

APRIL 1999
VOLUME 41
NUMBER 4

STORM DATA



AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS



noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

Cover: An F4 tornado moves through northwest Louisiana on April 3, 1999, killing seven people and causing several million dollars in property damage. See page 5 for details. (*Photograph courtesy of Bruce Burkman, WCM, NWS, Shreveport, LA*)

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STORM DATA

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National Climatic Data Center

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

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

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

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

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

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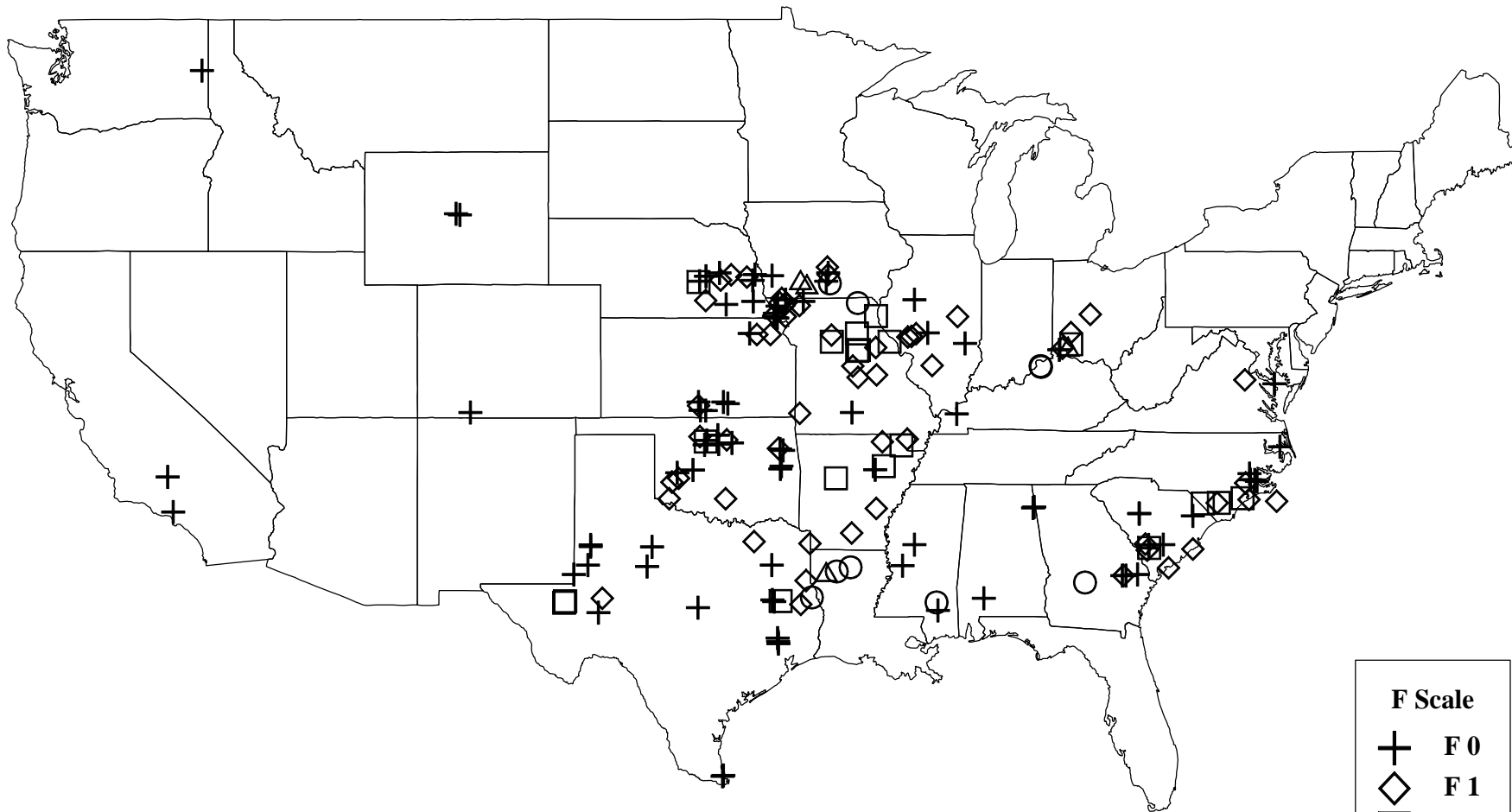
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"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733."



