A 70 year old woman had to be rescued after trying to cross a flooded road in her car.									
<u>NEW MEXICO, Southeast</u>									
Eddy County									
6 W Loco Hills	02	1505MST			0	0			Hail (0.75)
Storm developed in west-central Eddy County along the dryline. Moved to the northeast and dissipated in Lea County.									
Eddy County									
6 W Loco Hills	02	1540MST			0	0			Hail (0.75)
Cell developed on flank of previous storm.									
Eddy County									
1 W Loco Hills	02	1550MST			0	0			Hail (1.00)
Eddy County									
1 W Loco Hills	02	1550MST			0	0			Thunderstorm Wind (G52)
Eddy County									
6 E Loco Hills	02	1609MST			0	0			Hail (2.75)
Lea County									
4 SE Maljamar	02	1621MST			0	0			Hail (0.88)
Lea County									
4 S Maljamar	02	1625MST			0	0			Hail (2.00)
Lea County									
4 SE Maljamar	02	1633MST			0	0			Hail (1.75)
Lea County									
Lovington	02	1700MST			0	0			Hail (1.00)
As the storms approached Lovington they formed into a multicell line. On this afternoon the dryline pulled a short distance away from the mountains and with favorable convergence was able to act as the focus for deep convection in Southeast New Mexico. Winds in the Pecos Valley were sustained at about 15 knots from about 130-140 degree into the dryline. Temperatures were in the lower 90s with dewpoints in the lower to mid 60s.									
Lea County									
12 SW Buckeye	02	1710MST			0	0			Hail (1.25)
This storm formed on the outflow boundary to the south of the developing line that was moving through Lovington.									
Eddy County									
2 S Carlsbad	07	1723MST			0	0			Hail (0.75)
Cells that developed along the Delaware and Guadalupe Mountains in Texas moved to the east and kept developing farther and farther north into New Mexico. This cell briefly produced dime size hail. Storms farther south in Texas were moving to the SSE.									

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW MEXICO, Southeast

Eddy County

4 S Artesia **08** **1651MST**
1700MST **0** **0** **Hail (2.00)**

Hail began 3/4" diameter and grew to 2". This cell was on the south side of a developing line of cells.

Lea County

4 SE Maljamar **08** **1844MST** **0** **0** **Hail (0.75)**

This cell was the most intense of a line of cells passing through the area.

Storms developed on the Sacramento Mountains and moved eastward into Eddy County. The organization of the storms was aided by an upper level disturbance moving to the east. The organized lift associated with the disturbance appeared to help storms form into a line. By the time the storms crossed the Eddy/Lea County line, an almost continuous line existed southward into Southwest Texas.

Lea County

7 W Jal **11** **1532MST** **0** **0** **Hail (1.75)**

The left-split cell of a storm that formed over Loving County, TX, moved to the northeast into southern Lea County, NM. The this single cell storm dropped its hail on State Highway 128. The storm continued to the northeast, just missing Eunice, then dropped more hail in the northwest corner of Andrews County, TX.

Lea County

Monument **19** **1500MST**
1700MST **0** **0** **Flash Flood**

Flash flooding occurred on State Highway 8 near Monument. The initial cell that rained on the area formed along the Texas state line and moved to the NNW. Near Monument this cell merged with other cells to produce torrential rains for a short period.

Eddy County

South Portion **20** **2200MST**
21 **0200MST** **0** **0** **20K** **Flash Flood**

A very tropical air mass and a shear axis in the mid levels of the atmosphere, plus slow movements of storms all added up to give Eddy County, NM excessive rains on the night of the 20th. Nine county roads were closed at one time or another, plus State Highway 128 was closed for a short time in the early morning. Several cars were stranded in water crossings, and asphalt was washed away at some crossings as well. Water flowed 14 feet deep on Higby Hill Road.

Eddy County

Carlsbad **21** **2000MST**
2230MST **0** **0** **Flash Flood**

An upper level disturbance interacted with copious amounts of Pacific moisture from Hurricane Adrian, located south of Baja Mexico, to produce thunderstorms that dropped 4 to 5 inches of rain over southern Eddy county. Flash flooding occurred with over one foot of water reported to cover portions of Dark Canyon Road.

Eddy County

1 W Artesia **25** **1540MST** **0** **0** **2K** **Thunderstorm Wind**

Microburst winds from a storm moving to the southeast blew part of a roof off a trailer.

NEW YORK, Central

Steuben County

Wayland **07** **1245EST** **0** **0** **Thunderstorm Wind (G51)**

Yates County

Branchport **07** **1320EST** **0** **0** **20K** **Thunderstorm Wind**

Minor damage to a vineyard

Chemung County

Horseheads **07** **1355EST** **0** **0** **Thunderstorm Wind (G60)**

Tioga County

Countywide **07** **1430EST**
1455EST **0** **0** **5K** **Thunderstorm Wind (G51)**

Broome County

West Corners to Kirkwood **07** **1458EST**
1515EST **0** **2** **20K** **2K** **Thunderstorm Wind (G60)**

Broome County

Vestal to Conklin **07** **1508EST**
1515EST **0** **0** **15K** **Hail (1.75)**

Central New York's only damage producing thunderstorms for the month came on this day as a disturbance in the upper atmosphere raced out of the Ohio Valley and into New York State by early afternoon. Natural daytime heating and warm, humid air created very unstable conditions over most of the northeastern United States. Isolated thunderstorms developed in western New York by late morning with several additional clusters moving into the Central Southern Tier by mid afternoon. Scattered tree and powerline damage occurred in a swath from Steuben county eastward to Tioga County between 1:30 and 4:00 p.m. EDT. Further intensification of the storms provided more widespread tree and power line damage around the Binghamton area where 60 mph winds were estimated. Golfball size hail fell for 15 minutes covering the ground in Conklin and two pedestrians were injured when a large

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW YORK, Central

uprooted tree toppled onto them in downtown Endicott.

NEW YORK, Coastal

Orange County

Central Portion

07 1739EST 0 0 Thunderstorm Wind (G50)

As a line of thunderstorms moved east across the area, they produced high winds that downed trees and power lines across Western and Central Orange County.

Rockland County

Stony Pt to
Tomkins Cove

29 1300EST
1305EST 0 0 Thunderstorm Wind (G50)

As a severe thunderstorm moved northeast across Rockland County, it produced high winds and heavy rain that downed trees and power lines at both Stony Point and Tomkins Cove. Other areas hit hard included Congers, Nanuet, and Orangeberg. About 7,500 Rockland County residents lost power during the thunderstorm.

NEW YORK, East

Saratoga County

Saratoga Spgs

01 1800EST 0 0 25K Lightning

Isolated thunderstorms developed during the evening of June 1 out ahead of a weak cold front in Saratoga County. Lightning from a lone storm struck a townhouse on Preakness Way setting the attic on fire. Damage was contained to the attic and roof of the townhouse.

NYZ032>033-

Northern Herkimer - Hamilton - Southern Herkimer - Fulton - Montgomery - Northern Saratoga -

07 1200EST
1700EST 0 0 Excessive Heat

On June 7, the season's second Bermuda High brought the first 90 degree temperature of 1999 to much of eastern New York. At the Albany International Airport it was the first official 90 degree temperature since August 16, 1997. The temperature did not stop there, but soared all the way to 95 degrees. This value tied the daily record for the date last set in 1925. The combination of heat and humidity produced a heat index between 100 and 105 degrees during the hottest portion of the day. There were no unusual problems or power outages reported due to the excessive heat.

Columbia County

Philmont

07 1708EST 0 0 0 Hail (0.75)

Columbia County

Hillsdale

07 1715EST
1730EST 0 0 100K Thunderstorm Wind (G90)

Greene County

Coxsackie

07 1736EST 0 0 5K Thunderstorm Wind

An extremely unstable airmass on June 7 resulted in scattered severe thunderstorms during the late afternoon in Columbia and Greene Counties. The thunderstorms produced dime size hail in Philmont, Columbia county. The storms then produced a microburst with wind gusts estimated to be between 60 and 90 miles an hour in the vicinity of East Hillsdale. These winds brought down a large number of trees along Old Town and Collins Roads between State Highways 22 and 23. Fallen trees damaged cars, power lines and a couple of buildings. The path of destruction was about a mile from east to west and about half a mile from north to south. Golf ball size hail was reported by an eyewitness in Hillsdale. In Greene county, thunderstorm winds toppled trees onto Route 67 between Greenville and Coxsackie.

Saratoga County

Halfmoon

28 1155EST 0 0 50K Lightning

Lightning from a thunderstorm on June 28, struck a home on Dewey Avenue, Halfmoon in southern Saratoga County. The lightning touched off an electrical fire which was contained to the attic of the home. Multiple lightning strikes resulted in downed limbs and wires and spotty power outages throughout Saratoga County.

Albany County

Coeymans

29 2034EST
2035EST 0 0 12K Thunderstorm Wind

A cold front crossing through eastern New York sparked a line of thunderstorms late on the afternoon of June 29. A thunderstorm cell became locally severe in the town of Coeymans in southeast Albany County. Thunderstorm wind gusts produced damage in a trailer park on Winnie Avenue. Specifically, power lines were knocked down, several trailer homes were damaged and small trees destroyed. In addition, several persons observed a funnel cloud with the storm.

NEW YORK, North

Franklin County

Ft Covington

27 1510EST
1517EST 0 0 1K Thunderstorm Wind

Microburst type winds from a thunderstorm caused damage in a localized area. The storm lasted only seven minutes, but an extensive amount of damage was reported at one particular spot. Windows were blown out of a house while wood was ripped off the

Storm Data and Unusual Weather Phenomena

June 1999

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

NEW YORK, North

barn. The winds tore branches 5 inches in diameter off trees, In addition, 3 half ton hay wagons were blown over. One hay wagon mounted to a pole in the ground was dragged 35 feet. Just two miles down the road, only some rain was reported.

NEW YORK, West

Erie County

East Amherst

02 1400EST 0 0 5K Thunderstorm Wind

Thunderstorms developed during the early afternoon hours. The storms reached severe limits producing wind gusts which downed trees and power lines. About 3000 customers were without power as a result of downed power lines. Torrential rains also accompanied the storms. Localized urban flooding resulted as storm sewers were unable to carry away the heavy downpours.

Chautauqua

Jamestown

**10 1700EST
1900EST 0 0 5K Flash Flood**

Chautauqua

Jamestown

10 1755EST 0 0 25K Thunderstorm Wind

Scattered thunderstorms crossed the western southern tier during the evening hours. The thunderstorm winds downed tree limbs and power lines. Lightning struck a 5000 gallon crude oil storage tank. The tank exploded blowing out the bottom of it and hurling it into the air. HAZMAT crews were called out to clean up about 3000 gallons of crude oil which spilled. The torrential rains resulted in flash flooding which closed roads in the city of Jamestown.

Niagara County

Lewiston

29 0200EST 0 0 5K Thunderstorm Wind

Violent thunderstorms moved across the Niagara Peninsula into Niagara county. The thunderstorms produced damaging winds which downed tree limbs and power lines. Downpours which accompanied the thunderstorms resulted in poor drainage flooding.

NORTH CAROLINA, Central

Wayne County

Goldsboro

10 1823EST 0 0 Hail (0.75)

The observer at Seymour Johnson AFB reported dime size hail at the base. Strong winds also blew trees onto power lines in the southeast part of the city.

Anson County

Wadesboro

29 1705EST 0 0 Thunderstorm Wind (G50)

The sheriff's office reported trees down at the intersection of Prison Camp Rd and Hwy 52. Many of the trees fell on power lines which resulted in numerous power outages.

NORTH CAROLINA, Central Coastal

Onslow County

5 W Jacksonville

10 1415EST 0 0 Thunderstorm Wind (G50)

Wind damage and large tree limbs down.

NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

NORTH CAROLINA, North Coastal

NONE REPORTED.

NORTH CAROLINA, Northwest and North Central

NCZ003>006-

Surry - Stokes - Rockingham - Caswell - Wilkes - Yadkin

01 0000EST 0 0 Drought
30 2359EST

Dry conditions that began in July of 1998, subsided for several months during the later part of 1998 and the first part of 1999, returned in June of 1999. June rainfall amounts were mainly about half of what normally falls. In many areas, crops were damaged or destroyed. Water levels in creeks, streams, and rivers were very low. Some creeks and wells temporarily dried up.

Wilkes County

North Wilkesboro

10 2000EST 0 0 0 Thunderstorm Wind

Surry County

Countywide

**10 2005EST
2020EST 0 0 5K Thunderstorm Wind**

Storm Data and Unusual Weather Phenomena

June 1999

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

NORTH CAROLINA, Northwest and North Central

Thunderstorms on the 10th produced damaging winds, toppling a tree 3 feet in diameter in North Wilkesboro, and downing power lines in Surry County, leaving 75 businesses and residences with power.

Wilkes County

South Portion	30	1950EST 2100EST			0	0			Flash Flood
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Yadkin County

Central Portion to West Central Portion	30	2120EST 2250EST			0	0	10K		Flash Flood
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Yadkin County

2 W Yadkinville	30	2140EST			0	0	0		Thunderstorm Wind
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Thunderstorms during the evening of the 30th, produced flash flooding and damaging winds.

Flash flooding to the west and north of Yadkinville flooded 6 roads, including one road that was washed out, and a second road that was undermined. One vehicle stalled in the water and two other vehicles were damaged by the flooding. Heavy rain in southern Wilkes County caused several creeks to flash flood.

Thunderstorm winds 2 miles west of Yadkinville uprooted several large trees, with large branches snapped off of other trees.

NORTH CAROLINA, South Coastal

Pender County

Wards Corner to Atkinson	10	1535EST 1600EST			0	0	10K		Thunderstorm Wind (G70)
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Thunderstorms dropped nickel size hail, and winds downed trees onto power lines and damaged the roof of Pender High on NC 53.

Bladen County

Kelly to Tar Heel	10	1620EST 1650EST			0	0	10K		Thunderstorm Wind (G70)
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Thunderstorms dropped dime size hail, and wind damage was reported at Kelly, Rowan, Dublin and Tar Heel, with downed trees and power lines, and an outbuilding destroyed.

Robeson County

Fairmont	10	1815EST 1830EST			0	0	5K		Thunderstorm Wind (G70)
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A thunderstorm caused the wind and nickel-size hail...uprooting trees onto power lines and damaging a barn roof.

NORTH CAROLINA, Southwest

Buncombe County

2 SW Fairview	02	1605EST			0	0			Hail (1.00)
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A severe thunderstorm produced quarter size hail.

Cleveland County

Shelby	03	0000EST			0	0	100K		Lightning
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Lightning caused two fires in rural Shelby. A two story house was destroyed and major damage occurred at another house.

Cleveland County

Shelby	03	1450EST 1500EST			0	0			Hail (1.75)
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Cleveland County

14 W Shelby	03	1500EST 1510EST			0	0			Hail (0.75)
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Cleveland County

5 S Shelby	03	1530EST			0	0			Hail (0.88)
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A large severe thunderstorms produced dime to golf ball size hail across a good portion of Cleveland county. Hail lasted up to 10 minutes in most locations, covering the ground and causing an unspecified amount of damage.

Transylvania

Brevard	04	1230EST			0	0	200K		Lightning
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Lightning was suspected to have started a fire in a home about 12 hours after the actual strike. The home and its contents were destroyed.

Mecklenburg

Pineville	09	1620EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm downed trees up to 2 feet in diameter. Some of these downed trees fell on houses.

Mitchell County

Bailey	10	1210EST			0	0			Thunderstorm Wind (G50)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Southwest</u>									
Graham County									
3 NW Robbinsville	10	1300EST			0	0			Thunderstorm Wind (G55)
Gaston County									
Gastonia to Cherryville	10	1818EST 1824EST			0	0			Thunderstorm Wind (G50)
Lincoln County									
7 SW Lincolnton	10	1830EST			0	0			Thunderstorm Wind (G60)
Lincoln County									
7 W Lincolnton	10	1846EST			0	0			Thunderstorm Wind (G60)
Union County									
Waxhaw	10	2003EST			0	0			Thunderstorm Wind (G50)
Mecklenburg									
Charlotte	10	2040EST 2120EST			0	0			Urban/Sml Stream Fld
Mecklenburg									
Charlotte	10	2050EST			0	0			Thunderstorm Wind (G50)
Scattered thunderstorms developed in the mountains during the early afternoon. A couple of those storms became severe and downed trees and power lines. A cluster of severe thunderstorms developed in the southern piedmont during the evening and produced damaging straight-line winds which downed trees in many locations. A small mobile home was blown over southwest of Lincolnton. More than one inch of rain fell in a short period of time in Charlotte and caused some urban flooding in which a few cars were involved. However, no serious problems were reported.									
Caldwell County									
7 SW Lenoir	28	1834EST			0	0			Thunderstorm Wind (G50)
Catawba County									
Hickory	28	1845EST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm downed trees and power lines. One tree fell on a house in Hickory and a metal building was moved 50 feet in Caldwell county.									
<u>NORTH DAKOTA, Central and West</u>									
Mountrail County									
12 ESE Belden	03	0200CST			0	0			Hail (0.75)
rainfall with storm measured 2.5 inches.									
Sioux County									
Porcupine	03	1440CST			0	0	5K		Hail (1.75)
automobiles damage windowns broken.									
Sioux County									
Porcupine	03	1440CST			0	0	50K		Thunderstorm Wind (G70)
roofs taken off several buildings and homes.									
Grant County									
Shields	03	1442CST			0	0			Hail (1.25)
Divide County									
11 SE Fortuna	03	1442CST			0	0			Hail (0.75)
Morton County									
4 SW Breien	03	1450CST			0	0			Hail (1.75)
Morton County									
Hebron	03	1515CST			0	0			Hail (0.88)
Mercer County									
3 NW Beulah	03	1520CST			0	0			Hail (0.75)
Morton County									
Ft Rice	03	1532CST			0	0			Hail (1.25)
Morton County									
Ft Rice	03	1534CST			0	0			Hail (1.25)
Oliver County									
7 NE Center	03	1545CST			0	0			Hail (1.00)
Mclean County									
5 NE Underwood	03	1620CST	0.1	10	0	0			Tornado (F0)
touch down in open field. no damage.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Burleigh County Driscoll	03	1628CST			0	0			Hail (2.00)
Emmons County 9 N Hazelton	03	1629CST no damage reported.	0.2	10	0	0			Tornado (F0)
Burleigh County 3 SSW Driscoll to 1 E Driscoll	03	1643CST	4	15	0	0			Tornado (F0)
Mclean County 4 N Turtle Lake	03	1650CST	0.5	10	0	0			Tornado (F0)
Burleigh County 1 SE Driscoll	03	1650CST	2	30	0	0	75K		Tornado (F1)
Kidder County 1 S Steele to 3 E Steele	03	1715CST	4	50	0	0	400K		Tornado (F2)
Mclean County Turtle Lake	03	1740CST Downburst wind demolished old barn.			0	0			Thunderstorm Wind (G52)
Kidder County 3 SW Pettibone to Pettibone	03	1750CST	3	30	0	0	100K		Tornado (F1)
Mchenry County 2 N Balfour	03	1759CST	0.5	10	0	0			Tornado (F0)
Stutsman County 9 W Woodworth to 4 NW Woodworth	03	1803CST	13	25	0	0	200K		Tornado (F1)
Foster County Carrington	03	1850CST			0	0			Hail (0.75)
Foster County 1 S Carrington	03	1902CST			0	0			Hail (1.00)
Foster County 3 NW Glenfield	03	1905CST			0	0			Hail (0.75)
Mchenry County 9 N Drake	03	1905CST			0	0			Hail (1.50)
Foster County Bordulac	03	1922CST			0	0			Hail (1.75)
Foster County 3 W Mc Henry	03	1930CST			0	0			Hail (1.75)
Sioux County 5 NW Ft Yates	06	1125CST numerous funnels this day.	1	10	0	0			Tornado (F0)
Burleigh County 1 S Regan	06	1230CST damage confined to farm stead.	0.5	15	0	0	20K		Tornado (F0)
Burleigh County 1 N Wing	06	1320CST	0.5	10	0	0			Tornado (F0)
Sheridan County 2 E McClusky	06	1349CST	0.5	10	0	0			Tornado (F0)
Mclean County Garrison	06	1400CST 1700CST			0	0	300K		Flash Flood
six (6) inches rain fell in a three (3) hour period resulting in widespread flooding. flood waters reached 3 to 8 feet impacting 115 homes and business property.									
Mckenzie County Watford City	06	1518CST			0	0			Hail (1.00)
Mountrail County 10 W Stanley	08	1520CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Mckenzie County 10 SW Alexander	08	1540CST			0	0			Hail (1.75)
Mckenzie County 4 NW Arnegard	08	1555CST			0	0			Hail (0.75)
Burke County 11 E Powers Lake	08	1610CST			0	0			Hail (1.00)
Mckenzie County Keene	08	1652CST			0	0			Hail (1.75)
Mountrail County 1 W Stanley	08	1755CST	0.5	10	0	0			Tornado (F0) in open field crossing highway 2. no reported damage.
Renville County 1 W Loraine	08	1845CST	0.5	10	0	0			Tornado (F0) in open field. no damage.
Emmons County 3 E Hazelton	08	2315CST			0	0			Hail (1.00)
Foster County 10 ESE Carrington	09	0110CST			0	0			Thunderstorm Wind (G58) quarter inch hail with storm. broken branches at a farm stead.
Mercer County 8 S Beulah	13	1405CST	2	30	0	0	150K		Tornado (F1) damage confined to farm stead.
Oliver County 16 W Hannover to 13 SW Hannover	13	1420CST	29	50	0	0			Tornado (F1) damage unknown.
Mckenzie County 15 S Watford City	13	1428CST			0	0			Hail (0.75) three-quarter inch hail covered the ground between 1/2 inch to 1 inch depth.
Morton County 13 NW New Salem to 5 WNW New Salem	13	1429CST	18	15	0	0			Tornado (F0)
Mckenzie County 6 N Keene	13	1510CST	1	15	0	0			Tornado (F0)
Mckenzie County Grassy Butte	13	1510CST			0	0			Hail (1.50) Sheriff reported 1 1/2 inch hail over various parts of McKenzie county.
Morton County 14 W Mandan	13	1520CST			0	0			Hail (1.50)
Morton County 14 S Mandan	13	1600CST			0	0			Hail (1.50)
Slope County 10 W Amidon	20	2015CST			0	0			Hail (0.88)
Golden Valley 12 SSW Golva to 13 S Golva	20	2015CST	1	15	0	0			Tornado (F0)
Slope County 32 E Amidon to 30 E Amidon	20	2025CST	2	15	0	0	5K		Tornado (F0)
Bowman County 5 W Rhame	20	2058CST	2	20	0	0			Tornado (F0) power lines down. damage amount unknown.
Slope County 15 N Marmarth	20	2130CST			0	0			Hail (1.00)
Oliver County 6 E Center	21	0130CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Burleigh County									
2 S Moffit	21	0225CST			0	0			Hail (0.75)
Emmons County									
6 E Linton	21	0620CST			0	0	130K		Hail (1.75)
									Percent of yield losses for 35,200 acres of crops ranged from 10 to 45 percent.
Mcintosh County									
8 W Wishek	21	0625CST			0	0			Hail (0.75)
Logan County									
Burnstad	21	0650CST			0	0			Hail (1.00)
Logan County									
5 S Napoleon	21	0828CST			0	0			Hail (1.25)
Logan County									
10 SW Napoleon	21	0841CST			0	0			Hail (0.75)
Mcintosh County									
Ashley	21	0905CST			0	0			Hail (0.75)
Mcintosh County									
3 E Ashley to 13 E Ashley	21	0940CST			0	0			Hail (2.50)
Dickey County									
1 ESE Fullerton	21	1030CST			0	0			Thunderstorm Wind (G53)
La Moure County									
6 SW Edgeley	22	1734CST			0	0			Hail (2.00)
									The city of Kulm received 1 to 2 inch hail.
La Moure County									
5 SW Edgeley	22	1800CST			0	0			Hail (1.50)
Dunn County									
Killdeer	25	1630CST			0	0			Hail (1.75)
Dunn County									
Halliday	25	1710CST			0	0			Hail (2.50)
									Punctured roofs.
Dunn County									
5 S Dunn Center	25	1735CST			0	0			Hail (1.50)
Bowman County									
Bowman	25	1825CST			0	0			Hail (1.00)
Bowman County									
Scranton	25	1830CST			0	0			Hail (0.75)
Adams County									
Hettinger	25	1842CST			0	0	325K		Thunderstorm Wind (G62)
									Producers reported a 35 to 50 percent loss of yield for 325,395 acres during the storm.
Burleigh County									
2 W Mc Kenzie	25	1915CST			0	0			Hail (0.88)
Adams County									
23 ESE Hettinger	25	1920CST			0	0			Hail (0.75)
Kidder County									
Steele	25	1920CST			0	0			Thunderstorm Wind (G90)
Hettinger County									
5 SW Mott	25	1925CST			0	0			Thunderstorm Wind (G75)
Hettinger County									
Mott	25	1930CST			0	0			Thunderstorm Wind (G56)
Sheridan County									
10 SE McClusky	25	1930CST			0	0			Hail (1.75)
Grant County									
Carson	25	1953CST			0	0			Hail (0.75)
Morton County									
Flasher	25	2005CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Sioux County 5 N Selfridge	25	2010CST	0.5	20	0	0			Tornado (F1)
			Semi-trailor truck overturned.						
Sioux County Cannon Ball	25	2020CST			0	0			Thunderstorm Wind (G52)
			Pole barns destroyed.						
Morton County 7 SW Mandan	25	2027CST			0	0			Thunderstorm Wind (G52)
Burleigh County 5 S Bismarck Arpt	25	2031CST			0	0			Thunderstorm Wind (G70)
Morton County 2 E St Anthony	25	2032CST			0	0	500K		Thunderstorm Wind (G87)
			Cumped six power lines						
Morton County Mandan	25	2035CST			1	0	2M		Thunderstorm Wind (G78)
			One man killed while attempting to land small plane at the Mandan airport. Extensive damage occurred to building roofs and large trees were damage or destroyed. Widespread electrical outage. M56OU						
Burleigh County Bismarck	25	2040CST			0	0	2M		Thunderstorm Wind (G78)
			Widespread damage to buildings, downed power lines, uprooted trees, street flooding and water damage to homes.						
Burleigh County 8 N Menoken	25	2050CST			0	0			Thunderstorm Wind (G70)
			Old barn destroyed.						
Emmons County 5 N Linton	25	2055CST			0	0			Thunderstorm Wind (G52)
Emmons County Hazelton	25	2105CST			0	0			Thunderstorm Wind (G68)
			Numerous trees down. Power out.						
Burleigh County 2 S Arena	25	2126CST	2	30	0	0			Tornado (F1)
			Touchdown in open field.						
Kidder County 7 SW Tuttle	25	2130CST	1	30	0	0			Tornado (F1)
			In open field.						
Kidder County 5 S Tuttle to 10 SE Tuttle	25	2138CST			0	0	5M		Thunderstorm Wind (G96)
			Damage to 200 farm buildings. fifty one metal power line towers collapsed. twenty two irrigation system destroyed.						
Kidder County 3 NNW Robinson	25	2140CST			0	0			Thunderstorm Wind (G69)
Logan County Napoleon	25	2145CST			0	0	200K		Thunderstorm Wind (G61)
Foster County 2 N Melville	25	2145CST			0	0	10M		Thunderstorm Wind (G87)
			Damage to 400 farm dwellings and 250 farm structures, including grain bins and farm machinery.						
Foster County 4 N Carrington	25	2155CST			0	0			Thunderstorm Wind (G50)
Kidder County 9 NW Pettibone to Pettibone	25	2200CST			0	0	400K		Thunderstorm Wind (G78)
			Widespread structure and tree damage.						
Stutsman County 6 E Edmunds	25	2200CST			0	0	2M		Thunderstorm Wind (G89)
			Damage to 200 farm dwellings, including elevators, dams and silos.						
Logan County Napoleon	29	1900CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Barnes County									
4 W Fingal	03	1830CST			0	0			Hail (0.75)
Cass County									
4 NW Alice	03	1838CST			0	0			Hail (0.75)
Cass County									
7 NW Alice	03	1840CST			0	0			Hail (1.00)
Eddy County									
15 E Brantford	03	1940CST 1955CST			0	0			Hail (1.00)
Griggs County									
Binford	03	2015CST			0	0	0.50K		Thunderstorm Wind
		Large trees were blown down in the strong wind.							
Nelson County									
Mc Ville	03	2025CST 2035CST			0	0			Hail (0.75)
Nelson County									
Kloten	03	2038CST 2043CST			0	0			Hail (0.75)
Cass County									
Kindred	03	2120CST			0	0			Hail (0.75)
Steele County									
5 E Hope	04	0018CST			0	0			Thunderstorm Wind (G52)
Trail County									
Clifford	04	0020CST			0	0			Thunderstorm Wind (G50)
Ramsey County									
Devils Lake	04	0235CST			0	0	3K		Thunderstorm Wind
		A tree was blown down on a car.							
Ramsey County									
Crary	04	0245CST 0255CST			0	0			Hail (0.75)
Pembina County									
4 S St Thomas	04	0315CST			0	0	0.50K		Thunderstorm Wind
		Large trees were blown down in the wind.							
Walsh County									
Grafton	04	0329CST			0	0			Hail (0.75)
Walsh County									
Grafton	04	0349CST			0	0			Hail (0.75)
Cass County									
Harwood	04	1938CST			0	0			Hail (0.75)
Sargent County									
5 S Cayuga	05	0130CST			0	0	2K		Thunderstorm Wind
		The wind blew the roof off a shed.							
Richland County									
Lidgerwood	05	0145CST			0	0	30K		Thunderstorm Wind
		A 108x50 foot storage shed was picked up by the wind and thrown into a grove of trees. Some debris was thrown 1000 feet away.							
Richland County									
3 W Wahpeton	05	0150CST			0	0	100K		Thunderstorm Wind
		A business on Highway 13 reported substantial damage to its machinery and buildings as the high winds came through. A semi truck also was blown over close by.							
Richland County									
4 NW Wahpeton	05	0150CST			0	1	75K		Thunderstorm Wind
		A 5 year-old boy was injured when parts of a neighbors roof came through a window in his house. He received 10 to 12 stitches on his neck and head from glass cuts. Nearby a garage was blown off its foundation and a boat was lifted into some trees. Another neighbor had a shed destroyed and a fish house, boat, and grain bins were damaged.							
Richland County									
Wahpeton Arpt	05	0150CST			0	0			Thunderstorm Wind (G51)
Eddy County									
5 S Hamar	06	1230CST	0.5	25	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Benson County 3 N Warwick	06	1245CST			0	0			Hail (1.00)
Eddy County 8 SW Hamar	06	1245CST	0.5	25	0	0			Tornado (F0)
Twin tornadoes were reported.									
Ramsey County 2 E Crary	06	1250CST 1256CST	3	25	0	0			Tornado (F0)
Benson County 7 NE Warwick	06	1300CST	1	25	0	0			Tornado (F0)
A tornado formed near East Devils Lake, went out into the lake, and then came back onto land.									
Benson County 7 NW Warwick	06	1305CST	0.5	25	0	0			Tornado (F0)
Twin tornadoes were reported.									
Ramsey County 8 SE Crary	06	1305CST 1310CST	2	25	0	0			Tornado (F0)
The tornado was located south of US Highway 2.									
Nelson County 3 NW Lakota	06	1320CST	2	25	0	0	100K		Tornado (F1)
A barn, quonsets, and garages were destroyed by a tornado. Trees were uprooted and grain bins and a camper were destroyed. Power lines were also downed.									
Ramsey County 3 S Crary	06	1320CST 1323CST	1	25	0	0			Tornado (F0)
Walsh County 5 SW Lankin to 3 NW Lankin	06	1330CST 1340CST	3	130	0	0	15K		Tornado (F2)
Several large trees were snapped off and light poles were bent over. Several metal grain bins were blown off their concrete foundations and thrown 200 feet. An old shed was also tossed 150 feet.									
Benson County 2 E St Michael	06	1340CST	0.5	25	0	0			Tornado (F0)
Walsh County 10 SW Lankin to 13 S Adams	06	1340CST 1350CST	3	150	0	0	250K		Tornado (F2)
A 54x108 foot building and a shed were destroyed by the tornado. One tractor inside was moved and the building doors were wrapped around the cab. Shingles from the barn were impaled in the swather. Some of the farm equipment was overturned and some boards were driven into the ground. Debris was picked up and tossed in a nearby slough.									
Walsh County Lankin	06	1340CST 1345CST	0.1	30	0	0	2K		Tornado (F0)
A large pine tree was sheared off, a tin roof torn off a school shed, a glass patio door was blown out, and a large metal dumpster was flipped over.									
Walsh County 6 NW Park River	06	1407CST	0.5	25	0	0			Tornado (F0)
Several touchdowns were reported.									
Pembina County 2 SW Crystal	06	1415CST	0.5	25	0	0			Tornado (F0)
Pembina County 5 W Crystal to Mountain	06	1420CST 1430CST	8	500	0	0	1M		Tornado (F4)
A tornado touched down southeast of Mountain, where it damaged several farmsteads. One farm home was completely lifted up and tossed 100 yards. A combine was also picked up and thrown several hundred feet. A swather was picked up and wrapped around several trees. In the town of Mountain, numerous trees were knocked flat. 2 mobile homes were destroyed, the roof was torn off a house, and a garage was destroyed.									
Walsh County Edinburg	06	1420CST	0.5	25	0	0			Tornado (F0)
Twin tornadoes were reported.									
Pembina County 1 SE Walhalla	06	1430CST	0.5	25	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Cavalier County									
3 NE Olga	06	1435CST			0	0			Hail (0.75)
Pembina County									
Walhalla	06	1445CST			0	0			Hail (1.75)
Cavalier County									
Langdon	06	1453CST			0	0			Thunderstorm Wind (G52)
Pembina County									
5 N Walhalla	06	1500CST			0	0			Hail (1.75)
		The hail fell for 30 minutes.							
Nelson County									
Lakota	08	2305CST 2308CST			0	0			Hail (0.75)
Grand Forks									
Niagara	09	0015CST			0	0	0.50K		Thunderstorm Wind
Ransom County									
Anselm	09	0050CST			0	0	0.50K		Thunderstorm Wind
Walsh County									
1 W Herrick	09	0144CST	0.5	25	0	0			Tornado (F0)
Griggs County									
5 SW Binford	09	0200CST			0	0	0.50K		Thunderstorm Wind
Steele County									
Hope	09	0300CST			0	0			Hail (0.75)
Grand Forks									
Grand Forks	09	0338CST			0	0	10K		Thunderstorm Wind
Trail County									
3 W Reynolds	09	0400CST			0	0	0.50K		Thunderstorm Wind
Grand Forks									
Grand Forks	20	1500CST 1700CST			0	0	20K		Urban/Sml Stream Fld
		A thunderstorm complex converged over the greater Grand Forks area, producing 1 to 3 inches of rain in about an hour. 1.65 inches of rain fell at the NWS on the west side of Grand Forks. Several streets were flooded and closed to traffic. The heavy rain and poor visibility may have contributed to a motorhome crash on Interstate 29, 2 miles south of Grand Forks. The driver and 5 passengers were taken to a hospital for treatment.							
Sargent County									
Cogswell	21	1040CST			0	0			Hail (0.75)
Sargent County									
Cogswell	21	1055CST			0	0			Hail (0.75)
Sargent County									
5 SE Forman	21	1110CST			0	0			Hail (0.75)
Sargent County									
Forman	21	1138CST			0	0			Hail (1.00)
Richland County									
7 S Fairmount	21	1255CST			0	0			Hail (1.00)
Cavalier County									
Langdon	22	1550CST			0	0			Hail (0.75)
Cavalier County									
Langdon	22	1550CST			0	0	2K		Thunderstorm Wind (G52)
		A greenhouse was destroyed by the wind.							
Cavalier County									
Langdon	22	1556CST			0	0			Hail (1.00)
Cass County									
Arthur	22	1855CST			0	0			Thunderstorm Wind (G52)
Ramsey County									
Penn	25	1912CST			0	0			Hail (0.88)
Benson County									
3 NW Minnewaukan	25	1915CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Benson County									
Maddock	25	1925CST			0	0			Hail (0.75)
Ramsey County									
10 NE Devils Lake	25	1945CST			0	0			Hail (1.75)
Ramsey County									
3 SE Webster	25	1947CST			0	0			Hail (1.75)
Ramsey County									
Devils Lake	25	2045CST			0	0			Flash Flood
Some streets in town were covered with 3 feet of water.									
Pembina County									
Cavalier	25	2158CST			0	0			Hail (0.75)
Barnes County									
15 N Valley City	25	2230CST			0	0	0.50K		Thunderstorm Wind
Several trees were blown down.									
Griggs County									
3 S Cooperstown	25	2230CST			0	0	100K		Thunderstorm Wind
The front of a barn was blown off, a machine shed was destroyed, and a garage was toppled onto 2 vehicles inside. Some debris was scattered more than a mile away.									
Griggs County									
2 N Cooperstown	25	2230CST			0	0			Thunderstorm Wind (G62)
Griggs County									
Cooperstown	25	2230CST			0	0	10K		Thunderstorm Wind
Tree branches were blown down on city streets. One tree landed on top of a recreational vehicle.									
Griggs County									
Shepard	25	2230CST			0	0	20K		Thunderstorm Wind
A small recreational vehicle was pushed more than 30 feet, crushing it.									
Griggs County									
Binford	25	2305CST			0	0			Thunderstorm Wind (G58)
Griggs County									
9 W Cooperstown	25	2305CST			0	0	20K		Thunderstorm Wind
A barn was blown down by the wind. A dozen sheep inside the barn were killed.									
Barnes County									
3 S Pillsbury	25	2310CST			0	0	0.50K		Thunderstorm Wind
Large tree limbs were downed by the wind.									
Trail County									
Hillsboro	25	2330CST			0	0	10K		Thunderstorm Wind
Trees were blown down in Hillsboro and a section of fence was snapped in two. A storage shed at the local golf course was also blown over.									
Steele County									
4 S Finley	25	2345CST			0	0	5K		Thunderstorm Wind
A portion of the roof of a large shed was destroyed by the wind.									
Grand Forks									
Larimore	26	0010CST			0	0	2K		Thunderstorm Wind
Powerlines were knocked down by the wind.									
Grand Forks									
Larimore	26	0015CST			0	0			Thunderstorm Wind (G52)

OHIO, East

NONE REPORTED.

OHIO, North

OHZ002>003-

Fulton - Lucas - Henry - Wood - Ottawa - Sandusky - Erie - Lorain - Cuyahoga - Lake - Geauga -
01 0000EST 0 0 Drought
30 2359EST

Little rain occurred from late May through much of June. Only 1.19 inches of rainfall fell at Akron-Canton during the month making it the 5th driest June on record. Similarly, 1.66 inches of rain fell at Mansfield also making it the 5th driest June on record. Scattered rains late in June brought hope for farmers but it is likely that crop yields will be reduced even with adequate rain the