Thomas R. Karl
Director,
National Climatic Data Center

April 1999 Confirmed Tornadoes



3

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	84	56	19	9	4	0	172

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

The monthly tornado map which normally appears on page 4 is not available for the month of April.

It will be printed in a subsequent
issue

OUTSTANDING STORMS OF THE MONTH

1. April Tornadoes cause major damage in five southeast states.

A round of severe weather struck several southeast states on April 3, 1999. The storm that produced the tornadoes was a “*Supercell*” (A single thunderstorm with an intense updraft, often rising higher than 60,000 feet in altitude). An F4 tornado (wind speeds of 207-260 mph) developed at approximately 4:00 P.M., in northeast Texas, ahead of a cold front, along a “*dryline*” (An area of strong moisture contrast at and near the earths surface). The tornado crossed into northwest Louisiana, just north of Shreveport and entered Bossier Parish. The tornadoes caused seven fatalities, hundreds of injuries and several million dollars in property damage as nearly 400 structures were severely damaged or destroyed.



Above Left: Total destruction in the Hay Meadow mobile home park, Hay Meadow, LA., 10 miles northeast of Shreveport.

Above Right: Overturned vehicles, piles of rubble and cement slabs.

Below Left: Twisted metal beams and piled debris in the Hay Meadow mobile home park.

Below Right: The remnants of a single family home near Haw Meadow, LA.

(Photographs courtesy of Bruce Burkman, Meteorologist, NWS, Shreveport, LA)





Top & Bottom: Damage to the Palmetto Park sub-division in the Cypress Bayou area. Several million dollars in damage occurred here as well as 3 fatalities.

Right: The steeple of this church in Logansport, LA (De Soto Parish) is toppled by the high winds of an F3 tornado.

(Photographs courtesy of Bruce Burkman, Meteorologist, NWS, Shreveport, LA)



Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm	
ALABAMA, North Central										
ALZ006	Madison	03	1600CST			0	0	0	0	Excessive Heat
	A new record high temperature of 88 degrees was observed at the Huntsville International Airport.									
ALZ006	Madison	09	1600CST			0	0	0	0	Excessive Heat
	A new record high temperature of 88 degrees was observed at the Huntsville International Airport.									
ALZ006	Madison	01	0000CST			0	0	0	0	Excessive Heat
	30	2359CST	The average monthly temperature was 65.6 degrees. This reading tied the second warmest ever recorded for April.							
ALZ024	Jefferson	03	1600CST			0	0	0	0	Excessive Heat
	A new record high temperature of 87 degrees was observed at the Birmingham International Airport.									
ALZ024	Jefferson	01	0000CST			0	0	0	0	Excessive Heat
	30	2359CST	The average monthly temperature was 67.2 degrees. This reading was the fourth warmest ever recorded for April.							
ALZ044	Montgomery	03	1600CST			0	0	0	0	Excessive Heat
	A new record high temperature of 87 degrees was observed at Dannelly Field.									
ALZ044	Montgomery	10	1600CST			0	0	0	0	Excessive Heat
	A new record high temperature of 90 degrees was observed at Dannelly Field.									
Franklin County	Russellville	03	2307CST			0	0	0	0	Hail (1.00)
	Quarter size hail fell in downtown Russellville and 50 mile an hour winds were reported.									
Colbert County	Littleville	03	2317CST			0	0	0	0	Thunderstorm Wind (G50)
	Three large trees were knocked down in the Huckleberry Hill area near Littleville.									
Franklin County	Russellville	03	2320CST			0	0	25K	0	Lightning
	Lightning struck a service station and started a fire. The gas station sustained considerable damage.									
Lawrence County	Town Creek	03	2336CST			0	0	8K	0	Thunderstorm Wind (G50)
	Power lines were knocked down along SR 20 and debris covered the roadway.									
Lawrence County	Hatton	03	2338CST			0	0	5K	0	Thunderstorm Wind (G55)
	One chicken house was totally destroyed in Hatton.									
Lauderdale County	Lexington	03	2315CST			0	0	5K	0	Thunderstorm Wind (G50)
	One traffic light was blown down in Lexington.									
Autauga County	9 NNW Pine Level	06	1545CST			0	0	0	0	Hail (1.75)
	Golfball size hail fell on Interstate 65 at mile marker 198 in northern Autauga County.									
Sumter County	Bellamy	14	2330CST			0	0	0	0	Hail (0.75)
	Dime size hail fell in Bellamy and in Coatopa.									
Marengo County	4 S Dixons Mills	15	0100CST			0	0	2K	0	Thunderstorm Wind (G55)
	Trees were knocked down along US 43 near the Marengo-Clark County line. One home sustained minor roof damage.									
Dallas County	Selma	15	0144CST			0	0	0	0	Thunderstorm Wind (G50)
	A few large trees were blown over and some large limbs blown down in downtown Selma.									
Dallas County	Minter	15	0217CST			0	0	0	0	Thunderstorm Wind (G50)
	Several trees were knocked down in southern Dallas County near Minter.									
Bibb County	9 NE Centerville	15	0220CST			0	0	0	0	Thunderstorm Wind (G50)
	One large tree and several large limbs were knocked down across SR 25 just northeast of the Six Mile community.									