Storm Data and Unusual Weather Phenomena

June 1999

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									
OHZ002>003-									
			remainder of the season. Losses due to the drought were unknown. Several communities instituted water use restrictions.						
			Fulton - Lucas - Henry - Wood - Ottawa - Sandusky - Erie - Lorain - Cuyahoga - Lake - Geauga -						
	06	0000EST			0	0			Excessive Heat
	12	2359EST							
			Temperatures across northern Ohio were much above normal. Temperatures reached the lower 90s with record highs set in Findlay, Cleveland, Mansfield and Youngstown.						
Cuyahoga County									
Bedford	10	1630EST			0	0	5K		Thunderstorm Wind
			Large trees downed						
Seneca County									
Countywide	10	1845EST 1855EST			0	0	125K		Thunderstorm Wind
			Trees and large limbs down countywide. Two cars were damaged by falling trees at Kansas. A grain elevator was blown across the road near the intersection of CR 31 and CR 42. In Maple Grove, a garage roof was torn off with moderate damage done to the adjacent house. A nearby concrete block barn was also destroyed.						
Seneca County									
Maple Grove	10	1845EST			0	0			Hail (1.25)
Huron County									
Norwalk	11	1600EST			0	0			Hail (0.88)
Huron County									
Norwalk	11	1600EST			0	0	5K		Thunderstorm Wind
			Large trees downed.						
Marion County									
Countywide	11	1623EST 1630EST			0	0	15K		Thunderstorm Wind
			Large trees downed countywide. One large tree fell on a car in the village of Meeker.						
Huron County									
Central Portion	11	1715EST 1730EST			0	0	10K		Thunderstorm Wind
			Larges trees downed. A traffic light was blown down in Norwalk.						
Crawford County									
Chatfield	11	1725EST			0	0	25K		Thunderstorm Wind
			Numerous trees and power lines downed.						
Huron County									
Wakeman	11	1730EST			1	0			Lightning
			A 59 year old man was struck by lightning bolt that traveled through a nearby tree. The man had been camping and was taken to a nearby hospital where he was pronounced dead. M57UT						
Lorain County									
Oberlin	11	1800EST			0	0	15K		Thunderstorm Wind (G70)
			Large trees downed.						
Cuyahoga County									
Lakewood	12	1315EST			0	0			Hail (0.75)
Lucas County									
West Toledo	12	1345EST 1355EST			0	0	25K		Thunderstorm Wind
			Many large trees and limbs down. Utility wire down near the intersection of South and Reynolds Roads.						
Lucas County									
South Shr Park	12	1350EST			0	1			Lightning
			A man of undetermined age was struck by lightning in Maumee Bay State Park while camping. The man was taken to a local hospital and treated for minor injuries.						
Seneca County									
Attica	12	1418EST			0	0			Hail (1.00)
Huron County									
Norwalk	12	1428EST			0	0			Thunderstorm Wind (G60)
Huron County									
Norwalk	12	1430EST			0	0			Hail (1.75)
Sandusky County									
Lindsey	12	1435EST			0	0	10K		Thunderstorm Wind
			Large trees downed near the intersections of U.S. Route 6 and State Route 268.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, North</u>									
Ottawa County									
Oak Harbor	12	1441EST			0	0			Hail (0.75)
Huron County									
Norwalk	12	1445EST			0	0			Hail (0.75)
OHZ028 Crawford									
	12	1505EST 1600EST			0	0			Flood
Street flooding reported in Bucyrus.									
Erie County									
Milan	12	1510EST 1545EST			0	0			Flash Flood
A railroad underpass was flooded in Milan from thunderstorm rains. Occupants of the car were temporarily trapped inside their vehicle.									
Lucas County									
Toledo	13	1328EST			0	0			Hail (1.00)
OHZ007 Ottawa									
	29	0930EST			0	15	3K		High Wind
Winds were kicking up waves averaging 3 to 5 feet on western Lake Erie when a local ferry, enroute from Port Clinton to Put-In-Bay on South Bass Island, was struck by a 10 foot wave. The wave crashed through a window in the main passenger cabin. Fifteen people were injured by flying glass and two were admitted to a local hospital.									
<u>OHIO, Northwest</u>									
Van Wert County									
3 E Middle Pt	09	1305EST			0	0			Hail (2.00)
Putnam County									
Ft Jennings	09	1315EST			0	0			Hail (1.00)
Paulding County									
Charloe	09	1430EST			0	0	0		Thunderstorm Wind
Trees blown down at intersection of County Roads 171 and 146.									
Henry County									
Ridgeville Corners	09	1453EST			0	0			Hail (1.00)
Fulton County									
Archbold	09	1455EST			0	0	0		Thunderstorm Wind
Power lines downed.									
Henry County									
2 N Ridgeville Corners	09	1515EST			0	0	0		Thunderstorm Wind
Power lines downed.									
Fulton County									
Wauseon	09	1531EST			0	0	10K		Thunderstorm Wind
Tree limbs and power lines downed.									
Putnam County									
2 W Rimer	10	2205EST			0	0	2K		Thunderstorm Wind
Sheriff reported trees down.									
Williams County									
Edgerton	11	1925EST			0	0	10K		Thunderstorm Wind
Williams County sheriff reported trees and power lines down. Some trees had fallen onto houses.									
Defiance County									
2 W Defiance	11	1954EST			0	0	5K		Thunderstorm Wind
Defiance County sheriff reported a few downed trees and power lines.									
Van Wert County									
Converse	12	1425EST			0	0	1K		Thunderstorm Wind
Trees reported down in Converse.									
Van Wert County									
Van Wert	12	1435EST			0	0			Hail (2.50)
Van Wert County									
Van Wert	12	1440EST			0	0	2K		Thunderstorm Wind
Trees reported down in the city of Van Wert.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, Northwest</u>									
Van Wert County									
Venedocia	12	1440EST			0	0			Hail (1.50)
Putnam County									
Columbus Grove	13	1405EST			0	0			Hail (1.00)
Nickel to quarter-size hail reported by spotter between Columbus Grove and Ottawa.									
Allen County									
2 W Lima	13	1435EST			0	0	2K		Thunderstorm Wind
Trees down in American Township reported by Allen County sheriff.									
Allen County									
Lima	13	1440EST			0	0			Hail (1.00)
Allen County									
5 NW Lima	13	1440EST			0	0	10K		Thunderstorm Wind
Several large trees uprooted or downed. Four power poles snapped.									
Williams County									
Melbern to Stryker	13	1840EST			0	0	20K		Thunderstorm Wind
Power lines and trees down throughout southern part of county.									
<u>OHIO, Southeast</u>									
OHZ075>076- Athens - Washington - Jackson - Vinton - Meigs - Gallia - Lawrence									
01		0000EST			0	0			Drought
30		2300EST							
The drought continued to spread and strengthen in southeast Ohio. A deterioration in stream flow and soil moisture was noted. Some showers at the end of the month temporarily helped the top soil and the crops. Only 1 to 2 inches of rain fell in most areas during the entire month of June. Nelsonville observed the minimum, with just a half inch of rain. Temperatures peaked in the mid and upper 90s during the second week of the month. Beverly registered 98 degrees, while South Point had 97 degrees on the 10th.									
<u>OHIO, Southwest</u>									
Scioto County									
Portsmouth	08	1620EST 1628EST			0	0	1K		Hail (0.88)
A severe thunderstorm producing penny to nickel size hail also produced winds that knocked power lines down.									
Darke County									
Arcanum	09	1225EST 1300EST			0	0	1K		Flood
Flooding was reported in the city of Arcanum.									
Darke County									
Arcanum	09	1235EST 1240EST			0	0	2K		Hail (0.75)
A thunderstorm produced dime size hail and strong wind that caused a tree to fall on a parked truck.									
Mercer County									
Celina	09	1330EST 1335EST			0	0			Hail (0.75)
Dime size hail was reported with a thunderstorm.									
Darke County									
1 W Osgood	09	1345EST 1350EST			0	0			Hail (0.75)
Dime size hail was reported with a thunderstorm.									
Mercer County									
10 S Celina	09	1426EST 1500EST			0	0			Flood
High water was reported on area roadways in the vicinities of Coldwater.									
Preble County									
New Hope	09	1530EST 1535EST			0	0			Hail (0.75)
Dime size hail was reported with a thunderstorm.									
Logan County									
Huntsville	10	2000EST 2005EST			0	0	2K		Thunderstorm Wind (G50)
Several trees were downed and a gas grill was blown away. Large limbs were also knocked down.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Hardin County									
Ada	10	2030EST 2040EST			0	0	4K		Thunderstorm Wind (G61)
			Several trees were knocked down.						
Clermont County									
Countywide	10	2245EST 2300EST			0	0	500K		Thunderstorm Wind (G57)
			Numerous large trees were reported down. In Miami Township, a roof was torn off of a house causing extensive damage. One of the trees that fell landed on a mobile home.						
Hamilton County									
Harrison	10	2247EST 2255EST			0	0	3K		Thunderstorm Wind (G50)
			Several trees and powerlines were knocked down.						
Logan County									
Lakeview	10	2300EST 2305EST			0	0	3K		Thunderstorm Wind (G50)
			Large trees were downed.						
Union County									
Marysville	10	2300EST 2310EST			0	0	20K		Thunderstorm Wind (G58)
			Large trees were downed. A well constructed tool shed was heavily damaged and a corn bin was blown across a road.						
Clermont County									
Central Portion	10	2305EST			0	2			Lightning
			In Miami Township, two children were reported as being slightly injured by a lightning strike.						
Warren County									
Countywide	10	2307EST 2320EST			0	0	3K		Thunderstorm Wind (G50)
			Several trees were downed across the county.						
Butler County									
Oxford	10	2314EST			0	0			Thunderstorm Wind (G52)
			Measured gust to 60 mph.						
Hamilton County									
Bevis	10	2337EST 2343EST			0	0	3K		Thunderstorm Wind (G52)
			Estimated gust to 60 mph. Pea size hail was reported and several tree limbs were broken.						
Warren County									
Countywide	10	2338EST 2345EST			0	0	3K		Thunderstorm Wind (G50)
			Another thunderstorm later in the same night downed several trees across the county.						
Hamilton County									
Countywide	11	0020EST 0030EST			0	0	4K		Thunderstorm Wind (G50)
			Trees were blown down across the county. Marble size hail was reported in Whitewater Township.						
Clark County									
New Carlisle	11	0115EST 0120EST			0	0	1K		Hail (0.75)
			Dime size hail was reported. A few trees were also knocked down.						
Champaign									
4 W Urbana	11	0200EST 0210EST			0	0	2K		Thunderstorm Wind (G50)
			A few trees were downed by thunderstorm winds.						
Logan County									
East Liberty	11	1700EST 1710EST			0	0	6K		Thunderstorm Wind (G50)
			Trees and power lines were blown down.						
Fayette County									
Jeffersonville	11	1706EST 1710EST			0	0	8K		Thunderstorm Wind (G50)
			Thunderstorm winds uprooted several trees near the outlet malls.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Clermont County									
Amelia	11	1707EST 1715EST			0	0	16K		Thunderstorm Wind (G50)
A tree fell on a mobile home, a shed was blown over, and numerous trees were downed.									
Logan County									
West Mansfield	11	1715EST 1725EST			0	0	10K		Thunderstorm Wind (G50)
Several trees were blown into power lines causing power outages across the town.									
Madison County									
Midway	11	1733EST			0	0			Hail (1.00)
Madison County									
South Solon	11	1743EST 1753EST			0	0	10K		Thunderstorm Wind (G50)
Several trees were blown down. A few fell on powerlines.									
Champaign									
1 W Urbana	11	1800EST 1805EST			0	0	1K		Thunderstorm Wind (G50)
Large limbs were knocked down onto area roadways.									
Greene County									
Cedarville	11	1800EST 1810EST			0	0	4K		Thunderstorm Wind (G50)
Cedarville Township reported several trees blown down.									
Clinton County									
Countywide	12	1330EST 1340EST			0	0	3K		Thunderstorm Wind (G50)
Several trees and powerlines were downed across the county.									
Greene County									
Bellbrook	12	1340EST 1352EST			0	0	1K		Hail (1.00)
A few trees were downed in Bellbrook while quarter size hail fell near the county line near Beaver Creek.									
Montgomery									
Riverside	12	1340EST 1352EST			0	0			Hail (1.75)
Golf ball size hail was reported in Riverside while quarter size hail fell along the county line near Beaver Creek.									
Warren County									
Morrow	12	1345EST 1350EST			0	0	3K		Thunderstorm Wind (G50)
Several trees were reported down in Deerfield Township.									
Warren County									
Waynesville	12	1345EST 1350EST			0	0	2K		Thunderstorm Wind (G50)
Numerous trees were downed or uprooted.									
Franklin County									
Dublin	12	1500EST 1510EST			0	0	3K		Hail (1.25)
One inch hail was also reported. Trees were knocked down, and a few were stripped by the larger 1.25 inch hail.									
Darke County									
Versailles	12	1515EST 1520EST			0	0			Hail (0.75)
Dime size hail was reported.									
Highland County									
5 SE Highland	13	1530EST 1540EST			0	0	30K		Thunderstorm Wind (G60)
A severe thunderstorm produces winds that knocked down several barns and destroyed numerous trees.									
Montgomery									
1 S Kettering to Kettering	13	1610EST 1625EST			0	0	3K		Hail (0.75)
Several trees and powerlines were knocked down. Dime size hail was also reported.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, Southwest</u>									
Montgomery									
Dayton	13	1700EST 1705EST			0	0	30K		Thunderstorm Wind (G55)
A roof was blown off of a residence in East Dayton as well as several utility poles that were snapped in half. Numerous trees were down in the vicinity of Glenrock Road and East Fifth Street. Several trees landed on parked automobiles and garages.									
Montgomery									
Vandalia	13	1718EST 1725EST			0	0	1K		Thunderstorm Wind (G50)
Large branches were blown off of trees.									
Preble County									
Camden	13	1755EST 1800EST			0	0	2K		Thunderstorm Wind (G50)
Two trees were knocked down on area roadways.									
Clermont County									
Goshen	13	1800EST 1815EST			0	0	6K		Thunderstorm Wind (G52)
A large tree fell on a house. Also, numerous trees were downed in Miami Township causing several power outages.									
Hamilton County									
3 N Miamitown	24	2026EST 2200EST			0	0			Flood
A creek was out of its banks in Colerain Township with 6 to 7 inches of water flowing over a bridge crossing Sheets road. Later, one to two feet of water was reported on the street in front of the Greener Elementary School.									
<u>OKLAHOMA, Eastern</u>									
Okfuskee County									
Okemah	01	0345CST			0	0			Hail (0.88)
Okfuskee County									
Weleetka	01	0400CST			0	0	6K		Thunderstorm Wind
A roof on a house was damaged, and numerous tree limbs were blown down.									
Okmulgee County									
Bryant	01	0415CST			0	0			Hail (2.50)
Okmulgee County									
Bryant	01	0415CST			0	0	0.50K		Thunderstorm Wind
Several trees were blown down.									
Okfuskee County									
3 N Weleetka	01	0418CST	0.5	50	0	0			Tornado (F0)
Spotters reported a brief tornado touchdown between Weleetka and Pharoah.									
Mcintosh County									
6 N Eufaula	01	0500CST			0	0			Hail (0.88)
Location: Fountainhead State Park									
Mcintosh County									
Eufaula	01	0502CST 0503CST			0	0			Hail (1.25)
Haskell County									
1 SE Stigler to Mc Curtain	01	0550CST 0600CST			0	0			Hail (3.00)
Le Flore County									
Bokoshe	01	0630CST			0	0			Hail (0.75)
An isolated supercell thunderstorm quickly developed over Okfuskee County early on the morning of June 1, moving east-southeast for several hours to northern Le Flore County before quickly dissipating. Along the way, this isolated storm produced very large hail, damaging winds, and tornado touchdowns.									
Ottawa County									
2 NE Wyandotte	01	1540CST			0	0			Hail (0.88)
Mayes County									
Locust Grove	01	1552CST 1555CST			0	0			Hail (1.75)
A report of dime-sized hail at 452 PM CDT was upgraded to a report of golfball-sized hail at 455 PM CDT.									
Cherokee County									
Lost City	01	1625CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

Cherokee County

6.5 WNW Hulbert to 6.5 WSW Hulbert	01	1635CST 1643CST	2	350	2	5	1.5M	Tornado (F3)
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A strong tornado, rated an F3, touched down in far western Cherokee County, possibly as a waterspout on Fort Gibson Lake. The tornado moved south onshore and through the rural Amber Hills housing area, crossing OK Hwy 51, and lifting after tracking through much of the Sequoyah State Park.

In the Amber Hills and Hammer Hill Road areas, a total of 68 homes sustained some form of damage. Of that, 17 single family dwellings and 13 mobile homes were destroyed. Eight single family dwellings sustained major damage and 11 others had minor damage. One mobile home sustained minor damage. Fourteen other single family dwellings and four other mobile homes were affected. In one of the destroyed mobile homes, an elderly man and woman were inside. The woman was killed immediately, and the man was seriously injured, dying one week later in a hospital of tornado-related complications. This becomes eastern Oklahoma's first killer tornado since the April 1994 Catoosa tornado.

Across OK Hwy 51 in Sequoyah State Park, between 400 and 500 trees were lost to the tornado. The carport at the park manager's residence was destroyed, and an RV was turned on its side. Fortunately, most Memorial Day campers had cleared out, therefore there were no injuries in the park.

F69MH, M69MH

Wagoner County

5 ESE Wagoner	01	1640CST			0	0	0.50K	Thunderstorm Wind
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Several trees were blown down near Taylor Ferry on the west side of Lake Fort Gibson.

Muskogee County

4 E Ft Gibson	01	1708CST			0	0	25K	Hail (1.75)
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Golfball-sized hail near Fort Gibson caused some damage to automobiles.

Muskogee County

2.2 WSW Ft Gibson to 4 SW Ft Gibson	01	1716CST 1721CST	2.3	100	0	0	2M	Tornado (F1)
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An F1 tornado touched down near the Port of Muskogee and moved south for 2.25 miles, lifting just south of Three Forks Park. This tornado destroyed three structures belonging to one business, destroyed two business outbuildings at 3-Forks Park, caused minor damage to one business under construction, and affected eight single family dwellings.

The most newsworthy result of this tornado was damage directly inflicted upon the OG&E electrical generation plant. The tornado damaged a coal conveyor belt and a cooling tower. The damage was enough to shut down two of the plant's four coal-powered generating units.

At the Fansteel plant, six buildings were torn down by the tornado, causing up to \$1.5 million damage there.

Mcintosh County

1 WNW Checotah to .5 S Checotah	01	1746CST 1749CST	1.3	75	0	0	1.6M	Tornado (F1)
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The F1 tornado described here was the first of two tornadoes to touch down in Checotah on the evening of June 1. Each tornado was spawned from the same parent thunderstorm. The first tornado travelled through a more densely populated area of Checotah and therefore caused more damage, even though the second tornado had a stronger intensity rating of F3 on the Fujita scale.

The first tornado touched down at 646 PM CDT on the west side of Checotah near the intersection of US Hwys 69 and 266 (West Gentry Avenue). The tornado then moved southeast through town, eventually lifting near the 700 block of South Broadway Street at 649 PM CDT. Spotters described the tornado as having a rope-like appearance.

Damage assessments in Checotah combined the effects of the first and second tornadoes. Overall for both tornadoes, there were a total of 75 homes that had some sort of damage. Here is the breakdown: six homes were destroyed, 21 homes sustained major damage, 48 homes sustained minor damage, three businesses sustained minor damage, and 28 head of cattle were killed. All of the business damage occurred with the first tornado. Most notably, a Wal-Mart near US Hwys 69 and 266 sustained roof and window damage, while a Pizza Hut on South Broadway Street sustained roof damage. In addition, numerous trees were blown down, with some trees falling onto vehicles and homes.

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

Mcintosh County

Checotah to 4.5 SE Checotah	01	1750CST 1806CST	4.5	350	0	0	700K	Tornado (F3)
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The F3 tornado described here was the second of two tornadoes to touch down in the Checotah area on the evening of June 1. Both tornadoes were spawned from the same parent thunderstorm. Even though this tornado had a stronger F-rating than the first, it caused less widespread damage since it travelled through a less densely populated area.

The second tornado touched down on the southeast side of Checotah near I-40 and Grapevine Road at 650 PM CDT. The tornado travelled southeast for 4.5 miles and then lifted at 706 PM CDT.

Damage assessments in Checotah combined the effects of the first and second tornadoes. For details of the damage assessment, see the third paragraph of the narrative for the Tornado entry immediately preceding this entry. This tornado, the second of the two, was rated an F3 based based on the near-complete destruction of a farm house 3 to 4 miles southeast of Checotah.

Muskogee County

3 S Braggs	01	1750CST			0	0		Hail (1.75)
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Mcintosh County

1.5 NE Onapa to 1.5 SE Onapa	01	1757CST 1804CST	2	75	0	0	40K	Tornado (F2)
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Spotters reported a tornado touchdown in open rangeland, moving due south for about 2 miles. Along the way, this tornado killed 28 head of cattle when they were hurled into a fence line. This tornado also caused minor damage to a home near Onapa.

Mcintosh County

3.5 SE Stidham to 4 W Eufaula	01	1811CST 1819CST	2.3	100	0	0		Tornado (F0)
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Spotters reported a tornado in open country. The tornado moved east-southeast for over two miles.

Pittsburg County

8 NE Canadian	01	1822CST	0.5	75	0	0		Tornado (F0)
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Spotters reported a brief tornado touchdown in open country.

Pittsburg County

10 NE Canadian	01	1830CST	0.5	75	0	0		Tornado (F0)
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Spotters reported a brief tornado touchdown in open country.

Haskell County

Keota	01	1845CST			0	0	0.50K	Thunderstorm Wind
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Several trees were blown down over OK Hwy 9 near Keota.

Muskogee County

Warner	01	1845CST			0	0	1K	Thunderstorm Wind
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Numerous trees were blown over near Warner.

Le Flore County

2 S Spiro to Spiro	01	1854CST			0	0	40K	Thunderstorm Wind (G52)
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Strong winds knocked down numerous trees and power poles in Spiro. One very large tree branch fell onto a house, causing significant roof damage. Several business awnings and canopies were blown down and destroyed. A commercial garage had its roof blown off. At the Spiro ballfield, a power pole fell onto 3rd base, and the visitors' dugout back wall was blown out. An amateur radio spotter two miles south of Spiro reported winds gusting to 60 miles an hour.

Le Flore County

Pocola to Scullyville	01	1858CST			0	0	70K	Thunderstorm Wind
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Strong winds damaged three mobile homes in Pocola. Trees falling onto power lines caused power outages to 2,000 electric customers in Pocola, Scullyville, and Murry Spur.

Le Flore County

3 E Panama	01	1859CST			0	0		Thunderstorm Wind (G61)
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Muskogee County

Porum	01	1900CST			0	0	1K	Thunderstorm Wind
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Numerous trees were blown down near Porum.

Sequoyah County

Vian	01	1900CST			0	0	3K	Thunderstorm Wind
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Tree limbs and power lines were blown down in Vian.

Le Flore County

Cameron	01	1905CST			0	0	4K	Thunderstorm Wind
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Winds peeled the roof off of a mobile home.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Le Flore County									
4 S Poteau	01	1915CST			0	0	4K		Thunderstorm Wind
At least 15 large trees were uprooted along old Hwy 59 between Poteau and Howe. One tree fell onto a storage shed, and a home lost numerous shingles.									
Le Flore County									
Heavener	01	1930CST			0	0	2K		Thunderstorm Wind
A very large tree branch fell onto a pickup truck and a car on the Old Pike. Four power lines were blown over, knocking out power to Heavener for a time. Several other utility poles and tree branches were blown down in Heavener.									
Pittsburg County									
1 W Quinton	01	1940CST			0	0			Hail (1.00)
Choctaw County									
7 W Hugo	01	2000CST			0	0			Hail (0.75)
Le Flore County									
Summerfield	01	2000CST			0	0			Hail (0.75)
Le Flore County									
Summerfield	01	2000CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down in Summerfield.									
Haskell County									
Kinta	01	2015CST			0	0	1K		Thunderstorm Wind
Numerous trees were blown down near Kinta.									
Choctaw County									
Hugo	01	2046CST			0	0			Hail (1.75)
A cold front moving in from the northwest moved into an extremely unstable air mass on the afternoon of June 1. Along the front, an isolated supercell thunderstorm developed around the Pryor/Locust Grove area and then moved in a slow and unusual south-southwest direction. This storm produced very large hail in addition to several strong tornadoes. This storm also produced eastern Oklahoma's first killer tornado in at least half of a decade.									
OKZ057>058									
Craig - Ottawa									
	01	2100CST			0	0			Flood
	04	0400CST							
The Neosho River at Commerce rose above its flood stage of 15 feet at 1000 PM CDT on June 1. The river crested at a level of 15.3 feet at 1100 PM CDT on June 3 before falling back below flood stage at 500 AM CDT on June 4.									
OKZ060-073									
Tulsa - Pittsburg									
	04	0000CST			0	0			Record Warmth
	05	2359CST							
There was record warmth at both the Tulsa International Airport and the McAlester Regional Airport on June 4 and 5.									
On June 4, the low temperature of 75 degrees Fahrenheit at the Tulsa International Airport tied for being the warmest low temperature on record for the date. At the McAlester Regional Airport, the low temperature of 76 degrees Fahrenheit broke the record for being the warmest low temperature on record for the date.									
On June 5, the low temperature of 75 degrees Fahrenheit broke the record for being the warmest low temperature on record for the date.									
Osage County									
Pawhuska	07	1515CST			0	0			Hail (0.88)
Tulsa County									
Collinsville	07	1533CST			0	0			Hail (0.75)
Washington									
Vera	07	1540CST			0	0			Hail (0.75)
Rogers County									
4 NE Collinsville	07	1600CST			0	0			Hail (0.75)
Pawnee County									
Cleveland	07	1655CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down in Cleveland.									
Muskogee County									
Muskogee	07	1830CST			0	0			Hail (0.88)
Muskogee County									
Muskogee	07	1830CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

Muskogee County

Muskogee 07 1830CST
1930CST 0 0 3K **Urban/Sml Stream Fld**

A woman in her car had to be rescued on Chandler Road when her car stalled out in high water.

Wagoner County

3 E Porter 07 1850CST 0 0 **Hail (0.75)**

Wagoner County

Wagoner 07 1900CST 0 0 **Lightning**

A bolt of lightning shut off power to Wagoner's water plant. The water supply was drained, and the town was without tap water until the morning of June 11.

Muskogee County

1 W Muskogee 07 1930CST 0 0 **Hail (1.00)**

Mcintosh County

Hitchita 07 1950CST 0 0 **Hail (1.00)**

Muskogee County

Boynton 07 1955CST 0 0 **Hail (0.88)**

Okmulgee County

5 N Beggs 07 2045CST 0 0 **Hail (1.00)**

Okmulgee County

5 N Beggs 07 2045CST 0 0 **Thunderstorm Wind (G57)**

Okmulgee County

Preston 07 2103CST 0 0 **Hail (1.00)**

Creek County

Sapulpa 07 2300CST 0 0 0.20K **Thunderstorm Wind**

A tree and several large tree limbs were blown over in Sapulpa.

A weak spin in the upper atmosphere, the remains of an old MCS, moved across northeast Oklahoma on the afternoon of June 7. With only weak wind fields present that day, these storms were pulse-like in nature and quickly became outflow-dominated. These storms mainly produced hail up to quarter-size and marginally severe winds in a widely scattered, random fashion around the area.

Muskogee County

Muskogee 10 1300CST
1400CST 0 0 10K **Flash Flood**

About 3/4" of rain fell in a short time in Muskogee, causing water to quickly rise and seep into the Heritage Home Nursing Center on Denver Street. At least one car parked in front of the nursing center was flooded out. At least one street in Muskogee was temporarily closed by high water.

Pittsburg County

Mc Alester 10 1510CST 0 0 **Hail (1.00)**

Wagoner County

Wagoner 10 1520CST
1620CST 0 0 **Flash Flood**

There was street flooding in Wagoner.

Osage County

5 N Fairfax 11 2245CST 0 0 **Hail (0.88)**

An isolated severe thunderstorm formed on the evening of June 11 just west of Hominy along a weak east-west boundary. This storm moved west-northwest to south of the Burbank area. This storm produced nickel-sized hail as it crossed OK Hwy 18 north of Foraker.

Tulsa County

13 SE Tulsa 11 2245CST
2345CST 0 0 **Flash Flood**

An isolated and nearly stationary thunderstorm caused street flooding near 101st and Yale in Tulsa.

Pittsburg County

**(Mlc)Mc Alester
Muni** 16 0000CST
2359CST 0 0 **Heavy Rain**

The daily rainfall total of 1.17 inches at the McAlester Regional Airport broke the old daily rainfall record for June 16.

OKZ060

Tulsa
16 0000CST
2359CST 0 0 **Record Cool**

The high temperature of 73 degrees Fahrenheit at the Tulsa International Airport is the coolest high temperature on record for this date, therefore breaking the record low maximum temperature.

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

Cherokee County

Countywide	20	0345CST 0800CST			0	0			Flash Flood
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There was flooding between OK Hwys 82 and 10 near Blackbird Creek. OK Hwy 82 northwest of Tahlequah was under two feet of water.

Mayes County

Countywide	20	0445CST 0945CST			1	0	150K		Flash Flood
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Radar estimates of 4 to 8 inches of rain in Mayes County centered near Adair caused major flash flooding. The county emergency manager said in media reports that it was the worst flooding he had seen in his 30 years in that position.

Flooding forced the closing of US Hwy 69 2 miles north of Adair and OK Hwy 28 near Adair. Between 630 and 700 AM CDT, a 53-year old man drowned when his car was washed away by eight-foot deep floodwaters flowing over OK Hwy 28 west of Adair. Those floodwaters were associated with heavy flows in a branch of Pryor Creek. Numerous county roads were flooded throughout Mayes County. Pryor Creek jumped its banks near Pryor, displacing ten people from their homes. Two trailers and one home received major damage from Pryor Creek flooding. M53VE

Craig County

Countywide	20	0700CST 1145CST			0	0	100K		Flash Flood
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Most small creeks throughout Craig County overflowed their banks, resulting in serious damage to county roads, estimated at \$75,000-\$100,000. However, no residences were flooded.

Rogers County

Countywide	20	0700CST 1145CST			0	0			Flash Flood
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Chelsea was particularly hard-hit with flash flooding. Several downtown businesses, especially those on the north side of Main Street (6th Street), had water in their shops. OK Hwy 66 at Pryor Creek was nearly impassable when the creek overflowed onto the road. Otherwise, OK Hwy 28 was flooded 2 miles east of Foyil.

Nowata County

Countywide	20	0945CST 1045CST			0	0			Flash Flood
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County roads were flooded near Nowata.

A cluster of thunderstorms developed during the early morning hours of June 20 on the nose of a nocturnal low-level jet. These storms moved very little, and with deep-layer moisture in place to support heavy rainfall rates, these thunderstorms produced very heavy rainfall. Mayes County was hardest hit, with radar estimating four to seven inches of rain over a large part of the county. One man was killed when his car was washed away by floodwaters flowing over a major highway.

The following are some of the heavier rain gage reports for this event: Big Cabin_5NE...7.14", Spavinaw Dam...4.60", Wann...3.74", Claremore_2NE...3.13", Claremore_5W...2.93", Tahlequah_4N...2.81", and Pryor_5NE...2.58", and Centralia_7E...2.25".

OKZ055-060>061

Washington - Tulsa - Rogers

20	0600CST				0	0			Flood
22	1500CST								

The Caney River at Ramona rose above its flood stage of 26 feet at 800 PM CDT on June 20. The river crested at a level of 27.5 feet at 200 AM CDT on June 21 before falling back below flood stage at 200 PM CDT on June 22.

The Caney River at Collinsville rose above its flood stage of 26 feet at 700 AM CDT on June 20. The river crested at a level of 27.9 feet at 700 PM CDT on June 20 before falling back below flood stage at 400 PM CDT on June 22.

OKZ057>058

Craig - Ottawa

20	2300CST				0	0			Flood
22	0000CST								

The Neosho River at Commerce rose above its flood stage of 15 feet at 1200 AM CDT on June 21. The river crested at a level of 16.8 feet at 200 PM CDT later that day before falling back below flood stage at 100 AM CDT on June 22.

Tulsa County

3 W Tulsa	23	0500CST			0	1	15K		Thunderstorm Wind
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A 90-foot tall, 3-foot diameter Cottonwood tree blew over, crashing through the roof of a home west of downtown Tulsa near 65th West Avenue and Charles Page Boulevard. Another 2-foot diameter tree and several large tree limbs were blown down. Nearby, a woman spending the night in a fireworks tent was hit in the head by a flying tent pole, causing a minor injury.

The strong winds associated with this storm report were an isolated occurrence along a line of thunderstorms spreading to the southeast. Most other places saw winds gusting to 40 miles an hour.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
OKZ064		Creek							
	23	1800CST			0	0			Flood
	24	1100CST							
	The Polecat Creek at Sapulpa rose above its flood stage of 21 feet on the morning of June 23. The river crested at a level of 27.1 feet that evening before falling back below flood stage on the morning of June 24.								
OKZ067-070		Wagoner - Muskogee							
	24	0000CST			0	0			Flood
	25	0600CST							
	The Arkansas River at Muskogee rose above its flood stage of 28 feet at 100 AM CDT on June 24. The river crested at a level of 28.3 feet at 500 AM CDT later that morning before falling back below flood stage at 700 AM CDT on June 25.								
Osage County									
Webb City	24	0850CST			0	0	0.10K		Thunderstorm Wind
	Large tree limbs were blown down in Webb City.								
Pawnee County									
Pawnee	24	0900CST 1030CST			0	0	15K		Flash Flood
	The county road which is an extension of 4th Street in Pawnee had a gaping hole after a flash flood washed the road out. The creek that caused this damage flows into Camp Creek.								
Creek County									
Kellyville	24	1205CST			0	0	0.10K		Thunderstorm Wind
	Large tree limbs were blown down in Kellyville.								
Okfuskee County									
Okfuskee	24	1217CST			0	0			Thunderstorm Wind (G52)
Okfuskee County									
5 SE Okfuskee	24	1230CST			0	0			Hail (0.75)
Mcintosh County									
Eufaula	24	1307CST			0	0			Hail (0.75)
Muskogee County									
Warner	24	1325CST			0	0			Thunderstorm Wind (G50)
Le Flore County									
1 S Heavener	24	1430CST			0	0	0.10K		Thunderstorm Wind
	Tree damage was reported south of Heavener.								
Le Flore County									
Hodgen	24	1438CST			0	0			Thunderstorm Wind (G52)
Sequoyah County									
Gans	24	1500CST 1600CST			0	0			Flash Flood
	Several county roads were under water near Gans.								
	A line of thunderstorms formed along a southeastward-moving outflow boundary on the morning of June 24. These thunderstorms eventually moved across all of eastern Oklahoma. Many locations across eastern Oklahoma experienced wind gusts of 40 to 50 miles an hour, though a few storms along in the line pulsed up enough to briefly produce marginally severe wind and hail. This line of storms also produced locally heavy rainfall amounts with most locations receiving from 3/4" to 1 1/2" of rain.								
OKZ057>058		Craig - Ottawa							
	24	2100CST			0	0			Flood
	26	1500CST							
	The Neosho River at Commerce rose above its flood stage of 15 feet at 1000 PM CDT on June 24. The river crested at a stage of 18.1 feet at 1000 PM CDT on June 25 before falling back below flood stage at 400 PM CDT on June 26.								
Le Flore County									
Arkoma	25	1800CST			0	0			Flash Flood
	Several Arkoma streets were flooded.								
Ottawa County									
Wyandotte	28	0614CST			0	0			Hail (0.75)
	A nocturnal MCS moved southeast across Kansas and Missouri early on the morning of June 28. The southwestern extent of a line of storms just clipped eastern Ottawa County, leaving a report of dime-sized hail.								
OKZ064>066		Creek - Okfuskee - Okmulgee							
	29	1100CST			0	0			Flood
	30	2359CST							
	The Deep Fork River at Beggs rose above its flood stage of 18 feet at Noon CDT on June 29. The river continued to rise at the close of June. Refer to the July 1999 Storm Data publication for crest information.								

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Pittsburg County									
Mc Alester	29	1250CST			0	0	2K		Thunderstorm Wind
Two trees fell over on a property at Peaceable and Tanglewood just outside McAlester. One tree fell onto the roof of a home.									
Pittsburg County									
2 S Krebs	29	1255CST			0	0	0.60K		Thunderstorm Wind
A tree and a power line were blown over in the High Hill area.									
Pittsburg County									
5 S Blocker	29	1300CST			0	0			Thunderstorm Wind (G61)
Pittsburg County									
Mc Alester	29	1310CST			0	0	15K		Lightning
Lightning ignited a fire that gutted the attic of a home.									
Latimer County									
Wilburton	29	1325CST			0	0	50K		Thunderstorm Wind (G61)
A small-scale microburst in Wilburton caused minor damage to 20 homes and nine businesses. Two commercial buildings sustained major damage. This includes roofs that were blown off of a laundromat on OK Hwy 2 North and the Wilburton Veterans of Foreign Wars Building. Many trees were uprooted, and many power lines were blown down by the high winds.									
Haskell County									
Stigler	29	1346CST			0	0	10K		Thunderstorm Wind
Strong winds blew the window out of a downtown Stigler business. A downtown building had the tin ripped off of its roof. A tree fell over onto a mobile home, trapping its occupant. Power poles and several other small trees were blown over in Stigler.									
Haskell County									
Stigler	29	1400CST 1430CST			0	0			Flash Flood
There was street flooding in Stigler.									
Haskell County									
Keota	29	1405CST			0	0	0.20K		Thunderstorm Wind
Trees were blown down in Keota.									
Le Flore County									
Panama	29	1420CST			0	0	2K		Thunderstorm Wind
Power lines were blown down in Panama.									
Sequoyah County									
Sallisaw	29	1430CST			0	0	0.50K		Thunderstorm Wind
Winds blew over a large 70-year old pecan tree in Sallisaw.									
Sequoyah County									
Short	29	1440CST			0	0			Thunderstorm Wind (G57)
Latimer County									
Panola	29	1500CST 1530CST			0	0			Flash Flood
US Hwy 270 near Panola was flooded. Severe thunderstorms formed in southeast Oklahoma along an east-west stationary front early on the afternoon of June 29. These storms moved from near McAlester to near Fort Smith, producing several severe wind reports and excessive rainfall.									
OKZ057>058									
Craig - Ottawa									
	29	1300CST			0	0			Flood
	30	2359CST							
The Neosho River at Commerce rose above its flood stage of 15 feet at 200 PM CDT on June 29. The river crested at a level of 16.8 feet at 1100 AM CDT on June 30 before falling back below flood stage at 100 AM CDT on July 1.									
Creek County									
Mannford	30	0315CST			0	0			Thunderstorm Wind (G52)
Tulsa County									
1 W Glenpool	30	0315CST			0	0			Thunderstorm Wind (G66)
Location: on the Tulsa/Creek County line									
Creek County									
Sapulpa	30	0400CST 0500CST			0	0			Flash Flood
There was street flooding in Sapulpa, and several nearby county roads were under water.									

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

Tulsa County

**West Portion to
South Portion**

**30 0415CST
0500CST** **0 0** **Flash Flood**

Most streets in the Meadow Valley subdivision in Sand Springs were under several feet of water when Fisher Creek overflowed its banks and then got backed up by high waters at its confluence just downstream with the Arkansas River. Two residents in the subdivision had to be evacuated by firefighters, though no homes were actually flooded.

Several streets in the southern and western portions of the city of Tulsa experienced flooding. This includes a bridge under water at 96th and Sheridan, flooding at I-44 and 33rd West Avenue, and people were trapped in their vehicle at 88th and Lewis. Riverside Airport in Jenks received 2.74 inches of rain.

Wagoner County

Coweta

30 0425CST **0 0** **0.50K** **Thunderstorm Wind**

Several trees were blown down in Coweta.

Okfuskee County

Pharoah

30 0445CST **0 0** **0.10K** **Thunderstorm Wind**

Several 10-inch diameter tree limbs were blown down.

Okmulgee County

Bald Hill

**30 0445CST
0545CST** **0 0** **Flash Flood**

The area near Bixby Road and South Memorial was flooded.

Okmulgee County

Bald Hill

30 0445CST **0 0** **3K** **Thunderstorm Wind**

Shingles were blown off several roofs near Bald Hill.

Wagoner County

Coweta

**30 0500CST
0630CST** **0 0** **15K** **Flash Flood**

A portion of OK Hwy 51 near Coweta was closed for a time by high water. Other road closing included 121st Street at OK Hwy 51, 131st Street, and Dog Pound Road. Coweta Creek overflowed its banks, flooding South Street and the roadway leading into the Creek Hollow and Cottonwood Additions. Some water damage was reported to a home in the Cottonwood Addition and to outbuildings along Dog Pound Road.

Cherokee County

Tahlequah

**30 0800CST
0900CST** **0 0** **Flash Flood**

Several low-water bridges near Tahlequah were closed for a short time by high water.

Haskell County

Mc Curtain

**30 0810CST
0910CST** **0 0** **Flash Flood**

There was street flooding in McCurtain.

Le Flore County

**Spiro to
Heavener**

**30 0820CST
0920CST** **0 0** **Flash Flood**

In Spiro, the railroad underpass on OK Hwy 9 was flooded.

Just north of Poteau, a section of US Hwy 59-271 was nearly impassable due to heavy rains. Poteau received about 2 1/2 inches of rain on top of already-saturated grounds.

In Heavener, there was lots of street flooding. On the east side of Heavener, water from the nearby Oil Branch flooded yards and streets.

Adair County

7 E Stilwell

**30 0930CST
1100CST** **1 0** **5K** **Flash Flood**

A 22-year old man drowned while attempting to cross a marked low-water bridge over Evansville Creek on OK Hwy 100 east of Stilwell. His compact pickup truck was swept off the road into the fast-moving stream, which had been flooded by up to 4 inches of rain earlier that morning upstream in Crawford and Washington Counties in Arkansas. The man's passenger managed to swim to safety, but the driver was carried downstream where his body was found several days later. M22VE

A line of scattered thunderstorms first developed to the west of Tulsa around 300 AM CDT on the morning of June 30. This line of storms quickly filled in to become a solid line, or a nocturnal MCS, racing southeast toward east-central Oklahoma. Along the way, these storms produced several severe wind reports and torrential rainfall.

Some of the heavier rainfall reports from the morning's rainfall include: Lyons...3.22", Jenks...2.74", Mannford...2.68", Dustin...3.11", and Hominy...2.75". These rains came on top of an already-wet spring and a wet June in which more than half of the days during the month experienced measurable rainfall.

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Eastern

OKZ064

Creek

**30 0600CST
2359CST**

0 0

Flood

The Polecat Creek at Sapulpa rose above its flood stage of 21 feet on the morning of June 30. The river crested at a level of 27.1 feet on the evening of June 30 before falling back below flood stage on the afternoon of July 1.

OKZ076

Le Flore

**30 1500CST
2359CST**

0 0

Flood

The Poteau River at Poteau rose above its flood stage of 24 feet at 400 PM CDT on June 30. The river crested at a level of 25.6 feet at 900 PM CDT on June 30 before falling back below flood stage at 600 AM CDT on July 1.

The Poteau River at Panama rose above its flood stage of 29 feet at 1100 AM CDT on June 30. The river continued to rise at the close of June. Refer to the July 1999 Storm Data publication for crest information.

OKZ069

Adair

**30 1800CST
2359CST**

0 0

Flood

The Illinois River at Watts rose above its flood stage of 13 feet at 700 PM CDT on June 30. The river continued to rise at the close of June. For crest information, refer to the July 1999 Storm Data.

OKLAHOMA, Extreme Southeast

Mccurtain County

2 S Watson

01 2121CST

0 0

Hail (0.88)

Mccurtain County

3 E Idabel

10 0612CST

0 0

Thunderstorm Wind (G65)

Numerous trees and powerlines down.

Mccurtain County

3 E Idabel

10 1612CST

0 0

Hail (0.88)

Mccurtain County

Valliant

11 1630CST

0 0

Thunderstorm Wind (G60)

Several large trees blown over.

Mccurtain County

Valliant

11 1630CST

0 0

30K

Lightning

Lightning hit a refrigerator inside a Valliant residence causing the compressor to explode which literally blew up the kitchen and living room of the house. Luckily no one was home at the time. Extensive damage also occurred from the resulting fire and smoke.

Mccurtain County

Pollard

25 1900CST

0 0

20K

Flash Flood

Flash flooding occurred when 7.9 inches of rain fell in a 2 1/2 hour period washing out roads and bridges. Other heavy rains were also reported in many areas across the northern half of the county washing out multiple small bridges or tin horns and drastically slowing tourism in Smithville, Watson and Buffalo.

Mccurtain County

2 W Watson

29 1500CST

0 0

Flash Flood

Highway 4 underwater

Mccurtain County

Bethel

29 1510CST

0 0

Flash Flood

Several roads closed in town

OKLAHOMA, Panhandle

Beaver County

Bryans Corner

02 2020CST

0 0

Hail (1.00)

Beaver County

Bryans Corner

02 2025CST

0 0

Thunderstorm Wind (G57)

Beaver County

Beaver

02 2045CST

0 0

40K

Thunderstorm Wind (G61)

Report of roof blown off a building.

Beaver County

2 N Logan

02 2050CST

0 0

Thunderstorm Wind (G70)

A surface low over southeastern Colorado with a warm front extending southeastward across the northern sections of the Texas panhandle and a dryline extending southward from the surface low across eastern New Mexico set the stage for severe thunderstorms with damaging winds and large hail over the eastern Oklahoma panhandle during the evening hours.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Panhandle									
Cimarron County									
5 NW Griggs	04	1818CST			0	0			Thunderstorm Wind (G52)
									The Boise City Sheriff's Office reported tree limbs and power poles down.
Cimarron County									
Keyes	04	1820CST			0	0			Thunderstorm Wind (G52)
Texas County									
9 NE Eva	04	1915CST			0	0	500K		Thunderstorm Wind (G61)
									Report of roofs blown off homes between Eva and Hough.
Texas County									
5 W Hooker	04	2037CST 2039CST	0.1	15	0	0			Tornado (F0)
									Texas County Sheriff's Office and Hooker Police Department reported a brief tornado touchdown. The tornado track was estimated. A very moist and unstable atmosphere along with the dryline moving east across the western Oklahoma panhandle combined to trigger severe thunderstorms with damaging winds and a brief tornado during the evening hours across the western and central Oklahoma panhandle.
Beaver County									
6 W Elmwood	09	1723CST			0	0			Hail (1.25)
									The dryline and a very moist and unstable atmosphere combined to produce severe thunderstorms over the eastern Oklahoma panhandle. These storms produced mainly large hail.
Cimarron County									
Kenton	10	1630CST			0	0			Hail (0.88)
Cimarron County									
1 E Kenton	10	1700CST			0	0			Hail (2.75)
Cimarron County									
Boise City	10	1730CST			0	0			Hail (2.00)
Cimarron County									
Felt	10	1805CST			0	0			Hail (1.75)
Cimarron County									
Boise City	10	1819CST			0	0			Hail (0.75)
Cimarron County									
9 W Felt	10	1915CST			0	0			Hail (1.00)
Cimarron County									
Felt	10	1917CST			0	0			Hail (0.88)
Texas County									
2 E Goodwell	10	2050CST			0	0			Thunderstorm Wind (G65)
Texas County									
Guymon	10	2105CST			0	0			Hail (0.75)
Texas County									
Guymon	10	2130CST			0	0			Hail (2.75)
									The combination of outflow boundaries from earlier thunderstorms along with a cold front over southwestern Kansas moving into the northwest Texas and western Oklahoma panhandles served as a triggering mechanism for severe thunderstorms with large hail and high winds across the western and central Oklahoma panhandle during the evening hours.
Beaver County									
Gate	18	1645CST			0	0			Hail (2.50)
Beaver County									
Knowles	18	1655CST			0	0			Hail (2.75)
Beaver County									
Knowles	18	1830CST			0	0			Hail (1.25)
Beaver County									
5 E Slapout	18	2008CST			0	0			Hail (1.00)
									A moist and unstable air mass and a disturbance in the upper atmosphere moving east across the Oklahoma panhandle triggered scattered severe thunderstorms with large hail across the eastern panhandle early during the evening.
Texas County									
8 N Eva	29	1528CST			0	0			Thunderstorm Wind (G52)
Texas County									
4 N Eva	29	1544CST 1545CST	0.1	25	0	0			Tornado (F0)
									The tornado remained over open country and the track was estimated.

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Panhandle

Texas County									
8 N Eva	29	1545CST			0	0			Hail (1.75)
Texas County									
3 SE Eva	29	1630CST			0	0			Hail (2.00)
Texas County									
7 SE Eva	29	1630CST			0	0			Hail (1.75)
Texas County									
7 SE Eva	29	1635CST 1636CST	0.1	25	0	0			Tornado (F0)

The tornado remained over open country and the track was estimated.

Texas County									
2 W Goodwell	29	1710CST			0	0			Hail (1.00)
Texas County									
Goodwell	29	1717CST			0	0			Hail (1.00)
Texas County									
8 NE Goodwell	29	1735CST			0	0			Hail (1.00)
Texas County									
Optima	30	0127CST			0	0			Hail (1.00)
Texas County									
Optima	30	0130CST			0	0			Thunderstorm Wind (G52)
Texas County									
Hardesty	30	0147CST			0	0			Hail (1.75)

A trough of low pressure at the surface extending into the Texas panhandle from a surface low pressure system over southeast Colorado and a warm front moving north across the Texas panhandle allowed for severe thunderstorms with a couple of tornadoes along with large hail and damaging winds to develop over the central Oklahoma panhandle during the late afternoon hours and then continue through the night.

OKLAHOMA, Western, Central and Southeast

Mcclain County									
Newcastle	01	0000CST			0	0			Hail (0.75)
Canadian County									
2 S Yukon	01	0009CST			0	0			Hail (0.75)
Oklahoma County									
Midwest City	01	0022CST			0	0			Hail (0.75)

Severe thunderstorms affected portions of western and central Oklahoma during the afternoon and evening of May 31st, and the early morning of June 1st. There were 3 reports of large hail on June 1st, however numerous reports of severe weather, including 7 tornadoes, were reported on May 31st. Please refer to May Storm Data for more information.

Atoka County									
16 W Atoka	01	1730CST			0	0			Hail (1.75)
Johnston County									
Wapanucka	01	1745CST			0	0			Hail (2.75)
Atoka County									
7 W Caney	01	1820CST			0	0			Hail (0.75)
Bryan County									
2 N Silo	01	1825CST			0	0			Hail (0.75)
Bryan County									
Caddo	01	1829CST			0	0			Hail (0.88)
Atoka County									
Caney	01	1852CST			0	0			Hail (1.25)
Atoka County									
Atoka	01	1920CST			0	0			Flash Flood
Atoka County									
1 E Caney	01	1930CST			0	0			Hail (1.75)

Isolated severe thunderstorms formed over portions of central and western Oklahoma during the evening of the 1st. In addition to several occurrences of large hail, flash flooding was reported in the town of Atoka in Atoka County, where water was reported to be covering parts of Highway 69 and Highway 75.

Harper County									
8 W May	02	1920CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Roger Mills									
Reydon	02	2215CST			0	0	10K		Thunderstorm Wind
Woods County									
10 W Camp	02	2215CST			0	0	20K		Thunderstorm Wind
Woods County									
16 NNE Freedom	02	2235CST			0	0			Thunderstorm Wind (G60)
Beckham County									
3 SE Mayfield	02	2330CST			0	0			Hail (0.75)
Isolated severe thunderstorms formed over portions of western Oklahoma during the evening of the 2nd. A barn was destroyed and another building was damaged in Reydon in Roger Mills County, while in Woods County, a trailer was blown over, and several other buildings were badly damaged at the Salt Plains feed yard, 10 miles west of Camp Houston.									
Custer County									
Weatherford	03	0030CST			0	0	0.50K		Lightning
Lightning struck the roof of a house creating a large hole.									
Tillman County									
1 N Grandfield	06	0836CST			0	0			Hail (1.00)
Comanche County									
3 S Faxon	06	0855CST			0	0			Hail (0.75)
Comanche County									
6 ENE Faxon	06	0915CST			0	0			Hail (0.75)
Murray County									
Dougherty	06	1130CST			0	0	0.01K		Thunderstorm Wind
Kiowa County									
Snyder	06	1200CST			0	0			Flood
Isolated severe thunderstorms formed over portions of western and southern Oklahoma during the morning and early afternoon of the 6th. Severe thunderstorm winds blew down a 12-inch diameter tree limb in Dougherty in Murray County, and flooding occurred on US 62-B in Snyder in Kiowa County.									
Garfield County									
6 S Covington	09	1415CST			0	0			Hail (0.88)
Garfield County									
Drummond	09	1446CST			0	0			Hail (1.00)
Alfalfa County									
Countywide	09 10	1530CST 2200CST			0	0	25K		Flood
Blaine County									
North Portion	09 10	1530CST 2200CST			0	0	10K		Flood
Garfield County									
Countywide	09 10	1530CST 2200CST			0	0	50K		Flood
Grant County									
Countywide	09 10	1530CST 2200CST			0	0	25K		Flood
Kingfisher County									
Countywide	09 10	1530CST 2200CST			0	0	25K		Flood
Logan County									
West Portion	09 10	1530CST 2200CST			0	0	25K		Flood
Major County									
East Portion	09 10	1530CST 2200CST			0	0	10K		Flood
Garfield County									
2 N Fairmont	09	1535CST			0	0			Hail (0.75)
Kingfisher County									
3 W Hennessey	09	1540CST			0	0			Hail (1.00)
Kingfisher County									
6 W Lacey	09	1720CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Kingfisher County									
6 W Lacey	09	1740CST			0	0			Hail (1.00)
Blaine County									
2 N Canton	09	1747CST			0	0			Hail (0.75)
Blaine County									
Longdale	09	1810CST			0	0			Hail (1.75)
Major County									
3 S Cedar Spgs	09	1820CST			0	0			Hail (0.75)
Garfield County									
4 S Fairmont	09	1950CST			0	0			Hail (1.00)
Garfield County									
4 S Fairmont	09	1950CST			0	0			Thunderstorm Wind (G52)
Garfield County									
3 S Garber	09	2300CST			0	0	15K		Lightning
Oklahoma County									
Oklahoma City	10	1035CST			0	0	0.50K		Lightning
Oklahoma County									
Del City	10	1050CST			0	0	10K		Lightning
Kiowa County									
1 W Snyder	10	1245CST			0	0			Hail (1.00)
Jackson County									
Elmer	10	1330CST			0	0			Hail (0.88)
Tillman County									
Frederick	10	1500CST			0	0			Flood

An area of showers and thunderstorms developed in the early afternoon of the 9th across north central Oklahoma, producing isolated severe weather and heavy rainfall. Throughout the remainder of the 9th, and into the early morning hours of the 10th, storms continued to redevelop and move slowly across these same areas, resulting in widespread flooding throughout seven counties. Garfield County appeared to be the hardest hit. Doppler radar estimates indicated that four to ten inches of rain had fallen across much of the southwest and central part of the Garfield County between 1200 CST on the 9th and 1100 CST on the 10th. By 0600 CST on the 10th, rainfall reports since the afternoon of the 9th included:

- 9.0 inches three miles east of Bison
- 8.7 inches four miles southeast of Enid
- 8.43 inches in Bison
- 8.0 inches in Douglas
- 6.92 inches in Waukomis
- 5.12 inches at Vance Air Force Base

Doppler radar estimates of four to eight inches were also noted in the northwest part of Kingfisher County.