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	
ALABAMA, North Central									
Bullock County									
Perote	15	0445CST			0	0	1K	0	Thunderstorm Wind (G50)
Trees were blown down near Perote and one out-building was damaged.									
Bullock County									
Countywide	15	0419CST			0	0	10K	0	Thunderstorm Wind (G55)
Trees were knocked down over a widespread area in southern Bullock County. Most of the damage occurred south of a line from Halls Crossroads to Smuteye.									
Barbour County									
6 NW Eufaula	15	0540CST			0	0	10K	0	Thunderstorm Wind (G50)
Several trees were knocked down in northern Barbour County. The most concentrated damage was near Lugo.									
Russell County									
6 W Phenix City	15	0450CST			0	0	40K	0	Thunderstorm Wind (G65)
One mobile home was destroyed, three mobile homes sustained minor damage, a few houses had minor roof damage, one home had its roof ripped off, and trees and power lines were knocked down on US 80 west of Phenix City.									
Russell County									
5 S Cottonton	15	0530CST			0	0	0	0	Hail (1.00)
Russell County									
5 S Cottonton	15	0530CST			0	0	2K	0	Thunderstorm Wind (G50)
Several trees were knocked down and one inch diameter hail was reported 5 miles south of Cottonton near the Chattahoochee River.									
Marshall County									
Highpoint	19	1030CST 1045CST			0	0	0	0	Hail (0.88)
Marshall County									
Warrenton	19	1030CST 1045CST			0	0	2K	0	Thunderstorm Wind (G50)
Trees were blown down in Warrenton. Nickel sized hail fell in High Point. Numerous power outages were also reported in Guntersville.									
Etowah County									
Hokes Bluff	19	2245CST			0	0	0	0	Hail (0.75)
Dime size hail or larger fell in Hokes Bluff.									
Cullman County									
4 W Cullman	20	0008CST			0	0	0	0	Hail (1.00)
One inch diameter hail fell near Baldwin.									
Cullman County									
Cullman	20	0015CST			0	0	0	0	Hail (0.75)
Dime size hail fell in Cullman.									
Cullman County									
Fairview	20	0029CST			0	0	3K	0	Hail (1.75)
Golfball size hail fell and several power outages were reported in the Fairview area and in other parts of northeastern Cullman County.									
Blount County									
Brooksville	20	0045CST			0	0	0	0	Hail (1.00)
Quarter sized hail fell near Brooksville.									
Lauderdale County									
10 NE Florence	23	1640CST			0	0	0	0	Hail (1.00)
Dime to quarter sized hail fell in the Happy Hallow area northeast of Florence.									
Lauderdale County									
Antioch	23	1705CST 1708CST			0	0	0	0	Hail (1.00)
Quarter sized hail fell in Antioch. Quarter size hail also fell in the Elgin area.									
Etowah County									
Southside	15	0300CST			0	0	5K	0	Lightning
A house was struck by lightning and sustained damage from the ensuing fire.									
Madison County									
Toney	23	1640CST			0	0	15K	0	Lightning
One home sustained major damage when a fire broke out from a lightning strike.									

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	
<u>ALABAMA, North Central</u>									
Pickens County									
Ethelsville	24	1315CST			0	0	5K	0	Hail (1.75)
Golfball size hail fell in Ethelsville.									
Calhoun County									
Weaver	24	1625CST			0	0	0	0	Hail (0.75)
Dime size hail fell in Weaver.									
Calhoun County									
Alexandria to Weaver	24	1600CST 1800CST			0	0	5K	0	Flash Flood
Several roads were flooded in Alexandria and in the Weaver area.									
Calhoun County									
Weaver	24	1415CST			0	0	0	0	Hail (0.75)
Dime size hail reported near Weaver.									
Marengo County									
Myrtlewood	24	1545CST			0	0	0	0	Hail (0.75)
Dime size hail fell in Myrtlewood.									
Sumter County									
Panola	24	1835CST			0	0	5K	0	Thunderstorm Wind (G60)
The roof was blown off a trailer in Panola.									
Winston County									
Arley	26	0554CST			0	0	0	0	Hail (0.75)
Dime size hail fell in Arley.									
Pike County									
Troy	27	1005CST			0	0	15K	0	Thunderstorm Wind (G55)
Numerous trees and power lines blown down in the city of Troy.									
Russell County									
Pittsview	27	1145CST			0	0	8K	0	Thunderstorm Wind (G55)
Numerous trees and power lines knocked down just east of Pittsview near the intersection of CR 4 and CR 39.									
Barbour County									
Texasville	27	1445CST			0	0	0	0	Hail (1.00)
Nickel to quarter size hail fell in Texasville.									
Dekalb County									
Ft Payne	27	1555CST			0	0	75K	0	Lightning
Lightning apparently struck a pole at the only five-way intersection in Fort Payne knocking out power and severely damaging a traffic signal and the associated controller.									
Barbour County									
Texasville	28	1445CST			0	0	0	0	Hail (1.00)
Nickel to quarter size hail was reported by the Emergency Management Agency in Texasville.									
Morgan County									
Decatur	04	0005CST			0	0	3K	0	Thunderstorm Wind (G50)
The Emergency Management Agency reported at least one telephone pole holding a warning siren was snapped off during a thunderstorm. Time is estimated.									
Dekalb County									
1 NW Fyffe	27	1240CST 1241CST	0.5	25	0	0	14K	0	Tornado (F0)
What was believed to be a small, weak tornado touched down on CR 50 at the Bailey farm damaging a chicken house and a barn, and taking some shingles from a house.									
Dekalb County									
Rainsville	27	1305CST	0.3	25	0	0	4K	0	Tornado (F0)
Several eyewitnesses reported seeing a funnel when what may have been a weak tornado touched down on the northside of Rainsville downing a few trees and causing minor damage at a building supply store.									
<u>ALABAMA, Southeast</u>									
Geneva County									
Bellwood	25	0455EST			0	0	1K		Thunderstorm Wind
Numerous trees down in Bellwood and Coffee Springs reported by county EMA.									
Houston County									
Cottonwood	27	1305EST			0	0	1K		Thunderstorm Wind
Numerous trees down reported by county EMA.									