The first reports of flooding were from Enid in Garfield county, where street flooding was reported at 1538 CST on the 9th. Several reports of road closures and water covered roads were received from Garfield County during the event. Oakwood Road was closed from just south of Enid to near Waukomis, as was Highway 81 near Bison, which was reported to be covered with two to three feet of water. Highway 81 was also covered with water at various other locations throughout the county. Numerous county roads were water-covered in the vicinity of Bison, including EW Road 56 at Rock Creek, which was under ten inches of water. Water was also covering a county road three miles south of Fairmont. Several roads were closed on the morning of the 10th in and around Waukomis, including Highway 81, Drummond Rd, Pioneer Rd, Blacktop Rd, and Bison Rd.

In Kingfisher County, a family had to be rescued from their home on Cemetary Road in Hennessey on the morning of the 10th. Four to five inches of water covered the road at the intersection of Highways 51 and 132, while the Cimmaron River was flooding Highway 51 six miles west of Lacey. Highway 51 was closed due to flooding along the banks of Turkey Creek, and was covered with water for several hours along the Blaine/Kingfisher County border. Several county roads were flooded in the vicinity of Hennessey, including Highway 51, which was closed from Hennessey to Rock Creek. A square mile of farmland and surrounding county roads were reported underwater at a location to the northwest of Hennessey. The Cimmaron River reached flood stage, which is 17.0 feet, near Dover around 0600 CST on the 10th. Crest was at 19.4 feet around 2030 CST. The river fell below flood stage on the 11th. Dover also received flooding from Turkey Creek.

Officials from Major County reported street flooding in Fairview on the afternoon of the 9th. An apartment building was reported to be flooded in Fairview at 1835 CST. Flooding was reported on various streets and highways throughout the eastern portion of Major county, including a county road that was closed four miles west of Ames. In Alfalfa County, a county road was reported washed out

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Western, Central and Southeast

nine miles east of Byron at 1830 CST on the 9th. Water was also covering Highway 8 three miles south of Cherokee. In Grant County, Highway 81 was closed to the south of Renfrow and just to the south of Medford. Several county roads were also reported to be covered with water in the vicinity of Marshall in northwest Logan County, while in Frederick in Tillman County, flooding was reported on S. Main St. There were also 3 reports of lightning strikes. In Oklahoma County, lightning struck a fiberglass storage tank near the intersection of N. Kelly and Lovell Rd in Oklahoma City, and also an oil tank at Conoco oil and gas plant in Del City, causing a fire, while in Garfield County, lightning struck a tower on Highway 64, 3 miles south of Garber, knocking out phone service to several towns.

Kiowa County

1 W Snyder

10	1245CST									
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Jackson County

Elmer

10	1330CST									Hail (0.88)
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Harper County

3 SW Laverne

18	1735CST 1738CST	0	0	0	0	0				Tornado (F0)
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Harper County

6 W Laverne

18	1737CST			0	0					Hail (1.00)
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Harper County

Laverne

18	1754CST			0	0					Hail (1.00)
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Ellis County

5 NE Catesby

18	1806CST 1809CST	0	0	0	0	0				Tornado (F0)
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Roger Mills

Durham

18	2030CST			0	0					Hail (0.75)
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Widely scattered thunderstorms produced isolated areas of severe weather across northwest Oklahoma during the evening of the 18th. Two tornadoes were reported. An off-duty National Weather Service meteorologist reported the first tornado about 3 miles southwest of Laverne in Harper County. No damage was observed (F0), while the 2nd tornado was reported by a ham radio operator 5 miles northeast of Catesby in Ellis County. Touchdown was very brief with no damage observed (F0).

Garfield County

4 W Garber

19	0443CST			0	0	1K				Thunderstorm Wind
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Noble County

Billings

19	0521CST			0	0					Flash Flood
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Kay County

Blackwell

19	0800CST			0	0					Flash Flood
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Kay County

West Portion

19	0800CST 0900CST			0	0					Flash Flood
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Thunderstorms formed over portions of central Oklahoma during the morning of the 19th. Three power poles were snapped off and fell onto Breckenridge Road 4 miles west of Garber in Garfield County, while in Noble County, water was reported to be covering portions of Highway 15 east of Billings. In Kay County, widespread street flooding occurred in Blackwell, and portions of Interstate 35 and Highway 11 were reported to be covered by water.

Jefferson County

Waurika

19	1515CST			0	0	0.50K				Flash Flood
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Jefferson County

Waurika

19	1515CST			0	0	2K				Thunderstorm Wind
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Jefferson County

10 E Waurika

19	1525CST			0	0					Thunderstorm Wind (G52)
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Caddo County

12 W Gracemont

19	1655CST			0	0					Hail (0.75)
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Caddo County

Southeast Portion

19	1715CST			0	0					Flash Flood
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Jackson County

Martha

19	1725CST			0	0					Hail (0.75)
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Severe thunderstorms which formed across portions of central and southwest Oklahoma during the afternoon and early evening of the 19th knocked down large tree limbs onto a van in Waurika in Jefferson County, and produced heavy rainfall which caused street flooding on D Ave in Waurika, and caused the Delaware Creek in Caddo County to flood at various locations between Cement and Anadarko.

Comanche County

Cache

20	1800CST			0	0					Flash Flood
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Heavy rainfall caused portions of Highway 62 in Cache to become covered with water.

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Western, Central and Southeast

Jackson County

1 N Blair	22	1910CST			0	0			Flash Flood
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Locally heavy rainfall caused portions of Highway 283 near Blair to become covered with water.

Garvin County

Pauls Vly	23	0700CST			0	0	0.50K		Lightning
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Oklahoma County

Oklahoma City	23	0700CST			0	0	50K		Flash Flood
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Cleveland County

Moore	23	0745CST			0	0			Flash Flood
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Cleveland County

Norman	23	0800CST			0	0			Flash Flood
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Thunderstorms which formed across portions of central Oklahoma during the early morning of the 23rd caused widespread street flooding on West Reno in Oklahoma City in Oklahoma County, where a pick-up truck was mostly submerged. Water had to be removed by electric pumps at NW 6th and Penn, while sections of SE 74th near Hiawasse Rd. caved in. In Cleveland County, several roads were closed due to flooding in Norman, and Main St. was flooded near Moore High School in the city of Moore. Finally, lightning struck a tree in Pauls Valley in Garvin County, causing large limbs to fall into several power lines, knocking out power.

Ellis County

8 S Harmon	24	0800CST			0	0			Hail (0.88)
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Major County

17 N Chester	24	0834CST			0	0			Hail (0.75)
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Grant County

Medford	24	1008CST			0	0			Flash Flood
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Kay County

Tonkawa	24	1008CST			0	0			Flash Flood
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Grant County

7 S Medford	24	1010CST			0	0	5K		Thunderstorm Wind
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Garfield County

Enid	24	1015CST			0	0	3K		Lightning
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Payne County

12 SW Stillwater	24	1040CST			0	0			Thunderstorm Wind (G54)
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Payne County

Stillwater	24	1040CST			0	0	25K		Thunderstorm Wind
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Kay County

6 NW Kaw City	24	1100CST			0	0			Thunderstorm Wind (G51)
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Payne County

Countywide	24	1100CST 1200CST			0	0	10K		Flash Flood
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Lincoln County

Chandler	24	1125CST			0	0			Thunderstorm Wind (G52)
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Kay County

Newkirk	24	1130CST			0	0			Flood
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Lincoln County

Chandler	24	1130CST			0	0	75K		Flash Flood
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Lincoln County

Chandler	24	1130CST			0	0	5K		Lightning
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Lincoln County

Chandler	24	1130CST			0	0	10K		Thunderstorm Wind
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Lincoln County

Stroud	24	1130CST			0	0	4K		Lightning
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Lincoln County

Stroud	24	1146CST			0	0			Thunderstorm Wind (G52)
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Lincoln County

Prague	24	1205CST			0	0	0.20K		Thunderstorm Wind
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Hughes County

Holdenville	24	1241CST			0	0	0.10K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Grant County									
Countywide	24	1300CST			0	0			Flood
Hughes County									
Holdenville	24	1300CST			0	0	3K		Lightning
Pontotoc County									
2 S Byng	24	1320CST			0	0			Hail (0.75)
Pontotoc County									
Ada	24	1330CST			0	0	21K		Lightning
Murray County									
Sulphur	24	1350CST			0	0			Thunderstorm Wind (G52)
Murray County									
Davis	24	1559CST			0	0			Flash Flood
Stephens County									
4 NW Duncan	24	1600CST			0	0			Hail (1.00)
Stephens County									
Marlow	24	1610CST			0	0			Hail (0.75)
Stephens County									
5 N Duncan	24	1615CST			0	0			Hail (0.88)
Carter County									
2 N Graham	24	1620CST			0	0			Hail (0.88)
Stephens County									
Duncan	24	1625CST			0	0	3K		Lightning
Comanche County									
Lawton	24	1730CST			0	0	20K		Thunderstorm Wind
Comanche County									
Lawton	24	1805CST			0	0			Flash Flood
Greer County									
Granite	24	2000CST			0	0			Flash Flood
Jackson County									
4 N Altus	24	2000CST			0	0			Flash Flood
Jackson County									
6 WNW Altus	24	2000CST			0	0	15K		Lightning
Jackson County									
6 W Altus	24	2000CST			0	0	0.10K		Thunderstorm Wind
Jackson County									
Altus	24	2010CST			0	0	8K		Thunderstorm Wind
Jackson County									
Altus	24	2015CST			0	0	0.50K		Lightning
Woodward									
Woodward	24	2100CST			0	0			Flash Flood

Thunderstorms formed over portions of northern Oklahoma during the morning of the 24th and moved southward during the day, eventually dissipating across southern Oklahoma during the evening of the 24th. During the late morning and early afternoon, flooding was reported across many sections of Grant County. The first report of flooding was received at 1008 CST, and occurred in the city of Medford, where street flooding, including Highway 11, was observed, resulting in numerous road closures. Flooding expanded into other parts of Grant County by early afternoon. At 1300 CST, water covered parts of Highway 60, 6 miles east of Lamont and also just west of Pond Creek, and Highway 81 extending north out of Medford to the Kansas state line was closed. Across Payne County, in Stillwater, a police officer reported water flowing over the hood of his vehicle at the intersection of 3rd. and Main, and Bethel Road was impassable near the intersection of Dunkin Road due to high water. In Cushing, also in Payne County, a park was completely submerged at the corner of Cherry Street and Michigan Avenue, while in Yale, Mud Creek overflowed its banks between West Broadway and Main, flooding Old City Park and North C Street. In addition, a car was stalled at the intersection of Main and Broadway. In Kay County, street flooding was reported in Tonkawa and on Highway 77 at 1008 CST, and in Newkirk at 1130 CST at the intersection of Countyshed Road and Peckham Road, which was covered by about 1 foot of water. Thunderstorms also produced some wind damage across north central Oklahoma. A barn was blown over 7 miles south of Medford in Grant County. In Stillwater in Payne County, minor roof damage was reported at Apple Creek and Cimarron townhomes, and fallen tree limbs caused window damage to five vehicles in the parking lot of the Oklahoma Employment Security Commission Office, while in Enid in Garfield County, lightning struck a large tree, which then fell onto a house porch.

As the thunderstorms moved south into Lincoln County, lightning ignited a fire at a small business in Chandler, causing minor

Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Western, Central and Southeast

damage; a tree was blown over in Chandler, destroying a porch at a home in the 500 block of Bennett Avenue, while another tree, which was blown over, damaged an automobile. Skirting was also torn off of a mobile home, and a three-sided building was blown over at Read Ranch. Also in Chandler, numerous roads were flooded, including Highway 66 just west of Chandler, and some bridges were damaged. Lightning caused damage in Stroud, when it struck the Lincoln County News Building, resulting in the destruction of a computer and a copying machine, and several trees and power lines were downed in Prague, while in Hughes County, power lines were downed in Holdenville, and lightning struck the roof of a building at the corner of Main and Broadway in Holdenville, creating a large hole. Other structural damage occurred to the side of the building, and power lines were downed on 8th Street and Hinckley Street.

In Pontotoc County, lightning struck a law enforcement communications tower in Ada, damaging the radio system, while in Davis in Murray County, heavy rain caused numerous streets to flood. As the thunderstorms moved into Stephens County, lightning struck a residence on South 13th St. in Duncan, causing extensive damage to the house. In Comanche County, 3 main power feeder lines were blown down in Lawton, causing loss of power to approximately 2500 homes. The roof of a carport was also damaged in Lawton, and street flooding was reported. In Jackson County, 2 barns had their tin roofs blown off in Altus; power lines were downed along Highway 62, 6 miles west of Altus; lightning struck a vacant house 6 miles west-northwest of Altus, causing a small fire, and another house in Altus, destroying a washing machine. Flooding was reported along Highway 6, 4 miles north of Altus, in Granite in Greer County at the intersection of Highway 6 and Lake Creek Road, and in Woodward in Woodward County, where street flooding was reported.

OKZ004>008

Harper - Woods - Alfalfa - Grant - Kay

28	0615CST 0800CST		0	0	50K	High Wind (G85)
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A prolonged period of 60+ mph winds was endured across portions of northern Oklahoma during the early morning of the 28th. These strong winds lasted between 1 and 2 hours, and gusted frequently to near 60 mph. The highest wind gust of 85 knots (98 mph), was measured at 0646 CST at a local television station, 4 miles southwest of Ponca City in Kay County, where a television tower was bent, and sheet-metal was ripped loose.

Comanche County

8 WSW Meers	29	0851CST	0	0		Hail (1.50)
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Comanche County

3 NW Medicine Park	29	0958CST	0	0		Hail (0.88)
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OKZ031

Seminole

29	1100CST		0	0	50K	Flood
30	1100CST					

Mcclain County

Newcastle	29	1105CST	0	0		Hail (0.75)
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Carter County

5 N Ardmore	29	1120CST	0	0		Hail (1.00)
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Pottawatomie

9 W Shawnee	29	1145CST	0	0		Hail (0.75)
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Atoka County

Daisy	29	1500CST	0	0	2K	Lightning
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Thunderstorms which produced isolated severe hail were also responsible for a lightning strike to a 2000 gallon oil tank in Daisy in Atoka County, causing a small fire, and also flooding across portions of Seminole County. Periods of heavy rain, amounting to between 3 and 5 inches, fell across much of Seminole County for a 24-hour period from mid-day of the 29th through mid-day of the 30th. Flooding waters damaged several bridges, including the Sandcreek Bridge, washed out 2 roads, and severely damaged 2 others.

Custer County

6 E Clinton	29	2337CST	0	0		Hail (1.00)
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Hail was reported at exit 72 on Interstate 40.

Harper County

3 W Buffalo	30	0130CST	0	0		Flash Flood
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Harper County

Buffalo	30	0130CST	0	0		Flash Flood
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Kay County

Blackwell	30	0130CST	0	0	5K	Lightning
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Noble County

Perry	30	0200CST	0	0	3K	Lightning
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Noble County

Perry	30	0200CST	0	0	3K	Lightning
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Storm Data and Unusual Weather Phenomena

June 1999

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

OKLAHOMA, Western, Central and Southeast

Cleveland County

Norman 30 0515CST 0 0 **Hail (0.88)**
Hail was reported on Highway 9.

Comanche County

Elgin 30 0530CST 0 0 20K **Thunderstorm Wind**

Pontotoc County

Ada 30 0700CST 0 0 6K **Flash Flood**
Thunderstorms which formed over portions of western and central Oklahoma during the late evening of the 29th and the early morning of the 30th, produced isolated areas of severe weather, flooding, and lightning damage. Thunderstorms formed first over western Oklahoma. A county road was closed between Selman and Buffalo in Harper County, while 3 miles west of Buffalo, Highway 64 was closed due to high water. In Perry in Noble County, a power line was struck by lightning, which then started a fire at a nearby residence, and also in Perry, lightning struck a tree, which then fell onto numerous power lines. In Blackwell in Kay County, lightning struck another tree, which fell onto a house. To the south, in Pontotoc County, widespread street flooding was reported throughout Ada. On North Broadway, water was reportedly a foot deep, causing several vehicles to stall, while in Elgin in Comanche County, a tractor trailer was blown over, and the wall of a nearby cafe was damaged.

Kay County

3 W Tonkawa 30 2040CST 0 0 0.50K **Thunderstorm Wind**

Noble County

3 W Morrison 30 2118CST 0 0 **Hail (0.88)**

Payne County

7 E Stillwater 30 2213CST 0 0 **Hail (1.00)**
Severe thunderstorms which formed over portions of northern Oklahoma during the late evening of the 30th, produced isolated areas of large hail and wind damage. In Kay County, 3 miles west of Tonkawa, several signs were blown over along Interstate 35.

OREGON, Central and East

Deschutes County

Bend 15 1515PST 0 0 **Hail (0.75)**

Deschutes County

5 SE Bend 15 1635PST 0 0 **Hail (0.75)**

Grant County

Granite 16 1400PST 0 0 **Hail (1.00)**
Hail up to 1 inch in diameter dented at least one car. 3 inches of rain in one hour's time was reported between 1:30 and 2:30.

Wallowa County

12 SE Imnaha 18 1505PST 0 0 **Hail (0.75)**

Morrow County

1 N Ione 24 1335PST 0 0 **Hail (0.88)**
A spotter reported nickle-sized hail and 0.31 inches of rain in just 10 minutes one mile north of Ione.

Wheeler County

16 E Fossil 24 1345PST 0 0 **Hail (1.00)**

Union County

Starkey 24 1355PST 0 0 **Heavy Rain**
0.48 inches of rain fell in 20 minutes.

Umatilla County

Hinkle 24 1411PST 0 0 **Thunderstorm Wind (G52)**
A spotter estimated a 60 mph wind gust and also reported one-half inch hail.

Union County

Island City 24 1415PST 0 0 **Hail (1.75)**

Wheeler County

Fossil 24 1415PST 0 0 **Hail (1.50)**

Umatilla County

Hermiston Arpt 24 1415PST 0 0 **Thunderstorm Wind (G52)**
A 52 knot wind gust was reported by ASOS. Local spotters reported several other occurrences of severe weather. At 2:16 pm, a wind gust of 70 mph was observed in town. Pea-sized hail which covered the ground to a depth of one inch and a wind gust of 60 mph was reported in another neighborhood. These strong winds caused power outages on the south side of Hermiston which lasted for 1 1/2 hours. Walchli Farms, located just east of town, lost around 80 acres of onions and 150 acres of watermelon from hail.

Storm Data and Unusual Weather Phenomena

June 1999

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

OREGON, Central and East

Union County

**2 SSW Alicel to
4 ESE Alicel** **24** **1430PST
1440PST** **0** **0** **44K** **Tstm Wind/Hail**

A downburst accompanied with hail caused considerable damage along Market Rd. in Alicel. Winds toppled a 2 foot diameter tree and caused 30,000 dollars damage to a manufactured home and irrigation equipment 3 miles SE of Alicel. Winds downed another large tree 4 miles ESE of Alicel, causing 11,000 dollars of damage to an automobile, carport, a fence and some trees. Nickle-sized hail also occurred at this location. This same storm caused considerable agricultural damage east of La Grande. Several acres of pea crops were lost and wheat crops had their heads toppled.

Umatilla County

Pilot Rock **24** **1520PST** **0** **0** **Hail (1.25)**
Spotters in Pilot Rock reported hail covering the ground to a depth of one inch and a 54 mph wind gust.

Umatilla County

10 W Pilot Rock **24** **1520PST** **0** **0** **Hail (0.75)**
Tree damage due to hail reported 10 miles west of Pilot Rock. Hail covered the ground to a depth of one inch.

Wallowa County

Wallowa **24** **1540PST** **0** **0** **1K** **Thunderstorm Wind**
Strong winds from a thunderstorm knocked down several trees in Wallowa. Hail also fell with this storm.

Umatilla County

Ukiah **24** **1615PST** **0** **0** **Hail (0.88)**

OREGON, Northwest

NONE REPORTED.

OREGON, Southeast

NONE REPORTED.

OREGON, Southwest

ORZ015-015

05 **1409PST** **0** **0** **Extreme Cold**
06 **0800PST**

See below.

A Freeze Warning was issued for for the above zone at 1409 LST, followed by a Frost Warning issued at 2235 LST. Although some stations recorded freezing temperatures, none met Freeze warning criteria.

However, frost probably did develop on this night.

ORZ015-015

06 **1404PST** **0** **0** **Extreme Cold**
07 **0800PST**

Crop level temperature down to the middle teens reported by Klamath Herald and News.

A Freeze Warning was issued for the above counties at 1404 LST. The warning verified at several stations, listed below:

Station	Normal	Observed	Departure
Klamath Falls	44	27	-17
Paisley	43	28	-15
Silver Lake	39	21	-18
Sprague River	37	17	-20

ORZ015-015

07 **1404PST** **0** **0** **Extreme Cold**
08 **0800PST**

See below.

A Freeze warning was issued for the above counties at 1404 LST. The warning verified at two stations, listed below

Station	Normal	Observed	Departure
Klamath Falls	44	25	-19
Sprague River	37	18	-19

Storm Data and Unusual Weather Phenomena

June 1999

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

OREGON, Southwest

ORZ015-015

08	1500PST								
09	0800PST				0	0			Extreme Cold

See below.

A Freeze Warning was issued for the above counties. The warning verified at four stations, listed below:

Station	Normal	Observed	Departure
Silver Lake	39	22	-17
Sprague River	37	18	-19
Malin	42	27	-15
Paisley	44	29	-15

ORZ015

24	1029PST								
					0	0			Extreme Cold

See below.

A Frost Warning was issued for the above counties. No frost was reported, but numerous low temperature readings in the 20s and 30s indicate that frost probably did develop.

ORZ015

25	0340PST								
26	0800PST				0	0			Extreme Cold

See below.

A Frost Warning was issued for the above counties. Although no frost was reported, numerous low temperature readings in the 30s indicate that frost probably did develop.

PACIFIC

Guam

Apra Harbor

07	1420SST								
	1700SST				0	0			Waterspout

Two waterspouts were seen outside Apra Harbour. The waterspouts caused a slight delay in some boating event during the South Pacific Games being held in Guam.

Guam

Countywide

08	0900SST								
	1400SST				0	0			Urban/Sml Stream Fld

The monsoon trough was located south of Guam. Heavy rain moved across Guam and resulted in small scale flooding across parts of the island. At the National Weather Service office at Tiyan 0.43 of an inch of rain fell from midnight to 0400 with an additional 0.75 of an inch falling from 0400 to 1000. Minor flooding was reported in Merizo and Tumon by the local newspaper.

Guam

Central Portion

13	0000SST								
	0400SST				0	0			Urban/Sml Stream Fld

At the National Weather Service Office at Tiyan 0.89 of an inch of rain fell between midnight and 0400.

Guam

Countywide

15	0600SST								
	0800SST				0	0			Urban/Sml Stream Fld

An upper level low moved across the area, which enhanced the showers over Guam. Between 0400 and 1000 1.11 inches of rain was recorded at the National Weather Service Office at Tiyan.

Guam

Central Portion

29	1133SST								
	1137SST				0	0			Funnel Cloud

A funnel cloud was spotted to the northwest of the National Weather Service Office at Tiyan. The funnel cloud moved west and then quickly dissipated.

Guam

Dededo

30	1130SST								
	1400SST				0	0			Urban/Sml Stream Fld

Nexrad radar indicated that 3 inches of rain had fallen over the northwest section of Guam in a three hour period. These showers formed along the sea breeze and were nearly stationary.

PENNSYLVANIA, Central

Mifflin County

Bellefonte

02	1215EST								
					0	0	5K		Thunderstorm Wind

Trees down on wires.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Cumberland									
Mechanicsburg	02	1353EST			0	0	10K		Thunderstorm Wind
		Trees down.							
Dauphin County									
Lucknow	02	1400EST			0	0	5K		Thunderstorm Wind
		Trees down on front street							
Cumberland									
Shiremanstown	02	1405EST			0	0	5K		Thunderstorm Wind
		Trees and power lines down							
York County									
Dallastown	02	1410EST			0	0	10K		Thunderstorm Wind
		Trees blown down.							
Somerset County									
New Centerville	02	1423EST			0	0	10K		Thunderstorm Wind
		Trees were down in New Centerville and Myersdale							
Cambria County									
Johnstown	02	1435EST			0	0	10K		Thunderstorm Wind
		Trees were down in Johnstown and other parts of the county.							
Bedford County									
Schellsburg	02	1515EST			0	0	25K		Thunderstorm Wind
		High winds downed trees and damaged a large machinery shed on a farm near Shawnee State Park. The roof of a 36 by 88 foot metal pole building collapsed and corner posts that had been sunk five feet deep were uprooted. Other supporting poles were snapped off. A wire corncrib was lifted from its foundation and dropped in a tangled mass 70 yards away.							
Bedford County									
Loysburg	02	1525EST			0	0	15K		Thunderstorm Wind
		A large limb snapped off a tree downing a power line and damaging part of the roof of a home before smashing the hood of a car.							
Blair County									
Martinsburg	02	1525EST			0	0	5K		Thunderstorm Wind
		Trees down.							
Bedford County									
Bedford	02	1530EST			0	0	10K		Thunderstorm Wind
		Trees were down on Route 220, 36 and 26 near Bedford and also in Fishertown.							
Clearfield County									
Irvona	02	1536EST			0	0	10K		Thunderstorm Wind
		Trees and power lines down.							
Centre County									
Port Matilda	02	1550EST			0	0	10K		Thunderstorm Wind
		Trees down in Port Matilda and Bellefonte.							
Huntingdon									
Orbisonia	02	1555EST			0	0	5K		Thunderstorm Wind
		Trees down.							
Mifflin County									
Lewistown	02	1645EST			0	0	10K		Thunderstorm Wind
		Trees down in Lewistown and other parts of the county.							
Perry County									
Millerstown	02	1645EST			0	0	10K		Thunderstorm Wind
		Trees and wires down.							
Lycoming County									
Trout Run	02	1646EST			0	0	10K		Thunderstorm Wind
		Trees were down on Route 15 near Trout Run.							
Clinton County									
Beech Creek	02	1708EST			0	0	5K		Thunderstorm Wind
		Trees down on Maple Ave.							

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Franklin County									
Chambersburg	02	1715EST			0	0	5K		Thunderstorm Wind
			Trees down 2 miles north of Chambersburg.						
Union County									
Lewisburg	02	1735EST			0	0	10K		Thunderstorm Wind
			Trees down in Lewisburg and Mifflinburg.						
Tioga County									
Elkland	02	1740EST			0	0	5K		Thunderstorm Wind
			Lines were blown down in Elkland and Millerton.						
Dauphin County									
Middletown	02	1747EST			0	0	5K		Thunderstorm Wind (G50)
			Winds gusted to 58 mph at the Harrisburg International Airport, and wires were down in Hummelstown.						
York County									
Spring Grove	02	1830EST			0	0	5K		Thunderstorm Wind
			A large tree was blown down.						
Mckean County									
Bradford	02	1846EST			0	0	5K		Thunderstorm Wind
			Trees were down on Route 59 and 770.						
Warren County									
Scandia	07	1230EST			0	0	1K		Thunderstorm Wind
			Winds took down large tree limbs along Roper Hollow Road and pea size hail covered the ground 2 miles northeast of Scandia.						
Mckean County									
Lewis Run	07	1255EST			0	0			Hail (1.75)
Mckean County									
Crosby	07	1310EST			0	0	30K		Hail (2.00)
			Large hail fell and trees were blown down on Route 46. One tree fell on a barn and knocked it down.						
Tioga County									
Wellsboro	07	1340EST			0	0			Hail (1.00)
			Quarter size hail fell just southeast of Wellsboro.						
Clinton County									
Renovo	07	1354EST			0	0			Hail (1.00)
			Nickel to quarter size hail fell in Renovo.						
Clearfield County									
Du Bois	07	1430EST			0	0	10K		Thunderstorm Wind
			Trees were blown down in Sandy Township near Du Bois. Limbs were also down in Du Bois.						
Tioga County									
Stony Fork	07	1442EST			0	0			Hail (1.50)
			Golf ball size hail fell in Stony Fork about 6 miles south of Wellsboro.						
Montour County									
Exchange	07	1518EST			0	0			Hail (0.75)
			Dime size hail fell in Exchange.						
Union County									
West Milton	07	1520EST			0	0	150K		Thunderstorm Wind
			Downburst winds took the roof off the St John's Lutheran Church near Kellys Crossroads 3 miles west of Milton. Three barns also had roof damage and trees were down across the area.						
Northumberland									
Milton	07	1525EST			0	0	5K		Thunderstorm Wind
			Trees damaged.						
Columbia County									
Berwick	07	1600EST			0	0	5K		Thunderstorm Wind
			Trees down.						

Storm Data and Unusual Weather Phenomena

June 1999

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

PENNSYLVANIA, Central

Tioga County

West Field **07 1600EST** **0 0 5K** **Thunderstorm Wind**
Power lines down.

Montour County

Danville **07 1615EST** **0 0 1K** **Thunderstorm Wind**
Large limbs down

Schuylkill County

Nuremburg **07 1650EST** **0 0 5K** **Thunderstorm Wind**
Tree blown down in a driveway near Nuremburg.

Northumberland

Sunbury **07 1735EST** **0 0 5K** **Thunderstorm Wind**
Trees down

Columbia County

Catawissa **07 1800EST** **0 0 10K** **Thunderstorm Wind**
Trees down. 1900 without power.

Schuylkill County

Mahanoy City **14 1700EST** **0 0 10K** **Thunderstorm Wind**
Trees and power lines down.

PENNSYLVANIA, East

PAZ060>062

Berks - Lehigh - Northampton

07 0900EST **0 0** **Unseasonably Hot**
08 1800EST

PAZ067>071

Chester - Montgomery - Bucks - Delaware - Philadelphia

07 0900EST **2 1** **Excessive Heat**
09 1800EST
M62PH, M85PH

A large high pressure system over the southeastern United States pumped in a hot and humid air mass across most of Eastern Pennsylvania for three days. The hottest day was the 8th. A weak trough brought in slightly cooler and considerably drier air on the 9th, although high temperatures still reached around 90 degrees. A stronger backdoor cold front (it moved from north to south) brought in considerably cooler air into the region the evening of the 9th. There were two heat related deaths in Montgomery County. The high temperature of 95 degrees on the 8th at the Philadelphia International Airport established a new record high for the day and already matched the hottest day in the city for all of 1998.

Two heat related deaths and at least one heat related injury occurred in Montgomery County. A 62-year-old man was found dead on the third floor of his apartment in Pottstown. An 85-year-old man collapsed in his garage in Royersford. In and around Philadelphia, many school districts that did not have air conditioning dismissed their children early or rotated classes through air conditioned sections of the school. Area health departments issued hot weather health warnings called "code red" to alert and assist the elderly. In Philadelphia search teams went looking for the homeless. In Delaware County fans were distributed to the elderly. PECO Energy reported the highest power usage of the year, about 40 percent above normal. The strain on electrical systems caused about 20,000 homes and businesses to lose power, more than half in Montgomery County after a power substation failed.

Highest temperatures during this hot spell included 98 degrees at the Franklin Institute within Philadelphia, Springfield (Delaware County) and Green Lane (Montgomery County), 97 degrees in Hamburg (Berks County) and Easton (Northampton County), 96 degrees in Reading (Berks County) and Neshaminy Falls (Bucks County), 95 degrees at the Philadelphia International Airport, Pottstown (Montgomery County) and Doylestown (Bucks County), 94 degrees at the Lehigh Valley International Airport, the Willow Grove NAS (Montgomery County), Perkasio (Bucks County) and East Stroudsburg (Monroe County), 93 degrees at the Wilkes-Barre/Scranton International Airport (Luzerne County) and 91 degrees at both Mount Pocono (Monroe County) and the F. E. Walter Dam (Carbon County).

Carbon County

Palmerton **07 1730EST** **0 0** **Thunderstorm Wind (G50)**
A severe thunderstorm knocked down several trees in Palmerton.

Northampton

Walnutport **07 1755EST** **0 0** **Hail (0.88)**

Northampton

Walnutport to Nazareth **07 1800EST 1812EST** **0 0** **Thunderstorm Wind (G57)**

Northampton

Nazareth to Easton **07 1812EST 1820EST** **0 0** **Thunderstorm Wind (G57)**

A severe thunderstorm dropped large hail and produced damaging winds in Northampton County. Hardest hit were municipalities in

Storm Data and Unusual Weather Phenomena

June 1999

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

PENNSYLVANIA, East

the southwest half of the state. In Moore Township, a motorist was briefly trapped by a downed tree on Pennsylvania State Route 248. In Lehigh Township, a tree fell onto a home and punctured a hole through the roof above a bedroom. A utility pole fell onto another house in Bath. In Nazareth, fallen trees crushed a pickup and a camper and several utility poles were split in two. Easton was hard hit with about 25 calls of downed trees and wires. One eastbound lane of U.S. Route 22 was closed for several hours when part of a tree fell onto the roadway. Other municipalities that reported wind damage included Bethlehem, Palmer Township, Northampton and Walnutport Boroughs. Nickel size hail also fell in Walnutport. About 7,500 homes and businesses throughout the Lehigh Valley and Bucks County lost power. About 4,500 of the outages occurred in Bethlehem and Easton. No serious injuries were reported.

Lehigh County

New Smithville 07 1845EST 0 0 5K **Thunderstorm Wind (G50)**

Lehigh County

Coopersburg 07 1905EST 0 0 5K **Thunderstorm Wind (G50)**

A severe thunderstorm knocked several trees and wires across the southern part of Lehigh County from New Smithville through Coopersburg. About 7,500 homes and businesses throughout the Lehigh Valley and Bucks County lost power. About 1,555 of the outages occurred within Allentown. No serious injuries were reported.

Bucks County

Richlandtown 07 1915EST 0 0 5K **Thunderstorm Wind (G50)**

A severe thunderstorm knocked down large limbs and wires in Richlandtown. About 7,500 homes and businesses throughout the Lehigh Valley and Bucks County lost power. The worst outages occurred in Lehigh and Northampton Counties.

PAZ054>055-

Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware -

10 0900EST 0 0 0 Drought
30 2359EST

Unseasonably dry weather continued throughout the month of June across Eastern Pennsylvania. The ongoing dry weather forced the Department of Environmental Protection to declare a drought warning in 47 counties in the commonwealth including all of Eastern Pennsylvania. The drought began during the second half of 1998. To fully recover above normal precipitation was needed during the winter and spring. While January had above normal precipitation, the subsequent months did not. Both May and June were unseasonably dry. Consequently groundwater levels and streamflows at all monitoring stations were below normal and at some at record lows for the time of year. In Chester County, groundwater levels averaged four feet below normal. Ninety percent of the Delaware River Basin groundwater wells were below normal. The drought warning called for a ten percent voluntary reduction in water consumption. The next day, the Susquehanna River Basin Commission declared a drought warning for the entire 27,510 square mile Susquehanna River Basin. Groundwater levels were at dangerously low levels in several counties in the lower part of the basin.

On a county weighted average June monthly precipitation averaged between 0.7 inches in Montgomery County to 1.9 inches in Carbon County or between 18 and 42 percent of normal. The 0.98 inches of precipitation at the Lehigh Valley International Airport was the fourth driest on record. By the end of the month 85 percent of all soil moisture content was rated as either very short or short. Crops were curling due to the extremely hot weather and the lack of moisture. In western and northern Berks County conditions were described as critically dry. Farmers fear that entire crops may be lost if the region does not get significant rain in the next few weeks. The hot weather in June also cut down on milk production as cows were not comfortable. The second cutting of hay was slow due to the dry weather. Some farmers started to supplement feed due to poor pasture conditions.

PAZ068

Montgomery

27 1000EST 1 0 0 Excessive Heat
1800EST

A 73-year-old Norristown man was found dead in his apartment on June 28th. His death was determined to be heat related. The high temperature at the Philadelphia International Airport on the 27th was 90 degrees. But the temperature in the room he was found was over 90 degrees. M73PH

PENNSYLVANIA, Northeast

Bradford County

Athens 07 1415EST 0 0 5K **Thunderstorm Wind**

Bradford County

9 S Troy 07 1430EST 0 0 8K **Thunderstorm Wind**

Susquehanna

Great Bend 07 1520EST 0 0 15K **Thunderstorm Wind**

Bradford County

Terrytown 07 1535EST 0 0 5K **Thunderstorm Wind (G51)**

Wyoming County

Countywide 07 1610EST 0 0 5K **Thunderstorm Wind (G51)**
1630EST

Luzerne County

Hazleton to Duryea 07 1630EST 0 0 5K **Thunderstorm Wind**

Storm Data and Unusual Weather Phenomena

June 1999

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

PENNSYLVANIA, Northeast

Lackawanna

Moosic to
Scranton

07 1635EST 0 0 Hail (0.75)

Wayne County

Hamlin to
Honesdale

07 1645EST 0 0 Thunderstorm Wind (G51)
1715EST

Pike County

Countywide

07 1715EST 0 0 80K Thunderstorm Wind
1745EST

Northeast Pennsylvania's only damage producing thunderstorms for the month came on this day as a disturbance in the upper atmosphere raced out of the Ohio Valley and across the Pennsylvania/New York border during the afternoon. Natural daytime heating and warm, humid air created very unstable conditions over most of the northeastern United States. Clusters of thunderstorms moved into and continued to develop throughout the area during the mid afternoon. Initial reports of damage came from Bradford county around 3:30 p.m. EDT where a porch was badly damaged and a five by eight foot section from a barn, located on South Side Rd. in Leroy Township, was torn off. A little less than an hour later, a roof was lifted off a house in Great Bend, Susquehanna county. Storms tracked east taking down numerous trees and powerlines in Wyoming, Wayne and Luzerne counties between 5:00 and 6:00 p.m. EDT, then ferociously struck Pike county with widespread tree damage over northern sections of the county. One mobile home was destroyed and three others damaged in Blooming Grove.

PENNSYLVANIA, Northwest

PAZ001>003

Northern Erie - Southern Erie - Crawford

01 0000EST 0 0 Drought
30 2359EST

Little rain occurred from late May through much of June. Only 3.00 inches of rain fell in Erie during the month, but of that total only 1.36 inches fell prior to the 24th of June. Scattered rains late in June brought hope for farmers but it is likely that crop yields will be reduced even with adequate rainfall the remainder of the season. Losses due to the drought were unknown.

Crawford County

Cochranon

10 1515EST 0 2 Lightning

Two children of undetermined age were struck by lightning while playing outside. Both received only minor injuries and were treated and released from hospital.

Crawford County

Conneaut Lake

10 1515EST 1 1 10K Thunderstorm Wind

Strong winds snapped a tree limb at the Jamestown Campground inside Pymatuning State Park. A 48 year old male camper who had taken shelter under a canopy at his campsite was killed by the falling limb. The camper's 10 year old son was also injured. The son was transported to a local hospital and was treated and released. Many other trees were reported downed in the state park. M48CA

PAZ003

Crawford

Central Portion

10 1530EST 0 0 Flood
1700EST

Heavy thunderstorm rain caused flooding of roads and low lying areas in and around Meadville.

Crawford County

Meadville

10 1533EST 0 0 Hail (1.00)

Crawford County

Mt Hope

10 1600EST 0 0 Hail (0.75)

Crawford County

Meadville

10 1610EST 0 0 5K Thunderstorm Wind

Many trees downed five miles northeast of Meadville.

Erie County

Corry

10 1630EST 0 0 25K Thunderstorm Wind

Many large trees down and widespread power outages.

Erie County

Waterford

10 1635EST 0 0 Hail (0.75)

PENNSYLVANIA, West

Westmoreland

Whitney

02 1420EST 0 0 3K Thunderstorm Wind (G50)

Thunderstorm winds downed several trees and power lines.

Storm Data and Unusual Weather Phenomena

June 1999

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

PENNSYLVANIA, West

Armstrong County

Elderton	02	1430EST			0	1	250K		Thunderstorm Wind (G85)
A microburst with winds estimated to around 100 MPH blew a 3-mile long swath across the Elderton area. One house was completely destroyed, with one person receiving minor injuries. Four other homes suffered structural damage, and another ten homes in the area received minor damage. Two cars were also damaged. Most of the affected homes were in the area off Route 210 just northeast of Elderton, near the Keystone Dam. A few homes on the outskirts of Atwood also reported minor damage. Numerous trees in the area were blown down, either uprooted or snapped off.									

Fayette County

Connellsville	02	1430EST			0	0	10K		Thunderstorm Wind (G50)
Thunderstorm winds downed several trees and power lines across the Connellsville area. One tree fell onto a garage and surrounding fence, causing minor damage.									

Westmoreland

Derry	02	1436EST			0	0	3K		Thunderstorm Wind (G50)
Thunderstorm winds downed several trees.									

Westmoreland

Greensburg	02	1440EST			0	0	1K		Thunderstorm Wind (G50)
Thunderstorm winds downed several large tree limbs.									

Indiana County

Plumville	02	1455EST			0	0	3K		Thunderstorm Wind (G50)
Thunderstorm winds downed several large trees and power lines.									

Mercer County

Jamestown	10	1515EST			0	0			Hail (0.75)
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Mercer County

Jamestown	10	1515EST			0	0	3K		Thunderstorm Wind (G50)
Thunderstorm winds downed several large trees and power lines.									

PUERTO RICO

Mayaguez

Central Portion	01	1400AST 1600AST			0	0		2K	Tstm Wind/Hail
Civil Defense indicated two landslides obstructing road 124 and strong winds damaging plantain crops in Las Marias. In Maricao two trees went down obstructing road 357.									

San Juan

Trujillo Alto	02	1400AST 1600AST			0	0	3K		Heavy Rain
Heavy rains produced landslides over Trujillo Alto road 881. A house was affected. In addition road 876 was impassable due to flooding.									

Mayaguez

Las Marias	02	1400AST 1600AST			0	0	3K		Tstm Wind/Hail
A strong thunderstorms knocked down three electrical poles in Las Marias. Mudslide was reported on road 124.									

Mayaguez

Las Marias	03	1400AST 1600AST			0	0			Heavy Rain
Civil Defense indicated landslides over road 119 in Las Marias due to heavy rain.									

Humacao

Rio Grande	03	1615AST 1625AST			0	0			Waterspout
A woman in Coco Beach, Rio Grande, sighted a waterspout just north from the beach.									

Aguadilla

Aguada	03	1900AST 2100AST			0	0			Flood
Heavy rains during the afternoon hours across the northwest Puerto Rico caused that Rio Culebrinas to overflow its banks over Espinosa sector in Aguada affecting agricultural sectors.									

Humacao

Naguabo	04	1100AST 1300AST			0	0	0		Urban/Sml Stream Fld
Several roads flooded in Nauabo due to heavy rains.									

San Juan

Central Portion	04	1100AST 1300AST			0	0	5K		Urban/Sml Stream Fld
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PUERTO RICO									
									Civil Defense indicated two houses flooded in Trujillo Alto and San Juan.
Mayaguez									
Central Portion	08	1400AST 1600AST			0	0			Urban/Sml Stream Fld
									Civil Defense indicated that heavy rains prompted a small stream to overflow its banks flooding various roads between Cabo Rojo and San German. A car was swept away by the waters. The occupant was rescued without injuries.
San Juan									
San Juan	09	1400AST 1600AST			0	0	5K		Urban/Sml Stream Fld
									Heavy rains caused a pipe to collapse flooding several houses in Caimito sector in San Juan.
Mayaguez									
Mayaguez	09	1400AST 1600AST			0	0			Tstm Wind/Hail
									A spotter reported small hail. Strong winds downed some trees.
Aguadilla									
San Sebastian	09	1600AST 2000AST			0	0			Heavy Rain
									Civil Defense indicated that heavy rains produced two mudslides on roads 111 and 119 in San Sebastian
Arecibo									
Camuy	09	1600AST 2000AST			0	0			Heavy Rain
									A bridge in Quebrada sector collapsed.
Mayaguez									
Anasco	09	1600AST 1630AST			1	0			Heavy Rain
									Heavy rain during the afternoon hours over parts of northwest Puerto Rico, upstream of Rio Grande de Anasco, produce a sudden rise in the stage near Anasco. Two fishermen at the mouth of the river were swept away. One could reach the shore and the other one drowned. The body was recovered about a month later when the waters receded. M58IW
Mayaguez									
Las Marias	11	1400AST 1600AST			0	0			Urban/Sml Stream Fld
									Civil Defense in Las Marias indicated that Rio Mayaguecillo went out of its banks flooding road 124. A mudslide occurred at road 124.
Mayaguez									
Mayaguez	12	1500AST 1700AST			0	0			Urban/Sml Stream Fld
									A small stream went out of its banks flooding a road near Javilla sector.
San Juan									
Carolina	12	1500AST 1700AST			0	0			Urban/Sml Stream Fld
									Heavy rains caused a small stream to overflow its banks flooding road 853 near Maracuto sector in Carolina.
San Juan									
Caguas	15	1400AST 2000AST			0	0	120K		Flash Flood
									Civil Defense reported flooding at Bairoa and Las Carolinas neighbourhoods in Caguas. This heavy rainfall caused a house at Bairoa sector to collapse and to slide down a ravine after the road caved in. Elsewhere, a car was swept away while crossing a flooding sector in Caguas but eventually rescued by Civil Defense personnel.
Arecibo									
Utuaado	16	1400AST 1600AST			0	0			Urban/Sml Stream Fld
Ponce									
Adjuntas	16	1400AST 1600AST			0	0			Urban/Sml Stream Fld
									A merge between Rio Adjuntas and Rio Arecibo went out of its banks flooding a road that intersects Utuaado and Adjuntas.
Humacao									
West Central Portion	17	1400AST 1800AST			0	0	20K		Flash Flood
									Civil Defense indicated few houses affected by the rains in Las Piedras and Juncos.
San Juan									
Central Portion	17	1400AST 1800AST			0	0	200K		Flash Flood
									Heavy rains caused two houses to collapse in Bairoa sector in Caguas. Road 796 right across from the houses, broke into pieces.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>PUERTO RICO</u>									
Mayaguez Rincon	19	1200AST 1245AST			0	0			Thunderstorm Wind (G56)
Elsewhere, mudslides affected 15 homes in the Alto Monte sector in Caguas. The mud engulfed their properties and destroyed most of their belongings. In addition Civil Defense indicated few houses affected by the rain in Morovis. A spotter indicated wind gust up to 65 mph.									
Mayaguez Mayaguez	19	1400AST 1600AST			0	0			Urban/Sml Stream Fld
Civil Defense reported a landslide and flooding on road 354 in Mayaguez.									
San Juan Dorado	23	1400AST 1500AST			0	0			Urban/Sml Stream Fld
Civil Defense indicated flooding on road 2, Espinosa sector, in Dorado.									
Mayaguez Mayaguez	28	1400AST 1530AST			0	0			Tstm Wind/Hail
A spotter reported small hail and flooding of streets in downtown Mayaguez.									
<u>RHODE ISLAND</u>									
RIZ004 Eastern Kent	07	1300EST			0	0			Record Heat
High pressure near Bermuda brought a southwest flow of hot and humid air to Rhode Island. The high temperature of 96 degrees at T.F. Green State Airport in Warwick tied the record high temperature for the date, which was set in 1925.									
<u>SOUTH CAROLINA, Central</u>									
Edgefield County Edgefield	03	1749EST			0	0			Hail (0.75)
Sheriff reported 3/4 inch hail in edgefield.									
Clarendon County 10 S Manning	03	1814EST			0	0			Hail (0.75)
Spotter reported 3/4 inch hail near Santee dam.									
Mccormick 4 E Plum Branch	03	1819EST			0	0	0	0	Thunderstorm Wind (G50)
Sheriff reported trees and powerlines down on hwys 283 and 21. Confirmed by spotter.									
Edgefield County 7 SSE Colliers to 7.5 SSE Colliers	15	2220EST 2221EST	0.5	30	0	0	0.50K	0	Tornado (F0)
An F0 took some tops out of trees and took down a fence on a horse farm.									
Aiken County 13 NW Wagener	16	1455EST			0	0	0	0	Thunderstorm Wind (G50)
Storm survey found trees down on hwys 74 and 134.									
Aiken County 13 NW Wagener	16	1457EST			0	0			Hail (1.00)
Public and business reported quarter size hail with event during storm survey.									
Lexington County 10 W Pelion	16	1505EST			0	0		0	Thunderstorm Wind (G50)
Storm survey found trees down in and around Steedman.									
Lexington County 12 W Pelion	16	1510EST			0	0	0	0	Hail (0.75)
Highway Patrol reported 3/4 inch hail at I-20 and hwy 178.									
Calhoun County Cameron	16	1750EST			0	0	0		Hail (0.75)
General public reported 3/4 inch hail.									
Calhoun County Cameron	16	1755EST			0	0		0	Thunderstorm Wind (G50)
City hall reported a few trees down in and around Cameron.									

Storm Data and Unusual Weather Phenomena

June 1999

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

SOUTH CAROLINA, North Coastal

Marlboro County

Bennettsville 10 1755EST
1800EST 0 0 5K **Thunderstorm Wind (G60)**

Downed trees and power outages were reported.

Horry County

Myrtle Beach 15 1345EST
1630EST 0 0 25K **Flash Flood**

A slow moving thunderstorm dropped about 4 inches of rain on Myrtle Beach during the afternoon. Drainage pipes were unable to accommodate the runoff at the corner of Ocean Blvd and Ave 55 N, where ponding reached a depth of 5 feet, necessitating the evacuation of 140 people. Between 30 and 40 rain-related car accidents occurred in the Myrtle Beach area.

Horry County

2 SE Little River 18 1015EST
1020EST 0 0 **Waterspout**

The Coast Guard reported a waterspout off Little River Inlet, moving east. The waterspout dissipated with no landfall.

SOUTH CAROLINA, Northwest

Greenville County

**Travelers Rest to
1 NW Greenville** 03 1406EST
1420EST 0 0 **Hail (1.00)**

Greenville County

**Travelers Rest to
1 NW Greenville** 03 1406EST
1420EST 0 0 **Thunderstorm Wind (G55)**

Greenville County

**Simpsonville to
5 SE Simpsonville** 03 1500EST
1515EST 0 0 **Hail (0.75)**

Greenville County

**Simpsonville to
5 SE Simpsonville** 03 1500EST
1515EST 0 0 **Thunderstorm Wind (G50)**

Laurens County

**6 N Hickory
Tavern to
Hickory Tavern** 03 1523EST
1533EST 0 0 10K **Hail (1.75)**

Laurens County

**6 N Hickory
Tavern to
Hickory Tavern** 03 1523EST
1533EST 0 0 40K **Thunderstorm Wind (G60)**

Laurens County

**1 SW Gray Court
to
1 S Ekom** 03 1539EST
1555EST 0 0 **Hail (1.75)**

Cherokee County

12 NE Gaffney 03 1550EST 0 0 **Thunderstorm Wind (G50)**

Laurens County

Waterloo 03 1615EST 0 0 **Hail (0.75)**

Laurens County

Waterloo 03 1615EST 0 0 **Thunderstorm Wind (G50)**

Greenwood

2 N Ninety Six 03 1648EST 0 0 **Thunderstorm Wind (G50)**

Abbeville County

Level Land 03 1715EST 0 0 **Thunderstorm Wind (G55)**

Abbeville County

2 N Abbeville 03 1730EST 0 0 **Thunderstorm Wind (G50)**

A large severe thunderstorm moved south out of the mountains in Greenville county and produced wind damage and quarter size hail from Travelers Rest to the northwest side of Greenville. The storm pulsed up again and produced more wind damage and dime to golf ball size hail from Simpsonville through the western half of Laurens county. Numerous trees and power lines were downed. Mobile homes were damaged by the wind, including a roof which was torn off in the Hickory Tavern area. Also cars were dented and windshields broken by the large hail. Other storms developed on the outflow from this large storm and a couple became severe across Abbeville and Greenwood counties. Wind damage was confined to downed trees.

York County

Clover 09 1625EST 0 0 **Hail (0.75)**

Dime size hail was produced by a severe thunderstorm.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Northwest</u>									
Greenville County									
Taylors	10	1355EST			0	0			Thunderstorm Wind (G52)
Pickens County									
Sunset to 6 NW Pickens	10	1500EST			0	0			Thunderstorm Wind (G50)
Greenville County									
Simpsonville	10	1525EST			0	0	5K		Hail (1.75)
Greenville County									
Simpsonville	10	1525EST 1535EST			0	0			Thunderstorm Wind (G52)
Cherokee County									
Gaffney to 3 N Gaffney	10	1600EST			0	0			Thunderstorm Wind (G50)
Greenville County									
4 E Piedmont	10	1600EST			0	0	5K		Thunderstorm Wind (G55)
Anderson County									
Piedmont	10	1615EST 1630EST			0	0	5K		Thunderstorm Wind (G50)
Greenville County									
Piedmont	10	1615EST			0	0			Thunderstorm Wind (G50)
Union County									
Buffalo	10	1715EST			0	0	5K		Lightning
Union County									
Union	10	1715EST			0	0			Thunderstorm Wind (G50)
York County									
Rock Hill	10	2055EST			0	0			Thunderstorm Wind (G50)
York County									
York to Clover	10	2100EST			0	0			Thunderstorm Wind (G50)
Cherokee County									
Blacksburg to Gaffney	10	2147EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms rumbled across Upstate areas from Pickens to Rock Hill during the late afternoon and evening. Downed trees was the most common damage. A deputy estimated 60 mph winds in downtown Greenville. A massive hail storm occurred on I-385 near Simpsonville, where many cars were damaged by dime to quarter size hail. There were many power outages reported from Piedmont to Rock Hill. Two power poles were blown over in Union, causing a 5 hour power outage. Lightning struck a tree in Buffalo, killing 4 head of Black Angus cattle.

SOUTH CAROLINA, South Coastal

Charleston County									
James Is to Mt Pleasant	16	0830EST 0945EST			0	0			Flood
Flooding covered roads and water seeped into several homes and businesses.									
Jasper County									
1 E Ridgeland	16	1555EST 1558EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Jasper County									
South Portion	29	0909EST 1130EST			0	0			Flood
Beaufort County									
East Portion	29	0930EST 1130EST			0	0			Flood
Beaufort County									
East Portion	29	1215EST 1430EST			0	0			Flood
Jasper County									
South Portion	29	1215EST 1415EST			0	0			Flood

Storm Data and Unusual Weather Phenomena

June 1999

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

SOUTH CAROLINA, South Coastal

Beaufort County

East Portion	29	1500EST 1800EST			0	0			Flood
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Jasper County

South Portion to East Portion	29	1510EST 1800EST			0	0			Flood
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Slow moving showers and thunderstorms developed repeatedly over Beaufort and Jasper Counties. This produced 6 to over 8 inches of rain over the affected counties. Doppler Radar estimated up to 15 inches in Jasper County, close to the Savannah River, which is the Georgia-South Carolina border. There were actual reports on the Georgia side of the Savannah River of just over 13 inches. Numerous roads were closed and/or washed out and water seeped into several homes and businesses.

SOUTH DAKOTA, Central and North

Jones County

Murdo	04	2030CST			0	0			Thunderstorm Wind (G52)
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Jones County

2 W Murdo to 1 NE Murdo	04	2110CST 2120CST	3	15	0	0			Tornado (F0)
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A tornado touched down west of Murdo and went through an uninhabited farmstead tipping over a shed, moving some machinery around, tearing up a few trees, and scattering some hay bales around. On another farm, the tornado tore apart an open fronted shed, tipped over a wooden granary into a travel trailer, turned a combine ninety degrees, tore up some calving sheds, and snapped the tops of many cottonwood trees. The snapped tree tops were laying in all different angles. Some power poles and lines were brought down, leaving many in the dark for several hours. The tornado moved northeast and flipped over a semi trailer parked at a rest area on Interstate-90 and continued north damaging some more power lines and small structures before dissipating. Path length and width were estimated.

Hughes County

Blunt	04	2225CST			0	0			Thunderstorm Wind (G52)
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Strong winds to 60 mph blew many tree branches down throughout Blunt.

Hughes County

4 E Canning	04	2225CST			0	0			Hail (0.88)
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Hyde County

Highmore	04	2230CST			0	0			Thunderstorm Wind (G55)
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Winds gusting to 65 mph caused damage to several trees in Highmore. One branch took down a power line.

Hyde County

Highmore	04	2240CST			0	0			Hail (1.00)
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Faulk County

6 W Faulkton	04	2325CST			0	0			Thunderstorm Wind (G52)
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Faulk County

Faulkton	04	2330CST			0	0			Thunderstorm Wind (G52)
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Spink County

4 W Mansfield	04	2348CST			0	0			Thunderstorm Wind (G61)
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The high winds blew down a barn and took out several windows in the farmhouse.

Brown County

5 S Warner	04	2350CST			0	0			Thunderstorm Wind (G70)
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Winds gusting to 80 mph slid a pickup over.

Brown County

Warner	04	2355CST			0	0			Thunderstorm Wind (G52)
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Clark County

5 E Carpenter	04	2355CST			0	0			Thunderstorm Wind (G61)
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Winds to 70 mph blew apart a machine shed, destroyed several grain bins, and blew a silo over.

Clark County

3 SE Willow Lake	05	0001CST			0	0			Thunderstorm Wind (G61)
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High winds blew a pole barn several feet across a gravel road.

Campbell County

Pollock	05	0005CST			0	0			Lightning
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Lightning struck the chimney on a bait shop shattering it down to the roof level. Parts of the cement block chimney were laying on both sides of the building. The lightning also knocked out the freezer and the aerator in the minnow tank, killing all of the minnows. The business next to the bait shop lost their stereo system and two video poker machines from the lightning strike. All businesses on the south side of main street were without telephone service.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Central and North</u>									
Brown County									
Groton	05	0020CST			0	0			Thunderstorm Wind (G64)
Winds gusting to 74 mph knocked down several trees and many tree branches throughout Groton. One tree took out a major transmission line and ripped the electrical service line off of a house. Power was out for parts of Groton for several hours. The high winds shattered the windows at a store on Main street and tore a standing board on a sign loose which damaged five new vehicles at a dealership in Groton. The high winds also destroyed a small service building and the surrounding fence at a main juncture of natural gas pipelines at Groton.									
Codington County									
Henry	05	0030CST			0	0			Thunderstorm Wind (G61)
Winds to 70 mph brought several trees and many large tree branches down in Henry.									
Hamlin County									
Hazel	05	0030CST			0	0			Thunderstorm Wind (G70)
Winds gusting to 80 mph snapped off several trees, blew a garage down, and brought power lines down in Hazel.									
Day County									
Webster	05	0035CST			0	0			Thunderstorm Wind (G52)
Codington County									
Grover	05	0040CST			0	0			Thunderstorm Wind (G61)
Seventy mph winds brought down a large pine tree in Grover.									
Codington County									
Watertown	05	0045CST			0	0			Thunderstorm Wind (G61)
Winds gusting to over 70 mph in Watertown blew a portion of the roof off of a house and destroyed the attached garage on another house. Near Watertown, a pole barn was destroyed, a hay bale was blown into a basement window of a house and part of their deck was torn away. The high winds also downed many tree branches in town.									
Codington County									
Florence	05	0048CST			0	0			Thunderstorm Wind (G70)
Near Florence, winds to 80 mph tipped over and damaged a small shed, destroyed another storage shed, and also completely demolished a three stall garage. Also near Florence, a large barn was blown down.									
Roberts County									
Summit	05	0053CST			0	0			Thunderstorm Wind (G52)
Deuel County									
Clear Lake	05	0100CST			0	0			Thunderstorm Wind (G61)
Winds gusting to 70 mph blew a large tree down across a road near Clear Lake.									
Marshall County									
4 SE Lake City	05	0100CST			0	0			Thunderstorm Wind (G61)
At a farm near Clear Lake, winds gusting to 70 mph blew in some windows on the house, damaged the barn, and blew down a big cottonwood tree.									
Marshall County									
1 E Veblen	05	0105CST			0	0			Thunderstorm Wind (G61)
At a farm east of Veblen, a big machine shed was lifted up and then sat down in a tree belt 60 feet away. A large tree was also uprooted by the high winds.									
Roberts County									
Sisseton	05	0105CST			0	0			Thunderstorm Wind (G53)
Roberts County									
Wilmot	05	0110CST			0	0			Thunderstorm Wind (G61)
High winds caused a lot of tree damage and brought down a tree in Wilmot.									
Roberts County									
6 NE Wilmot	05	0115CST			0	0			Thunderstorm Wind (G70)
Winds gusting to 80 mph destroyed a garage and a camper on a farm near Big Stone Lake. The high winds also toppled several trees.									
Codington County									
Watertown	05	1950CST			0	0			Hail (1.75)
Buffalo County									
Gann Vly	05	2107CST			0	0			Thunderstorm Wind (G61)
Winds gusting to 70 mph caused a lot of tree damage in GannValley.									
Hamlin County									
Hazel	05	2114CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
SOUTH DAKOTA, Central and North									
Corson County									
2 SW Bullhead	06	0130CST 0330CST			0	0			Flash Flood
Heavy rains of 2 to 4 inches caused flash flooding on a creek feeding into the Grand River. At a ranch southwest of Bullhead, a wall of water coming down the creek had moved the bunkhouse off of its foundation crushing part of it. All of the contents in the bunkhouse were destroyed. The machine shop was washed away along with several pieces of equipment and many tools. Some tools and equipment were found more than a mile down the creek. The pumphouse and grain bin were destroyed. A pickup was also washed down the creek and a propane tank near the house was rolled over. A colt was picked up by the water but managed to escape. The powerful flow of water took out several dead trees and washed them downstream. Finally, a road and a culvert were washed out by the flash flood.									
Lyman County									
5 SW Presho	07	1810CST			0	0			Hail (1.00)
Lyman County									
2 N Iona	07	1905CST			0	0			Hail (1.50)
Lyman County									
13 S Reliance	07	1940CST			0	0			Hail (1.00)
Codington County									
Watertown	07	2145CST			0	0			Hail (1.75)
Dewey County									
2 N Isabel	07	2335CST			0	0			Hail (1.00)
Dewey County									
7 S Isabel	08	0008CST			0	0			Hail (1.00)
Walworth County									
Mobridge	08	0100CST			0	0			Thunderstorm Wind (G56)
Campbell County									
Pollock	08	0115CST			0	0			Hail (0.88)
Campbell County									
Mound City	08	0120CST			0	0			Thunderstorm Wind (G61)
Winds gusting to 70 mph in Mound City blew a large tree down and into a trailer home wall. Another fallen branch damaged a Mound City home when it broke through the corner of the dwelling. Mound City was without power for 6 to 7 hours as a result of the storm.									
Corson County									
15 S Mc Intosh to 13 S Mc Intosh	08	1850CST 1940CST	2	20	0	0			Tornado (F0)
A nearly stationary tornado south of McIntosh stayed on the ground for almost an hour. The tornado damaged a few trees and brought down some power lines and poles. The path length and width were estimated.									
Clark County									
3 S Clark	08	2230CST			0	0			Hail (1.75)
Clark County									
Clark to 1 N Clark	08	2240CST 2245CST			0	0			Thunderstorm Wind (G61)
Winds gusting to 70 mph blew a large tree branch down onto a car in Clark causing extensive damage. The high winds also split 6 trees just to the north of Clark.									
Hamlin County									
Castlewood	08	2300CST			0	0			Hail (1.00)
Brown County									
Ferney	08	2330CST			0	0			Hail (0.75)
Codington County									
.5 SE Waverly	09	0005CST			0	0			Hail (1.00)
Deuel County									
Tunerville	09	0015CST			0	0			Hail (1.50)
Mepherston									
10 SW Leola	13	1355CST			0	0			Hail (0.75)
Edmunds County									
20 E Hosmer	13	1405CST			0	0			Hail (0.75)
Brown County									
1 W Warner	22	1840CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Central and North</u>									
Brown County									
5 S Aberdeen	22	1845CST			0	0			Hail (0.75)
<u>SOUTH DAKOTA, Southeast</u>									
Gregory County									
Gregory	04	0025CST			0	0			Hail (1.00)
Gregory County									
5 W Lucas	04	0045CST			0	0			Hail (0.88)
Charles Mix									
1 W Lake Andes	04	0130CST			0	0			Hail (0.75)
Gregory County									
Bonesteel	04	0200CST			0	0			Hail (0.75)
Charles Mix									
1 W Lake Andes	04	0220CST			0	0			Hail (0.75)
Charles Mix									
2 NE Dante	04	0245CST			0	0			Hail (1.50)
Bon Homme									
2 N Avon	04	0250CST			0	0			Hail (0.88)
Bon Homme									
4 E Avon	04	0310CST			0	0			Hail (0.75)
Bon Homme									
2 NW Tabor	04	0335CST			0	0			Hail (0.75)
Yankton County									
1 N Yankton	04	0355CST			0	0			Hail (0.75)
Brule County									
15 SW Kimball	04	2215CST 2216CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Brule County									
15 SW Kimball	04	2215CST 2216CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Sanborn County									
7 S Woonsocket to 3 NE Forestburg	04	2310CST 2328CST	10	400	0	0	200K		Tornado (F1)
A tornado caused severe damage to one home, lighter damage to several other homes, uprooted or severely damaged many large trees, and damaged vehicles, power lines, and small structures; all in Forestburg. The tornado caused little reported damage outside of Forestburg along its 10 mile path.									
Kingsbury County									
De Smet	04	2330CST			0	0	2K		Lightning
A lightning strike broke windows in two homes and a church, and stripped bark from a tree.									
Brookings County									
3 W Volga	05	0125CST			0	0			Hail (1.00)
Union County									
1 SW Jefferson to 1.5 S Richland	05	1549CST 1605CST			0	0	300K	100K	Hail (2.75)
Large hail broke many windows and damaged vehicles and homes, mainly in Jefferson. The hail also caused crop damage over a large area from near Jefferson to near Richland.									
Union County									
North Sioux City	05	1550CST			0	0			Thunderstorm Wind (G50)
Yankton County									
5 W Yankton	05	1700CST			0	0			Hail (0.75)
Yankton County									
4 NW Yankton	05	1710CST			0	0			Hail (0.75)
Union County									
Elk Pt	05	1735CST 1900CST			0	0			Flood
Heavy rain caused street flooding.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Southeast									
Union County									
Junction City	05	1735CST 1900CST			0	0			Flood
Heavy rain caused flooding of low areas including Highway 50 and other streets.									
Turner County									
7 SW Marion	05	1745CST			0	0	100K		Hail (2.25)
Large hail broke windows, damaged farm structures and siding on homes, and caused an unknown amount of crop damage.									
Turner County									
8 W Monroe	05	1750CST			0	0			Hail (1.50)
Mccook County									
Montrose	05	1806CST			0	0			Thunderstorm Wind (G52)
Mccook County									
5 SE Salem	05	1810CST			0	0	10K		Hail (1.50)
Large hail broke windows in farm buildings and dented vehicles.									
Mccook County									
5 SE Salem	05	1810CST			0	0	5K		Thunderstorm Wind (G52)
Thunderstorm winds blew the roof off a farm structure.									
Mccook County									
Canistota	05	1815CST			0	0	100K		Hail (1.75)
Large hail broke many windows and dented vehicles. The hail also caused crop damage, but the amount of damage was not determined.									
Mccook County									
Canistota	05	1815CST			0	0	50K		Thunderstorm Wind (G61)
Thunderstorm winds blew a fertilizer wagon into a car, blew over a propane tank, and caused tree damage.									
Lake County									
8 SW Madison	05	1823CST 1834CST			0	0			Hail (1.25)
Lake County									
Junius	05	1825CST			0	0			Hail (2.75)
Lake County									
12 NW Junius	05	1842CST			0	0			Hail (1.50)
Kingsbury County									
Oldham	05	1850CST			0	0			Hail (0.75)
Gregory County									
11 S Burke	05	2025CST			0	0			Hail (0.88)
Beadle County									
4 N Wolsey	05	2114CST			0	0			Hail (0.75)
Jerauld County									
18 NW Wessington Spgs	05	2125CST			0	0			Hail (0.75)
Beadle County									
10 SW Wolsey	05	2146CST			0	0			Hail (0.75)
Beadle County									
10 SW Wolsey	05	2146CST			0	0			Thunderstorm Wind (G52)
Mccook County									
2 E Salem	05	2302CST			0	0			Hail (2.50)
Gregory County									
6 N Dixon	07	1822CST			0	0			Hail (1.50)
Charles Mix									
8 W Academy	07	1908CST			0	0			Hail (0.75)
Charles Mix									
Academy	07	1923CST			0	0			Hail (1.75)
Large hail caused an unknown amount of crop damage.									
Brule County									
8 SW Chamberlain	07	1920CST			0	0			Hail (1.00)
Brule County									
4 E Bijou Hills	07	1934CST 1935CST	0.1	50	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Southeast									
A brief tornado caused no reported damage.									
Brule County 3 SW Kimball	07	2013CST			0	0			Hail (1.75)
Large hail caused crop damage. The amount of damage was not determined.									
Aurora County 2 S Stickney	07	2022CST 2024CST	0.1	50	0	0			Tornado (F0)
Aurora County 2.5 S Stickney	07	2023CST 2025CST	0.1	50	0	0			Tornado (F0)
Two brief tornadoes observed by a spotter caused no reported damage.									
Beadle County 10 S Cavour	07	2025CST			0	0			Hail (1.00)
Kingsbury County Iroquois	07	2030CST			0	0			Hail (1.75)
Davison County 8 S Mt Vernon	07	2030CST 2032CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no damage.									
Davison County Mitchell	07	2100CST			0	0			Hail (0.88)
Davison County Mitchell	07	2100CST			0	0			Thunderstorm Wind (G52)
Hanson County 2 S Alexandria	07	2115CST			0	0	30K		Thunderstorm Wind (G61)
Thunderstorm winds knocked over a cattle shed, moved a grain bin off its foundation, and caused tree damage.									
Mccook County 10 E Spencer	07	2135CST			0	0	50K		Thunderstorm Wind (G61)
Thunderstorm winds blew down trees and snapped power poles.									
Mccook County 10 N Bridgewater	07	2135CST 2136CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Lake County Madison	07	2215CST			0	0	5K		Thunderstorm Wind (G52)
Thunderstorm winds tore a metal roof off a grain elevator.									
Turner County Marion	07	2215CST			0	0	5K		Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including some trees which were blown over.									
Hanson County Emery	07	2225CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds caused tree damage.									
Minnehaha 13 NW Sioux Falls	07	2231CST			0	0			Thunderstorm Wind (G52)
Minnehaha 12 NW Sioux Falls	07	2235CST			0	0	5K		Thunderstorm Wind (G57)
Thunderstorm winds caused tree damage.									
Minnehaha Sioux Falls	07	2250CST			0	0	20K		Hail (1.75)
Large hail dented 18 vehicles at the Army National Guard station, and broke windows in several of the vehicles.									
Minnehaha Sioux Falls	07	2250CST			0	0	100K		Thunderstorm Wind (G52)
Thunderstorm winds blew down concrete walls of a store under construction, and caused tree damage.									
Minnehaha Brandon	07	2308CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds blew down power lines and caused tree damage.									
Mccook County 4 NW Unityville	08	0110CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Southeast									
Miner County									
8 SE Howard	08	0115CST			0	0			Hail (0.75)
Lake County									
2 S Winfred	08	0122CST			0	0			Hail (0.75)
Lake County									
Madison	08	0155CST			0	0			Hail (0.75)
Lake County									
Madison	08	0155CST			0	0	2K		Thunderstorm Wind (G52)
									Thunderstorm winds loosened a tin roof at a seed company and caused tree damage.
Turner County									
Parker	08	1913CST			0	0			Hail (1.00)
Turner County									
12 SE Parker	08	1927CST			0	0			Hail (1.75)
Brookings County									
7 N Elkton	09	0045CST			0	0	10K		Thunderstorm Wind (G61)
									Thunderstorm winds caused tree damage, including 10 inch diameter branches blown down; and tore shingles off roofs.
Gregory County									
4 NE Dixon	22	1615CST			0	0			Hail (1.00)
Gregory County									
2 E Dixon	22	1630CST			0	0			Hail (1.75)
Gregory County									
1 E Dixon	22	1645CST			0	0			Hail (1.25)
Gregory County									
3 SE Dixon	22	1655CST			0	0			Hail (0.75)
Gregory County									
3 N Dallas	22	1715CST			0	0			Thunderstorm Wind (G52)
Gregory County									
2 N Dallas to 3 NE Dallas	22	1715CST 1720CST	1	100	0	0			Tornado (F0)
									A tornado caused no reported damage. The tornado was photographed by a resident.
Gregory County									
Dallas to Burke	22	1735CST 1750CST			0	0			Hail (1.50)
									Large hail caused property and crop damage, including widespread shingle damage in Burke. The amount of damage was not determined.
Gregory County									
6 NE Dixon	22	1740CST			0	0			Hail (1.75)
Charles Mix									
11 W Platte	22	1810CST			0	0			Hail (0.75)
Gregory County									
2 E Dixon	22	1828CST			0	0			Hail (1.00)
Gregory County									
13 S Gregory	22	1830CST			0	0			Hail (0.75)
Charles Mix									
Geddes	22	1903CST			0	0			Hail (0.75)
Gregory County									
Bonesteel	22	1915CST			0	0			Hail (0.75)
Clay County									
Vermillion	27	0325CST			0	0	5K		Thunderstorm Wind (G61)
									Thunderstorm winds caused tree damage, including several large limbs down.
Clay County									
5 S Meckling	27	0335CST			0	0	5K		Thunderstorm Wind (G52)
									Thunderstorm winds blew down large tree limbs.
Clay County									
Vermillion	27	0400CST			0	0	50K		Thunderstorm Wind (G61)
									Thunderstorm winds caused extensive tree damage and minor damage to structures near the University of South Dakota campus.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Pennington									
2 SW Keystone	02	1950MST			0	0			Hail (1.00)
Meade County									
Ellsworth Afb	02	2053MST			0	0			Thunderstorm Wind (G59)
Todd County									
8 S Olsonville	04	0010MST			0	0			Hail (0.75)
Fall River County									
13 S Oelrichs	04	1656MST			0	0			Thunderstorm Wind (G61)
Fall River County									
Edgemont	04	1705MST			0	0	5K		Thunderstorm Wind
									Strong winds from thunderstorms blew over several trees and fences in the community.
Shannon County									
10 W Oglala	04	1730MST			0	0			Hail (1.75)
Shannon County									
1 E Slim Butte	04	1730MST			0	0			Hail (2.50)
Shannon County									
3 SSW Slim Butte to 3 NE Oglala	04	1730MST	15	875	1	54	3.2M		Tornado (F2)
									This was the first of two tornadoes that swept through the town of Oglala. Spotters and law enforcement reported that the tornado went up and down several times. It remained on the ground just prior to hitting Oglala and then dissipated as it moved to the northeast. There was one fatality with 54 people receiving medical care for injuries. A church and three of its surrounding buildings were destroyed, 22 mobile homes destroyed, 30 to 50 buildings damaged and a lot of hail damage to roofs and vehicles. M54MH
Shannon County									
2 W Oglala	04	1735MST			0	0			Hail (4.00)
Shannon County									
2 SW Oglala to 2 NE Oglala	04	1740MST 1755MST	4	400	0	0			Tornado (F2)
									This is the second tornado that formed just southwest of Oglala and then moved through the town. It was smaller than the first tornado and produced its damage about a half mile east of the first tornado.
Shannon County									
Oglala	04	1745MST			0	0			Hail (1.75)
Shannon County									
3 N Pine Ridge	04	1810MST	1	50	0	0	20K		Tornado (F0)
									A mobile home was destroyed by the tornado. Otherwise it remained in rural areas and was short lived. Path width and length estimated from law enforcement reports.
Shannon County									
7 NE Oglala	04	1820MST			0	0			Hail (1.75)
Shannon County									
5 SW Kyle	04	1830MST			0	0			Hail (1.75)
Shannon County									
5 SW Kyle to 4 SE Kyle	04	1830MST 1900MST	9	75	0	0	50K		Tornado (F0)
									Three mobile homes destroyed. This tornado moved into Jackson County before dissipating. Path width and length estimated from law enforcement report.
Bennett County									
5 S Martin	04	1845MST	0.5	10	0	0			Tornado (F0)
									Weak tornado that touched down briefly. Path width and length estimated from reports.
Jackson County									
10 SW Potato Creek to 5 S Potato Creek	04	1900MST 1915MST	5	75	0	0			Tornado (F0)
									This tornado originated in Shannon County 5 miles southwest of Kyle. Path width and length estimated from law enforcement report.
Jackson County									
Kadoka	04	1935MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Tripp County									
Winner	04	2008MST			0	0	5K		Thunderstorm Wind
Wind damage from a thunderstorm. A convenience store roof was damaged, power lines were down and several large trees were blown over.									
Ziebach County									
13 W Cherry Creek	04	2014MST			0	0			Thunderstorm Wind (G57)
Bennett County									
Martin	05	1535MST			0	0			Hail (0.88)
Bennett County									
6 S Martin	05	1625MST	0.5	10	0	0			Tornado (F0)
Brief touchdown. Path width and length estimated.									
Bennett County									
2 W Swett to 3 SW Allen	05	1710MST 1720MST	5	550	0	0			Tornado (F0)
Width and path length reported by a local resident.									
Bennett County									
2 SW Allen to 2 NW Allen	05	1725MST 1735MST	3	100	0	0			Tornado (F0)
Width and path length reported by a local resident.									
Shannon County									
8 SW Kyle	05	1730MST	0.5	10	0	0			Tornado (F0)
Brief touchdown. Path width and length estimated.									
Pennington									
Keystone	05	1738MST			0	0			Hail (1.00)
Shannon County									
10 W Kyle	05	1810MST			0	0			Hail (1.25)
Shannon County									
12 SW Kyle	05	1810MST 1815MST			0	0			Hail (1.25)
Pennington									
Rapid City	05	1819MST			0	0			Thunderstorm Wind (G56)
Meade County									
3 SE Piedmont	05	1827MST			0	0			Thunderstorm Wind (G52)
Jackson County									
Interior	05	1855MST			0	0			Hail (0.75)
Haakon County									
Philip	05	1900MST			0	0			Hail (1.00)
Tripp County									
1 N Clearfield	05	1935MST	0.1	10	0	0	0		Tornado (F0)
Brief touchdown. Path width and length estimated.									
Ziebach County									
10 SW Red Scaffold	05	2030MST			0	0			Thunderstorm Wind (G61)
Estimated 70 mph wind gust. A mobile home roof was damaged by the strong wind gust.									
Haakon County									
South Portion	05 06	2100MST 0700MST			0	0			Flood
3.99 Inches of rain at the Philip airport in less than 2 hours. Several buildings at the airport had flooding problems. Sheriff reported numerous roads were closed because they were under water.									
Jackson County									
North Portion	05 06	2200MST 1100MST			0	0			Flood
Several county roads were under water for several hours after heavy rainfall fell in the region. No major damage was reported other than washouts along the gravel roads.									
Tripp County									
Ideal	07	1655MST			0	0			Hail (0.75)
Tripp County									
Ideal	07	1707MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Tripp County									
Ideal	07	1744MST 1750MST			0	0			Hail (1.75)
Custer County									
Pringle	07	1812MST			0	0			Hail (1.75)
Tripp County									
Colome	07	1840MST			0	0			Hail (1.00)
Lawrence County									
Lead	07	2012MST			0	0			Hail (2.00)
		15,000 flowering plants were destroyed in downtown Lead. A restaurant had one corner of its roof damaged.							
Lawrence County									
Deadwood	07	2015MST			0	0			Hail (1.50)
Meade County									
Sturgis to 2 NE Sturgis	07	2034MST 2041MST			0	0			Hail (2.75)
Meade County									
Red Owl to Faith	07	2145MST 2200MST			0	0			Hail (0.75)
Ziebach County									
13 E Glad Vly	07	2210MST			0	0			Hail (1.75)
Harding County									
Redig	08	1609MST			0	0			Hail (2.00)
Harding County									
7 E Redig	08	1620MST			0	0			Hail (0.88)
Harding County									
28 E Redig	08	1645MST			0	0			Hail (1.00)
Harding County									
12 S Reva	08	1700MST			0	0			Hail (1.00)
Meade County									
Union Center	08	2327MST			0	0			Hail (1.00)
Butte County									
22 NW Belle Fourche	09	0000MST			0	0			Hail (2.00)
Lawrence County									
Lead	09	0003MST			0	0			Hail (1.00)
Pennington									
2 SW Keystone	12	1540MST			0	0			Hail (0.88)
Custer County									
10 E Custer	12	1606MST			0	0			Hail (1.75)
Custer County									
1 W Hermosa	12	1620MST			0	0			Hail (1.00)
Shannon County									
5 N Kyle	12	1825MST			0	0			Thunderstorm Wind (G52)
Fall River County									
11 W Hot Spgs	12	1838MST			0	0			Hail (1.75)
Bennett County									
Martin	12	1943MST			0	0			Hail (1.00)
Pennington									
1 W Rapid City Arpt to 7 E Rapid City Arpt	15	1340MST 1350MST			0	0			Funnel Cloud
Custer County									
Countywide	18	1445MST 2300MST			0	0			Flood
		Heavy rainfall flooded rural roads along with Highways 385 and 79, which had 3-4 feet of water over them.							
Harding County									
Camp Crook	18	1450MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Pennington									
15 SW Rapid City	18	1530MST			0	0			Hail (1.00)
Custer County									
East Portion	19	0030MST 0400MST			0	0			Flood
Flooding which originated upstream in Pennington County between Keystone and Hill City shifted downstream along Battle Creek. The flood stage at Hermosa is 8 feet and the river crested at 10.41 feet at 0230 MST.									
Butte County									
Belle Fourche	19	2140MST			0	0			Thunderstorm Wind (G54)
Meade County									
13 NE Tilford to 13 NNE Tilford	20	1700MST			0	0			Hail (0.75)
Harding County									
21 NNW Buffalo to 25 N Buffalo	20	2114MST			0	0	4K		Thunderstorm Wind
Power company reported 4 power poles blown over.									
Harding County									
2 NW Ladner	20	2138MST			0	0			Hail (1.75)
Harding County									
1 SE Ladner	20	2145MST 2205MST			0	0			Hail (0.88)
Harding County									
1 SE Ladner	20	2145MST 2205MST			0	0			Thunderstorm Wind (G61)
Harding County									
2 E Ladner	20	2149MST 2200MST			0	0			Hail (1.00)
Harding County									
2 E Ladner to 2 SE Ladner	20	2149MST 2200MST	2	400	0	0	15K		Tornado (F1)
Tornado moved across a ranch. 15 sheep were killed when they were picked up and thrown through a barbed wire fence into a pond. Cattle stockades were destroyed and a grain bin anchored in concrete was picked up and thrown several yards. Storm path and width were provided by a local pilot who flew over the area the following morning.									
Harding County									
2 E Ladner	20	2149MST			0	0			Thunderstorm Wind (G91)
Measured wind speed.									
Meade County									
2 N Sturgis to 1 N Sturgis	21	1340MST			0	0			Hail (0.88)
Meade County									
2 N Piedmont	22	1220MST			0	0			Hail (1.00)
Pennington									
2 NW Rochford	22	1235MST			0	0			Hail (0.75)
Pennington									
2 ENE Silver City	22	1258MST			0	0			Hail (0.88)
Meade County									
Ellsworth Afb	22	1345MST			0	0			Hail (0.75)
Pennington									
Deerfield	22	1410MST			0	0			Hail (1.00)
Pennington									
15 WSW Rapid City	22	1440MST			0	0			Hail (0.88)
Perkins County									
Lemmon	25	1828MST			0	0			Hail (0.75)
Fall River County									
Ardmore	27	1530MST			0	0			Hail (0.75)
Lawrence County									
9 SW Spearfish	27	1709MST			0	0			Thunderstorm Wind (G70)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Lawrence County									
8 WNW Spearfish	27	1717MST			0	0			Hail (1.25)
Butte County									
5 S Belle Fourche	27	1718MST 1730MST			0	0			Hail (0.75)
Lawrence County									
Lead	27	1724MST			0	0			Hail (0.75)
Lawrence County									
Spearfish Arpt	27	1724MST			0	0			Thunderstorm Wind (G54)
Lawrence County									
6 E Spearfish to 8 E Spearfish	27	1730MST	2	50	0	0			Tornado (F1)
									The tornado knocked several trees into a home, destroyed a chicken coop and damaged a rental car which had a tree fall on it. Numerous trees around the property were also blown down.
Meade County									
Sturgis	27	1732MST			0	0			Hail (0.88)
Meade County									
4 SE Sturgis	27	1750MST			0	0			Hail (1.75)
Meade County									
13 E Sturgis	27	1810MST			0	0			Hail (2.75)
Meade County									
1 N Hereford	27	1830MST 1840MST			0	0			Hail (0.75)
Meade County									
3 SE Elm Spgs	27	1855MST			0	0			Hail (0.75)
Custer County									
3 W Buffalo Gap	27	1930MST			0	0			Hail (1.75)
Custer County									
Wind Cave	27	1930MST			0	0			Hail (1.00)
Custer County									
Fairburn to Hermosa	29	1250MST 1350MST			0	0			Flash Flood
									Water along French and Grace Coolidge Creeks rose rapidly after 3 to 4 inches of rain in less than an hour. Some vehicles in the Hermosa area had water up to the doors because local drainage systems could not keep up with the water.
Todd County									
7 S St Francis	29	1412MST 1415MST	0.1	10	0	0			Tornado (F0)
									Rain wrapped tornado that was short lived.
Todd County									
10 W St Francis	29	1418MST 1422MST			0	0			Funnel Cloud
									Two funnel clouds spotted at the same time by two separate observers.
Todd County									
8 W St Francis	29	1422MST			0	0			Hail (0.75)
Todd County									
8 W St Francis to 6 W St Francis	29	1422MST	2.5	30	0	0			Tornado (F0)
									Spotters reported a rope type tornado that stayed in open country.
Todd County									
7 W Mission	29	1427MST			0	0			Funnel Cloud
									Funnel cloud lasted about five minutes.
Lawrence County									
Spearfish	30	1325MST			0	0			Hail (0.75)
Mellette County									
White River	30	2300MST 2310MST			0	0			Hail (1.25)
Meade County									
Union Center	30	2320MST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Meade County									
Red Owl	30	2330MST			0	0			Hail (1.00)
Meade County									
Red Owl	30	2330MST			0	0			Thunderstorm Wind (G65)
Winds estimated at 70 to 80 mph.									
Mellette County									
White River	30	2345MST			0	0			Hail (1.75)
<u>TENNESSEE, Central</u>									
Smith County									
Pleasant Shade	02	1305CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported a tree down on Highway 80.									
Fentress County									
5 W Jamestown	02	1345CST			0	0			Thunderstorm Wind (G50)
Highway Department reported trees down on Highway 52.									
Pickett County									
Byrdstown	02	1345CST			0	0			Thunderstorm Wind (G50)
Highway Department reported small trees down on Highway 325.									
White County									
South Portion	02	1840CST			0	0			Hail (0.75)
SKYWARN Spotter reported dime size hail.									
White County									
Cassville	02	1850CST			0	0			Hail (1.00)
SKYWARN Spotter reported hail the size of quarters.									
White County									
Doyle	02	1855CST			0	0			Hail (0.75)
SKYWARN Spotter reported dime size hail.									
Montgomery									
Clarksville	04	2130CST			0	0			Thunderstorm Wind (G50)
EMA had multiple reports of wind damage from strong thunderstorm gusts. Fires were being set by lightning.									
Montgomery									
3 NE Clarksville	04	2157CST			0	0			Thunderstorm Wind (G52)
Ham radio operator reported 60 mph wind gust at I-24 and U.S. HWY 79.									
Montgomery									
Clarksville	04	2210CST			0	0			Thunderstorm Wind (G50)
Widespread trees and power lines were down.									
Montgomery									
5 S Cunningham	04	2223CST			0	0			Thunderstorm Wind (G52)
60 mph wind gust estimated by SKYWARN Spotter.									
Robertson County									
Adams	04	2235CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were down.									
Dickson County									
Cumberland Furnace	04	2238CST			0	0			Thunderstorm Wind (G50)
Trees and power lines were down.									
Benton County									
Camden	04	2240CST			0	0			Thunderstorm Wind (G50)
Multiple power lines were down. One tree fell on a home.									
Houston County									
Erin	04	2240CST			0	0			Thunderstorm Wind (G50)
Several small trees were down.									
Cheatham County									
Kingston Spgs	04	2252CST			0	0			Thunderstorm Wind (G52)
Ham radio operator reported a 60 mph wind gust.									
Sumner County									
1 S Gallatin	04	2252CST			0	0			Thunderstorm Wind (G51)
Ham radio operator reported a 59 mph wind gust.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Humphreys									
Waverly	04	2255CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported several trees and power lines were down.						
Wilson County									
Mt Juliet	04	2314CST			0	0			Thunderstorm Wind (G50)
			Several 18 inch diameter trees down and power lines down.						
Wilson County									
West Central Portion	04	2330CST			0	0			Thunderstorm Wind (G50)
			A few power lines down in the Old Hickory section of Wilson county.						
Hickman County									
Countywide	04	2335CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported power lines down around the county.						
Rutherford									
Smyrna	04	2337CST			0	0			Thunderstorm Wind (G50)
			Off duty NWS employee reported 35 foot tree was blown down.						
Rutherford									
Smyrna	04	2350CST			0	0			Thunderstorm Wind (G50)
			Ham operator reported 9 inch diameter tree was snapped.						
Maury County									
Columbia	04	2352CST			0	0			Thunderstorm Wind (G50)
			EMA reported several trees were down.						
Rutherford									
Murfreesboro	04	2358CST			0	0			Thunderstorm Wind (G50)
			Ham radio operator reported several trees and power lines were down.						
Cannon County									
Woodbury	05	0010CST			0	0			Thunderstorm Wind (G50)
			Several power lines were down.						
Dekalb County									
Smithville	05	0035CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported several trees were down.						
Decatur County									
Central Portion	05	0037CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported several trees down between Decaturville and Parsons.						
White County									
Sparta	05	0040CST			0	0			Thunderstorm Wind (G50)
			Several power lines were down.						
Lawrence County									
Lawrenceburg	05	0045CST			0	0			Thunderstorm Wind (G50)
			Several power lines were down.						
Wayne County									
2 NE Clifton Hassell Arpt	05	0047CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported trees were blown down on Hwy 128 northeast of Clifton.						
Giles County									
Pulaski	05	0053CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported several trees down.						
Moore County									
Lynchburg	05	0100CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported power lines down.						
Lincoln County									
Cash Pt	05	0113CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported a tree down on Highway 110 between Cash Point and Taft.						
Marshall County									
Lewisburg	04	2310CST			0	0	20K		Lightning
			Lightning struck a tree. The tree fell on 3 vehicles, a 1999 Dodge Caravan, 1989 Plymouth Reliant, and a 1979 Chrysler Le Baron.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Williamson									
Franklin	10	1459CST			0	0	1K		Lightning
			Lightning struck a gable to a home at Fieldstone Farms.						
Davidson County									
Brentwood	10	1518CST			0	0			Thunderstorm Wind (G50)
			EMA reported trees blown down.						
Williamson									
Franklin	10	1530CST			0	0			Thunderstorm Wind (G50)
			EMA reported trees blown down.						
Williamson									
Franklin	10	1600CST 1730CST			0	0			Flash Flood
			Newspaper account of water getting into the basement of the Williamson County Courthouse. The water was 3 inches deep.						
Franklin County									
Winchester	10	1615CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported numerous trees were blown down.						
Bedford County									
Shelbyville	10	1655CST			0	0			Thunderstorm Wind (G50)
			An uprooted tree took down utility lines on Perfection Drive.						
Cannon County									
Countywide	10	1655CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported a few tree limbs down on roads.						
Williamson									
Franklin	10	1700CST			0	0	30K		Lightning
			Lightning struck a substation on Eddy Lane. The lightning damaged a breaker, insulators, and lightning arrestors. 8000 customers were without power.						
Wayne County									
Collinwood	10	1905CST			0	0			Hail (1.75)
			Sheriff's office reported golf ball size hail.						
Bedford County									
Shelbyville	24	1721CST			0	0			Funnel Cloud
			Funnel clouds spotted on Gant Road by volunteer firefighters and NWS Doppler Radar.						
Bedford County									
7.3 ESE Shelbyville	24	1740CST			0	0			Thunderstorm Wind (G50)
			Newspaper article about a tree down on Three Forks Bridge Road.						
Franklin County									
Winchester	24	1935CST			0	0			Funnel Cloud
			SKYWARN Spotter reported a funnel cloud on Hwy 130 north between Winchester and Tullahoma.						
Wayne County									
Waynesboro	27 28	2330CST 0245CST			0	0			Urban/Sml Stream Fld
			Sheriff reported street flooding in town.						
Wayne County									
Waynesboro	28	0000CST 0245CST			0	0			Flash Flood
			Sheriff's office reported 2 bridges washed out on Simmons Branch Rd. The Stone Brook Lodge on Hwy 64 was destroyed and also numerous trailers damaged.						
Cannon County									
Countywide	28	0650CST 0945CST			0	0			Flash Flood
			Sheriff's office reported standing water on Hwy 146, Hwy 53 at Midway, Red Hill Road, and Pettygap Rd.						
Coffee County									
Tullahoma	28	0652CST 0945CST			0	0			Flash Flood
			Roads were flooded.						