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	
<u>ALABAMA, Southeast</u>									
Henry County									
2 S Abbeville	28	1655EST			0	0			Hail (0.75)
Dime size hail reported by county EMA.									
<u>ALABAMA, Southwest</u>									
Wilcox County									
Camden	06	1610CST 1615CST			0	0	3K		Thunderstorm Wind (G55)
High winds blew several trees down 6 miles east of Camden.									
Monroe County									
Monroeville	06	1745CST 1750CST			0	0	5K		Thunderstorm Wind (G55)
High winds blew several trees down just southeast of Monroeville.									
Conecuh County									
Repton	06	1755CST 1800CST			0	0	5K		Thunderstorm Wind (G55)
High winds blew trees down.									
Choctaw County									
Gilbertown to Silas	15	0000CST 0015CST			0	0	25K		Thunderstorm Wind (G55)
High winds blew several trees down in the Shady Grove area of Gilbertown, off of U.S. Highway 84. Three houses sustained roof and window damage by the fallen trees. Power lines were also blown down near the area. More trees were blown down on County Road 6.									
Clarke County									
Thomasville	15	0100CST 0110CST	3	150	0	0	100K		Tornado (F0)
A F0 tornado touched down along County Road 48 at Bashi Hwy or about 3 miles northwest of Thomasville. About 100 trees were blown down. Some trees were snapped off about 40 feet in the air; the branches below were completely stripped off. The tornado then skipped northeast, briefly touching down along U.S. Highway 43 or 3 miles north of Thomasville. Again, trees were blown down along with power lines and telephone wires. An automobile was damaged when it hit a tree across a road. No structural damage to any homes or injuries were reported. The tornado lifted back into the cloud just northeast of U.S. Highway 43. Most of the fallen trees were facing to the northeast.									
Choctaw County									
Ararat	24	1625CST			0	0			Hail (0.75)
Dime size hail was reported just east of Ararat.									
Clarke County									
Campbell	24	1659CST 1705CST			0	0			Hail (1.50)
Nickel to ping pong size hail was reported near Campbell.									
Clarke County									
Winn	24	1730CST 1732CST			0	0	4K		Thunderstorm Wind (G50)
Trees and power lines were blown down near Winn. Marble size hail was also reported.									
Choctaw County									
South Portion	27	1530CST 1615CST			0	0	3K		Flash Flood
Several secondary streets around Gilbertown were closed for a while due to high water. WSR-88D estimated rainfall totals of four to five inches in the south part of the county.									
Covington County									
Wing	29	1115CST 1116CST			0	0			Hail (0.75)
Dime size hail was reported near Wing.									
Mobile County									
Bayou La Batre	29	1208CST 1209CST			0	0			Hail (1.00)
Quarter size hail was reported near Bayou La Batre.									
Escambia County									
Dixie	29	1100CST 1101CST			0	0			Hail (0.75)
Dime size hail was reported just south of Dixie.									

Storm Data and Unusual Weather Phenomena

April 1999

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

AKZ003-006-009>010 Lower Kobuk Valley-Northern Seward Peninsula - Southern Seward Peninsula-Eastern Norton Sound - St. Lawrence Island-Bering Strait Coast - Yukon Delta

04	0835AST								
05	0700AST								Blizzard

The weather front from a strong Low Pressure center in the southwest Bering Sea moved northeast over western Alaska, eventually dissipating over the Brooks Range Monday morning April 5th. Blizzard conditions occurred at:
 Zone 10: Cape Romanzof, Emmonak, Hooper Bay
 Zone 9: Gambell (close: visibility ½ statute mile)
 Zone 6: Golovin, Nome, Unalakleet
 Zone 3: Kotzebue (close: visibility ½ statute mile), Red Dog Mine

AKZ001

Arctic Slope Coastal

15	0835AST								
16	0100AST								Blizzard

A small low pressure center moved from north of Kotzebue to the western Brooks Range, while high pressure persisted over the Arctic Ocean. Blizzard conditions occurred only at Point Lay on the western Arctic coast.

AKZ007

Tanana Valley

16	0353AST								
	0700AST								High Wind (G49)

While a weather system moved north over Bristol Bay, high pressure over South Central Alaska increased and caused a period of strong winds through the Alaska Range, most notably Windy Pass, where Healy observed a maximum gust to 56 mph.

AKZ003-006-009>010 Lower Kobuk Valley-Northern Seward Peninsula - Southern Seward Peninsula-Eastern Norton Sound - St. Lawrence Island-Bering Strait Coast - Yukon Delta

29	0700AST								
	1417AST								Blizzard

A moderate weather front moved northeast over the west coast of Alaska producing blizzard conditions at:
 Zone 10: Saint Marys
 Zone 9: Tin City
 Zone 6: Nome, Golovin
 Zone 3: Kotzebue, Shishmaref, Kivalina, Point Hope (close: visibility 1/2 statute mile)

AKZ007

Tanana Valley

30	0200AST								
	0600AST								High Wind (G50)

A weather front moving east across the western Alaska Range produced strong south winds through Windy Pass of the Alaska Range, where Healy recorded a maximum gust to 58 mph.

ALASKA, Southeast

NOT RECEIVED.

ALASKA, Southern

AKZ011-015>021 Kuskokwim Delta - Cook Inlet - Bristol Bay Coastal - Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

01	0000AST								
02	1800AST								High Wind (G85)

AKZ013-017

Susitna Valley - Central Gulf Coast

02	0000AST								
	2359AST								Heavy Snow

A moderate to strong front, associated with a moderate low, moved through the eastern Aleutians Wednesday on its way northeastward into the State. By 9am Thursday, the front had elongated into the central mainland, extending in a long arc from just east of Norton Sound to Fairbanks then southeast through Yakutat and southward into the eastern Gulf of Alaska and northeast Pacific. Increasingly strong southeast winds developed ahead of the front...diminishing abruptly as the front passed.

Unofficial reports indicated that winds around the city of Cordova, late Wednesday and Thursday, channelled through Eyak Lake, may have reached in excess of 80 mph. In the Cordova Boat Harbor, a houseboat registered a 67 mph gust Wednesday night. Winds at the Middleton Island AWOS and at the deep water buoys located at the southeast entrance to Prince William Sound gusted up to 63 mph late Wednesday and Thursday.

Along the upper Anchorage Hillside, wind gusts reached 78 mph at Glen Alps Wednesday evening through early Thursday morning, with the front passing around 3am Thursday. At the Portage Visitor Center, blizzard conditions were reported for most of Wednesday and into early Thursday...as adjusted ASOS winds peaked at 98 mph just prior to the frontal passage. Winds around Seward also gusted close to 40 mph from the south as the front moved through Resurrection Bay Thursday morning.

Winds were gusty in other areas ahead of the front, gusting between 40 and 50 mph across Kodiak Island from noon to just before

Storm Data and Unusual Weather Phenomena

April 1999

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

midnight Wednesday.

Across the Alaska Peninsula, adjusted ASOS wind gusts topped out at 52 mph Wednesday as reported at Cold Bay.

In the Bristol Bay zone, adjusted east wind gusts at the Iliamna ASOS reached 61 mph.

Heavy snow again fell across much of the Susitna Valley north of Anchorage...where travel advisories were posted Friday. Reports received indicated heavy snow from Wasilla to Cantwell...with many areas picking up 4-6 inches in 6 - 9 hours Friday. Heavy snow was again reported around Prince William Sound with another 1-2 feet of new snow reported at several areas.

In the Copper River Basin, peak winds reached 40 mph from the south at the Gulkana airport Wednesday and again Thursday.

The parent low reached at least as low as 972 mbs about 200 miles south of Segum Island 3am Wednesday, then moved to about 60 miles south of Port Heiden at 3am Thursday...where it began to weaken. Part of the original occlusion, to the north northwest of the center, merged with the arctic front late Wednesday. Cold air, modified across the open waters of the north Pacific and Gulf of Alaska, wrapped around the parent low and caused the arctic front to form south of the low late Wednesday. Brisk west and northwest winds developed along the back side of the low and behind the north northwest/south southeast extending arctic front.

Wind gusts reached 60 mph at both Adak and Dutch Harbor Wednesday and early Thursday on the back side of the low.

Brisk north wind gusts were reported across the Pribilofs Wednesday, with speeds reaching 63 mph.

Adjusted ASOS northwest wind gusts peaked at 58 mph around Cold Bay Thursday morning, finally dropping below 40 mph just after noon Thursday.

Adjusted north wind gusts of 63 mph were also reported at the Cape Romanzof AWOS just after midnight early Thursday morning. Wind chills at Cape Romanzof also dipped down to 40 below.

At Cape Newenham, adjusted wind gusts reached 51 mph Thursday.

As the cold air moved through, gusty westerly winds reached an adjusted 48 mph at King Salmon late Thursday (noon to midnight).

These gusty northwest winds spread into Kodiak Island Thursday and Friday. ASOS adjusted speeds of 53 mph were reported at the Coast Guard Base in Kodiak from just before midnight Thursday through much of Friday.

Winds picked up around Prince William Sound, with westerly gusts reaching 52 mph at Middleton Island Friday morning.

AKZ014

Copper River Basin

03	1200AST 1800AST	1	0	5K	Avalanche
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Odman Schmalzried, 40, of Wasilla, and friends were snowmachining in the Chugach Mountains south of Eureka Lodge Saturday afternoon, when an avalanche buried him and his snow machine. His body and the snow machine were found Sunday. M40OU

AKZ015-017

Cook Inlet - Central Gulf Coast

02	0000AST 2359AST	0	0	High Wind (G60)
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Gusty northwesterly winds were observed Friday on the back side of a weakening low just south of Prince William Sound. The low was a 992mb center near Middleton Island at 3am Friday...but had weakened to a 1016mb center 90 miles southeast of Middleton Island at 3am Saturday.