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TENNESSEE, Central</u>									
Franklin County 4 NW Estill Spgs	28	0930CST 1200CST			0	0			Flash Flood
		Cook Road was flooded.							
Franklin County Decherd	28	1000CST 1200CST			0	0			Flash Flood
		There was standing water on Blue Creek Road and Old Decherd Estill Road.							
Franklin County 5 W Winchester	28	1045CST 1200CST			0	0			Flash Flood
		Standing water on Hwy 50. Report was by local newspaper.							
Montgomery 11 NE Clarksville	28	1345CST			0	0			Thunderstorm Wind (G50)
		Highway Department reported 2 trees down on Dunlap Road.							
Robertson County Springfield	28	1345CST			0	0			Thunderstorm Wind (G50)
		2 small trees were blown down in a yard on Hwy 49 west, just southwest of Springfield.							
Wilson County Mt Juliet	28	1545CST 1745CST			0	0			Flash Flood
		Highway Department reported flooding on Sunnymead Road which is in the Belinda City area of Mt. Juliet.							
Davidson County Nashville	28	1641CST 1745CST			0	0			Flash Flood
		EMA office reported flooding at several major intersections such as Union & Larksbury, Myatt Drive & Gallatin Pike, and Dickerson Pike & Alhambra.							
Wilson County Lebanon	28	1830CST 2030CST			0	0			Flash Flood
		Sheriff's office reported 2.5 feet of water over Bluebird Road in northern Wilson county. 2 occupants of a vehicle had to be rescued.							
<u>TENNESSEE, East</u>									
Jefferson County 1 NE New Market	02	1115EST			0	0			Hail (0.75)
		Hail covered the ground.							
Hamblen County 1 N Morristown	02	1125EST			0	0	3K		Thunderstorm Wind
		Trees down on Sussex Lane in Seven Oaks subdivision.							
Jefferson County Jefferson City	02	1127EST			0	0	10K		Thunderstorm Wind
		Trees and power lines down on and along Highway 92 in Jefferson City.							
Morgan County Sunbright	02	1550EST			0	0			Hail (0.75)
Morgan County Deer Lodge	02	1555EST			0	0			Hail (0.75)
Morgan County Wartburg	02	1639EST			0	0	6K		Thunderstorm Wind
		Trees down.							
Anderson County Clinton	02	1705EST			0	0			Hail (1.00)
Anderson County Countywide	02	1705EST			0	0	20K		Thunderstorm Wind
		Trees and power lines down. 2000 customers lost power. Power was restored about an hour later.							
Knox County Countywide	02	1715EST			0	0	20K		Thunderstorm Wind
		Trees down throughout the county.							
Roane County Kingston	02	1720EST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Roane County									
Kingston	02	1720EST			0	0			Thunderstorm Wind (G52)
			Trees and power lines down.						
Grainger County									
Buffalo Spgs	02	1742EST			0	0			Thunderstorm Wind (G58)
Jefferson County									
New Market to Jefferson City	02	1800EST			0	0	18K		Thunderstorm Wind
			Trees down.						
Hawkins County									
Church Hill	02	1810EST			0	0	15K		Thunderstorm Wind
			Trees down.						
Hamblen County									
Morristown	02	1810EST			0	0	10K		Thunderstorm Wind
			Trees down.						
Sullivan County									
Bristol	02	1915EST			0	0			Hail (1.75)
Sullivan County									
Bristol	02	1915EST			0	0	15K		Thunderstorm Wind
			Trees down.						
Sullivan County									
South Holston Lake	02	2011EST			0	0	11K		Thunderstorm Wind
			Trees down.						
Polk County									
Oldfort to Old Patty	03	1420EST			0	0	25K		Thunderstorm Wind
			Trees down.						
Hamilton County									
Signal Mtn to Signal Hills	04	1240EST			0	0			Hail (0.75)
Marion County									
1 E Jasper	04	1510CST			0	0			Hail (1.75)
Hamilton County									
Lookout Mtn	04	1630EST			0	0			Hail (0.88)
Marion County									
1 S South Pittsburg	05	0115CST			0	0	19K		Thunderstorm Wind
			Trees down.						
Marion County									
Jasper	05	0145CST			0	0			Hail (0.75)
Union County									
Countywide	09	1850EST			0	0	15K		Thunderstorm Wind
			Trees down, mainly across eastern part of county.						
Washington									
Johnson City	10	1250EST			0	0			Hail (0.75)
Polk County									
Countywide	10	1350EST			0	0	25K		Thunderstorm Wind
			Trees and power lines down.						
Monroe County									
6 NE Tellico Plains	10	1355EST			0	0	10K		Thunderstorm Wind
			Trees down.						
Mcminn County									
2 SE Athens to Athens	10	1400EST			0	0	12K		Thunderstorm Wind
			Trees down on Highway 30.						
Mcminn County									
Countywide	10	1415EST			0	0	30K		Thunderstorm Wind
			Trees and power lines down. Around 2000 customers lost power. Power was restored 3 hours later.						

Storm Data and Unusual Weather Phenomena

June 1999

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

TENNESSEE, East

Mcminn County

Athens **10** **1420EST** **0** **0** **50K** **Thunderstorm Wind**
5000 square feet of a 13000 square foot furniture warehouse roof was blown off. The building housed the showroom for the business owned by Jim and Sue McQuain.

Greene County

8 E Mosheim **10** **1445EST** **0** **0** **14K** **Thunderstorm Wind**
Trees and power lines down along Flea Ridge Road.

Hamilton County

East Ridge **10** **1846EST** **0** **0** **1M** **Lightning**
Lightning ignited a 3-alarm fire, destroying the almost 50-year-old East Ridge Presbyterian Church.

Bradley County

8 SE Cleveland **26** **1700EST** **1** **0** **Lightning**
A farmer working in a wooded area clearing trees. He was struck around 5 p.m. but not found until later. M300U

Hamilton County

Chattanooga **30** **1600EST** **0** **0** **Flood**
6 to 8 inches of water in groundskeeper's office at Chattanooga Lookouts stadium. Water in several cars in stadium parking lot.

Hamilton County

Hixon **30** **1650EST** **0** **0** **Flood**
Up to 4 feet of water in low lying areas. One car and family briefly stranded in water.

TENNESSEE, West

Haywood County

Brownsville **03** **1625CST**
1630CST **0** **0** **0.10K** **Hail (1.00)**

Madison County

Spring Creek **03** **1655CST**
1700CST **0** **0** **0.01K** **Hail (0.75)**

Tipton County

Brighton **03** **1923CST**
1930CST **0** **0** **0.25K** **Hail (1.25)**

Lake County

Tiptonville **10** **1100CST**
1105CST **0** **0** **10K** **Lightning**
A building was damaged by a fire started by lightning.

Lake County

Tiptonville **10** **1100CST**
1105CST **0** **0** **5K** **Thunderstorm Wind**
Two utility poles were snapped in half.

Lake County

Tiptonville **10** **1100CST**
1230CST **0** **0** **10K** **Urban/Sml Stream Fld**
Several business were flooded after three inches of rain fell in one hour.

Henry County

Paris **10** **2140CST**
2150CST **0** **0** **15K** **Thunderstorm Wind**
A shed had its roof blown off. Several trees were knocked down.

Henry County

Paris **10** **2145CST**
2150CST **0** **1** **5K** **Lightning**
One person was injured after being struck by lightning. A transformer was also blown out by a lightning strike.

Dyer County

Dyersburg **28** **1355CST**
1400CST **0** **0** **10K** **Thunderstorm Wind**
Several trees and power lines were knocked down.

TEXAS, Central

Tom Green

11 N San Angelo **06** **0535CST** **0** **0** **Hail (0.75)**

Tom Green

San Angelo **06** **1547CST** **0** **0** **Hail (1.75)**

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Coke County									
3 S Tennyson	06	1623CST			0	0			Hail (1.75)
Tom Green									
3 S Christoval	06	1623CST			0	0			Hail (1.00)
Tom Green									
San Angelo	06	1805CST			0	0			Hail (0.75)
Tom Green									
San Angelo	06 07	1810CST 0100CST			0	0			Flash Flood
Several city intersections became impassable when high water covered roadways with up to 2 feet of water. At least 2 cars stalled in the high water.									
Nolan County									
2 S Roscoe	06	1814CST			0	0	0.60K		Thunderstorm Wind
Several telephone poles were snapped in half by winds estimated at up to 60 mph.									
Nolan County									
2 W Sweetwater	06	1816CST			0	0			Thunderstorm Wind (G61)
Winds estimated at up to 70 mph.									
Nolan County									
Sweetwater	06	1825CST			0	0	5K		Thunderstorm Wind
Damaging winds swept through the community of Sweetwater. A brick wall was toppled and a carport suffered minor damage. A radio tower was also blown over, with tree limbs snapped throughout the city.									
Fisher County									
1 W Rotan	06	1834CST	0.1	10	0	0			Tornado (F0)
A tornado briefly touched down just west of Rotan.									
Irion County									
12 NE Mertzson	06 07	2020CST 0100CST			0	0			Flash Flood
High water forced the closure of Farm Road 853 at Rocky Creek, where a low water crossing became impassable.									
Coleman County									
Coleman	07	0035CST 0200CST			0	0			Flash Flood
Several city streets reported to be flooded and impassable across the the city of Coleman. Severe thunderstorms that developed cross the Concho Valley slowly moved northward into the Big Country, producing excessive rainfall, winds up to 70 mph, and golf ball size hail. The area in and near San Angelo took the brunt of the storms, with rainfall totals of 3 to 6 inches producing extensive street flooding. Damaging winds also hit parts of Nolan County, where winds up to 70 mph produced damage south of Roscoe and in Sweetwater.									
Concho County									
8 E Millersview	09	1650CST			0	0	0.50K		Thunderstorm Wind
A barn suffered minor roof damage from high thunderstorm winds.									
Jones County									
4 S Avoca	09	1810CST			0	0			Hail (0.75)
Jones County									
4 S Avoca	09	1810CST			0	0			Thunderstorm Wind (G52)
Jones County									
5 E Anson	09	1945CST 2045CST			0	0			Flash Flood
A highway intersection east of Anson was briefly closed due to high water.									
Fisher County									
4 E Roby	09	1955CST			0	0			Hail (1.00)
Throckmorton									
Throckmorton	10	1710CST			0	0			Hail (1.75)
Haskell County									
10 N Haskell	10	1841CST	0.1	10	0	0			Tornado (F0)
A brief tornado touchdown north of Haskell.									
Haskell County									
Haskell	10	1914CST			0	0	10K		Thunderstorm Wind (G61)
Winds estimated at 70 mph blew through the town of Haskell. Most of the damage was to a local hardware store, where outside merchandise was scattered up to one half mile away. Tree limbs were also snapped throughout the community.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Mitchell County									
Westbrook	10	2025CST			0	0			Hail (2.75)
Baseball size hail fell across western Mitchell County.									
Jones County									
Anson	10	2230CST			0	0			Hail (1.00)
Callahan County									
Cross Plains	11	0105CST			0	0	0.50K		Thunderstorm Wind
A tin roof was peeled back as high winds moved across the area. Severe thunderstorms moved across the Big Country during the evening hours of the 10th. A tornado briefly touched down north of Haskell but produced no damage. Hail up to the size of baseballs was reported in Westbrook, while minor roof damage was noted in Cross Plains.									
Mitchell County									
1 N Cuthbert	11	2056CST	0.1	10	0	0			Tornado (F0)
Brief tornado touchdown.									
Mitchell County									
2 W Colorado City	11	2114CST			0	0			Hail (4.50)
Hail up to the size of softballs was reported just west of Colorado City.									
Mitchell County									
Colorado City	11	2120CST			0	0			Hail (2.75)
Hail up to the size of baseballs broke windows and dented vehicles throughout the community. Damage was extensive and widespread, with losses reported at nearly one-half million dollars.									
Fisher County									
3 W Rotan	11	2137CST	0.1	10	0	0			Tornado (F0)
Brief tornado touchdown.									
Fisher County									
Rotan	11	2154CST			0	0	250K		Thunderstorm Wind
An apparent downburst tore through the community of Rotan, severely damaging several businesses. One automotive garage was completely destroyed when its sheet metal roof and walls were blown away by the high winds. Several other buildings along Main Street lost part or all of their roofs, with the debris damaging other buildings downwind. Two schools suffered roof damage, allowing rain water to leak into the classrooms. In addition, trees and fences throughout the town were knocked down, and many houses suffered broken windows.									
Nolan County									
Champion	11	2202CST			0	0			Hail (1.75)
Coke County									
Blackwell	11	2335CST			0	0			Hail (0.75)
Nolan County									
Blackwell	11	2335CST			0	0			Hail (0.75)
Mitchell County									
7 E Colorado City	12	0125CST			0	0	0.50K		Thunderstorm Wind
Power lines were knocked down across the eastern sections of Mitchell County.									
Nolan County									
4 W Sweetwater	12	0200CST			0	0			Hail (1.75)
Fisher County									
Roby	12	0225CST 0500CST			0	0			Flash Flood
Several roads were flooded and impassable in the community of Roby.									
Nolan County									
Sweetwater	12	0230CST 0530CST			0	0			Flash Flood
Several roads in the city of Sweetwater were closed due to high water. Severe thunderstorms ripped through the Big Country for the third consecutive evening, with the communities of Rotan and Colorado City seeing the worst of the storms. Hail up to the size of softballs pounded the Colorado City area, while a downburst ripped through the heart of Rotan. Extensive damage was reported in both towns, amounting to nearly three quarters of a million dollars. In addition, brief tornado touchdowns were also reported elsewhere in Mitchell and Fisher counties, although no damage resulted.									

Storm Data and Unusual Weather Phenomena

June 1999

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

TEXAS, Central

Nolan County

Countywide	12	0600CST 1200CST			0	0			Flash Flood
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Slow moving thunderstorms crossed the entire county during the morning hours. The heavy rain began across the northern sections, where roads in Sweetwater, including Interstate-20, had to be closed due to high water. As the rain moved south, the worst of the flooding moved with it. Farm Road 1170 at Cottonwood Creek south of Maryneal also became impassable and had to be closed.

Mitchell County

Countywide	12	0720CST 1030CST			0	0			Flash Flood
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Slow moving thunderstorms produced excessive rainfall across most of Mitchell County. Colorado City took the worst of the rainfall, where many roads became flooded and impassable.

Taylor County

Trent	12	0820CST			0	0			Hail (1.00)
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Taylor County

Countywide	12	0900CST 1200CST			0	0			Flash Flood
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Heavy rains moved from northwest to southeast across Taylor County during the morning hours. Near Abilene, Interstate-20 became impassable when 2 feet of water covered the roadway. Farther south in Tye, floodwaters entered the Butterfield School.

Fisher County

3 W Roby	12	0920CST 1200CST			0	0			Flash Flood
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Flood waters forced the closure of Farm Road 2832 west of Roby.

Slow moving thunderstorms produced up to 5 inches of rainfall across the Big Country during the early morning hours of the 12th. The heaviest rain fell across Nolan and Taylor counties, where Interstate-20 was closed in at least 2 locations.

Crockett County

South Portion	12	2015CST 2200CST			0	0			Flash Flood
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Heavy rainfall across the southern sections of the county forced the closure of Highway 163 south of Ozona. Flood waters were reported to be 3 feet deep across the roadway.

Crockett County

15 S Ozona	21	2120CST 2300CST			0	0			Flash Flood
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Highway 163 south of Ozona closed due to high water.

Sutton County

20 SW Sonora	21	2120CST 2300CST			0	0			Flash Flood
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Highway 189 southwest of Sonora closed due to high water.

Crockett County

22 N Ozona	22	0315CST 0515CST			0	0	0.50K		Flash Flood
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Irion County

West Portion	22	0700CST 1400CST			0	0	10K		Flash Flood
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An isolated thunderstorm produced 6 to 10 inches of rain across extreme northern Crockett County during the early morning hours of the 22nd. The rainfall quickly ran off into Teepee Draw, with flood waters knocking down fences along the draw in northern Crockett County. Teepee Draw then reached three quarters of a mile wide in southwest Irion County, covering Highway 67 just west of Barnhart. Although no damage was reported, the flooding would continue through the morning along the remainder of the draw in western Irion County.

TEXAS, Central Southeast

NONE REPORTED.

TEXAS, Extreme West

El Paso County

10 SE El Paso to El Paso	21	1700MST 2100MST			0	1	50K		Flash Flood
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Thunderstorms produced heavy rains in the Sparks area just south of Horizon City. The resulting flash flooding severely damaged roads and washed mobile homes off their foundation. One car was overturned as it attempted to cross a flooded arroyo, leaving one man injured.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, Extreme West</u>									
Hudspeth County									
Dell City	21	1930MST 2000MST			0	0			Thunderstorm Wind (G60)
Strong winds produced by a thunderstorm blew down electric poles and damaged the roof of a home.									
<u>TEXAS, Mid - South</u>									
Nueces County									
13 E Corpus Christi	16	1505CST 1525CST			0	0			Waterspout
Pilot report and NWS observed short-lived waterspout over Corpus Christi Bay.									
<u>TEXAS, North</u>									
Palo Pinto County									
Mineral Wells	01	1620CST			0	0			Hail (1.00)
Parker County									
2 N Millsap	01	1647CST 1649CST			0	0			Hail (1.75)
Palo Pinto County									
Mineral Wells	01	1651CST			0	0			Hail (1.75)
Parker County									
4 NW Millsap	01	1651CST			0	0			Hail (1.75)
Hail fell at the Mineral Wells Airport which is in Parker County.									
Wise County									
2 N Boyd	01	1658CST			0	0			Hail (1.00)
Palo Pinto County									
1 N Mineral Wells	01	1702CST			0	0			Hail (3.00)
Palo Pinto County									
Mineral Wells	01	1703CST			0	0			Hail (2.00)
Parker County									
4 NW Millsap	01	1703CST			0	0			Hail (2.00)
Hail fell at the Mineral Wells Airport which is in Parker County.									
Parker County									
2 N Millsap	01	1705CST			0	0			Hail (2.00)
Cooke County									
7 SW Valley View	01	1710CST			0	0			Hail (1.00)
Parker County									
Millsap	01	1710CST			0	0			Hail (2.75)
Parker County									
4 NW Millsap	01	1714CST			0	0			Hail (2.00)
Hail fell at the Mineral Wells Airport which is in Parker County.									
Wise County									
Boyd	01	1715CST			0	0			Hail (1.00)
Cooke County									
1 W Valley View	01	1717CST			0	0			Hail (1.75)
Palo Pinto County									
1 N Mineral Wells	01	1718CST			0	0			Hail (1.75)
Wise County									
2 N Boyd	01	1730CST			0	0			Hail (1.00)
Grayson County									
Collinsville	01	1735CST			0	0			Hail (1.75)
Parker County									
6 W Weatherford	01	1735CST			0	0			Hail (2.75)
Wise County									
Aurora	01	1737CST			0	0			Hail (0.88)
Wise County									
Boyd	01	1737CST			0	0			Hail (1.75)
Grayson County									
Whitesboro	01	1745CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Wise County									
2 E Boyd	01	1746CST			0	0			Hail (1.75)
Denton County									
Ponder	01	1750CST			0	0	0.60K		Thunderstorm Wind
A roof was blown off a storage building by thunderstorm winds.									
Parker County									
4 NW Millsap	01	1755CST			0	0			Hail (1.00)
Hail fell at the Mineral Wells Airport which is in Parker County.									
Erath County									
Morgan Mill	01	1800CST	0.1	20	0	0	2K		Tornado (F0)
A tornado briefly touched down and damaged two barns.									
Palo Pinto County									
Mineral Wells	01	1804CST			0	0			Hail (2.00)
Parker County									
Millsap	01	1813CST			0	0			Hail (1.50)
Wise County									
Decatur	01	1843CST 1847CST			0	0	5K		Hail (1.75)
A country club sustained damaged from the hail.									
Parker County									
7 W Weatherford	01	1850CST			0	0			Flash Flood
Thunderstorm rains brought water over Highway 180 between Weatherford and Mineral Wells.									
Erath County									
Dublin	01	1910CST			0	0			Hail (1.75)
Erath County									
Dublin	01	1910CST			0	0	0.50K		Thunderstorm Wind
Power lines were blown down by thunderstorm winds.									
Erath County									
Highland	01	1923CST			0	0			Hail (1.75)
Comanche County									
De Leon	01	1945CST			0	0			Hail (2.75)
Erath County									
1 N Morgan Mill	01	1950CST			0	0			Hail (1.00)
Comanche County									
Proctor	01	2020CST			0	0			Hail (1.75)
Erath County									
Dublin	01	2022CST	0.1	10	0	0			Tornado (F0)
A tornado briefly touched down near Dublin. No damage reports were received.									
Lamar County									
Powderly	01	2040CST			0	0			Hail (1.75)
Erath County									
Morgan Mill	01	2045CST			0	0			Hail (0.75)
Lamar County									
Faught	01	2125CST			0	0			Hail (1.75)
Lamar County									
Medill	01	2125CST			0	0			Hail (1.75)
Lamar County									
Novice	01	2125CST			0	0			Hail (1.75)
Lamar County									
Postoak	01	2130CST			0	0			Hail (2.00)
Hood County									
5 S Tolar	01	2135CST			0	0			Hail (1.00)
Hamilton County									
5 W Hamilton	01	2225CST			0	0			Hail (1.00)
Hamilton County									
Hamilton	01	2232CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Mclennan County									
Waco	01	2235CST			0	0	1K		Thunderstorm Wind
									Thunderstorm winds caused trees to blow down in a city park. Some windows were blown out in the downtown area.
Somervell County									
Glen Rose	02	0435CST			0	0	2K		Thunderstorm Wind
									A convenience store had its roof partially blown off by thunderstorm winds.
Parker County									
Brock	02	0655CST			0	0			Hail (0.75)
Denton County									
Sanger	06	1456CST			0	0			Hail (1.75)
Grayson County									
Howe	08	1825CST			0	0			Hail (0.75)
Dallas County									
Dallas	08	1845CST			0	0	1K		Thunderstorm Wind
									Ten trees were blown down in North Dallas.
Hill County									
Hubbard	08	1850CST			0	0	0.30K		Thunderstorm Wind
									Power lines were blown down by thunderstorm winds.
Collin County									
Plano	08	1900CST			0	0			Flash Flood
									Numerous streets were flooded by thunderstorm rains.
Cooke County									
Gainesville	08	1912CST			0	0			Flash Flood
									Thunderstorms caused widespread street flooding.
Dallas County									
Richardson	08	1945CST			0	0			Flash Flood
									Heavy rain from thunderstorms caused street flooding. Several cars were stranded in the water.
Fannin County									
Bonham	08	2000CST			0	0			Flash Flood
									Streets were flooded and cars were stranded by flooding caused by thunderstorms.
Grayson County									
Bells	08	2030CST			0	0			Flash Flood
									Thunderstorm rains created high water across an underpass of U.S. 82.
Cooke County									
Gainesville	10	1800CST			0	0	5K		Thunderstorm Wind
									A tree was blown onto a house by thunderstorm winds.
Dallas County									
Richardson	10	1800CST			0	0			Flash Flood
									Widespread street flooding was reported from rain accumulations up to 4.9 inches.
Eastland County									
Eastland	11	0215CST			0	0			Thunderstorm Wind (G52)
									Trees were blown down by thunderstorm winds.
Cooke County									
Gainesville	12	1300CST			0	0			Flash Flood
									Streets were flooded by thunderstorm rains.
Dallas County									
Dallas	12	1400CST			0	1			Lightning
									A mailman was struck by lightning. He was knocked unconscious and sustained burns to his right arm, right leg, and both feet.
Dallas County									
Richardson	12	1410CST			0	0			Flash Flood
									Thunderstorm rains caused numerous streets to flood.
Van Zandt County									
Ben Wheeler	24	2100CST			0	0			Flash Flood
									Highway 64 was flooded by thunderstorm rains.
Eastland County									
8 E Ranger	25	0103CST			0	0			Flash Flood
									Highway 16 and an Interstate 20 access road were flooded by thunderstorm rains.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
Erath County									
Huckabay	25	0300CST			0	0			Flash Flood
Highway 108 was flooded north of Huckabay. The water was a result of heavy thunderstorm rains.									
Henderson County									
Larue	25	0300CST			0	0			Flash Flood
Thunderstorm rains caused water to cover the road on Highway 175, near Larue.									
Henderson County									
Poyner	25	0300CST			0	0			Flash Flood
Water was reported over Highway 315, north of Poyner. The water came from thunderstorms in the area.									
Comanche County									
Proctor	25	0503CST			0	0			Flash Flood
Flooding was reported in Proctor and other areas surrounding Proctor. The flooding was from thunderstorms.									
TEXAS, North Panhandle									
Deaf Smith									
20 N Hereford	02	1737CST			0	0			Hail (2.75)
Oldham County									
Vega	02	1757CST			0	0	10K		Hail (2.75)
Oldham County									
Adrian	02	1800CST			0	0			Hail (1.25)
Moore County									
15 SW Dumas	02	1825CST			0	0			Hail (1.75)
Carson County									
White Deer	02	1900CST			0	0	125K		Lightning
Lightning caused a house fire.									
Moore County									
Etter	02	1900CST			0	0	70K		Thunderstorm Wind (G61)
Report of roof blown off a building.									
Roberts County									
15 WSW Miami	02	1928CST	0.1	25	0	0			Tornado (F0)
The tornado remained over open country and the track was estimated.									
Armstrong County									
Claude	02	1935CST			0	0			Hail (1.75)
Roberts County									
15 NW Miami	02	1940CST			0	0			Hail (1.00)
Armstrong County									
Claude	02	1953CST			0	0			Thunderstorm Wind (G57)
Ochiltree County									
Perryton	02	2014CST			0	0			Thunderstorm Wind (G70)
Report of power lines snapped and trees down.									
Carson County									
Groom	02	2015CST			0	0			Hail (0.88)
Gray County									
Lefors	02	2040CST			0	0			Hail (0.88)
Armstrong County									
5 NW Wayside	02	2045CST			0	0			Hail (0.75)
Donley County									
Ashtola	02	2123CST			0	0			Hail (0.75)
Wheeler County									
2 E Shamrock	02	2210CST			0	0	15K		Thunderstorm Wind (G70)
Report of eighteen-wheeler blown over on the eastern edge of Shamrock on Interstate 40.									
Wheeler County									
Shamrock	02	2241CST			0	0			Hail (1.75)
Wheeler County									
9 E Shamrock	02	2250CST			0	0			Hail (1.75)

A surface low over southeastern Colorado with a warm front extending southeastward across the northern sections of the Texas panhandle and a dryline extending southward from the surface low across eastern New Mexico set the stage for severe thunderstorms with damaging winds and large hail and an isolated tornado throughout the evening hours.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Donley County									
5 NW Hedley	10	1521CST			0	0			Hail (0.88)
Oldham County									
10 W Vega	10	1540CST			0	0			Hail (1.00)
Oldham County									
Vega	10	1644CST			0	0			Hail (0.75)
Deaf Smith									
10 N Dawn	10	1700CST			0	0			Hail (0.75)
Potter County									
Bushland	10	1700CST			0	0			Hail (0.88)
Oldham County									
Vega	10	1705CST			0	0			Hail (0.75)
Oldham County									
Wildorado	10	1716CST			0	0			Hail (0.75)
Potter County									
7 NW Amarillo	10	1728CST			0	0			Hail (0.75)
Potter County									
8 W Amarillo	10	1730CST			0	0			Hail (0.75)
Potter County									
8 W Amarillo	10	1731CST			0	0			Hail (1.00)
Potter County									
7 W Amarillo	10	1736CST			0	0			Hail (1.00)
Randall County									
6 WSW Amarillo	10	1740CST			0	0			Hail (1.00)
Randall County									
6.5 WSW Amarillo	10	1744CST			0	0			Hail (1.00)
Randall County									
6 WSW Amarillo	10	1744CST			0	0			Hail (1.00)
Randall County									
9 SW Amarillo	10	1745CST			0	0			Hail (1.75)
Randall County									
5.5 WSW Amarillo	10	1745CST			0	0			Hail (0.88)
Randall County									
1 W Canyon	10	1750CST			0	0			Hail (1.25)
Randall County									
12 S Amarillo	10	1752CST			0	0			Hail (0.88)
Randall County									
2 N Canyon	10	1752CST			0	0			Hail (1.75)
Randall County									
2 N Canyon	10	1755CST			0	0	8M		Hail (2.75)
Three car dealerships just north of Canyon sustained heavy damage to around two hundred to three hundred vehicles and to their buildings with an estimated cost of one and a half million to two million dollars per dealership. The rest of the damage was to windows, skylights and roofs of homes on the north side of Canyon.									
Randall County									
5.5 SW Amarillo	10	1800CST			0	0			Hail (1.75)
Randall County									
4 NE Canyon	10	1800CST			0	0			Hail (1.75)
Randall County									
12 SW Amarillo	10	1803CST			0	0			Hail (1.00)
Armstrong County									
14 SW Claude	10	1840CST			0	0			Hail (0.75)
Armstrong County									
12 SW Claude	10	1845CST			0	0			Hail (1.75)