Adjusted ASOS wind gusts reached 46 mph at the Homer airport and 47 mph at Seward Friday afternoon.

At Middleton Island, adjusted ASOS wind gusts reached 69 mph from the west between 9pm and 11pm Friday.

AKZ011-015>021

Kuskokwim Delta - Cook Inlet - Bristol Bay Coastal - Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

03 05	0000AST 2100AST	0	0	High Wind (G73)
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AKZ015-017

Cook Inlet - Central Gulf Coast

04 05	1200AST 1500AST	0	0	Heavy Snow
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A strong 966mb low, just southeast of the Kamchatka Peninsula at 3pm Saturday, moved steadily northeast...across the western Aleutians and southcentral Bering Sea, finally weakening to a 988mb center just southwest of Hooper Bay, along the southwest

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	

ALASKA, Southern

Alaskan coast Monday. Strong westerly winds were observed along the south and southwest quadrants of the storm...finally diminishing below 40 mph Monday morning as the low weakened.

Sketchy reports across the Aleutians recorded gusts as high as 69 mph at Adak Sunday morning. At Dutch Harbor, blowing spray and 'water devils' were reported from Sunday morning through midday Monday, when winds finally diminished below 40 mph. Highest reported gusts reached 62 mph from the southwest at Dutch Harbor.

Across the Pribilofs, adjusted ASOS wind gusts reached 62 mph from 3am Sunday through 9pm Sunday.

Across the Alaska Peninsula, adjusted ASOS winds gusted to 63 mph from the west, as heavy snow squalls moved through the area late Monday morning through Monday evening.

Strong southerly winds were also reported on the east side of a frontal low...which moved from 120 miles south of Saint Lawrence Island at 10 am Sunday to near Port Clarence (southwestern corner of the Seward Peninsula) at 4am Monday.

Adjusted ASOS wind gusts along the western Bristol Bay zone, reached 69 mph at Cape Newenham and 69 mph at King Salmon Sunday. Winds finally diminished below 40 mph along the Bristol Bay area Monday morning. Blizzard conditions in snow and blowing snow accompanied the strong winds across extreme western Bristol Bay.

South winds gusted to 84 mph at Cape Romanzof (in the Kuskokwim Delta zone) and 63 mph at Mekoryuk (on Nunivak Island) Sunday morning. Winds diminished below 40 mph along the Kuskokwim Delta area very late Sunday night. These winds were also accompanied by blizzard conditions in heavy snow and blowing snow across most of the Kuskokwim Delta.

The front associated with this intense low also was preceded by brisk southeast winds and also produced locally heavy snows.

Winds in advance of the front gusted 40 to 45 mph across the Pribilofs late Saturday, to 63 mph along the Alaska Peninsula (as adjusted for the ASOS at Cold Bay) late Saturday through Sunday afternoon.

Prefrontal wind gusts as high as 50 mph were reported across Kodiak Island around noon Sunday (at the Booth Lake site). Winds diminished with the frontal passage. The front moved through the northeast corner of Kodiak Island just before 9pm Sunday.

Adjusted ASOS wind gusts reached 58 mph at the Portage Visitor Center late Sunday through Monday morning. Around Prince William Sound, gusts reached 46 mph. In both areas, locally heavy snows were reported. Silvertip DOT site, near the community of Hope, received a reported 25 inches of snow from Monday morning to Tuesday morning. Whittier, at the head of Passage Canal, received a reported 1 to 1 1/2 feet of new snow during an 18 hour period from 6pm Monday to noon Tuesday. Close to 1 foot of new snow was also reported around Valdez.

A strong 966mb low, just southeast of the Kamchatka Peninsula at 3pm Saturday, moved steadily northeast...across the western Aleutians and southcentral Bering Sea, finally weakening to a 988mb center just southwest of Hooper Bay, along the southwest Alaskan coast Monday. Strong westerly winds were observed along the south and southwest quadrants of the storm...finally diminishing below 40 mph Monday morning as the low weakened.

Sketchy reports across the Aleutians recorded gusts as high as 69 mph at Adak Sunday morning. At Dutch Harbor, blowing spray and 'water devils' were reported from Sunday morning through midday Monday, when winds finally diminished below 40 mph. Highest reported gusts reached 62 mph from the southwest at Dutch Harbor.

Across the Pribilofs, adjusted ASOS wind gusts reached 62 mph from 3am Sunday through 9pm Sunday.