The combination of outflow boundaries from earlier thunderstorms along with a cold front over southwestern Kansas moving into the northwest Texas and western Oklahoma panhandles served as a triggering mechanism for severe thunderstorms with large and damaging hail across the western and central Texas panhandle during the evening hours.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Hartley County									
14 NW Hartley	11	2014CST			0	0			Hail (1.75)
Hartley County									
Dalhart Muni Arpt	11	2018CST			0	0			Hail (1.00)
			Reported by Dalhart FAA Weather Observer.						
Hartley County									
Dalhart Muni Arpt	11	2020CST			0	0			Hail (3.00)
Dallam County									
Dalhart	11	2028CST			0	0			Hail (1.75)
Dallam County									
Dalhart	11	2033CST			0	0	1.5M	250K	Hail (2.00)
			A cold front south of the Texas panhandle along with several disturbances in the upper levels of the atmosphere approaching the northwest Texas panhandle from New Mexico triggered severe thunderstorms with large and damaging hail during the evening hours.						
Gray County									
26 S Pampa	18	1800CST			0	0			Hail (1.00)
Lipscomb County									
Higgins	18	1842CST			0	0			Hail (1.00)
Lipscomb County									
Higgins	18	1855CST			0	0			Hail (1.75)
Donley County									
Howardwick	18	1901CST			0	0			Hail (0.75)
Lipscomb County									
Higgins	18	1904CST			0	0			Hail (1.00)
Donley County									
Clarendon	18	1910CST			0	0			Thunderstorm Wind (G55)
			A moist and unstable air mass and a disturbance in the upper atmosphere moving east across the Texas panhandle triggered scattered severe thunderstorms with large hail across the eastern third of the panhandle early this evening.						
TXZ016-016									
Deaf Smith									
	21	1330CST 1900CST			0	0			Flood
			North side of Hereford flooded with roads completely under water. Strong thunderstorms producing very heavy rainfall persisted over the southwestern Texas panhandle from mid afternoon into the evening hours causing flooding on the north side of Hereford.						
Hansford County									
5 S Spearman	23	1720CST			0	0			Hail (1.00)
			A very unstable air mass with abundant moisture along with a disturbance in the upper atmosphere over northeastern New Mexico triggered an isolated severe thunderstorm with large hail over the north-central Texas panhandle during the early evening hours.						
Hutchinson									
4 SE Borger	24	1556CST 1557CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Carson County									
Skellytown	24	1603CST			0	0			Hail (1.00)
Carson County									
5 S Skellytown	24	1620CST			0	0			Hail (0.75)
Carson County									
Panhandle	24	1645CST			0	0			Thunderstorm Wind (G58)
Carson County									
5 W Panhandle	24	1655CST			0	0			Hail (1.75)
Carson County									
1 E Pantex	24	1716CST			0	0			Hail (0.75)
Potter County									
10 E Amarillo	24	1730CST			0	0			Hail (1.00)
Armstrong County									
Washburn	24	1738CST			0	0			Hail (0.75)
Potter County									
10 E Amarillo	24	1747CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Potter County									
Amarillo Intl Arpt	24	1747CST			0	0			Hail (1.00)
Potter County									
4 E Bushland to 4.2 E Bushland	24	1800CST 1810CST	0.2	50	0	0			Tornado (F0)
The tornado remained over open country and the track was estimated.									
Randall County									
5 WSW Amarillo	24	1814CST			0	0			Hail (1.75)
Potter County									
5 W Amarillo	24	1815CST			0	0			Hail (0.88)
Randall County									
6 SW Amarillo	24	1820CST			0	0			Hail (1.00)
Potter County									
Bushland	24	1824CST			0	0			Hail (0.75)
Potter County									
Bushland	24	1829CST			0	0			Hail (1.00)
Randall County									
4 SSW Amarillo	24	1830CST			0	0			Hail (1.00)
Randall County									
6 SW Amarillo	24	1833CST			0	0			Hail (0.75)
Randall County									
13 WSW Amarillo	24	1838CST			0	0			Hail (1.00)
Severe thunderstorms developed across the western and central Texas panhandle along outflow boundaries left over from previous day's convection. Tornado on west side of Amarillo formed when two of the outflow boundaries merged.									
Hartley County									
Dalhart	25	1820CST			0	0			Thunderstorm Wind (G61)
Deaf Smith									
34 NW Hereford	25	1830CST			0	0			Hail (0.88)
Deaf Smith									
34 NW Hereford	25	1846CST			0	0			Hail (1.00)
Hartley County									
Channing	25	1907CST			0	0			Hail (0.75)
Moore County									
Dumas	25	1930CST			0	0			Thunderstorm Wind (G65)
Moore County									
Dumas	25	1938CST			0	0			Thunderstorm Wind (G61)
Report of limbs and a few trees down. Northwest flow aloft allowed severe thunderstorms to move out of New Mexico and into the western Texas panhandle during the evening hours. These storms produced mainly large hail with some damaging winds.									
Lipscomb County									
Lipscomb	27	1640CST			0	0			Hail (0.75)
Ochiltree County									
19 S Perryton	27	1807CST			0	0			Hail (1.75)
Ochiltree County									
21 S Perryton	27	1849CST			0	0			Hail (2.00)
Ochiltree County									
19 SE Perryton	27	1921CST			0	0			Hail (0.75)
Severe thunderstorms developed over the north-central and northeast Texas panhandle where an east to west outflow boundary was located. The air mass over the area was very moist and unstable. The severe storms produced large hail.									
Sherman County									
Texhoma	29	1718CST			0	0			Thunderstorm Wind (G57)
Hansford County									
5 S Spearman	29	1758CST			0	0			Hail (1.00)
Hansford County									
10 WNW Gruver	29	1805CST 1806CST	0.1	25	0	0			Tornado (F0)
The tornado remained over open country and the track was estimated.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Hansford County 10 NW Gruver	29	1812CST			0	0			Hail (1.00)
Hansford County 8 NW Gruver to 7 NW Gruver	29	1812CST 1820CST	1	50	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Hansford County 3 SE Gruver	29	1815CST			0	0			Hail (1.75)
Hansford County 12 WSW Gruver	29	1821CST 1822CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Carson County White Deer	29	1830CST			0	0			Hail (0.75)
Hansford County 3 NNW Morse	29	1839CST 1841CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Carson County 1 E Panhandle	29	1842CST 1845CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Hansford County 1 E Morse	29	1850CST 1852CST	0.1	25	0	0	10K		Tornado (F0)
			The tornado remained over open country and the track was estimated. Some power poles were damaged.						
Hansford County 1 NW Morse	29	1856CST 1859CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Carson County White Deer	29	1857CST			0	0			Hail (1.00)
Carson County 3 S Panhandle to 3 SSE Panhandle	29	1858CST 1903CST	0.8	50	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Carson County Panhandle	29	1900CST			0	0			Thunderstorm Wind (G79)
Carson County 6 SE Panhandle	29	1913CST 1919CST	0.3	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Hansford County Morse	29	1914CST			0	0			Hail (1.50)
Carson County 3 NE Conway	29	1915CST 1917CST	0.1	25	0	0			Tornado (F0)
			The tornado remained over open country and the track was estimated.						
Hutchinson 10 N Stinnett	29	1922CST			0	0			Hail (0.75)
Carson County 5 W Groom	29	1950CST			0	0			Hail (0.75)
Carson County 5 W Groom	29	1951CST			0	0			Hail (1.75)
Carson County Skellytown	29	2031CST			0	0			Hail (0.88)
Armstrong County Goodnight	29	2040CST			0	0			Hail (0.75)
Carson County 5 SE Skellytown	29	2040CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, North Panhandle</u>									
Gray County									
Pampa	29	2050CST			0	0			Hail (0.75)
Hansford County									
Spearman	29	2159CST			0	0			Thunderstorm Wind (G57)
Hansford County									
Spearman	29	2212CST 2214CST			0	0			Hail (1.75)
Hansford County									
Spearman	29	2328CST			0	0			Hail (1.00)
Hansford County									
6 W Spearman	29	2350CST 2353CST	0.2	25	0	0	25K		Tornado (F0)
The tornado lifted a roof off of a house. The tornado track was estimated.									
Hansford County									
8 SSW Spearman	30	0000CST			0	0			Hail (1.75)
Roberts County									
25 NW Miami	30	0148CST			0	0			Hail (1.75)
Ochiltree County									
12 W Perryton	30	0222CST			0	0			Hail (0.75)
Ochiltree County									
Perryton	30	0240CST			0	0			Hail (1.00)
Ochiltree County									
Waka	30	0300CST			0	0			Hail (1.75)
Ochiltree County									
Waka	30	0300CST			0	0			Thunderstorm Wind (G61)
Lipscomb County									
Lipscomb	30	0420CST			0	0			Hail (1.75)
A trough of low pressure at the surface extending into the Texas panhandle from a surface low pressure system over southeast Colorado and a warm front moving north across the Texas panhandle allowed for severe thunderstorms with numerous tornadoes along with large hail and damaging winds to develop from the north-central Texas panhandle into the south-central Texas panhandle during the late afternoon hours and then through the night.									
<u>TEXAS, Northeast</u>									
Red River County									
2 NW Clarksville	01	2130CST			0	0			Hail (0.75)
Smith County									
Tyler	09	1635CST			0	0			Hail (0.75)
Harrison County									
Marshall	24	1855CST			0	0			Flash Flood
Flooding across Hwy 59 and U.S. 80 Intersection making the road impassable for small cars.									
Shelby County									
Center to Logansport	25	0600CST			0	0			Flash Flood
Flash flooding occurred on several Farm-to-Market roads with Highway 7 from Center to Logansport flooded and closed. Loop 500 was also flooded.									
Panola County									
Beckville	25	0730CST			0	0			Flash Flood
Highway 124 closed due to flash flooding.									
Shelby County									
Center Muni Arprt to 5 W Center	25	0930CST			0	0			Flash Flood
CR414 was closed as well as CR138.									
<u>TEXAS, South</u>									
NONE REPORTED.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Central									
Val Verde County									
Southeast Portion	12	1930CST 2030CST			0	0	10K	0	Flash Flood
General 2 to 3 inch rainfall fell between Lake Amistad and the city of Del Rio, with some locations reporting almost 5 inches. Brief flash flooding developed with the most significant in the city of Del Rio.									
Bexar County									
Schertz	12	1940CST 1945CST			0	0	10K	0	Thunderstorm Wind
Comal County									
New Braunfels	12	1945CST 1955CST			0	0	10K	0	Thunderstorm Wind
Guadalupe County									
Cibolo	12	1945CST 1955CST			0	0	70K	0	Thunderstorm Wind
Guadalupe County									
New Braunfels	12	1948CST 1950CST			0	0	0	0	Thunderstorm Wind (G53)
Guadalupe County									
Geronimo	12	2050CST 2055CST			0	0	30K	0	Thunderstorm Wind
Bexar County									
Schertz	12	2110CST 2120CST			0	0	10K	0	Thunderstorm Wind
Bexar County									
Leon Vly	12	2150CST 2200CST			0	0	50K	0	Thunderstorm Wind
Severe thunderstorm winds blew down trees and broke windows in the area from Schertz in Bexar County to near New Braunfels in Comal County and Cibolo and Geronimo in Guadalupe County. The severe winds destroyed roofs and blew down fences in the Cibolo area. They also knocked out power in the city of Schertz. The severe winds struck again in the evening over the northern part of Bexar County. An off-duty NWS employee reported trees blown down again in the Schertz area and the public reported trees uprooted and power lines down in the northwest part of Bexar County. Power was restored near midnight.									
Bandera County									
Bandera	12	2155CST 2205CST			0	0	15K	0	Thunderstorm Wind
Bandera County									
Countywide	12	2200CST 2330CST			0	0	5K	0	Flash Flood
Kerr County									
North Portion	12 13	2300CST 0030CST			0	0	5K	0	Flash Flood
Rainfall averaging between 3 and 4 inches fell over much of Bandera and Kerr Counties, with the heaviest amount between 5 and 6 inches falling near Mountain Home in northern Kerr County. Many low water crossings were flooded across the two counties. The Bandera Sheriff's department also reported that the thunderstorms blew down trees in Bandera.									
Uvalde County									
Uvalde	13	0030CST 0130CST			0	0	5K	0	Flash Flood
Zavala County									
West Portion	13	0030CST 0130CST			0	0	3K	0	Flash Flood
Thunderstorms produced 3 to 4 inches of rain across the southern half of Uvalde County and the western half of Zavala County. Flash flooding was reported in the city of Uvalde as well as along SH1025 between Crystal City and LaPryor in Zavala County.									
Williamson									
Georgetown	13	1430CST 1530CST			0	0	3K	0	Flash Flood
Between 2 and 3 inches of rain fell in the Georgetown area in just over an hour. Several low water crossings were flooded briefly.									
Atascosa County									
Southeast Portion	13	2000CST 2200CST			0	0	3K	0	Flash Flood
Between 2 and 4 inches of rain fell in around 2 hours between Pleasanton, Christine and Campbellton. Flash flooding was reported along several low water crossings.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Central									
Zavala County									
Crystal City	14	1300CST 1400CST			0	1	40K	0	Flash Flood
Additional rainfall of 3 to 4 inches over already soaked soils produced brief flash flooding throughout much of Crystal City. One home was flooded, requiring an evacuation by the Sheriff's Department.									
Bexar County									
Northwest Portion	14	1930CST 2030CST			0	0	10K	0	Flash Flood
Rainfall of between 3 and 4 inches in the northwestern corner of Bexar County resulted in brief flash flooding of low water crossings.									
Bexar County									
San Antonio	15	0900CST 1030CST			0	0	30K	0	Flash Flood
Rainfall of up to 3 inches fell over the city of San Antonio on Tuesday morning. The soil was still saturated from the heavy rain that had taken place the evening before. Flash flooding was reported at several locations in the city of San Antonio. Several cars stalled in deep water.									
Bexar County									
San Antonio	15	2130CST 2300CST			0	0	10K	0	Flash Flood
Flash flooding redeveloped again in Bexar County in the western part of San Antonio as an additional 2 inches of rain fell in less than one hour late Tuesday night. The flooding took place near a theme park on the western edge of San Antonio.									
Gillespie County									
Countywide	20	1300CST 1800CST			0	0	20K	0	Flash Flood
Kerr County									
Countywide	20	1300CST 1500CST			0	0	5K	0	Flash Flood
Thunderstorms repeatedly dropped heavy rainfall over Gillespie and Kerr counties early on Sunday afternoon. Rain totals over the two counties averaged between 3 and 4 inches, with up to 5 inches reported at Hunt in western Kerr County and as much as 7 inches at Fredericksburg in Gillespie County. Widespread flash flooding closed roads and inundated low water crossings. The most severe flash flooding was in central Gillespie County.									
Val Verde County									
North Portion	21	0100CST 0300CST			0	0	3K	0	Flash Flood
Rainfall of between 2 and 3 inches in less than 1 hour over the northern half of Val Verde County resulted in flash flooding along SH163 south of Juno.									
Bexar County									
San Antonio	21	1000CST 1200CST			0	0	10K	0	Flash Flood
Comal County									
South Portion	21	1100CST 1330CST			0	0	5K	0	Flash Flood
Guadalupe County									
West Portion	21	1200CST 1330CST			0	0	3K	0	Flash Flood
Rainfall of between 2 and 3 inches fell over Comal, Guadalupe and northern Bexar Counties. Isolated totals of 4 inches were reported in Guadalupe County and in the northern part of San Antonio in Bexar County. Flash flooding was reported along Salado Creek near Loop 410 in San Antonio. Widespread flash flooding also developed in western Guadalupe County, west of Seguin. In Comal County, up to as much as 6 inches fell just west of New Braunfels, also resulting in widespread flash flooding.									
Edwards County									
Southeast Portion	21	1030CST 1200CST			0	0	3K	0	Flash Flood
Real County									
South Portion	21	1030CST 1200CST			0	0	10K	0	Flash Flood
Uvalde County									
North Portion	21	1030CST 1130CST			0	0	15K	0	Flash Flood
General 2 to 3 inch rainfall was reported from Uvalde northward along the Edwards-Real County line, with up to 6 inches in the Camp Wood area. SH337 was closed due to flash flooding between Leakey and Camp Wood. SH55 was closed in several locations from just north of Uvalde beyond Camp Wood to just north of Barksdale.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Central									
Hays County									
Countywide	21	1300CST 1400CST			0	0	3K	0	Flash Flood
Travis County									
Countywide	21	1400CST 1600CST			0	0	10K	0	Flash Flood
Williamson									
Countywide	21	1500CST 1700CST			0	0	8K	0	Flash Flood
General rainfall of 2 to 3 inches was reported over the 3 counties, with isolated totals in Travis County of nearly 5 inches. Flash flooding of low areas and low water crossings continued into the late afternoon.									
Atascosa County									
Pleasanton	24	1800CST 2100CST			0	0	50K	10K	Flash Flood
General rainfall of 2 to 3 inches with a total of nearly 6 inches near Pleasanton caused flash flooding. Homes in a subdivision just east of Pleasanton were flooded briefly.									
Frio County									
Pearsall	24	1900CST 2000CST			0	0	3K	0	Flash Flood
Thunderstorms produced general 3 to 4 inch rainfall just east of Pearsall in just over one hour. Brief flash flooding was reported in Pearsall.									
Lee County									
Countywide	25	0630CST 0900CST			0	0	5K	20K	Flash Flood
General 2 to 3 inch rainfall over the southern part of the county, with totals to near 7 inches near Dime Box and 6 inches in the Giddings area, produced flash flooding. Water flooded one business and covered many streets in Giddings, as well as covering a small part of US290 just east of the town.									
Gonzales County									
South Portion	25	1500CST 1900CST			0	0	5K	20K	Flash Flood
Lavaca County									
North Portion	25	1500CST 1900CST			0	0	15K	30K	Flash Flood
Karnes County									
Countywide	25	1630CST 2200CST			0	0	50K	30K	Flash Flood
Wilson County									
Countywide	25	1730CST 1900CST			0	0	20K	20K	Flash Flood
De Witt County									
North Portion	25	1830CST 2000CST			0	0	5K	10K	Flash Flood
General 3 to 4 inch rainfall fell across the five counties during the mid afternoon period, resulting in widespread flash flooding that continued into the evening period. The heaviest rain fell in Karnes County, with isolated totals to near 11 inches. Water was even reported to be covering a bridge near Panna Maria. Isolated totals between 6 and 8 inches of rain were reported between Gonzales and Moulton, with just over 6 inches in the Stockdale area. The heaviest rainfall in DeWitt County was just north of Cuero where nearly 5 inches fell.									
TEXAS, South Panhandle									
Bailey County									
5 W Progress	02	1650CST			0	0	150K		Hail (1.75)
Parmer County									
6 NE Bovina	02	1710CST			0	0	200K		Hail (1.50)
Parmer County									
Lazbuddie	02	1710CST			0	0	250K		Hail (1.25)
Parmer County									
Lazbuddie	02	1734CST			0	0	75K		Hail (1.00)
Castro County									
1 W Dimmitt	02	1750CST			0	0	500K		Hail (1.00)
Castro County									
Dimmitt	02	1752CST			0	0	25K		Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Castro County									
4 N Dimmitt	02	1803CST			0	0	300K		Hail (0.75)
Castro County									
Dimmitt	02	1813CST			0	0	15K	500K	Hail (1.00)
Castro County									
Nazareth	02	1825CST			0	0	25K	500K	Hail (2.00)
Swisher County									
12 WSW Tulia	02	1845CST 1846CST	0.1	30	0	0			Tornado (F0)
VORTEX reported a brief tornado touchdown in open country. No NWS survey was conducted.									
Cochran County									
Morton	02	1850CST			0	0	75K		Hail (1.00)
Yoakum County									
5 S Plains	02	1930CST			0	0	100K		Hail (1.50)
Swisher County									
10 S Tulia	02	1959CST			0	0	75K		Hail (2.00)
Terry County									
Brownfield	02	2005CST			0	0	50K		Thunderstorm Wind
Strong thunderstorm wind blew down trees and 20 power poles. Roofs and sheds were also damaged by the wind.									
Swisher County									
2 W Vigo Park	02	2027CST			0	0	50K		Hail (0.88)
Dickens County									
Mc Adoo	02	2150CST			0	0			Thunderstorm Wind (G52)
Kent County									
Jayton	06	0730CST			0	0	5K		Hail (1.50)
Large hail damaged a few automobiles.									
Hall County									
2 N Brice	10	1450CST			0	0			Hail (1.00)
Hall County									
Brice	10	1500CST			0	0			Hail (0.88)
Hall County									
6 W Estelline	10	1610CST 1625CST			0	0			Hail (1.75)
Childress County									
8 W Childress	10	1640CST			0	0			Hail (1.00)
Childress County									
(Cds)Childress Arpt	10	1705CST			0	0			Thunderstorm Wind (G55)
Childress County									
Childress	10	1715CST			0	0			Hail (1.00)
Cottle County									
2 N Paducah	10	1730CST			0	0	1K		Thunderstorm Wind
Cottle County									
Cee Vee	10	1740CST			0	0			Hail (1.00)
Lubbock County									
Slaton	10	1755CST			0	0	30K		Hail (1.50)
Hail damaged the golf course and ten vehicles.									
Lubbock County									
1 N Slaton	10	1758CST			0	0			Hail (1.50)
Motley County									
4 W Roaring Spgs	10	1926CST			0	0			Hail (1.75)
Motley County									
Roaring Spgs	10	1931CST			0	0			Hail (1.75)
Crosby County									
8 NE Kalgary	10	2018CST			0	0			Hail (1.75)
King County									
Dumont	10	2027CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Dickens County									
5 N Spur	10	2035CST			0	0			Hail (0.75)
Kent County									
8 W Girard	10	2035CST			0	0			Hail (0.75)
Kent County									
3 SW Clairemont	10	2110CST			0	0	5K		Thunderstorm Wind
Strong thunderstorm wind blew down at least two power poles.									
Swisher County									
Vigo Park	11	1250CST			0	0			Hail (1.00)
Briscoe County									
6 NW Silverton	11	1349CST			0	0			Hail (1.00)
Briscoe County									
Silverton	11	1404CST			0	0			Hail (1.75)
Briscoe County									
Silverton	11	1405CST			0	0			Hail (2.75)
Floyd County									
10 SE South Plains	11	1505CST			0	0		5.5M	Hail (1.25)
Floyd County									
7 ESE Floydada	11	1530CST			0	0	5K	1M	Hail (1.75)
Yoakum County									
10 E Plains	11	1600CST			0	0	3K		Hail (2.00)
Large hail damaged a car and broke the windshield.									
Cochran County									
3 W Whiteface	11	1620CST			0	0	10K		Thunderstorm Wind
Strong wind damaged an irrigation system.									
Terry County									
Tokio	11	1627CST			0	0		3M	Hail (1.00)
Floyd County									
6 SE Floydada	11	1636CST			0	0		4M	Hail (2.75)
Golfball to baseball size hail was reported.									
Floyd County									
3 SSW Dougherty	11	1640CST			0	0		6M	Hail (1.00)
Hockley County									
Levelland	11	1640CST			0	0		1M	Hail (0.75)
Hockley County									
10 WNW Levelland	11	1645CST			0	0	2K		Thunderstorm Wind
Strong wind snapped several power poles.									
Castro County									
Hart	11	1709CST			0	0		5M	Hail (1.75)
Wind driven golfball size hail produced considerable damage to cotton and corn crops.									
Crosby County									
16 E Cone	11	1710CST	0.1	30	0	0		500K	Tornado (F0)
A brief tornado touchdown was reported in open country by SKYWARN spotters. No NWS survey was conducted.									
Bailey County									
Progress	11	1715CST			0	0			Hail (1.75)
Lubbock County									
2 SW New Deal	11	1727CST			0	0		300K	Hail (2.50)
Terry County									
Brownfield	11	1734CST			0	0			Hail (1.75)
Crosby County									
1 N Crosbyton	11	1747CST	0.1	30	0	0	10K	500K	Tornado (F1)
Crosbyton Fire Department reported that a brief tornado touchdown damaged an irrigation system north of town. No NWS survey was conducted.									
Lubbock County									
(Lbb)Lubbock Intl Ar	11	1750CST			0	0		200K	Hail (1.25)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Terry County Brownfield	11	1753CST			0	0			Hail (1.75)
Crosby County 4 W Crosbyton	11	1755CST			0	0	500K		Thunderstorm Wind (G50)
Lubbock County Lubbock	11	1810CST	0.1	30	0	0	10K	100K	Tornado (F1) A brief tornado snapped 8 power poles and damaged a billboard on Highway 84 at the southeast city limits of Lubbock.
Lynn County Countywide	11	1826CST			0	0			Severe Thunderstorm A very severe supercell thunderstorm produced a large swath of damage from the west central portion of the county near West Point east-southeastward to near Draw. Within the damage swath, strong thunderstorm wind damaged at least 30 center-pivot irrigation systems, snapped or blew over 350 power/utility poles, uprooted or snapped numerous trees, damaged many barns and sheds, and blew two tractor trailers off Highway 87 south of Tahoka. Flying debris hit two people as they fled for their storm shelters, causing minor injuries. Strong downburst wind also severely damaged two mobile homes near Draw; their occupants had left their homes for sturdier shelter just prior to the damage. The storm also produced widespread golfball to baseball size hail throughout the southern half of the county which resulted in at least 20 million dollars in crop damage to over 130,000 acres.
Lynn County 10 W Tahoka	11	1827CST			0	0	5M		Hail (1.75)
Lynn County 10 W Tahoka	11	1827CST			0	0	2K	3M	Thunderstorm Wind Strong wind destroyed a barn, and combined with hail to destroy crops.
Terry County Brownfield	11	1830CST			0	0			Hail (1.75)
Lynn County Countywide	11	1850CST 1910CST			0	0	1.4M	2M	Thunderstorm Wind Strong wind blew down or snapped over 350 power poles across the southern half of the county. The Southwestern Public Service, an electric company, reported 28 power transmission structures destroyed by the strong wind.
Lynn County Odonnell	11	1852CST			0	2	1K		Thunderstorm Wind Strong wind blew a trampoline into two people who were running for their storm shelter. They received minor injuries and were released from the hospital that same night.
Lynn County 3 S Tahoka	11	1855CST			0	0	3K		Thunderstorm Wind Strong wind blew over two tractor trailers on Highway 87 between Tahoka and O'Donnell.
Lynn County 4 S Tahoka	11	1855CST			0	0	10K	2M	Thunderstorm Wind Strong wind destroyed a large barn, and combined with hail to destroy crops.
Lynn County Odonnell	11	1905CST			0	0		6M	Hail (1.75)
Lynn County Draw	11	1910CST			0	0	60K	2M	Thunderstorm Wind Strong wind destroyed two mobile homes near Draw, and combined with hail to destroy crops.
Hockley County Countywide	11	1945CST 2200CST			0	0	50K	2M	Flash Flood Numerous roads were reported flooded across the county. In Levelland, three cars were flooded along with four homes and one store. Several county roads were washed out and crops were damaged.
Lynn County Countywide	11	1945CST 2200CST			0	0			Flash Flood Numerous roads were reported flooded across the county.
Hockley County Smyer	11	2050CST			0	0		3M	Hail (0.88)
Lubbock County Lubbock	11	2100CST 2230CST			0	0		2M	Flash Flood Numerous roads were flooded throughout the county, especially in the city of Lubbock. Numerous crops were damaged by the flooding.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Lubbock County									
Lubbock	11	2141CST			0	0	400K		Hail (0.88)
Lubbock County									
Lubbock	11	2142CST			0	0			Thunderstorm Wind (G56)
Lubbock County									
Lubbock	11	2142CST			0	0			Thunderstorm Wind (G84)
			A 97 mph wind gust was recorded by the wind equipment at KAMC-TV.						
Kent County									
8 SW Clairemont	11 12	2200CST 0030CST			0	0			Flash Flood
			Kent County Sheriff's Office reported deep water flowing across FM 208.						
Garza County									
5 SE Post	11 12	2330CST 0300CST			0	0			Flash Flood
			Highway 84 southeast of town was reported flooded.						
TXZ036									
Crosby									
	11 12	2330CST 0430CST			0	0			Flood
			FM 651 and FM 193 were closed due to flood waters for several hours.						
Lubbock County									
3 E Lubbock	12	0200CST 0400CST			0	0			Flash Flood
			Flooding was reported at the intersection of FM 40 and FM 1729.						
Lamb County									
Olton	19	0330CST			0	0	60K		Lightning
			Lightning struck a house and caused a fire, which totally destroyed the home and all its contents.						
Kent County									
2 NW Girard	20	0135CST 0800CST			0	0			Flash Flood
			The Sheriff's Office reported Highway 70 was flooded northwest of Girard.						
Castro County									
South Portion	21	1655CST 1830CST			0	0			Flash Flood
			The Highway Department reported flooding at Farm-to-Market Road 1055 and Highway 86 southwest of Dimmitt, as well as along Highway 385 10 miles south of Dimmitt.						
Bailey County									
4 SE Muleshoe	21	1740CST 1900CST			0	0			Flash Flood
Lamb County									
Countywide	21	1950CST 2200CST			0	0	100K		Flash Flood
			Flood waters in Littlefield (after 5 inches of rain fell) stranded cars and damaged several homes. Parts of US 84, US 385, and Highway 168 were closed.						
Bailey County									
Needmore	21	2050CST 2300CST			0	0			Flash Flood
			Five to six inches of rain fell in Needmore and caused extensive flooding.						
Yoakum County									
Denver City	22	0100CST 0300CST			0	0			Flash Flood
Cochran County									
5 E Morton	22	0105CST 0300CST			0	0			Flash Flood
Hockley County									
Countywide	22	0105CST 0330CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, South Panhandle</u>									
Lubbock County									
Countywide	22	0122CST 0600CST			0	0	2M		Flash Flood
									Several inches of rain across mainly the south part of Lubbock caused some of the worst flooding in recent memory. Over \$500,000 in damages occurred to flooded cars at one car dealership alone, while dozens of other vehicles were flooded and stranded. Most of the city's playa lakes were flooded, as were dozens of homes near the lakes and numerous city streets. Also, FM1585 and Highway 82 were flooded.
Cochran County									
Countywide	22	0330CST 0500CST			0	0			Flash Flood
									FM597 and Highway 114 (Morton to Whiteface) were flooded due to heavy rains.
Lynn County									
Tahoka	22	0330CST 0500CST			0	0			Flash Flood
									Highway 380 was flooded through Tahoka.
Hockley County									
2 NE Whitharral	24	1753CST			0	0			Hail (0.75)
Hockley County									
Levelland	24	1820CST			0	0	10K		Thunderstorm Wind
									Strong wind snapped several power poles.
Hockley County									
Ropesville	24	1840CST			0	0	50K		Thunderstorm Wind
									Strong wind snapped several power poles and toppled a tower.
Hockley County									
Levelland	24	1900CST 2000CST			0	0			Flash Flood
									Several roads were reported flooded in town.
Lubbock County									
Lubbock	24	1900CST 2000CST			0	0			Flash Flood
									Several roads were flooded and subsequently closed in town.
Yoakum County									
Denver City	24	2019CST			0	0	10K		Thunderstorm Wind
									Strong wind blew down trees, signs and a large shed.
Yoakum County									
Denver City	24	2020CST			0	0	100K		Thunderstorm Wind
									Strong wind removed portions of the roof of the Denver City post office and damaged the community center.
<u>TEXAS, Southeast</u>									
Orange County									
Orange	25	1230CST			0	0	10K		Flash Flood
									Highway 87 in Orange was closed due to high water. Doppler radar estimated between 5 and 6 inches of rain fell in less than two hours.
Jasper County									
Buna	25	1230CST			0	0	5K		Flash Flood
									Between five and seven inches of rain fell in less than two hours, resulting in significant street flooding in Buna.
<u>TEXAS, West</u>									
Winkler County									
(Ink)Winkler Co Arpt	04	1655CST			0	0			Hail (1.25)
Winkler County									
Kermit	04	1700CST			0	0			Hail (1.00)
									This storm developed on the dryline near the Loving/Winkler County line. It moved to the east following State Highway 302. The storm weakened after leaving Kermit.
Pecos County									
15 E Ft Stockton	05	1530CST			0	0			Hail (1.75)
Pecos County									
2 N Bakersfield	05	1610CST			0	0			Hail (1.75)
Pecos County									
5 NE Bakersfield	05	1618CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Pecos County									
5 E Bakersfield	05	1704CST			0	0			Hail (1.75)
Pecos County									
15 SE Bakersfield	05	1902CST			0	0			Hail (0.75)
Pecos County									
Sheffield	05	2000CST 2010CST			0	0	1.8M		Hail (4.00)
Pecos County									
Sheffield	05	2000CST 2010CST			0	0			Thunderstorm Wind (G52)
<p>This supercell storm was active for over 4 hours in Pecos County alone while travelling parallel to I-10. The intense rotating updraft collapsed over Sheffield sending grapefruit hailstones in 60+ mph outflow winds. Almost every north and west facing windows were broken in town. The hailstones also knocked holes in wood siding of some houses. Power lines were knocked down, and power was out for about 6 hours.</p>									
Terrell County									
Sanderson	06	1635CST			0	0			Hail (1.75)
<p>Storm Developed in eastern Brewster County and moved to the north then merged with a multicell line.</p>									
Winkler County									
9 W Kermit	06	1655CST 1703CST			0	0			Hail (1.75)
<p>Left-split storm that moved north and quickly became multicell.</p>									
Andrews County									
10 N Andrews	06	1810CST			0	0			Hail (0.75)
<p>Multicell storm developed along an outflow boundary and was briefly severe.</p>									
Brewster County									
23 N Panther Junction	06	1830CST			0	0	1K		Hail (1.25)
<p>Supercell storm moved to the southeast across Brewster County, mostly in open country. The hail hit the Persimmon Gap Visitor's Center at Big Bend National Park where it broke windows and dented an air conditioning hood. The storm continued to the Rio Grande where 1/2 inch hail covered the ground.</p>									
Jeff Davis County									
16 NW Ft Davis	07	1535CST			0	0			Hail (1.00)
<p>Strong cell amongst many that developed in the Davis Mountains.</p>									
Brewster County									
Alpine	07	1542CST 1610CST			0	0			Hail (1.00)
<p>Cell developed on south flank of storms in Davis Mountains.</p>									
Brewster County									
7 S Alpine	07	1625CST			0	0			Hail (0.75)
<p>The Alpine cell moved slowly south.</p>									
Brewster County									
25 S Alpine	07	1900CST 2100CST			0	0			Flash Flood
<p>The cluster from northern Brewster and Presidio Counties continued to move slowly south-southeast into the central and southern parts of Brewster County. Flash flooding was reported at the Elephant Mountains Wildlife Management Area.</p>									
Brewster County									
11 NE Study Butte	07	1959CST			0	0			Hail (0.75)
<p>Strong cell in a large area of precipitation that briefly produced dime-size hail. Storms developed in the mountainous areas and generally moved to the south. A large area of precipitation developed in the Rio Grande drainage basin and caused the river to rise to near bankfull stage north of Presidio.</p>									
Reeves County									
Balmorhea	08	2015MST 2300MST			0	0			Flash Flood
<p>Rain from a series of storms added to cause minor flooding in Balmorhea. An upper level disturbance helped to organize storms over southwest Texas, but before the disturbance passed through, several storms moved over southern Reeves County. The storms eventually formed into a line that stretched north into eastern New Mexico.</p>									
Andrews County									
10 S Andrews	09	1950CST 2001CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Andrews County									
2 SE Andrews	09	1958CST 2008CST			0	0			Hail (1.00)
Andrews County									
Andrews Co Arpt	09	2012CST 2020CST			0	0			Hail (1.00)
Midland County									
Midland	09	2225CST 2355CST			0	0			Flash Flood
Flooding over the curb was reported on Midkiff at I-20. Afternoon thunderstorms developed late in the day and formed a line from Fort Davis to near Monahans, and slowly moved northeast. The 06/10/99 00z upper air sounding at Midland indicated the atmosphere was very unstable. The Permian Basin was in the front left quadrant of the jet stream with an approaching weak upper level disturbance, but the atmosphere lacked the wind shear necessary for supercell storm development. By evening, some of the storms had become severe producing several one inch hail reports and one flash flood event.									
Winkler County									
4 NW Wink	10	1818CST			0	0			Hail (0.75)
An intense single cell storm that moved eastward across the county but weakened quickly before crossing into Ector County.									
Scurry County									
Snyder	10	2310CST 2325CST			0	0	4M		Hail (1.75)
Hail fell from the southern end of a multicell cluster moving east across Scurry County. Numerous cars and roofs were damaged from 24th Street to 44th Street.									
Scurry County									
12 N Snyder	10	2310CST			0	0	1K		Thunderstorm Wind
Scurry County									
3 SW Hermleigh	10	2330CST			0	0	1K		Thunderstorm Wind
Scurry County									
Pyron	10	2342CST			0	0	6K		Thunderstorm Wind
Widely scattered thunderstorms developed over Pecos, Reeves, Winkler, and Howard Counties in the late afternoon, but by 830 pm CDT all storms were dying rapidly. However, strong to severe storms in the Texas South Plains moved southward into Scurry County by 1030 pm. This multicell cluster became disorganized, but put out an outflow boundary that helped a new cluster to form. This cluster moved east and with localized downbursts that took down some utility poles to the north and southeast of Snyder. After moving east of Snyder the cluster became outflow dominated and the hail threat diminished, whereas the isolated damaging winds continued.									
Reeves County									
2 E Saragosa	11	1423CST			0	0			Hail (1.00)
Storm formed in the Davis Mountains and moved to the east.									
Reeves County									
7 S Saragosa	11	1535CST 1555CST			0	0			Hail (1.50)
Storm formed in the Davis Mountains as well and moved over the same area.									
Reeves County									
South Portion	11	1620CST 1800CST			0	0			Flash Flood
The two storms that travelled over the same areas dumped copious amounts of rainfall with large areas of lowland flooding reported along I-10.									
Pecos County									
26 SW Ft Stockton	11	1915CST			0	0			Hail (0.75)
Storm proceeded to move to the southeast.									
Pecos County									
40 S Ft Stockton	11	1952CST			0	0			Hail (1.75)
Last report on this storm. Several thunderstorm cells formed in the Davis Mountains with the ones that moved to the east becoming strong to severe.									
Andrews County									
17 NW Frankel City	11	1725CST			0	0			Hail (2.25)
The left-split cell of a storm that formed over Loving County, TX, moved to the northeast into southern Lea County, NM. The storm continued to the northeast, just missing Eunice, then dropped more hail in the northwest corner of Andrews County, TX. The storm quickly weakened after moving into Gaines County.									

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Borden County 13 NW Gail	11	1945CST			0	0	1K		Thunderstorm Wind
									Utility lines knocked down in the Mesquite community.
Borden County North Portion	11	1955CST 2200CST			0	0			Flash Flood
									Roads were covered with flooding waters including a foot of water running across FM 1054.
Scurry County Fluvanna	11	2000CST			0	0			Hail (0.75)
Scurry County Fluvanna	11	2000CST			0	0	30K		Thunderstorm Wind
									Rear-flank downdraft winds blew a car off the road and blew down 40 utility poles near Fluvanna. Five Hundred customers lost power with some power outages lasting until 5:30 Sunday morning (over 32 hours).
Borden County 2 E Lake J B Thomas	11	2015CST			0	0	30K		Thunderstorm Wind
									Scattered thunderstorm wind damage occurred near Lake Thomas that included roofs blown off two carports and a lake pumphouse, a travel trailer overturned, and 15 utility poles broken. The winds were associated with the RFD winds that hit the Mesquite area.
Scurry County Countywide	11 12	2030CST 1400CST			1	0	50K		Flash Flood
									A major flood and flash flood event occurred on the Friday night, June 11 and into Saturday afternoon, June 12. Four separate thunderstorm cells/complexes moved over Scurry County between 9pm and 2:15 am CDT Friday night with the first initial flooding report at 9:30pm west of Snyder on Highway 180. Rain totals of 5-7 inches were common across northern Scurry County, and heavy rains from the night of the 10th contributed to the flooding as well.
									At about 1:45 am, the Department of Public Safety reported water starting to flow over U.S. 84 between Snyder and Dermott. One more bout of heavy rain crossed over this area for the next half hour, then the storms moved off to the east.
									Department of Transportation personnel were waving at people attempting to keep them from entering the flood waters, but the drivers were not heeding this warning. A 48-year-old woman from Dallas, TX and her parents were in her sedan driving to the northwest on U.S. Highway 84 between Snyder and Dermott. At 2:47 am they entered the flooded waters 8.1 miles northwest of Snyder. The rushing waters were 2-3 feet deep running across the highway from Northeast to southwest. The car was pushed from the left lane into the center median that separates the northbound and southbound traffic of this four lane highway. The car disappeared into the waters in the median. The parents of the woman were rescued by a man in a following vehicle, but the woman could not be saved. Waters continued to rise for a short while later. Flooding on the highway receded about 5am. This highway was closed from Roscoe to Post until 11:15 am.
									Later in the morning more showers developed in Scurry County that caused additional minor flooding and thunderstorms developed in the afternoon in Dawson and Borden Counties that moved across the southern parts of Scurry County as well. Flash flooding was popping up for an extended period of time in several sections of the county.
									Deep Creek was above flood stage in the city of Snyder, cresting at 15.5 feet on Saturday morning, 4.5 feet above flood stage. One business and one house were flooded by rising waters. The running water also broke apart some asphalt on 26th St., and some bridges in town were flooded.
									F48VE
Scurry County 8 W Snyder	11	2030CST			0	0			Hail (0.75)
									The Fluvanna storm moved to the southeast.
Scurry County 8 SW Snyder	11	2105CST			0	0			Hail (1.75)
Scurry County 4 S Snyder	11	2110CST			0	0			Hail (0.75)
Scurry County 5 SE Snyder	11	2129CST			0	0			Hail (1.75)
Scurry County Dunn	11	2145CST			0	0	600K		Hail (2.75)
									Hail up to baseball size pounded the countryside near Dunn. Cars and houses suffered extensive damage in the area. Holes were knocked in vinyl siding.
									The events of this day ranged from a couple of small events in the western and southwestern parts of the region to one huge event in

Storm Data and Unusual Weather Phenomena

June 1999

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

TEXAS, West

the northeastern sections (mostly in Scurry County). A storm that developed on the Texas South Plains became a supercell in Lynn County, TX (see Lubbock section of this publication) after crossing a surface boundary that stretched from Big Spring to west of Tahoka. This monstrous storm turned right and headed into northwestern Borden County and eventually into Scurry County. As it entered Borden County it collided with smaller thunderstorm cells resulting in less organization over all. The structure still held together enough to cause large hail near the updraft and damaging winds on the rear-flank downdraft.

Other cells formed on flanks of this storm and on the original boundary allowing parts of Scurry County to get pounded several times overnight leading to Flash Flooding and River Flooding. Benefits of the heavy rains were that Lake J.B. Thomas rose 15 feet during the event, from 4% capacity to 20% capacity. The last time the lake was this high was in 1994.

Upton County

North Portion

12	1700CST 1900CST			0	0				Flash Flood
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Flash flooding rains washed out portions of FM 2401 and FM 2594.

Upton County

13 N Rankin

12	1700CST			0	0				Hail (0.75)
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Multicell storm that formed along an old outflow boundary.

Upton County

13 N Rankin

12	1725CST			0	0				Thunderstorm Wind (G61)
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Outflow winds from same storm.

Pecos County

Southwest Portion

14	1100CST 1500CST			0	0				Flash Flood
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After several heavy rain events in the Hovey area, heavy rains once again pounded the Hovey area causing flash flooding over an extensive area west of U.S. Highway 67 in Pecos County. These waters eventually flowed into Coyanosa Draw causing it to flood.

TXZ058-075

Reeves County And Upper Trans Pecos - Pecos

14	1500CST			0	0				Flood
15	1600CST								

The flooding waters from the Hovey area worked their way down Coyanosa Draw toward the Pecos River. One rain report from over the weekend was 10.65" of rain measured 1 mile northwest of Hovey. By 630 pm CDT the flow under the I-10 bridge had risen to an estimated 15 feet in depth, while at the U.S. 285 crossing the normal 2 foot depth was occurring. By 730 pm the Highway 285 crossing was 6 feet deep and by 930 pm was flooding the highway with one foot of water. This flooding continued until approximately 230 am. The width of this flooding across the highway was about 1500-2000 feet.

This flood wave worked its way to the north toward the Pecos River and caused flash flooding on FM 1450 and FM 1776.

When the flood wave crested along FM 1450 there was flooding for a 5-6 mile stretch. A few miles north of FM 1450 the waters ran into the Pecos River.

Pecos County

Northwest Portion

15	0900CST 1300CST			0	0				Flash Flood
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Reeves County

East Portion

15	0900CST 1300CST			0	0				Flash Flood
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Flash flooding occurred on FM 1776 and FM 1450 with waters rising to 2.5 feet deep in several places. Eventually the flooding became more generalized as the Coyanosa flood wave began to crest.

Ward County

8 W Pyote

18	1945CST			0	0				Hail (1.00)
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A hailstorm that sat over I-20 in Ward County coated the highway with ice. An 18-wheeler truck overturned on the slick highway near Mile Marker 58.

Howard County

Big Spring

19	1655CST			0	0	1K			Thunderstorm Wind
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Outflow winds damaged the roof of a house.

Howard County

Coahoma

19	1704CST			0	0	1K			Thunderstorm Wind
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Outflow winds knocked down at least one utility pole.

A W-E oriented multicell cluster moved north into the area where brief downbursts caused minor damage.

Ector County

North Portion

19	1930CST 2100CST			0	0				Flash Flood
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Heavy rains covered most of northern and western Ector County. Four feet of water ran across Highway 158 between Goldsmith and Gardendale. Rainfall estimates were in the 2-3 inch range.

Storm Data and Unusual Weather Phenomena

June 1999

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

TEXAS, West

Martin County

Central Portion	19	1945CST 2200CST			0	0			Flash Flood
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Martin County

North Portion	19	2000CST 2300CST			0	0			Flash Flood
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These two areas in Martin County both started as multicell clusters, but eventually became part of the MCS that engulfed parts of the Permian Basin. FM 829 near Grady became impassable. Water covered State Highway 349 for a 4-mile stretch just south of the Dawson County line. Both location totalled about 3-4 inches of rain.

Midland County

2 N Midland	19	2045CST 2300CST			0	0	20K		Flash Flood
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The worst flooding in years to strike Midland occurred on this evening as heavy rains swelled Scharbauer Draw out of its banks and into busy roadways. Numerous vehicles were stalled and several people were rescued from the high, fast water. Fortunately no injuries resulted, and almost all of the damage was water damage to vehicles. Some vehicles were almost completely submerged. A diffluent flow in the upper levels, a very tropical air mass in the lower and mid levels, and weak mid-level steering winds all contributed for a flash flood evening in the Permian Basin. Early convection started as several pockets of multicell storms, but later all of the storms formed into an MCS that marched slowly to the east. A cyclonic circulation developed within the MCS that allowed the southern convection to move fairly quickly to the east, whereas in the comma head of this rotation little eastward progress was made. In parts of Martin County the stratiform precipitation was continuous for over 4 hours.

This day saw an air mass rich in tropical moisture with a weak cap. Deep convection started in the late morning. Storms were generally outflow dominated in the afternoon and sent out numerous outflow boundaries. Some of these boundaries may have served as a focus for the organized development later in the evening.

Reeves County

Orla	22	0001CST 0300CST			0	0			Flash Flood
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An upper level disturbance interacted with copious amounts of Pacific moisture from Hurricane Adrian, located south of Baja Mexico, to produce late evening thunderstorms in Southeast New Mexico. These storms moved south from Eddy county into Reeves county and dropped very heavy rain near Orla. Radar indicated rainfall rates of 2 inches per hour. High water was reported in Orla just after midnight CST, with a car caught in rising water at FM 652 and County road 457 twenty minutes later. The occupants were rescued.

Ector County

Pleasant Farms	30	1655CST 1725CST			0	0			Hail (2.75)
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Towering cumulus clouds developed during the late afternoon along an outflow boundary from previous days convection. Shortly after the surface temperature reached the convective temperature, a thunderstorm exploded along this boundary. The storm moved little, and continued to drop large hail along the Ector/Crane county line for over 20 minutes. Hail reports ranged from golfball, to peach, to baseball size.

TEXAS, Western North

Knox County

Knox City	06	0820CST			0	0			Thunderstorm Wind (G69)
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Knox County

3 E Knox City	06	0835CST			0	0			Thunderstorm Wind (G56)
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Baylor County

Red Spgs	06	0910CST			0	0			Thunderstorm Wind (G52)
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Archer County

2 SE Holliday	06	0955CST			0	0			Thunderstorm Wind (G64)
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Clay County

Lake Arrowhead	06	1015CST			0	0			Thunderstorm Wind (G52)
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Wichita County

Wichita Falls	10	1700CST			0	0	10K		Flash Flood
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Wilbarger County

7 W Lockett	10	1715CST			0	0	2K		Thunderstorm Wind
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Knox County

Knox City	10	1825CST			0	0			Thunderstorm Wind (G56)
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Archer County

8 W Mankins	10	1843CST			0	0			Hail (0.88)
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Isolated severe thunderstorms which formed over portions of western north Texas, caused street flooding in Wichita Falls in Wichita County. Also in Wichita Falls, numerous vehicles were flooded, and many roads were closed due to high water, while in Wilbarger

Storm Data and Unusual Weather Phenomena

June 1999

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

TEXAS, Western North

County, 7 miles west of Lockett, a liquor store received some roof damage.

Clay County Stanfield	19	1645CST			0	0	30K		Thunderstorm Wind
Clay County 2 S Dean	19	1655CST			0	0	0.10K		Thunderstorm Wind
Foard County 2 N Crowell	19	1700CST			0	0	6K		Lightning
Foard County Crowell	19	2047CST			0	0			Thunderstorm Wind (G61)
Foard County Margaret	19	2100CST			0	0	10K		Flash Flood

Several severe thunderstorms formed over western north Texas during the late afternoon and evening of the 19th. Two 45-foot grain silos, filled to capacity, were reported to have been blown over in Stanfield in Clay County, while also in Clay County, 2 miles south of Dean, a 15-foot tall, 10-inch diameter tree was blown over onto Highway 2393. Lightning struck and killed 4 cows, 2 miles north of Crowell in Foard County, and a tree was struck by lightning at the Clay County Courthouse in Henrietta in Clay County. One house was damaged by water in Margaret in Foard County when a nearby drainage ditch overflowed with water.

Clay County Henrietta	25	2000CST			0	0	0.01K		Lightning
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Lightning struck a large tree at the Clay County Courthouse.

UTAH, East

UTZ028

La Sal & Abajo Mountains

02	1300MST			0	0				High Wind (G50)
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Strong winds associated with an approaching cold front blew a power line off an insulator, causing the wire to burn. This resulted in a power outage to over 130 customers for nearly three hours.

San Juan County

15 W Monticello to 7 W Monticello	16	1100MST 1600MST			0	0			Wild/Forest Fire
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Numerous lightning strikes ignited about 25 forest fires in the Blue Mountains, also known as the Abajo Mountains.

Grand County

7 NNE Westwater	20	1930MST			0	0			Wild/Forest Fire
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A lightning strike ignited trees and brush just south of Interstate 70 near the Colorado border.

Grand County

9 NNE Westwater to 10 NNE Westwater	20	2000MST			0	0			Wild/Forest Fire
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Lightning ignited a fire about one mile north of Interstate 70 near the Colorado border. The ensuing blaze consumed 35 acres of trees and brush.

Grand County

5 SSE Westwater	21	1500MST			0	0			Wild/Forest Fire
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Lightning ignited a brush fire which consumed four acres near the Little Dolores River.

UTAH, West and Central

NONE REPORTED.

VERMONT, North and Central

Franklin County

Highgate Falls	06	1405EST			0	0			Tstm Wind/Hail
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A weak trough of low pressure moved across Vermont Sunday evening. Scattered showers and thunderstorms developed along and ahead of this trough. Pea size hail and locally heavy rain occurred with these storms in the Vermont town of Highgate Falls in Franklin county.

Washington

Montpelier	06	1825EST			0	1			Lightning
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A weak trough of low pressure moved across Vermont Sunday evening. Scattered showers and thunderstorms developed along and ahead of this trough. A bolt of lightning struck the ground very close to a lady in the Montpelier, Vermont area. She went to the hospital and was treated for associated injuries.

Storm Data and Unusual Weather Phenomena

June 1999

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

VERMONT, South

VTZ013>014

Bennington - Windham

07	1200EST 1700EST			0	0			Excessive Heat
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The season's second Bermuda High brought the first 90 degree weather of 1999 on June 7 to portions of Southern Vermont. At the Albany International Airport it was the first official 90 degree temperature since August 16, 1997. The temperature did not stop there, but soared all the way to 95 degrees. This value tied the daily record for the date last set in 1925. The combination of heat and humidity produced heat indices as high as 100 degrees across the southern Greens. There were no unusual problems or power outages reported due to the excessive heat.

VIRGIN ISLANDS

St. Thomas

St. Thomas

07	0615AST 0630AST			0	0			Waterspout
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Virgin Islands Radio indicated several waterspouts four to five miles north of St. Thomas.

St. Croix County

St. Croix

12	2130AST 2200AST			0	0			Thunderstorm Wind (G50)
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A spotter indicated wind gust up to 58 mph from a thunderstorm at Maria Hill.

VIRGINIA, East

Hanover County

3 N Studley

29	1520EST			0	0	3K		Thunderstorm Wind
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Numerous trees down on Route 605.

VIRGINIA, Extreme Southwest

Washington

Countywide

09	1655EST			0	0	20K		Thunderstorm Wind
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Trees down mainly in southwest part of county.

VIRGINIA, North

VAZ021-025>031-

Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson -

01	0000EST			0	0			Drought
30	2359EST							

High pressure was the dominant weather feature across Northern Virginia during the month. This weather pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. By the last week of June, the Palmer Drought Index, a measure of long term drought conditions, indicated Northern Virginia was in a severe drought. June was the 8th month in the past 12 months that precipitation was below normal. From July 1998 through June 1999 precipitation was a staggering 15 inches below average, the 3rd driest 12 months on record. Only 3.00 inches of rain fell at Dulles International Airport during the month of June, 0.92 inches below normal. Reagan National Airport in Arlington reported a monthly total of 2.26 inches, 1.12 inches below normal. Measurable rain only fell on 8 days during the month, with 1.32 inches of the total falling on the 14th. Additional June rainfall totals included Frederick County at 2.2 inches, Shenandoah and Madison County at 1.0 inches, Warren County at 1.4 inches, Rockingham at 0.7 inches, Page County at 1.6 inches, Clark County at 1.9 inches, Orange and Nelson County at 0.8 inches, Augusta and Fauquier County at 1.3 inches, Highland County at only 0.4 inches, Culpeper County at 1.6 inches, Rappahannock County at 1.1 inches, Loudoun County at 2.3 inches, and Fairfax County at 2.5 inches.

The lack of rainfall affected water levels along the Potomac River, the main water source for extreme Northern Virginia. The flow of water past Washington D.C. hovered around 18% of average, and many new record low daily flows were recorded in upstream tributaries of the river. Unusually high proportions of river flow, 33%, were diverted out of the Potomac River into public water supplies during the month. The normal diversion rate is about 5%. Monthly flow rates of the Potomac River have been below average for the last 10 months. Flows in the Potomac, Shenandoah, and Rappahannock basins, were equal to or slightly below minimum June daily mean flow values recorded during the 1980-82 drought. Many gaging stations reported streamflow at or below the 90 percent exceedence, and a few reported streamflow values at or below the 95th percentile. New daily low flows were set on the North Fork of the Shenandoah at both Cootes Store and Strasburg. Streamflow of the Rappahannock River at Fredericksburg was only 14% of normal. Streamflow of the Rapidan River at Culpeper was only 20% of normal. Fish kills were reported on the North Fork and main Stem of the Shenandoah River from the buildup of algae and low water levels. The volume of water entering the Occoquan Reservoir was the smallest since record keeping began 71 years ago. With such low water tables, the cities of Fredericksburg, Waynesboro, Winchester, and Berryville, and Frederick and Shenandoah Counties were forced to start voluntary water restrictions. The community of Round Hill in Loudoun County instituted mandatory water restrictions because their reservoir dipped below half of its 200,000 gallon capacity. Warren County considered seeking federal assistance through a drought emergency. The community of High Knob was without water by the 17th. The Ni River Reservoir, main water source for Spotsylvania County, dipped 16 inches below full by mid month. Beaverdam Reservoir in Loudoun County was half full, still recovering from being drained to keep the Goose Creek Reservoir full.

The lack of precipitation also continued to beat down crops and pastureland. Watering holes and irrigation sources continued to dry

Storm Data and Unusual Weather Phenomena

June 1999

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

VIRGINIA, North

up, forcing many farmers to carry water to livestock. 68% of pasture land and 63% of hay across the state was reported in poor or very poor condition. Hay producers reported less than half of their normal yields from their second cutting. 78% of topsoil was reported as short or very short of moisture by the end of the month. Some farmers had to reduce their herd sizes in order to stretch hay and water supplies. Corn crops were cut by 25% and were 12 to 14 inches shorter than normal. The alfalfa crop was cut by 30%. Soil evaporation loss per day averaged around 0.3 inches. In addition to agricultural lands, forest and rural vegetation was also dangerously dry. Many small fires were reported, starting from causes as unusual as a car backfiring or an overheated tractor.

VAZ021-025>031- Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson -

07	0800EST	0	12	Unseasonably Warm
09	2000EST			

High pressure centered over the Southeast U.S. caused air to downslope over the Appalachian Mountains, sending afternoon temperatures into the upper 90s to lower 100s. The heat, in combination with very humid air, resulted in afternoon heat indices between 100 and 100 degrees. Record high temperatures were set at Washington Reagan National Airport and Dulles International Airport on the 7th and 8th. High temperatures on the 7th included 96 degrees at Dulles Airport, 98 degrees at National Airport, 95 degrees at Culpeper, 96 degrees at Locust Grove in Orange County, 94 degrees at Winchester, and 95 degrees at Woodstock in Shenandoah County. Highs on the 8th included 95 degrees at Dulles Airport, 98 degrees at National Airport, 102 degrees at Fredericksburg, 100 degrees at Fort Belvoir, and 98 degrees at Staunton. High temperatures on the 9th included 96 degrees at Dulles Airport, 98 degrees at National Airport, 99 degrees at Culpeper, Fredericksburg and Front Royal, 96 degrees at Locust Grove, 100 degrees at Sperryville in Rappahannock County, 97 degrees at Staunton, and 98 degrees at Winchester. Nighttime lows only dipped into the 70s, making the overnight hours very uncomfortable for those without air conditioning. As a result of the heat, a pollution alert was issued for the Washington D.C. metropolitan area on the 7th. Schools without air conditioning in the city of Warren, Prince William County, and the Virginia suburbs of D.C. cancelled classes or let out early on the 8th and 9th. The University of Virginia Medical Center in Charlottesville reported treating 12 patients for heat related illnesses ranging from heat exhaustion and sunburn to two cases of heat stroke. The heat also put a strain on area resources. Several locations reported near record water and energy consumption during the period.

Highland County

Trimble

10	1500EST	0	0	Hail (0.75)
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A stalled front and very humid air were contributing factors in the rapid development of an area of thunderstorms on the eastern edge of the Appalachian Mountains. One part of this thunderstorm complex moved in a northwest direction across Highland County between 3:45 PM and 4:30 PM EDT. This storm produced heavy downpours and large hail. An observer near Trimble reported 3/4 inch diameter hail around 4:00 PM EDT.

Fairfax County

Oakton

14	1530EST	0	0	50K	Thunderstorm Wind
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Damage to high school press box, shed, and athletic equipment. Several trees downed in vicinity.

Arlington County

Arlington

14	1605EST	0	0	8K	Thunderstorm Wind
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Trees downed on homes and power lines, concentrated in the Glebe Road area

Alexandria (C)

Alexandria

14	1610EST	0	0	5K	Thunderstorm Wind
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Trees and power lines downed

Falls Church (C)

Falls Church

14	1610EST	0	0	5K	Thunderstorm Wind
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Trees and power lines downed

Arlington County

Arlington

14	1617EST	0	0	Thunderstorm Wind (G52)
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Wind gust to 60 MPH at Reagan National Airport

An area of showers and thunderstorms moved across Northern Virginia between 4:20 PM and 5:15 PM EDT. The strongest of these storms moved across Fairfax and Arlington Counties, producing severe wind gusts, small hail, frequent lightning, and very heavy downpours. A localized area in Oakton, north of Interstate 66 and south of Courthouse Road and Oleander Avenue, received a microburst of wind over 70 MPH. The severe wind blew off the press box, damaged fences, equipment shelters, batting cages, and blew over goal posts at an athletic field at Oakton High School. Several trees and a shed on school property were also damaged. A couple of nearby houses lost a significant number of shingles, and one home had a window shutter blown off and an antenna bent. This storm moved into Eastern Fairfax County, the cities of Falls Church and Alexandria, and into Arlington County and downed several trees and power lines. One tree fell on an apartment complex on North Glebe Road and displaced several residents. Another tree brought down wires at Route 50 and Gallows Road, disrupting rush hour traffic. From 5:00 PM to 7:00 PM EDT, 1.3 inches of rain was reported. The downpours and clogged storm drains led to high water across the westbound lanes of Interstate 66 between the Roosevelt Bridge and Glebe Road, forcing authorities to reroute traffic. Around 22,000 customers across Northern Virginia lost power as a direct result of the storm.

VIRGINIA, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

June 1999

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

VIRGINIA, Southwest

VAZ007-009>020- Tazewell - Smyth - Bland - Giles - Wythe - Pulaski - Montgomery - Grayson - Carroll - Floyd -
01 0000EST 0 0 Drought
30 2359EST

Dry conditions that began in July of 1998, subsided for several months during the later part of 1998 and the first part of 1999, returned in June of 1999. June rainfall amounts were mainly about half of what normally falls. In many areas, crops were damaged or destroyed. Water levels in creeks, streams, and rivers were very low. Carvins Cove reservoir, the water supply for Roanoke City, was near a record low of 23 feet below capacity near the end of the month. Portions of the upper James and upper Roanoke river basins reached new record low flow levels for the month of June. Some creeks and wells temporarily dried up.

Lexington (C)

Lexington 02 1615EST 0 0 5K Thunderstorm Wind
 Thunderstorms during the afternoon of the 2nd produced damaging winds, downing trees and large tree limbs. One tree fell onto a house, destroying the chimney and punching holes into the roof.

Bath County

Millboro 10 1610EST 0 0 Hail (0.75)
 Thunderstorms on the afternoon of the 10th produced up to dime size hail.

WASHINGTON, Northeast

Garfield County

Dodge 15 1745PST 0 0 5K 10K Hail (0.75)
1800PST

Okanogan County

Mazama 16 0600PST 0 0 40K Flood
17 1800PST

The stage on the Methow rose to 10.5" at Pateros(above flood stage) which led to flood ing along the Methow River. Two yards were flooded along with a basement due to this high water event.

Spokane County

Spokane 24 1800PST 0 0 5K Heavy Rain
25 0600PST
 Over 1.25" of rain fell in a 12 hour period in Spokane and Deer Park.

Ferry County

Barstow 24 1900PST 0 0 5K Heavy Rain
25 0700PST
 Over 1.50"of rain fell in a 12 hour period in Barstow and Republic.

Stevens County

Colville 24 1900PST 0 0 5K Heavy Rain
25 0700PST
 Over 1.75" of rain fell in a 12 hour period.

Pend Oreille

Newport 24 2000PST 0 0 5K Heavy Rain
25 0800PST
 Over 1.35"of rain fell in a 12 hour period.

WASHINGTON, Northwest

King County

North City 01 1300PST 0 0 Lightning
 Lightning struck a tree and damaged about 50 windows in an apartment complex.

WASHINGTON, Southeast

NONE REPORTED.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

WVZ048>055 Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy
01 0000EST 0 0 Drought
30 2359EST

High pressure was the dominant weather feature across the Eastern Panhandle of West Virginia during the month. This weather

Storm Data and Unusual Weather Phenomena

June 1999

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

WEST VIRGINIA, East

pattern directed rain producing low pressure systems north of the region and continued the climatological drought that has gripped the area since last summer. The Palmer Drought Index, a measure of long term drought conditions, indicated the Eastern Panhandle was in an extreme drought by the end of the month. June was the 8th month in the past 12 months that precipitation was below normal. The region was a staggering 15 inches below average for precipitation during the period. Rainfall totals across the Eastern Panhandle during the month of June included 0.6 inches in Pendleton County, 0.8 inches in Grant County, 0.7 inches in Mineral County, 2.1 inches in Jefferson County, 1.1 inches in Hampshire County, and 2.3 inches in Morgan County. The lack of precipitation also continued to beat down crops and pastureland. Watering holes and irrigation sources continued to dry up, forcing many farmers to carry water to livestock. Hay producers reported less than half of their normal yields from their second cutting. By mid month, corn stalks that should have been waist high were only knee high. Area farmers reported most pastures were in poor to very poor condition and at least one third of the hay crop was in poor or very poor condition. More than half of topsoil was reported short or very short of moisture across the state.

WVZ048>055

Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy
07 0800EST 0 3 Unseasonably Warm
09 2000EST

High pressure centered over the Southeast U.S. caused air to downslope over the Appalachian Mountains, sending afternoon temperatures into the upper 90s to lower 100s. The heat, in combination with very humid air, resulted in afternoon heat indices between 100 and 110 degrees. A record high was recorded at the Eastern Region Airport on the 7th. High temperatures on the 7th included 97 degrees at Charles Town, 96 degrees at Keyser, 98 degrees at Moorefield, and 94 degrees at Martinsburg. Highs on the 8th included 97 degrees at Martinsburg and Charles Town, 94 degrees at Keyser and Berkeley Springs, and 97 degrees at Moorefield. Highs on the 9th included 96 degrees at Berkeley Springs and Wardensville, 97 degrees at Charles Town and Romney, 98 degrees at Keyser, 99 degrees at Moorefield, and 95 degrees at Petersburg, Sugar Grove, Martinsburg, and Mathias. Three students at Harpers Ferry Junior High who spent an hour on an athletic field during the afternoon of the 7th were treated at Jefferson Memorial Hospital for heat exhaustion.

WEST VIRGINIA, North

NONE REPORTED.

WEST VIRGINIA, Southeast

WVZ042>045

Mercer - Summers - Monroe - Greenbrier
01 0000EST 0 0 Drought
30 2359EST

Dry conditions that began in July of 1998, subsided for several months during the later part of 1998 and the first part of 1999, returned in June of 1999. June rainfall amounts were mainly about half of what normally falls. In many areas, crops were damaged or destroyed. Water levels in creeks, streams, and rivers were very low. Some creeks and wells temporarily dried up.

Monroe County

Wolf Creek 02 1330EST 0 0 0 Thunderstorm Wind
 Thunderstorms on the afternoon of the 2nd produced damaging winds, uprooting large trees.

WEST VIRGINIA, West

WVZ005>011-

Wayne - Cabell - Mason - Jackson - Wood - Pleasants - Tyler - Lincoln - Putnam - Kanawha -
01 0000EST 0 0 Drought
30 2300EST

The drought continued to spread and strengthen in West Virginia. Most counties saw a deterioration of stream flow and soil moisture during June. Small streams and small farm ponds began to go dry. June rains of only 1 to 2 inches were common. Summersville and Madison both observed less than an inch of rain for the entire month. It was the driest June on record for Beckley and the second driest June for Elkins. A heat wave sent maximum temperatures into the 90s for 8 consecutive days from the 6th through the 13th across the lowlands. On the 10th, Spencer, Hamlin, and Madison all reached 99 degrees. Charleston had 98 degrees, while Huntington saw 97.

Governor Underwood started a voluntary water conservation program for both citizens and businesses. On the 28th, he declared an agricultural state of emergency. Very few farmers had a second cutting of hay.

Wyoming County

Cyclone 02 1210EST 0 0 1K Thunderstorm Wind

Wyoming County

Glenfork 02 1215EST 0 0 1K Thunderstorm Wind

Wyoming County

Pineville to Mullens 02 1215EST 0 0 2K Thunderstorm Wind
1220EST

The state highway department reported trees or large branches down in a few locations across Wyoming County.

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WEST VIRGINIA, West</u>									
Harrison County									
Salem	11	1800EST			0	0	2K		Thunderstorm Wind
Numerous large tree branches were snapped off by the wind.									
<u>WISCONSIN, Extreme Southwest</u>									
NONE REPORTED.									
<u>WISCONSIN, Northeast</u>									
Vilas County									
Eagle River	05	0845CST			0	0			Thunderstorm Wind (G70)
A thunderstorm complex moved across northwest Wisconsin and into north-central Wisconsin during the morning hours, resulting in severe weather in Eagle River (Vilas county). Thunderstorm winds, estimated at 80 mph, downed about 15 trees on the west side of Eagle River. The trees ranged from 18 to 24 inches in diameter and landed on homes, cars and power lines. About 400 to 500 customers lost power during the storm, mostly from trees falling on power lines.									
Vilas County									
Winchester	05	1750CST			0	0			Thunderstorm Wind (G60)
Oneida County									
10 W Rhinelander	05	1815CST			0	0			Thunderstorm Wind (G60)
Oneida County									
Rhinelander	05	1825CST			0	0			Hail (1.00)
Oneida County									
6 NNE Three Lakes	05	1830CST			0	0	1.5K		Hail (1.50)
Oneida County									
Three Lakes	05	1832CST			0	0			Hail (2.00)
Vilas County									
3 S Eagle River to 8 E Eagle River	05	1835CST 1841CST			0	0	500K		Hail (3.00)
Lincoln County									
5 W Tomahawk	05	1846CST			0	0			Thunderstorm Wind (G55)
Marathon County									
5 W Little Chicago to Little Chicago	05	1900CST 1905CST			0	0			Funnel Cloud
Forest County									
Hiles	05	1912CST			0	0			Thunderstorm Wind (G70)
Oneida County									
Three Lakes	05	1924CST			0	0			Thunderstorm Wind (G60)
A warm front moved into Wisconsin from the southwest, interacting with very moist and unstable air over the state resulting in severe thunderstorms over north-central Wisconsin. Numerous trees and power lines were blown down across the area by winds gusting to around 70 mph and there were reports of large hail. Trees were reported down near Rhinelander (Oneida county) and in Winchester (Vilas county). Trees and power lines were down in Three Lakes (Oneida county) and large hail caused damage to a vehicle in that area. Large trees were down along state highway 32 in Hiles (Forest county). A funnel cloud near Little Chicago (Marathon county) was taped by a chase crew from a Wausau television station. The Eagle River area of Vilas county was particularly hard-hit by 2 to 3 inch diameter hail, causing nearly one-half million dollars in damage. One residence alone sustained \$60,000 in damage to cars and a home.									
Wood County									
Marshfield	05	2330CST			0	0	20K		Thunderstorm Wind
Wood County									
.5 S Vesper	05	2330CST			0	0	2K		Thunderstorm Wind
Wood County									
6 NW Wisconsin Rapids	05	2338CST			0	0			Lightning
Marathon County									
5 SW Mosinee	05	2345CST			0	0	1K		Thunderstorm Wind
Wood County									
Wisconsin Rapids	05	2345CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Marathon County 3 SSW Wausau	05	2353CST			0	0			Thunderstorm Wind (G50)
Marathon County Wausau	05	2356CST			0	0	61K		Thunderstorm Wind
Portage County 10 NW Stevens Pt	05	2356CST			0	0			Thunderstorm Wind (G50)
Marathon County Wausau	06	0001CST			0	0			Lightning
Wood County Milladore	06	0001CST			0	0			Thunderstorm Wind (G55)
Oneida County Rhineland	06	0030CST			0	0			Lightning
Langlade County Antigo	06	0037CST			0	0			Thunderstorm Wind (G52)
Shawano County Wittenberg	06	0040CST			0	0			Thunderstorm Wind (G50)
Menominee (C) Neopit	06	0050CST			0	0			Thunderstorm Wind (G50)
Door County 5 NE Sturgeon Bay	06	0211CST			0	0			Thunderstorm Wind (G50)
Surface moisture, cold air aloft and a weak surface boundary resulted in showers and thunderstorms over east-central Wisconsin. Three inches of dime size hail accumulated in Winchester (Winnebago county) with the strongest storm. Funnel clouds were spotted as the storm moved over Neenah (Winnebago county) and one of the funnels developed into a waterspout on Lake Winnebago, west of Brothertown (Calumet county).									
Wood County 1.5 NW Dexterville	06	1500CST			0	0			Thunderstorm Wind (G50)
Wood County Nasonville	06	1513CST			0	0			Funnel Cloud
Wood County Auburndale	06	1515CST			0	0			Thunderstorm Wind (G50)
Wood County Wisconsin Rapids	06	1515CST			0	0			Thunderstorm Wind (G50)
Wood County 1 SW Bethel	06	1530CST			0	0			Thunderstorm Wind (G50)
Waushara County 7 SSE Wautoma to 3 NE West Bloomfield	06	1537CST 1556CST			0	0	10K		Thunderstorm Wind
Winnebago 9 WNW Winneconne to Neenah	06	1556CST 1618CST			0	0	10K		Thunderstorm Wind
Marathon County Wausau to Mosinee	06	1559CST			0	0			Thunderstorm Wind (G55)
Portage County 2 N Stevens Pt	06	1600CST			0	0			Thunderstorm Wind (G50)
Calumet County Chilton	06	1610CST			0	0			Thunderstorm Wind (G50)
Outagamie County Hortonville	06	1613CST			0	0			Thunderstorm Wind (G52)
Waupaca County 5 W Waupaca	06	1615CST			0	0			Thunderstorm Wind (G50)
Outagamie County Appleton	06	1620CST			0	0	14K		Thunderstorm Wind (G52)
Outagamie County Darboy	06	1622CST			0	0			Thunderstorm Wind (G54)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Outagamie County									
Appleton	06	1625CST			0	0			Thunderstorm Wind (G57)
Calumet County									
2 NW Chilton	06	1630CST			0	0			Thunderstorm Wind (G50)
Langlade County									
Deerbrook	06	1630CST			0	0			Thunderstorm Wind (G50)
Langlade County									
Summit Lake	06	1630CST			0	0			Thunderstorm Wind (G50)
Waupaca County									
Clintonville	06	1634CST			0	0			Thunderstorm Wind (G62)
Outagamie County									
Darboy	06	1635CST			0	0			Thunderstorm Wind (G54)
Brown County									
Ashwaubenon	06	1645CST			0	0			Thunderstorm Wind (G50)
Brown County									
Ashwaubenon	06	1645CST			0	0			Thunderstorm Wind (G54)
Menominee (C)									
Neopit	06	1650CST			0	0			Thunderstorm Wind (G50)
Shawano County									
Belle Plaine	06	1653CST			0	0			Thunderstorm Wind (G50)
Shawano County									
4 SW Bonduel	06	1653CST			0	0			Thunderstorm Wind (G55)
Brown County									
5 S De Pere	06	1655CST			0	0			Thunderstorm Wind (G50)
Brown County									
Green Bay	06	1655CST			0	0			Thunderstorm Wind (G50)
Manitowoc									
Francis Creek	06	1655CST			0	0			Thunderstorm Wind (G55)
Manitowoc									
Manitowoc	06	1655CST			0	0			Thunderstorm Wind (G50)
Brown County									
3 NW Champion	06	1705CST			0	0			Thunderstorm Wind (G50)
Oconto County									
Gillett	06	1705CST			0	0			Thunderstorm Wind (G50)
Door County									
2 SSW Carlsville to 2 NNE Carlsville	06	1709CST			0	0			Thunderstorm Wind (G50)
Door County									
2 E Egg Harbor to 3 E Gills Rock	06	1709CST			0	0			Thunderstorm Wind (G55)
Door County									
Brussels to 3 SSE Brussels	06	1710CST			0	0			Thunderstorm Wind (G50)
Door County									
Valmy to Institute	06	1711CST			0	0			Thunderstorm Wind (G50)
Kewaunee County									
5 W Algoma	06	1713CST			0	0			Thunderstorm Wind (G60)
Kewaunee County									
2 NW Alaska	06	1718CST			0	0	50K		Thunderstorm Wind
Kewaunee County									
3 NW Algoma	06	1718CST			0	0	15K		Thunderstorm Wind
Brown County									
Green Bay	06	1725CST			0	0	100K		Lightning
Door County									
5 S Sturgeon Bay	06	1750CST			0	0			Thunderstorm Wind (G50)

Thunderstorms that developed in north-central Iowa on June 5 moved into central, and parts of east-central Wisconsin. High winds

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Northeast

from the storms downed power poles and wires, causing more than 20,000 customers to lose electrical service. Damage to ginseng crops and trees was reported in Wausau (Marathon county). Tree damage was also reported at Antigo (Langlade county), Wittenberg (Shawano county), Neopit (Menominee county) and Wisconsin Rapids (Wood county). About 40 trees were "snapped off like toothpicks" in Marshfield (Wood county). Lightning caused a fire in Rhinelander (Oneida county) that destroyed a house. Another strike blew an electrical meter off the side of a house in Wausau. Lightning also caused a fire that resulted in heavy damage to a barn filled with hay in the town of Sigel (Wood county).

Forest County

10 SE Crandon 08 1812CST 0 0 Hail (0.88)

Forest County

3 W Wabeno 08 1815CST 0 0 Hail (0.75)

Florence County

Long Lake 08 1905CST 0 0 Hail (0.75)

Thunderstorms developed across north-central Wisconsin in the vicinity of a stationary front. The storms dropped large hail near Crandon and Wabeno in Forest county and at Long Lake in Florence county.

Vilas County

1 NNE Eagle River 09 0950CST 0 1 Lightning

Lightning struck a woman while she fished from a boat on Yellow Birch Lake.

Oconto County

Lena 10 1502CST 0 0 Hail (1.75)

Winnebago

5 S Oshkosh 10 1604CST 0 0 Hail (1.00)

Winnebago

Oshkosh 10 1607CST 0 0 Lightning

Winnebago

Oshkosh 10 1610CST 0 0 Thunderstorm Wind (G50)

Winnebago

Neenah 10 1633CST 0 0 Lightning

Outagamie County

Little Chute 10 1640CST 0 0 Thunderstorm Wind (G50)

Outagamie County

3 NW Appleton to
Appleton 10 1712CST
1815CST 0 0 Urban/Sml Stream Fld

Waushara County

3 W Wautoma to
.5 SW Wautoma 10 1741CST
1751CST 0 0 Thunderstorm Wind (G50)

Winnebago

Menasha to
Oshkosh 10 1752CST
1840CST 0 0 Urban/Sml Stream Fld

Waushara County

Wautoma 10 1810CST
1850CST 0 0 Urban/Sml Stream Fld

Thunderstorms with damaging winds, heavy rains and hail struck northeast Wisconsin during the evening. Winds downed trees in Oshkosh (Winnebago county) and near Wautoma (Waushara county) and knocked down power lines in Little Chute (Outagamie county). Lightning knocked trees onto power lines in Oshkosh, causing 3,500 customers to lose electrical service. Lightning caused a fire that damaged a business in Neenah (Winnebago county). Heavy rain caused street flooding from the Appleton area (Outagamie county) south into Neenah, Menasha (Winnebago county) and Oshkosh. Water was 3 to 4 feet deep in the streets of Neenah and Menasha. There was also some street flooding in Wautoma.

Outagamie County

7 W Appleton 11 1355CST 0 0 Hail (0.88)

Winnebago

Oshkosh 11 1405CST 0 0 Hail (0.88)

Winnebago

Zittau 11 1440CST 0 0 1K Lightning

The combination of a stationary front across Wisconsin and an unstable atmosphere led to the development of thunderstorms. Large hail fell as the storms passed through Winnebago and Outagamie counties. Lightning destroyed a shed in Zittau (Winnebago county).

WIZ005-010>013-

Vilas - Oneida - Forest - Florence - Marinette - Lincoln - Langlade - Menominee - Oconto -

14 2100CST 0 0 Cold
15 0700CST

Temperatures dropped into the upper 20s and 30s overnight across much of north-central and northeast Wisconsin. Some of the

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Northeast

coldest readings in the state were in north-central Wisconsin where Merrill and Harrison (Lincoln county) had lows of 29 degrees. Eagle River (Vilas county), Crivitz (Marinette county) and Antigo (Langlade county) had lows of 31, 33 and 34 degrees respectively. Green Bay (Brown county) fell to 39 degrees overnight, missing the record low by one degree.

Winnebago

Winchester	16	1305CST 1320CST			0	0			Hail (0.75)
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Winnebago

Neenah	16	1325CST			0	0			Funnel Cloud
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Calumet County

1.5 W Brothertown to 1 W Brothertown	16	1332CST 1345CST			0	0			Waterspout
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Southerly flow ahead of an approaching cold front brought plenty of moist and unstable air into Wisconsin. The cold front became the focus for the development of severe thunderstorms that moved across central and east-central Wisconsin. Wind gusts of 60 to 70 mph toppled trees and snapped power lines, knocking out power to approximately 15,000 customers. Two barns were destroyed by high winds west of Algoma (Kewaunee county) and Appleton (Outagamie county) lost 82 city-owned trees. Across the street from Green Bay's Austin-Straubel Airport (Brown county), part of a tent used for concerts and other events was blown down by winds in excess of 60 mph. Lightning caused a fire that destroyed a house in Green Bay.

Calumet County

Stockbridge	27	1927CST 2120CST			0	0			Urban/Sml Stream Fld
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Winnebago

Oshkosh	27	2015CST 2125CST			0	0			Urban/Sml Stream Fld
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Manitowoc

Whitelaw	27	2105CST 2130CST			0	0			Urban/Sml Stream Fld
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A cold front moved across east-central Wisconsin and combined with moist and unstable air to produce thunderstorms. The thunderstorms moved slowly and produced heavy rain that caused street flooding in Oshkosh (Winnebago county), flooding of county highway E in Stockbridge (Calumet county) and flooding of state highway 10 in Whitelaw (Manitowoc county).

Portage County

Stevens Pt	28	1430CST 1500CST			0	0			Urban/Sml Stream Fld
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Heavy rain caused street flooding.

WISCONSIN, Northwest

Sawyer County

Hayward	05	1529CST			0	0			Hail (0.75)
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Washburn County

1.3 NNW Sarona to 4.5 NE Sarona	05	1620CST 1640CST	3.5	300	0	0			Tornado (F0)
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A weak tornado knocked down power lines and hundreds of trees. It also destroyed a garage and damaged a barn. Two camping trailers, a pickup truck, and a pontoon boat near Deep Lake were damaged by falling trees.

Washburn County

6 SE Spooner	05	1640CST			0	0			Thunderstorm Wind (G50)
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Trees and power lines were blown down. Wind speed is estimated.

Sawyer County

6 S Hayward	05	1659CST			0	0			Hail (1.75)
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Ashland County

Glidden	05	1700CST			0	0			Hail (0.75)
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Price County

Ogema	05	1815CST			0	0			Hail (0.75)
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Sawyer County

7 SE Hayward	05	2024CST			0	0			Hail (1.00)
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Washburn County

1 SW Birchwood	05	2100CST			0	0			Hail (0.75)
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Sawyer County

Hayward	05	2125CST			0	0			Hail (0.75)
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Bayfield County

3 E Cable	05	2130CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northwest									
Bayfield County 4 W Namekagon	06	1855CST			0	0			Thunderstorm Wind (G50)
			Eight-inch diameter trees and power lines were blown down. Wind speed is estimated.						
Sawyer County 5 NE Hayward	06	1856CST			0	0			Hail (0.75)
Sawyer County 5 NE Hayward	06	1856CST			0	0			Thunderstorm Wind (G52)
			Amateur radio spotters estimated thunderstorm winds up to 60 mph.						
Ashland County Clam Lake	06	1900CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down. Wind speed is estimated.						
Sawyer County Radisson	06	1905CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines were blown down. Wind speed is estimated.						
Sawyer County 25 E Hayward	06	1910CST			0	0			Thunderstorm Wind (G55)
			Trees and an antenna were blown down. An aluminum dock was destroyed. Wind speed is estimated.						
Bayfield County 12 E Cable	06	1910CST			0	0			Thunderstorm Wind (G50)
			Power lines were blown down. Wind speed is estimated.						
Douglas County 2 N Lake Nebagamon	06	1915CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down. Wind speed is estimated.						
Ashland County Marengo	06	1925CST			0	0	150K		Thunderstorm Wind (G65)
			Severe thunderstorm winds caused extensive damage at the Ashland county fairgrounds. A cow barn was destroyed and the grandstand was severely damaged. Some debris was blown 300 feet. Many trees were blown down. Half of a double-wide modular home was overturned elsewhere in Marengo. The wind speed was estimated based on the amount of damage.						
Sawyer County 10 S Hayward	06	1928CST			0	0			Thunderstorm Wind (G50)
			Power lines and ten-inch diameter trees were blown down. Wind speed is estimated.						
Iron County Gurney	06	1935CST			0	0			Thunderstorm Wind (G60)
			Many trees and power lines were blown down, and a semi trailer was overturned. The wind speed was estimated based on the degree of damage and history of the storm.						
Bayfield County Bayfield	06	1950CST			0	0			Thunderstorm Wind (G50)
			Power lines were blown down. Wind speed is estimated.						
Douglas County Lake Nebagamon	22	0630CST			0	0			Hail (0.75)
Burnett County Siren	22	1650CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down. Wind speed is estimated.						
Washburn County Shell Lake	22	1700CST			0	0			Thunderstorm Wind (G50)
			Power lines were blown down. Wind speed is estimated.						
Douglas County Solon Springs	22	1733CST			0	0			Thunderstorm Wind (G50)
			Power lines were blown down. Wind speed is estimated.						
Douglas County Bennett	22	1738CST			0	0			Thunderstorm Wind (G50)
			Trees were blown down on roads. Wind speed is estimated.						
Douglas County Superior	22	1745CST			0	0			Thunderstorm Wind (G50)
			Power lines were blown down. Wind speed is estimated.						
Douglas County 12 E Solon Springs	22	1758CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Northwest</u>									
Power lines were blown down in Highland township. Wind speed is estimated.									
<u>WISCONSIN, Southeast</u>									
Dane County									
Mendota	06	1355CST			0	0			Hail (1.00)
Rock County									
Evansville	06	1426CST			0	0			Hail (0.75)
Rock County									
1 S Hanover	06	1440CST			0	0	1K		Thunderstorm Wind
Green County									
Monroe	06	1445CST			0	0	2K		Thunderstorm Wind (G61)
Rock County									
2 W Orfordville	06	1445CST			0	0			Funnel Cloud
Green County									
7 ENE Dayton	06	1447CST			0	0			Funnel Cloud
Columbia County									
Fall River	06	1450CST			0	0	1K		Thunderstorm Wind
Rock County									
Orfordville	06	1451CST			0	0	2K		Thunderstorm Wind
Green County									
5 E Juda	06	1455CST			0	0	1K		Thunderstorm Wind
Rock County									
Evansville to Milton	06	1456CST 1502CST			0	2	3K		Thunderstorm Wind (G65)
Sauk County									
Lake Delton	06	1500CST 1505CST			0	0	10K		Thunderstorm Wind
Jefferson County									
Lake Mills	06	1505CST			0	0			Thunderstorm Wind (G50)
Rock County									
4 S Afton	06	1505CST			0	0	10K		Thunderstorm Wind
Sauk County									
Lake Delton	06	1505CST			0	1			Lightning
Columbia County									
Wisconsin Dells	06	1508CST			0	0	2K		Thunderstorm Wind
Dane County									
4 SE Utica to Albion	06	1508CST			0	0	2K		Hail (1.75)
Walworth County									
3 NW Darien to Millard	06	1508CST			0	0	5K		Thunderstorm Wind
Columbia County									
Arlington	06	1518CST			0	0	1K		Thunderstorm Wind
Columbia County									
Columbus	06	1525CST			0	0	3K		Thunderstorm Wind
Dodge County									
2 NW Watertown	06	1525CST			0	0			Hail (0.75)
Jefferson County									
Lake Mills	06	1525CST	0.1	30	0	0	3K		Tornado (F0)
Jefferson County									
Hebron to 5 NE Hebron	06	1530CST 1535CST			0	0	30K		Thunderstorm Wind
Waukesha County									
3.5 W Mukwonago to Hartland	06	1532CST 1547CST			0	0	40K		Thunderstorm Wind (G70)
Walworth County									
1 NW East Troy	06	1535CST			0	0	1K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Washington 6 S Hartford	06	1540CST			0	0	1K		Thunderstorm Wind (G50)
Dodge County Beaver Dam	06	1544CST			0	0	1K		Thunderstorm Wind
Fond Du Lac Fond Du Lac	06	1544CST			0	1			Lightning
Fond Du Lac Fond Du Lac	06	1544CST			0	0	3K		Thunderstorm Wind (G60)
Waukesha County 3.9 NW Big Bend	06	1545CST	0.2	40	0	0	100K		Tornado (F1)
Dodge County 2 NW Watertown	06	1547CST			0	0			Hail (0.75)
Walworth County Elkhorn to Lake Geneva	06	1547CST 1555CST			0	0	8K		Thunderstorm Wind
Dodge County Hustisford to Theresa	06	1554CST 1558CST			0	0	5K		Thunderstorm Wind
Jefferson County 3 S Sullivan	06	1555CST			0	0	1K		Thunderstorm Wind
Kenosha County Twin Lakes	06	1555CST			0	0	1K		Thunderstorm Wind
Racine County Burlington	06	1555CST			0	0	1K		Thunderstorm Wind
Kenosha County Salem	06	1557CST			0	0			Funnel Cloud
Washington West Bend to Germantown	06	1600CST 1610CST			0	0	10K		Thunderstorm Wind (G61)
Ozaukee County Mequon to Saukville	06	1605CST 1615CST			0	0	3K		Thunderstorm Wind
Waukesha County Brookfield	06	1605CST			0	0	15K		Thunderstorm Wind
Dodge County 2 E Juneau	06	1614CST			0	0	1K		Thunderstorm Wind
Ozaukee County 3 N Belgium	06	1623CST			0	0	1K		Thunderstorm Wind
Racine County 2 W Caledonia	06	1630CST			0	0	5K		Thunderstorm Wind
Milwaukee County Milwaukee	06	1634CST			0	0	200K		Thunderstorm Wind
Sheboygan County Cedar Grove	06	1638CST			0	0	10K		Thunderstorm Wind
Washington 3 NE West Bend	06	2200CST			0	0	3K		Hail (1.00)
Dane County Madison	06	2230CST			0	0	1K		Thunderstorm Wind

A significant change in the upper level pattern to a more southwesterly flow allowed tropical-like moisture to return to southern Wisconsin in conjunction with an upper level shortwave trough. The result was the first severe weather outbreak across southern Wisconsin since May 16, 1999. A series of upper level shortwaves continued to move through the Great Lakes region during the remainder of the week into the weekend of June 12-13, 1999. These shortwaves resulted in additional rounds of severe weather across southcentral and southeast Wisconsin.

On June 6th, scattered severe storms eventually became orientated in short lines that produced 2 tornadoes, 10 gustnadoes (classified as thunderstorm wind damage), 3 funnel clouds, hail up to the size of golfballs, damaging straight-line downburst winds up to 80 mph, and isolated torrential rainfalls of around 1 inch within 20 to 30 minutes. In Evansville (Rock Co.), 1/2 inch rain fell within 10 minutes along with large hail. In addition, two people were injured by lightning strikes. Otherwise, numerous large trees and power

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Southeast

lines were toppled by the powerful thunderstorm winds.

A weak (F0) tornado briefly touched down on the northwest side of Lake Mills (the body of water), Jefferson County, uprooting and snapping large trees, but not causing any other damage. Another weak (F1) tornado spun up just southwest of the intersection of Oakdale and Skyline roads northwest of Big Bend (Waukesha Co.), damaging 6 homes (one had major damage), and 2 pole sheds. This Waukesha tornado was on the ground for about 2/10 of a mile, and weakened after it crossed Oakdale Rd.

Most interestingly, the number of gustnadoes reported and verified was the greatest in recent memory. A couple of them were captured on video tape. Several of them resulted in tree damage, and all ten were classified as thunderstorm wind damage. Locations of gustnadoes were: 1) Rock county...Orfordville; Walworth County...3NW Darien, 1W Delevan, Millard, and 1NW East Troy; Waukesha County...3.5W Muckwonago, 1WNW North Prairie, and 2 of them 2SW Harland; Washington County...3SW West Bend on Little Cedar Lake. The Little Cedar Lake gustnado actually spun up on the water surface (gustspout!?!?) and then moved onshore, damaging a pier and uprooting a couple trees before dissipating. It was observed by a trained spotter. Another trained spotter found themselves briefly inside one of the gustnadoes southwest of Hartland! The fact that so many gustnadoes were plainly visible can be partially attributed to significant amounts of dust and dirt that were picked up off nearby farm fields. This was made possible by dry weather during the preceding 3 weeks coupled with late planting (little vegetation) of some fields.

Other notable damage reports included: a motorhome was blown onto State Highway 14 near Evansville (Rock Co.), injuring two people; a home in Hebron (Jefferson Co.) was damaged by a wind-toppled tree, while northeast of Hebron a barn was damaged by fallen trees; a pontoon boat was blown 500 feet near Elkhorn (Walworth Co.); a construction trailer west/northwest of North Prairie (Waukesha Co.) was rolled over and damaged by a gustnado; in Brookfield (Waukesha Co.) a construction trailer was damaged after strong thunderstorm winds flipped it over, while elsewhere in Brookfield a toppled tree damaged a home; in Germantown (Washington Co.)... a home had its gutters and shingles damaged while one of its windows was blown in; just west of Claladenio (Racine Co.) a truck was flipped over by strong thunderstorm winds, and a four block area on Milwaukee's west side suffered an intense wet microburst that damaged 14 homes, 17 vehicles, uprooted 100 trees, and knocked over a few power lines.

Sauk County

Lake Delton	08	1615CST 1700CST		0	0		Urban/Sml Stream Fld
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Iowa County

4 SW Dodgeville	08	1644CST		0	0		Hail (1.00)
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Marquette County

3 N Briggsville	08	1650CST		0	0		Hail (0.75)
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Columbia County

Portage	08	1720CST		0	0		Hail (0.75)
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Dane County

3 S Black Earth to Fitchburg	08	1720CST 1725CST		0	0	3K	Thunderstorm Wind (G56)
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Sauk County

Leland	08	1735CST		0	0	1K	Thunderstorm Wind
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Columbia County

Portage	08	1738CST		0	0		Hail (0.75)
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Green Lake

Markesan	08	1743CST		0	0		Hail (0.75)
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Fond Du Lac

2 S Ripon	08	1800CST		0	0	1K	Thunderstorm Wind
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Sauk County

Baraboo	08	1800CST 1930CST		0	0	10K	Flash Flood
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Dodge County

Lowell to Juneau	08	1821CST 1835CST		0	0	30K	Hail (1.00)
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The second round (June 8th) of severe weather across southcentral and southeast Wisconsin during the week wasn't as widespread as that on June 6th. Nonetheless, there were scattered clusters of severe storms that dumped large hail and/or generated strong downburst winds that toppled large trees and powerlines. Large hail damaged 20 vehicles and stripped several trees clean from Lowell to Juneau (Dodge Co.). In addition, torrential rains resulted in isolated flash flooding or urban/small stream flooding. Flash flooding (soil erosion and gravel shoulder washouts) occurred in Baraboo (Sauk Co.) after 3/4 inch of rain fell in 20 minutes on top of a saturated ground. Water levels on some streets reach 1 to 3 feet in depth.

Sheboygan County

4 N Kohler	10	0900CST		0	0		Hail (1.00)
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Washington

Hartford	10	1244CST		0	0		Funnel Cloud
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Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Washington 2 NE Hartford	10	1250CST			0	0			Hail (0.75)
Sauk County North Freedom	10	1310CST			0	0	1K		Thunderstorm Wind
Walworth County Elkhorn	10	1336CST			0	0	15K		Thunderstorm Wind
Walworth County Elkhorn	10	1340CST			0	3			Lightning
Washington West Bend	10	1345CST			0	0	1K		Thunderstorm Wind
Racine County Burlington	10	1403CST			0	0	1K		Thunderstorm Wind
Jefferson County Concord	10	1415CST			0	0	1K		Thunderstorm Wind
Washington West Bend to Germantown	10	1420CST 1440CST			0	0	3K		Thunderstorm Wind (G52)
Waukesha County Oconomowoc	10	1425CST			0	0	1K		Thunderstorm Wind
Milwaukee County Milwaukee	10	1430CST 1700CST			0	0	75K		Flash Flood
Sauk County Leland	10	1430CST 1600CST			0	0	20K		Flash Flood
Walworth County 3 S Whitewater	10	1440CST			0	0			Hail (0.75)
Waukesha County Waukesha	10	1445CST			0	0	1K		Thunderstorm Wind
Ozaukee County Fredonia	10	1500CST			0	0	1K		Thunderstorm Wind
Waukesha County Waukesha	10	1505CST 1510CST			0	0	1K		Thunderstorm Wind
Walworth County Delavan	10	1545CST 1600CST			0	1	10K		Thunderstorm Wind
Walworth County Fontana	10	1555CST			0	0			Funnel Cloud
Columbia County Columbus	10	1630CST 1800CST			0	0			Urban/Sml Stream Fld
Fond Du Lac 2 N Ladoga	10	1630CST 1800CST			0	0			Urban/Sml Stream Fld
Dane County 1 E East Bristol	10	1650CST			0	0	200K		Thunderstorm Wind
Dodge County 2 W Beaver Dam	10	1700CST 1800CST			0	0			Urban/Sml Stream Fld
Columbia County Fall River to Columbus	10	1706CST 1710CST			0	0	2K		Thunderstorm Wind
Columbia County 1 NW Columbus	10	1728CST			0	0	1K		Thunderstorm Wind
Walworth County 3 SE Lake Geneva	10	1728CST			0	0	1K		Thunderstorm Wind

The 3rd round (June 10th) of severe weather during the week was more widespread than the 2nd round. The usual large hail and/or

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Southeast

damaging thunderstorm wind reports were common (large trees knocked over), as well as isolated flash flooding or urban/small stream flooding. In addition, 3 people were injured in Elkhorn (Walworth Co.) when lightning struck nearby. Torrential rains of 1 to 2 inches within 1 to 2 hours, on top of saturated soil, hit the Rock Springs to Leland area in Sauk County. A road near Leland was washed out by the flood waters. Excessive rainfall also generated urban-type flooding in the Columbus (Columbia Co.) area in which water was 4 to 6 inches deep on some roads. Just west of Beaver Dam (Dodge Co.), 2.5 inches of rain fell in only 45 minutes, resulting in urban-type flooding. Water levels on some roads ranged from 6 inches to 1 foot. Flash flooding hit the south side of the city of Milwaukee (Milwaukee Co.) after 2 to 3 inches of rain fell within 1.5 hours. Several cars were reported to be "floating" down the streets and some were flipped over. Urban/small stream flooding occurred north of Ladoga (Fond du Lac Co.) along and near Highway 26, after 1 to 2 inches fell in a 2 hour period. Powerful downburst winds blew 2 cars and a semi-tractor trailer off Interstate 43 near Elkhorn (Walworth Co.). Later on, powerful thunderstorm winds flipped yet another semi off Interstate 43 near Delavan (Walworth Co.). The driver was injured.

Racine County

Burlington	11	1730CST 1930CST							Urban/Sml Stream Fld
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Sheboygan County

Plymouth	11	1735CST		0	2				Lightning
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Walworth County

4 SW Lake Geneva	11	1735CST		0	0	1K			Thunderstorm Wind
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Waukesha County

Brookfield	11	1745CST		0	0				Thunderstorm Wind (G51)
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Sheboygan County

Sheboygan	11	1805CST		0	0	1K			Thunderstorm Wind
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Waukesha County

Sussex to New Berlin	11	1805CST 1819CST		0	0				Thunderstorm Wind (G56)
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Walworth County

Richmond	11	1816CST		0	0				Hail (1.00)
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Washington

West Bend	11	1825CST		0	0	1K			Thunderstorm Wind
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Jefferson County

Hebron to Helenville	11	1830CST		0	0	3K			Thunderstorm Wind
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Ozaukee County

2 W Cedarburg	11	1830CST		0	0				Hail (0.75)
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Waukesha County

3 S Dousman	11	1845CST		0	0	1K			Thunderstorm Wind
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The 4th round of severe weather during the week occurred on June 11th. Fortunately, it was not widespread. Small clusters of severe thunderstorms dumped large hail and flooding rains, and generated powerful, damaging winds. Besides large hail, 1.35 inches of rain fell in 1 hour in Richmond (Walworth Co.). In addition to damaging winds in the Sussex to New Berlin (Waukesha Co.) area, hail up to 3/4 inch in diameter was noted. Two people were injured after being struck by lightning at the Plymouth Rock Camp Grounds (Sheboygan Co.).

WIZ065>066-068-

Waukesha - Milwaukee - Green - Walworth - Racine - Kenosha

	13	0800CST 1430CST		0	0	900K			Flood
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After experiencing several round of moderate to heavy rains during the week of June 6-12, parts of southcentral and southeast Wisconsin suffered yet another round of heavy rains on June 13th. The result was widespread flooding of rivers, streams, creeks, and urban areas. Many roads were closed, and there were several cases of soil erosion, road shoulder washouts. As always, many basements sustained damage to personal property. Estimated property damage for each county was \$100,000 for Green Co., \$125,000 for Walworth Co., \$150,000 for Racine Co., \$300,000 for Kenosha Co., \$75,000 for Waukesha Co., and \$150,000 for Milwaukee Co.

Up to 1.5 inches fell in eastern Green County, resulting in closed roads in the Albany, Brooklyn, and Brodhead areas. The Sugar River at Brodhead (Green Co.), crested at 7.00 feet at 0745CST on June 15th, or 2 feet above flood stage. At this location it was above flood stage from 2030CST on June 13th through 1545CST on June 16th.

Anywhere from 3.1 to 4.1 inches of rain fell over the eastern parts of Waukesha and Walworth Counties, southern Milwaukee County, and Kenosha and Racine Counties in an 18-hour period from 0000CST to 1800CST. Most of it fell within a couple hours either side of 1100CST. In eastern Waukesha County, the cities of Elm Grove, Brookfield, and New Berlin had the worst flooding. In Milwaukee County, the deep tunnel system overflowed, basements were flooded, the Hale Interchange on I-94 was closed, and Summerfest on the lakefront did not open. A walk-bridge over the Menomonee River in Wauwatosa was washed away by the flood waters.

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Southeast

The Fox River in western Racine and western Kenosha County flooded at levels not seen for 12 years. Seventy-five homes were evacuated in the villages Salem, Silver Lake, and Wheatland in Kenosha County. Many cars stalled in rushing water that reached a depth of 3 to 4 feet on some roads. Several roads were closed, and some residents had to be rescued from their homes because the water was rising 1 inch per hour on the Fox River. In Burlington (Racine Co.), all city parks were completely flooded, and serious soil erosion in a couple new housing developments was noted. Due to the heavy rains in the Fox River watershed, the Fox River at New Munster (Kenosha Co.) eventually crested at 13.68 feet at 0215CST on June 15th, or 3.68 feet over flood stage. The flooding was characterized as "moderate." The river at this location was above flood stage from 1700CST on June 12th through 1700CST on June 22nd.

Fond Du Lac 3 WNW Pipe	16	1357CST			0	0			Funnel Cloud
Fond Du Lac Pipe	16	1402CST			0	0			Hail (0.75)
									An isolated thunderstorm, embedded in a cluster of showers, moved southeast at 25 mph, dumped heavy rains, and produced 3/4 inch diameter hail and 40 knot winds in Pipe. The storm was low-topped, only reaching about 25,000 feet (cold air aloft).
Racine County Ives Grove	22	1600CST			0	0	15K		Lightning
									Lightning struck the Racine Co. Public Works building, resulting in the damage to the lighting system, and personal computers.
Kenosha County Silver Lake	28	0000CST 0200CST			0	0			Urban/Sml Stream Fld
Rock County Janesville	28	0000CST 0200CST			0	0			Urban/Sml Stream Fld
Walworth County Delavan	28	0000CST 0200CST			0	0			Urban/Sml Stream Fld
Dane County Madison	28	1300CST 1500CST			0	0			Urban/Sml Stream Fld
Dane County Marshall	28	1300CST 1500CST			0	0			Urban/Sml Stream Fld
Dane County Middleton to Madison	28	1325CST 1335CST			0	0			Hail (0.75)
Jefferson County 1 W Waterloo	28	1425CST			0	0			Hail (0.75)
Dodge County 2 N Watertown	28	1500CST			0	0			Hail (1.00)
Jefferson County 3 SE Sullivan	28	1503CST			0	0			Hail (0.88)
Marquette County Packwaukee	28	1510CST			0	0	2K		Thunderstorm Wind (G52)
Waukesha County 4 SW Dousman	28	1510CST			0	0			Hail (0.75)
Marquette County 4 E Montello	28	1520CST			0	0			Hail (0.75)
Milwaukee County Milwaukee	28	1545CST 1800CST			0	0			Urban/Sml Stream Fld
Green Lake Green Lake	28	1555CST			0	0	1K		Thunderstorm Wind
Washington West Bend	28	1905CST			0	0			Funnel Cloud
									Deep tropical moisture, pooled near a frontal boundary, resulted in two separate rounds of thunderstorms across southcentral and southeast Wisconsin. The 1st round consisted primarily of heavy rains and urban/small stream flooding. The 2nd round consisted of primarily large hail and heavy rains, although a wet microburst did generate powerful winds which levelled some large trees in Packwaukee (Marquette Co.) and Green Lake (Green Lake Co.).

Storm Data and Unusual Weather Phenomena

June 1999

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

WISCONSIN, Southeast

In the couple hours just after 0000CST, small clusters of thunderstorms, moving slowly east at 15 mph, dumped heavy rains in scattered areas. Estimated rainfall totals based on WSR-88 Doppler radar were in the 1 to 2 inch range within 1 to 1.5 hours. The result was urban street flooding in Janesville (Rock Co.), Delavan (Walworth Co.), and Silver Lake (Kenosha Co.). Water was reported to be 4 to 8 inches deep on some roads. During the afternoon hours it was the same story when urban flooding was reported in Madison and Marshall (Dane Co.), and in the city of Milwaukee (Milwaukee Co.). At the NWS Forecast office 3SE of Sullivan (Jefferson Co.), 1.14 inches fell in 20 minutes! A total of 1.14 inches fell in 1 hour in Wauwatosa (Milwaukee Co.), and 1.42 inches in 30 minutes near the intersection of Capitol Drive and the Milwaukee River north of downtown Milwaukee.

WISCONSIN, Southwest

Taylor County

Jump River 05 1755CST 0 0 15K **Thunderstorm Wind (G56)**

Taylor County

Medford 05 1830CST 0 0 30K **Hail (1.00)**

Taylor County

Medford 05 1838CST 0 0 40K **Thunderstorm Wind (G56)**

Buffalo County

7 E Alma 05 2105CST 0 0 80K **Thunderstorm Wind (G55)**

Buffalo County

Lookout 05 2110CST 0 0 50K **Thunderstorm Wind (G55)**

Buffalo County

Nelson 05 2115CST 0 0 25K **Hail (1.75)**

Trempealeau

6 S Eleva 05 2145CST 0 0 10K **Thunderstorm Wind (G54)**

Trempealeau

Eleva 05 2145CST 0 0 **Thunderstorm Wind (G52)**

Trempealeau

Strum 05 2145CST 0 0 35K **Thunderstorm Wind (G55)**

Buffalo County

2 W Mondovi 05 2200CST 0 0 60K **Thunderstorm Wind (G55)**

Winds gusting up to 65 mph knocked down trees, power lines, and demolished barns near Alma and just west of Mondovi (Buffalo County). Spotters also reported hail the size of quarters and golfballs.

Monroe County

Sparta 06 1415CST 0 0 15K **Thunderstorm Wind (G55)**

Monroe County

Tomah 06 1425CST 0 0 20K **Thunderstorm Wind (G54)**

Taylor County

2 NE Rib Lake 06 1615CST 0 0 **Funnel Cloud**

Buffalo County

Mondovi 06 1656CST 0 0 25K **Thunderstorm Wind (G55)**

Trempealeau

Strum 06 1658CST 0 0 10K **Thunderstorm Wind (G52)**

Buffalo County

Mondovi 06 1659CST 0 0 15K **Thunderstorm Wind (G55)**

Buffalo County

Buffalo City 06 2015CST 0 0 5K **Thunderstorm Wind (G52)**

Buffalo County

Maxville 06 2015CST 0 0 25K **Thunderstorm Wind (G53)**

Wind gusts of 60 to 65 mph damaged trees and power lines. Law enforcement officials reported a funnel cloud near Rib Lake (Taylor County).

Juneau County

Mauston 06 1500CST 0 0 100K **Lightning**

Lightning struck the Juneau County courthouse, disabling the 911 system and damaging the law enforcement computer system.

La Crosse County

La Crosse 08 1310CST 0 0 5K **Thunderstorm Wind (G52)**

Vernon County

2 N Stoddard 08 1310CST 0 0 12K **Thunderstorm Wind (G56)**

La Crosse County

La Crosse 08 1321CST 0 0 10K **Thunderstorm Wind (G50)**

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southwest									
La Crosse County									
La Crosse	08	1321CST			0	0	25K		Thunderstorm Wind (G54)
Vernon County									
Stoddard	08	1321CST			0	0	15K		Thunderstorm Wind (G52)
Vernon County									
Coon Vly	08	1330CST			0	0	10K		Thunderstorm Wind (G52)
Monroe County									
3 N Tomah	08	1350CST			0	0	15K		Hail (0.75)
Wind gusts up to 65 mph and dime size hail were reported by storm spotters and law enforcement officials.									
Richland County									
Southeast Portion	10	1400CST 1600CST			0	0	25K	40K	Flash Flood
The highest water levels since 1971 occurred when 3 to 5 inches of rain fell in less than two hours. During the height of the flash flooding, 1 to 2 feet of water covered parts of Highway 130 north of Lone Rock.									
Vernon County									
Genoa	10	1530CST			0	0	20K		Thunderstorm Wind (G52)
Law enforcement officials reported 60 mph wind gusts near Genoa, which blew a trailer over on Highway 35.									
WISCONSIN, West									
St. Croix County									
5 NW Somerset	05	1540CST	0.5	50	0	0			Tornado (F0)
Polk County									
Luck	05	1550CST			0	0			Hail (1.00)
Polk County									
Milltown	05	1553CST			0	0			Hail (1.75)
St. Croix County									
5 N Baldwin	05	1630CST			0	0			Hail (1.75)
St. Croix County									
3 SE Deer Park	05	1630CST			0	0			Thunderstorm Wind (G52)
Estimated windspeed.									
Barron County									
Prairie Farm	05	1635CST			0	0			Thunderstorm Wind (G61)
Dunn County									
Ridgeland to 1 N Ridgeland	05	1645CST			0	0			Thunderstorm Wind (G65)
Trees blown down. Large Barn lost one of its sides. Estimated windspeed. Wind damage also reported in Boyceville and Sand Creek.									
Chippewa County									
8 NE Bloomer	05	1715CST			0	0			Thunderstorm Wind (G52)
Chippewa County									
5 NW Chippewa Falls	05	1715CST			0	0			Funnel Cloud
Rusk County									
Island Lake	05	1715CST			0	0			Thunderstorm Wind (G50)
Trees and power lines blown down. Estimated windspeed.									
Rusk County									
7 S Hawkins	05	1815CST	0.3	25	0	0			Tornado (F0)
Barron County									
Cumberland	05	1842CST			0	0			Hail (1.00)
Barron County									
3 E Prairie Farm	05	1842CST			0	0			Thunderstorm Wind (G55)
Barn damaged and trees blown down. Estimated windspeed.									
Barron County									
Cumberland	05	1857CST			0	0			Hail (1.00)
Pepin County									
Pepin	05	2055CST			0	0			Thunderstorm Wind (G65)
Roof ripped off school. Estimated windspeed.									
Eau Claire County									
11 S Eau Claire	05	2147CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, West</u>									
Eau Claire County									
9 SW Foster	05	2147CST			0	0			Thunderstorm Wind (G52)
		Trees down.							
Eau Claire County									
3 S Foster	05	2147CST			0	0			Thunderstorm Wind (G52)
		Estimated windspeed.							
Eau Claire County									
5 S Augusta	05	2207CST			0	0			Thunderstorm Wind (G52)
		Estimated windspeed.							
Eau Claire County									
Augusta	05	2207CST			0	0			Thunderstorm Wind (G52)
		Trees down. Estimated windspeed.							
Eau Claire County									
Eau Claire	06	1706CST			0	0			Hail (0.75)
Eau Claire County									
Altoona	06	1710CST			0	0			Hail (0.75)
Eau Claire County									
Eau Claire	06	1710CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed.							
Chippewa County									
Chippewa Falls	06	1717CST			0	0			Hail (1.00)
Chippewa County									
Chippewa Falls	06	1721CST			0	0			Hail (0.75)
Pierce County									
River Falls	06	1730CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed.							
Chippewa County									
Chippewa Falls	06	1745CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed.							
Dunn County									
Colfax	06	1800CST			0	0			Thunderstorm Wind (G50)
		Trees down. Estimated windspeed.							
Dunn County									
Elk Mound	06	1800CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed...							
Rusk County									
Weyerhaeuser	06	1820CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed.							
Rusk County									
3 W Bruce	06	1830CST			0	0			Thunderstorm Wind (G50)
		Trees down. Estimated windspeed.							
Chippewa County									
Chippewa Falls	06	2030CST			0	0			Hail (0.75)
Chippewa County									
Chippewa Falls	06	2030CST			0	0			Thunderstorm Wind (G50)
		Estimated windspeed.							
Barron County									
9 E Rice Lake	30	1545CST	0.1	25	0	0			Tornado (F0)
<u>WYOMING, Central and West</u>									
WYZ013									
		Wind River Basin							
	01	0100MST			0	0			Flood
	02	1100MST							
		Minor flooding of the Wind River along Highway 789 just south of Riverton.							
Fremont County									
5 SW Shoshoni	07	1515MST			0	0			Thunderstorm Wind (G52)
Hot Springs									
5 N Thermopolis	08	1317MST 1322MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Central and West</u>									
Johnson County									
10 NE Linch	12	1515MST			0	0			Funnel Cloud
Park County									
15 S Cody Arpt	17	1355MST			0	0			Funnel Cloud
Johnson County									
Buffalo	17	1614MST			0	0			Hail (1.00)
Johnson County									
Buffalo	17	1616MST			0	0			Hail (1.50)
Fremont County									
4 W Ft Washakie	17	1645MST			0	0			Hail (1.75)
High winds also reported.									
WYZ012>013 Lander Foothills - Wind River Basin									
19		1800MST			0	0			Flood
22		1800MST							
Minor flooding of the Wind River along and near Highway 789 just south of Riverton and Highway 26 northwest of Riverton between Crowheart and Morton. Several homes isolated by floodwaters.									

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

Weston County

4 E Four Corners 05 1330MST 0 0 Hail (1.00)

Crook County

1 SW Aladdin 05 1345MST 0.1 10 0 0 0 Tornado (F0)
Brief touchdown. Path width and length estimated.

Campbell County

30 SSE Gillette 05 1403MST 0 0 Hail (1.00)

Campbell County

5 N Rozet 05 1442MST 0 0 Hail (0.75)

Campbell County

22 SE Gillette 05 1455MST 0 0 Funnel Cloud

Weston County

Four Corners 08 2344MST 0 0 Hail (0.75)

Crook County

5 W Moorcroft 12 1436MST 0 0 Hail (1.75)

Campbell County

22 W Wright to 12 1445MST 12 400 0 0 0 Tornado (F0)
13 SW Wright 1510MST

Moved over open rangeland. Spotters watched the tornado for nearly 40 minutes before it dissipated.

Crook County

Moorcroft 12 1502MST 0 0 Thunderstorm Wind (G52)
1509MST

Wind speed estimated by law enforcement at 60 to 80 mph.

Campbell County

15 SW Wright to 12 1515MST 16 250 0 0 Tornado (F0)
13 S Wright 1549MST

Tornado reformed and moved southeast into Converse County.

Crook County

10 SW Devils Tower 12 1520MST 0 0 Hail (0.75)

Weston County

Upton 12 1545MST 0 0 Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Northeast									
Campbell County 10 SW Wright	12	1620MST	1	30	0	0	0		Tornado (F0)
			Brief touchdown. Tornado width and length estimated.						
Weston County 3 S Upton	15	1158MST			0	0			Funnel Cloud
Campbell County 20 W Wright	15	1822MST			0	0			Funnel Cloud
			3 Funnel Clouds sighted. Short lived.						
Campbell County 15 SW Gillette	17	1712MST 1730MST	1	50	0	0	0		Tornado (F0)
			Brief touchdown. Tornado width and length estimated from reports.						
Campbell County 2 SW Gillette	17	1715MST			0	0			Thunderstorm Wind (G75)
Campbell County 10 N Wright	17	1820MST			0	0			Hail (1.75)
Campbell County 10 N Wright	17	1830MST	0.1	10	0	0	0		Tornado (F0)
			Brief touchdown. Tornado width and length estimated.						
Campbell County 20 WSW Gillette to 20 SSW Gillette	17	1900MST			0	0			Hail (1.75)
Campbell County 5 N Rockypoint	19	2035MST			0	0			Hail (0.88)
Campbell County 24 SE Gillette to 24 E Gillette	27	1535MST			0	0			Hail (0.75)
Crook County 3 SE Aladdin	27	1700MST			0	0			Hail (0.88)
WYOMING, Southeast									
Converse County Douglas	02	1630MST 1633MST			0	0	5K		Thunderstorm Wind (G60)
			High winds blew a barn roof over 100 yards 2 miles west of Douglas, WY						
Platte County Glendo	04	1548MST 1552MST			0	0			Hail (1.00)
			1 inch hail reported at Glendo State Park						
Platte County Glendo	04	1605MST 1610MST			0	0			Hail (0.75)
Goshen County Ft Laramie	10	1620MST 1623MST			0	0			Thunderstorm Wind (G52)
			60 mph wind gust reported 2 miles southwest of Ft. Laramie, WY						
Laramie County Carpenter	12	1400MST 1405MST			0	0			Hail (1.50)
			1 1/2 inch hail fell 10 miles west of Carpenter, WY						
Laramie County Horse Creek	12	1445MST 1450MST			0	0			Hail (1.75)
			1 3/4 inch, but mostly smaller, size hail fell 3 miles north of Horse Creek, WY						
Converse County (4Dg)Douglas	12	1549MST 1555MST	0.3	40	0	0			Tornado (F0)
			Tornado reported on Ogallala Ranch 50 miles northwest of Douglas, WY						

Storm Data and Unusual Weather Phenomena

June 1999

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									
Converse County									
Bill	12	1611MST 1615MST	0.2	35	0	0			Tornado (F0)
Tornado reported 10 miles west of Bill, WY									
Converse County									
Glenrock	12	1650MST 1655MST			0	0			Hail (1.00)
1 inch hail reported 20 miles northeast of Glenrock, WY									
Converse County									
(4Dg)Douglas	12	1705MST 1710MST			0	0			Hail (1.00)
1 inch hail reported 6 miles northwest of Douglas, WY									
Laramie County									
Cheyenne	17	1459MST 1502MST			0	0			Hail (0.75)
Goshen County									
Hawk Spgs	19	1534MST 1537MST			0	0			Hail (0.75)
3/4 inch hail reported 13 miles east of Chugwater, WY									
Platte County									
Wheatland	19	1600MST 1610MST			0	0			Hail (0.88)
Nickel size hail accumulated up to 2 inches deep 13 miles southeast of Wheatland, WY									
Converse County									
(4Dg)Douglas	20	1606MST 1620MST			0	0			Hail (0.88)
Nickel size hail reported 2 miles southwest of Douglas, WY									
Platte County									
Wheatland	26	1526MST 1530MST			0	0			Hail (1.00)
1 inch hail fell 25 miles southwest of Wheatland, WY									
Platte County									
Chugwater	26	1557MST 1602MST			0	0	25K		Hail (1.75)
Platte County									
Chugwater	26	1612MST 1616MST			0	0			Hail (1.00)
1 inch hail fell 8 miles east of Chugwater, WY									
Goshen County									
Hawk Spgs	26	1624MST 1628MST			0	0			Hail (0.75)
3/4 inch hail fell 12 miles southwest of Hawk Springs, WY									
Goshen County									
Yoder	26	1628MST 1633MST			0	0			Hail (0.75)
3/4 inch hail fell 10 miles southwest of Yoder, WY									
Goshen County									
Yoder	26	1633MST 1640MST			0	0	1.2M	500K	Hail (2.75)
A severe hailstorm caused considerable damage to crops and property over a large part of central and eastern Goshen county...particularly between Yoder, WY and Torrington, WY.									
Goshen County									
La Grange	26	1659MST 1705MST			0	0	100K		Hail (2.50)
Platte County									
Diamond	26	1822MST 1826MST			0	0			Hail (0.75)
Goshen County									
La Grange	26	1855MST 1900MST			0	0	250K	250K	Hail (2.75)

Storm Data and Unusual Weather Phenomena

June 1999

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									
Platte County									
Glendo	26	1926MST 1929MST			0	0			Hail (0.75)
		3/4 inch hail fell 25 miles west of Glendo, WY							
Platte County									
Glendo	26	1945MST 1948MST			0	0			Hail (0.88)
		Nickel size hail reported 5 miles southeast of Glendo, WY							
Goshen County									
La Grange	26	1950MST 1952MST	0.1	30	0	0			Tornado (F0)
		Tornado briefly touched down 3 miles west of La Grange, WY							
Goshen County									
La Grange	26	1951MST 1956MST			0	0			Hail (1.00)
Niobrara County									
Lance Creek	27	1330MST 1334MST			0	0			Hail (0.75)
		3/4 inch hail reported 7 miles north of Lance Creek, WY							
Platte County									
Wheatland	27	1412MST 1416MST			0	0			Hail (1.00)
		1 inch hail reported 25 miles northwest of Wheatland, WY							
Niobrara County									
Lusk	27	1428MST 1431MST	0.2	40	0	0			Tornado (F0)
		Tornado reported on U.S. Highway 85 at mile marker 174, just outside of Lusk, WY							
Platte County									
Wheatland	27	1445MST 1450MST			0	0			Hail (0.75)
Goshen County									
Lingle	27	1510MST 1515MST			0	0			Hail (1.75)
		1 3/4 inch hail reported 5 miles south of Lingle, WY							
Goshen County									
Torrington	27	1532MST 1537MST			0	0	75K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

January 1999

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

ARKANSAS, Central and North Central

Faulkner County

3 SE Naylor to 4 E Naylor	21	1557CST 1600CST	2	250	0	7			Tornado (F2)
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A strong tornado was spawned in eastern Faulkner County. The tornado destroyed a couple of manufactured homes southeast of Naylor on or near Bull Mountain Road. Five people were injured in one of the homes. A hay barn was also destroyed before the tornado exited into western White County.

White County

2 SW Sunnydale to 8 NE Sunnydale	21	1638CST 1651CST	10	800	0	2			Tornado (F3)
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A strong tornado was spawned in northern White County. The tornado tracked just west of Sunnydale and destroyed a trailer at the intersection of Highways 124 and 157. As the tornado headed northeast, it damaging or destroyed several homes 2 miles north of Sunnydale in the Holly Springs community. A number of trees were knocked down in the area as well. About 4 miles northeast of Sunnydale, the tornado destroyed a newly constructed home which was built on top of a hill. Just before moving into Independence County, the tornado damaged more homes and farm buildings and downed trees along and near Highway 167 close to the White County/Independence County line.

White County

1 NE Floyd to 1 NE Center Hill	21	1646CST 1657CST	8	400	2	2			Tornado (F2)
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A tornado was spawned in western White County. The tornado tracked mostly along Highway 305 from near Floyd through Center Hill. Several mobile homes were destroyed near the highway, with trees blown down and telephone poles snapped. Many properties in Center Hill were also heavily damaged. At least two mobile homes thrown and destroyed....claiming two lives. F66MH, M42VE

Independence

7 SW Oil Trough to 2 SE Cord	21	1655CST 1722CST	20	500	0	3			Tornado (F2)
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A strong tornado was spawned in southern Independence County. The tornado formed as another tornado was dissipating about a mile northwest. This new tornado formed about 5 miles southwest of Oil Trough. As the tornado moved northeast, it destroyed a home and a shed along Highway 157 and damaged other homes nearby. Extensive tree damage was also found in the area. From there, the tornado tracked within a mile of Oil Trough...and caused some roof damage to a home just west of the intersection of Highways 14 and 157. In Oil Trough, a trailer was heavily damaged and a cable antenna on top of a water tower was bent. Farther northeast, a barn was damaged at the intersection of Highways 122 and 69. The tornado moved about a mile east of Newark and destroyed some transmission towers near a power plant. The tornado continued through eastern Independence County...causing mostly tree damage. The tornado finally dissipated just southeast of the town of Cord.

Monroe County

2 E Clarendon	21	1700CST			0	0			Hail (1.75)
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Independence

1 E Newark	21	1710CST			0	0			Hail (5.00)
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Jefferson County

1 NW Whitehall to 1 SW Tucker	21	1711CST 1730CST	14	200	0	3	2M		Tornado (F1)
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A weak tornado was spawned in western Jefferson County. The tornado tracked close to the White Hall area and caused some property damage. A barn was destroyed and the roof of a storage building was damaged. Roof damage was also found at several homes. The tornado then headed into the Pine Bluff Arsenal. The tornado damaged some buildings at the Arsenal, with mostly roof damage noted. The tornado also destroyed several steam pipes and knocked down the awning of the public works gas station. The tornado crossed the Arkansas River about 2 miles south of Pastoria with tree damage on both sides of the river. As the tornado moved northeast, it damaged a few more homes in the Sherrill area. The tornado dissipated just southwest of Tucker...with a new tornado spawned less than a mile farther southeast.

Monroe County

5 SE Brinkley	21	1720CST			0	0			Hail (1.75)
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White County

3 N Sunnydale to 7 NE Sunnydale	21	1820CST 1827CST	5	400	1	2			Tornado (F2)
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A strong tornado was spawned in northern White County about 3 miles north of Sunnydale along Highway 157. As the tornado tracked northeast, it caused extensive tree and utility pole damage. A few homes and barns were damaged, with a trailer near the White/Independence County line thrown into Independence County. The occupant of the trailer lost her life. The tornado eventually headed into Independence County toward the town of Pleasant Plains. F87MH

Independence

1 SW Pleasant Plains to 5 NE Pleasant Plains	21	1827CST 1835CST	6	300	0	1			Tornado (F2)
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Storm Data and Unusual Weather Phenomena

January 1999

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

ADDITIONS/CORRECTIONS

ARKANSAS, Central and North Central

A strong tornado moved from northern White County into southern Independence County...and affected the town of Pleasant Plains. Just south of town, a trailer was flipped over behind a hardware store and a barn was heavily damaged. In the area around Pleasant Plains...at least 25 homes, a couple of businesses and a church sustained at least some damage from this tornado and from a tornado about an hour and a half earlier. Extensive tree damage was also found. The tornado headed northeast and dissipated about 5 miles northeast of town not long after it crossed Highway 157.

Pulaski County

**10 SW Little Rock
to
Sherwood**

21	1833CST 1853CST	15	700	3	72	Tornado (F3)
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A strong tornado moved from eastern Saline County into southwest Pulaski County. Trees were downed as the tornado entered Pulaski County, with some roof damage to a business along Interstate 30 about 5 miles southwest of Little Rock. The tornado continued northeast into eastern sections of the downtown area...crossing near the intersection of Interstates 30 and 630. In this area, many homes and businesses (at least 235 structures) were heavily damaged or destroyed. It was estimated that around 750 structures sustained at least some damage. This included homes in an historic district which were built at the turn of the century. Trees were also downed throughout the area. One tree fell on a car, taking the life of a woman inside. The Governor's Mansion was not spared, with numerous trees down and one tree damaging a fence around the property. A grocery store was also destroyed at the corner of 17th and Main. One man lost his life at this location. Farther northeast, the tornado weakened as it crossed Interstate 40 just east of Highway 67/167. However, the tornado blew a tree down on a mobile home about 2 miles southeast of Sherwood. A man lost his life as a result. The tornado finally dissipated in Sherwood, with a new tornado forming in southeast Pulaski County. M63MH, M67BU, M34VE

Pulaski County

**7 SE Little Rock to
4 NE Galloway**

21	1842CST 1857CST	11	400	0	6	Tornado (F2)
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A strong tornado was spawned in southeast Pulaski County...or southeast of a dissipating tornado that moved through Little Rock. This new tornado developed about 7 miles southeast of the downtown area...and damaged a sprinkler system used for farming near the intersection of Highways 165 and 391. Farther northeast, the tornado destroyed a storage building and blew down some trees along Highway 70 about 1 to 2 miles east of Highway 391. The tornado then knocked at least four 18-wheelers over on Interstate 40 near Galloway before heading into Lonoke County.

Lonoke County

**1 SE Ward to
1 NE Ward**

21	1918CST 1921CST	2	200	0	1	Tornado (F1)
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A weak tornado was spawned in northern Lonoke County just southeast of Ward. The tornado knocked a single-wide mobile home from its foundation, with one end of the mobile home damaged. A few nearby sheds were damaged or destroyed. A storage building was also damaged with some trees downed in the area. In all, at least 15 homes had at least some damage. The tornado dissipated 1 mile northeast of Ward.

White County

**1 SW Beebe to
1 NE Mc Rae**

21	1925CST 1936CST	8	1000	2	29	Tornado (F3)
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A strong tornado was spawned in southern White County just southwest of Beebe. The tornado moved through Beebe causing extensive damage to homes and businesses. Of all the tornadoes in this particular outbreak, the tornado at Beebe was the strongest. The tornado heavily damaged the new Beebe Junior High School off of Center Street and destroyed a gym behind the school. The Beebe Fire Department and a church also sustained damage. Two pickup trucks were found upside down on Hickory Street, with many old houses damaged or destroyed on Main Street. Trees were downed throughout the area. Also, a girls high school basketball game was cancelled at halftime...and a boys game scheduled for later was called off with word of an approaching tornado. The tornado arrived a half hour later and heavily damaged the high school gym. Fortunately, the building was empty...everyone had gone home. In Beebe, the tornado killed two people...an elderly woman and an infant. The tornado tracked northeast out of Beebe toward McRae, with trees down and building debris noted along Highway 367 between Beebe and McRae. In McRae, widespread damage was found. The old fire station lost a wall and the new fire station across the railroad tracks (along Highway 367) was destroyed. Several mobile homes were overturned next to the new fire station and the post office was heavily damaged. A train signal was also destroyed. All natural gas in town was shut off due to leaks. The tornado finally dissipated about a mile northeast of McRae. F65PH, M0PH

Jackson County

**7 SW Newport to
1 W Newport**

21	2025CST 2032CST	6	100	0	3	Tornado (F1)
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A weak tornado in southeast Independence County moved into western Jackson County about 7 miles southwest of Newport. The tornado moved northeast toward Newport...causing minor damage. Mostly tree and roof damage were noted, with the tornado dissipating on the west side of town.

Storm Data and Unusual Weather Phenomena

April 1999

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

ADDITIONS/CORRECTIONS

OHIO, Southwest

Hamilton County

1 W Addyston to Addyston 09 **0355EST
0400EST** **0.8** **100** **0** **0** **200K** **Tornado (F1)**

After touching down on the north shore of the Ohio River, the tornado destroyed a house, pulled a metal roof from a garage, and downed several trees.

Miami County

2.5 SW Tipp City to Tipp City 09 **0400EST
0410EST** **3.5** **100** **0** **0** **250K** **Tornado (F1)**

The tornado pushed cars off of the road, peeled siding from houses, downed several trees, damaged storage buildings and destroyed several campers and RV's on a sales lot.

Hamilton County

Blue Ash to 3 NE Sixteen Mile Stand 09 **0412EST
0422EST** **8** **440** **4** **65** **82M** **Tornado (F4)**

A tornado began with F2 intensity in Blue Ash in the northeast corner of the county. This tornado moved through Montgomery, Symmes Township, and Loveland before entering Warren county. The intensity of the tornado was F2 and F3 at many points along the track, intensifying to a low end F4 while in Montgomery. The width of the tornado ranged from 100 yards to 1/4 mile wide. Four fatalities occurred; two in a home and the other two in vehicles. About 91 homes and apartments were destroyed along with 37 businesses. Additionally, 197 homes and apartments suffered major damage with 477 others also incurring damage. Twenty six businesses had major damage with 18 others also incurring damage. M40VE, M38VE, M58PH, F52PH

Warren County

Loveland Park to 1 SW Maineville 09 **0422EST
0425EST** **2** **100** **0** **0** **3M** **Tornado (F1)**

The tornado crossed from Hamilton county through southeast Deerfield Township and across the Little Miami River. The tornado damaged several houses, hundreds of mature trees, along with garages and barns.

Adams County

West Union 09 **0430EST
0440EST** **0** **0** **30K** **Thunderstorm Wind (G50)**

Damage was noted to several trees as well as a mobile home.

Warren County

3 NE Maineville to 2 SW Morrow 09 **0433EST
0440EST** **1.5** **100** **0** **0** **2.5M** **Tornado (F2)**

A tornado touched down in eastern Hamilton Township causing heavy damage to a farmstead. The roof of the house and an extension to a barn were destroyed. Further down the path, a house was skewed from its foundation.

Clermont County

Countywide 09 **0449EST
0500EST** **0** **0** **10K** **Thunderstorm Wind (G50)**

Several large trees were downed in the northern section of the county.

Clinton County

2 S Clarksville 09 **0450EST
0503EST** **0** **0** **1M** **Thunderstorm Wind (G100)**

The same storm that produced tornadoes to the southwest of the county moved to the Pansy road area southwest of Clarksville. Three homes and a business were destroyed by the storm and 20 other properties were damaged.

Champaign

Middletown 09 **0500EST
0505EST** **0.5** **220** **0** **0** **300K** **Tornado (F1)**

The tornado caused structural damage to houses and mobile homes, as well as downing several trees.

Union County

Marysville 09 **0510EST
0515EST** **0** **0** **5K** **Thunderstorm Wind (G50)**

Trees were blown down along state route 245.

Franklin County

Columbus 09 **1115EST
1116EST** **0** **0** **Hail (0.75)**

Licking County

Newark 09 **1150EST
1151EST** **0** **0** **Hail (1.00)**

Storm Data and Unusual Weather Phenomena

May 1999

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

ADDITIONS/CORRECTIONS

KANSAS, East

Dickinson County

Elmo 04 1415CST 0 0 Hail (0.75)

Dickinson County

Enterprise 04 1530CST 0 0 Hail (1.75)

Geary County

4 W Junction City 04 1530CST 0 0 Hail (1.75)

Morris County

3 SW Burdick to 2 NW Burdick 04 1555CST 5 150 0 0 27.5K Tornado (F1)

A tornado moved from Marion county into Morris county and touched down southwest of Burdick and moved northeast 5 miles before lifting. It struck a farm destroying part of the roof on a house and damaging a garage, two cars, a barn and some fences.

Geary County

1 S Milford 04 1615CST 0.5 50 0 0 1K Tornado (F0)

A tornado touched down near Milford Lake and did minor damage to a marina.

Morris County

White City 04 1620CST 0 0 Hail (1.00)

Morris County

3 SW Dwight to 1 NW Dwight 04 1630CST 4 100 0 0 Tornado (F1)

The same storm that produced the tornado near Burdick produced another tornado that touched down over open country near Dwight and moved northeast 4 miles before it dissipated.

Geary County

11 SE Junction City to 12 ESE Junction City 04 1654CST 5 100 0 0 Tornado (F0)

Another tornado touched down southeast of Junction City over open country and moved northeast 5 miles before dissipating.

Wabaunsee

3 N Alma to 4 NNE Alma 04 1730CST 1.5 75 0 0 Tornado (F0)

The fourth tornado touched down over open country north of Alma and moved a short distance over open country before dissipating.

Pottawatomie

4 NW Emmett 04 1810CST 0.2 25 0 0 Tornado (F0)

The fifth tornado touched down over open country near Emmett.

Jackson County

5 SW Soldier 04 1837CST 0.2 30 0 0 Tornado (F0)

The final touchdown occurred over open country southwest of Soldier.

Nemaha County

1 S Bancroft 04 1857CST 0 0 Hail (0.75)

Nemaha County

1 S Wetmore 04 1925CST 0 0 Hail (1.00)

Brown County

2 SW Hiawatha 04 1958CST 0 0 Hail (0.75)

Severe thunderstorms developed over northeast and east central Kansas the afternoon of the fourth and continued into the evening hours producing large hail and at least 7 tornadoes (listed separately). One thunderstorm moved northeast from Morris county to Jackson county and produced six of the 7 tornadoes.

KANSAS, North Central

Mitchell County

3.5 SW Hunter to 3 W Hunter 04 1354CST 1 20 0 0 0 0 Tornado (F0)

A weak tornado that had set down in Lincoln county entered Mitchell county southwest of Hunter. The tornado was quickly lifted after entering the county near Kansas Highway 181. No damage was reported.

Storm Data and Unusual Weather Phenomena

May 1999

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

ADDITIONS/CORRECTIONS

KENTUCKY, Eastern

Pike County

Virgie	18	1515EST 1545EST			0	2	150K	0	Flash Flood
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3.75 inches of rain fell in less than an hour on the long branch area. Flooding brought rocks, trees and other debris down a hillside near Virgie. A garage containing two cars collapsed, a house and mobile home received major damage and four houses received minor damage. Two people received leg injuries as they were caught in the debris flow.

MISSISSIPPI, Central

Sunflower County

Countywide	05	1546CST			0	0			Hail (0.75)
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Washington

Wayside	05	1650CST			0	0			Hail (1.00)
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Sunflower County

Indianola	05	1652CST			0	0			Hail (0.75)
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Bolivar County

Cleveland	05	1705CST			0	0			Thunderstorm Wind (G52)
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Bolivar County

Pace	05	1715CST			0	0	2K		Thunderstorm Wind
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Several trees were blown down.

Washington

Leland	05	1720CST			0	0			Hail (0.88)
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Washington

3 W Leland	05	1720CST			0	0			Hail (0.75)
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Issaquena County

Mayersville	05	1728CST			0	0			Hail (0.88)
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Issaquena County

Mayersville	05	1728CST			0	0	10K		Thunderstorm Wind
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Several power poles were snapped in half.

Leflore County

Countywide	05	1730CST			0	0			Hail (0.75)
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Sharkey County

Anguilla	05	1739CST			0	0			Hail (0.75)
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Sunflower County

Countywide	05	1745CST			0	0			Hail (0.75)
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Washington

Hollandale	05	1745CST			0	0	20K		Thunderstorm Wind
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A house received major damage.

Washington

Hollandale	05	1754CST			0	0	25K		Thunderstorm Wind
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Several homes received roof damage.

Yazoo County

3 N Yazoo City	05	1800CST	1	40	0	0			Tornado (F0)
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This weak tornado moved across an open field and no damage was reported.

Humphreys

2 S Belzoni	05	1820CST	1	40	0	0	2K		Tornado (F0)
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This weak tornado blew down several trees along highway 49.

Leflore County

5 S Greenwood	05	1820CST	1	50	0	0	10K		Tornado (F1)
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This short-lived weak tornado blew a couple of mobile homes over.

Holmes County

5 NE Durant	05	1830CST			0	0	2K		Thunderstorm Wind
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Several trees were blown down.

Carroll County

Black Hawk	05	1845CST			0	0	1K		Thunderstorm Wind
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Several trees were blown down.

Storm Data and Unusual Weather Phenomena

May 1999

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

ADDITIONS/CORRECTIONS

MISSISSIPPI, Central

Montgomery

4 W Duck Hill to 4 E Duck Hill	05	1850CST 1858CST			0	0	200K	Thunderstorm Wind
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Straight line winds caused widespread tree damage in an area three quarter miles wide and eight miles long. Several homes received damage and a couple of barns were destroyed.

Carroll County

Vaiden	05	1900CST			0	0		Hail (1.00)
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Montgomery

Winona	05	1902CST			0	0		Hail (1.00)
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Grenada County

Grenada	05	1904CST			0	0	20K	Thunderstorm Wind
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Trees and power lines were blown down and roofing was torn off of a commercial building.

Humphreys

2 N Belzoni	05	1915CST			0	0	20K	Thunderstorm Wind
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Numerous power poles were blown down along highway 49 and two commercial buildings received minor damage.

Humphreys

Belzoni Muni Arprt	05	1915CST			0	0	15K	Thunderstorm Wind
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A couple of planes were overturned and a hangar received minor damage.

Carroll County

3 E Carrollton	05	1920CST			0	0	1K	Thunderstorm Wind
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Several trees were blown down.

Attala County

7 N Kosciusko	05	1923CST			0	0	15K	Thunderstorm Wind
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Several trees were blown down onto a mobile home.

Sunflower County

8 NW Boyer	05	1925CST			0	0	5K	Thunderstorm Wind
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Minor roof damage occurred.

Holmes County

Cruger	05	1930CST			0	0	60K	Thunderstorm Wind
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Two homes were destroyed and several trees were blown down.

Webster County

Tomnolen	05	1945CST	1	40	0	0		Tornado (F0)
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This weak tornado crossed an open field and no damage was reported.

Holmes County

Countywide	05	1950CST 2150CST			0	0	20K	Flash Flood
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Torrential rain flooded numerous roads and a few homes.

Humphreys

Countywide	05	1950CST 2150CST			0	0	25K	Flash Flood
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Torrential rain flooded numerous roads and a few homes.

Montgomery

Countywide	05	1950CST 2150CST			0	0	20K	Flash Flood
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Torrential rain flooded numerous roads and a few homes.

Clay County

Countywide	05	2000CST			0	0		Hail (0.75)
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Yazoo County

5 W Yazoo City	05	2043CST			0	0	25K	Hail (1.75)
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Golfball size hail knocked the windows out of a police car and produced minor damage to other vehicles and homes.

Yazoo County

5 W Yazoo City	05	2046CST			0	0	2K	Thunderstorm Wind
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Several trees were blown down.

Hinds County

Terry	05	2330CST			0	0		Hail (0.75)
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Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
DST	- Daylight Savings Time
LST	- Local Standard Time
LDT	- Local Daylight Time

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the “G” indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

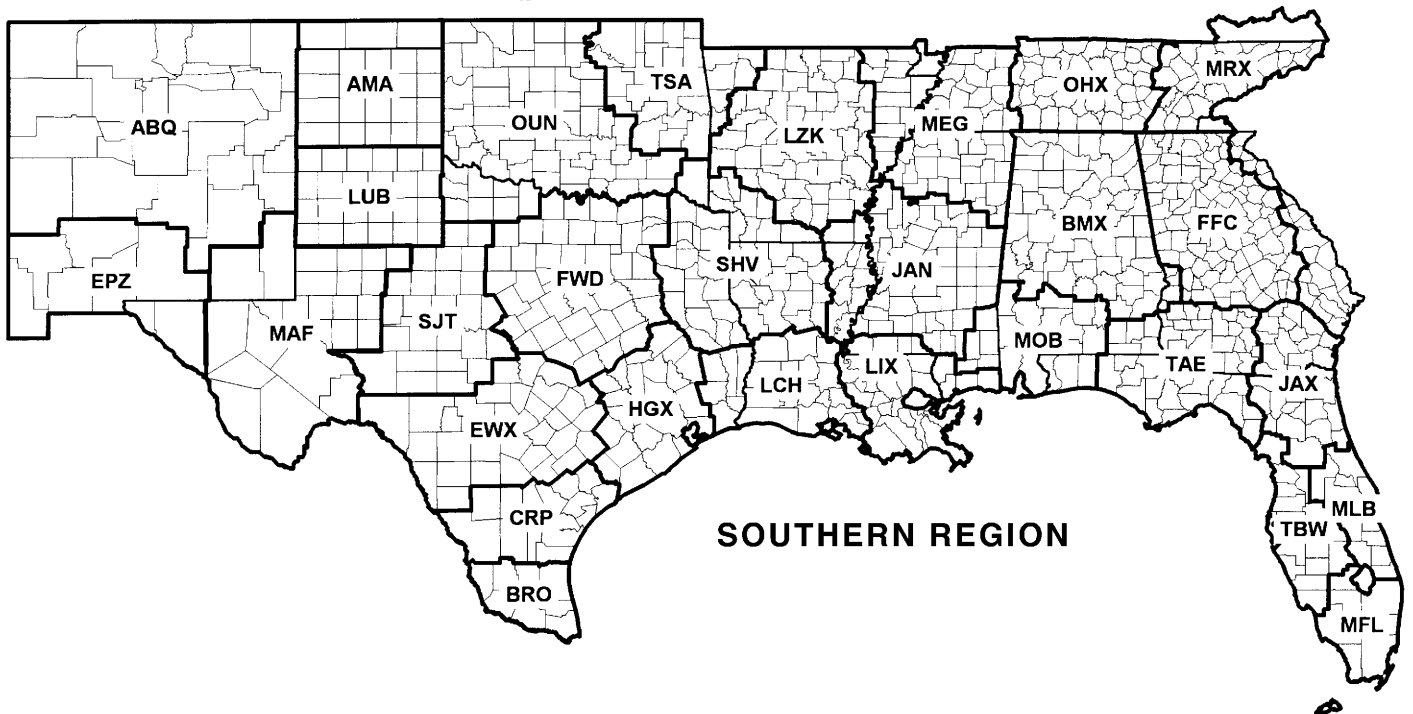


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

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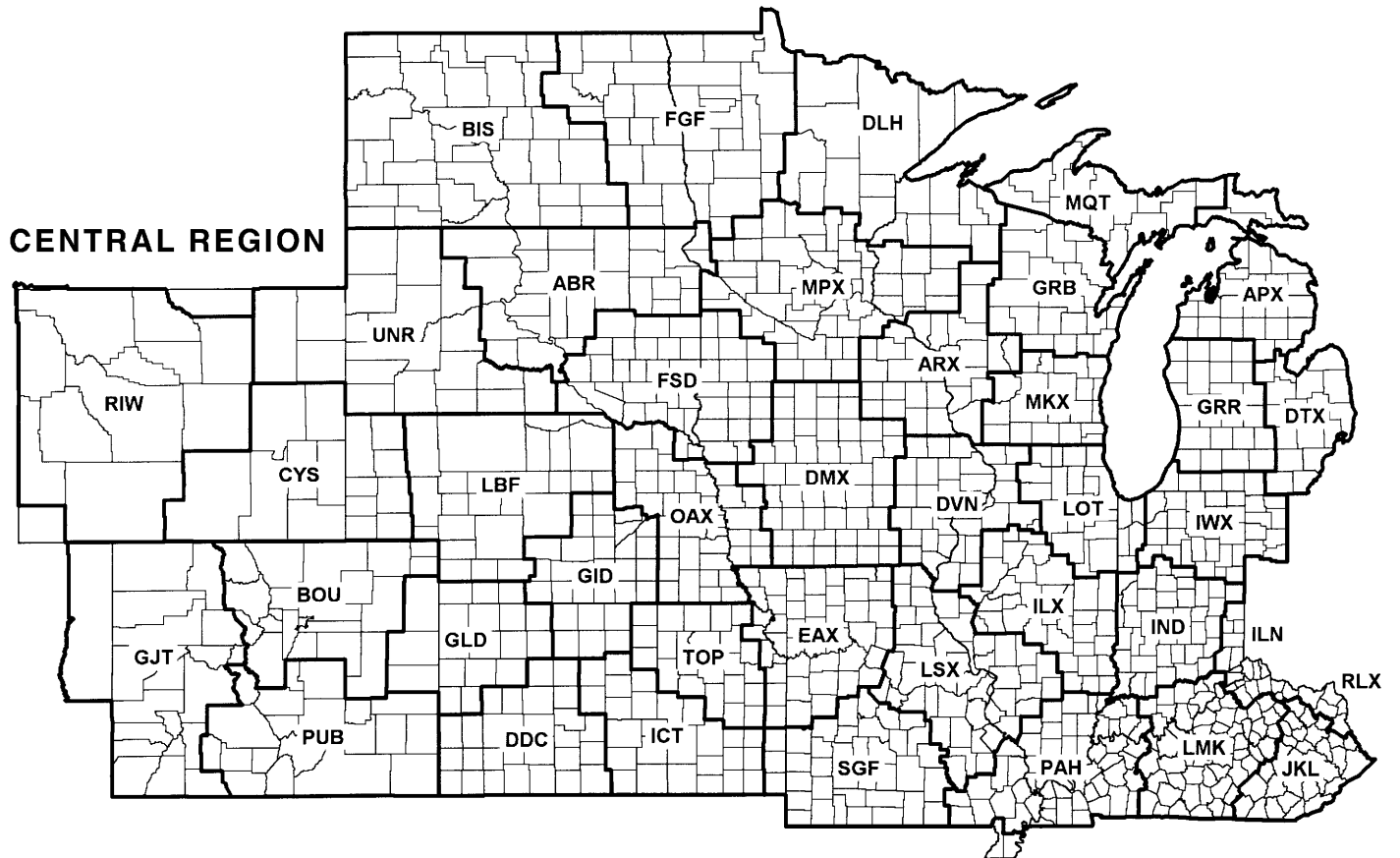
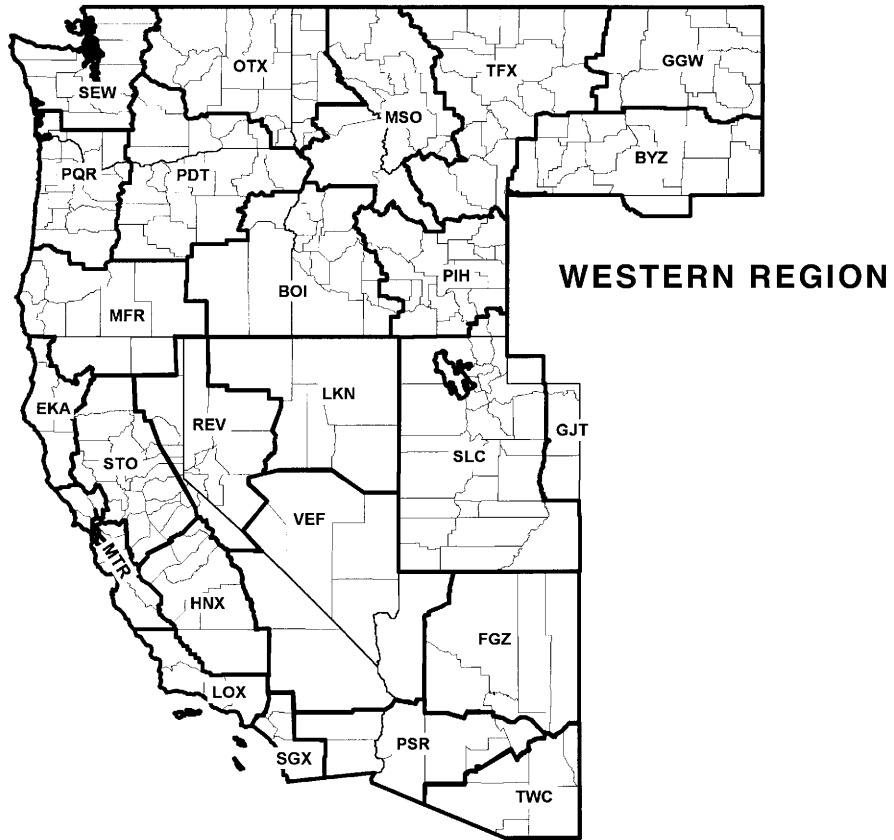


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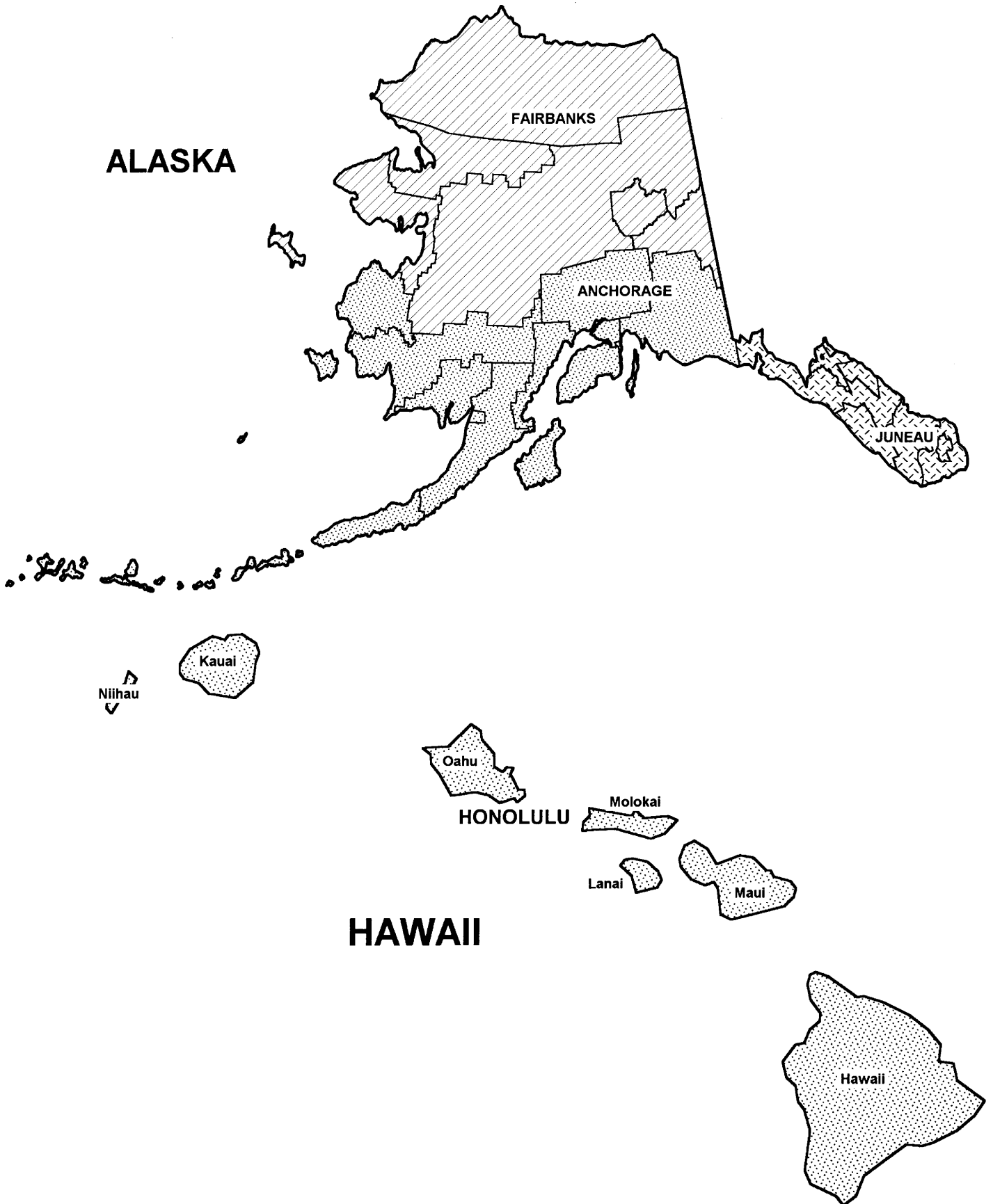


SOUTHERN REGION

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MODERNIZED COUNTY WARNING AREAS



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