Across the Alaska Peninsula, adjusted ASOS winds gusted to 63 mph from the west, as heavy snow squalls moved through the area late Monday morning through Monday evening.

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Storm Data and Unusual Weather Phenomena

April 1999

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

The front associated with this intense low also was preceded by brisk southeast winds and also produced locally heavy snows.

Winds in advance of the front gusted 40 to 45 mph across the Pribilofs late Saturday, to 63 mph along the Alaska Peninsula (as adjusted for the ASOS at Cold Bay) late Saturday through Sunday afternoon.

Prefrontal wind gusts as high as 50 mph were reported across Kodiak Island around noon Sunday (at the Booth Lake site). Winds diminished with the frontal passage. The front moved through the northeast corner of Kodiak Island just before 9pm Sunday.

Adjusted ASOS wind gusts reached 58 mph at the Portage Visitor Center late Sunday through Monday morning. Around Prince William Sound, gusts reached 46 mph. In both areas, locally heavy snows were reported. Silvertip DOT site, near the community of Hope, received a reported 25 inches of snow from Monday morning to Tuesday morning. Whittier, at the head of Passage Canal, received a reported 1 to 1 1/2 feet of new snow during an 18 hour period from 6pm Monday to noon Tuesday. Close to 1 foot of new snow was also reported around Valdez.

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Sketchy reports across the Aleutians recorded gusts as high as 69 mph at Adak Sunday morning. At Dutch Harbor, blowing spray and 'water devils' were reported from Sunday morning through midday Monday, when winds finally diminished below 40 mph. Highest reported gusts reached 62 mph from the southwest at Dutch Harbor.

Across the Pribilofs, adjusted ASOS wind gusts reached 62 mph from 3am Sunday through 9pm Sunday.

Across the Alaska Peninsula, adjusted ASOS winds gusted to 63 mph from the west, as heavy snow squalls moved through the area late Monday morning through Monday evening.

The front, associated with this intense low, also was preceded by brisk southeast winds and also produced locally heavy snows.

Winds in advance of the front gusted 40 to 45 mph across the Pribilofs late Saturday, to 63 mph along the Alaska Peninsula (as adjusted for the ASOS at Cold Bay) late Saturday through Sunday afternoon.

Prefrontal wind gusts, as high as 50 mph, were reported across Kodiak Island around noon Sunday (at the Booth Lake site). Winds diminished with the frontal passage. The front moved through the northeast corner of Kodiak Island just before 9pm Sunday.

Adjusted ASOS wind gusts reached 58 mph at the Portage Visitor Center late Sunday through Monday morning. Around Prince William Sound, gusts reached 46 mph. In both areas, locally heavy snows were reported. Silvertip DOT site, near the community of Hope, received a reported 25 inches of snow from Monday morning to Tuesday morning. Whittier, at the head of Passage Canal, received a reported 1 to 1 1/2 feet of new snow from 6pm Monday to noon Tuesday. Close to 1 foot of new snow was also reported around Valdez.

Strong southerly winds were also reported on the east side of a frontal low...which moved from 120 miles south of Saint Lawrence Island at 10 am Sunday to near Port Clarence (southwestern corner of the Seward Peninsula) at 4am Monday.

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South winds gusted to 84 mph at Cape Romanzof (in the Kuskokwim Delta zone) and 63 mph at Mekoryuk (on Nunivak Island) Sunday morning. Winds diminished below 40 mph along the Kuskokwim Delta very late Sunday night. These strong winds were accompanied by blizzard conditions in heavy snow and blowing snow across most of the Kuskokwim Delta.

AKZ018>019

Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula

05	0900AST	0	0	High Wind (G55)
06	1500AST			

A post-frontal, trough passed through the Alaska Peninsula late Monday on its way through Kodiak Island early Tuesday. The trough was marked by gusty northwest winds across both areas, as increasingly unstable conditions allowed stronger upper level winds to mix downward to the surface.

Adjusted ASOS gusts reached 59 mph across Kodiak Island (highest measured at the Kodiak Coast Guard Base airport) Tuesday.

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 Damage	Crops	

ALASKA, Southern

Adjusted northwest wind gusts reached 63 mph across the Alaska Peninsula at Cold Bay late Monday and very early Tuesday.

AKZ018>019

Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula

06	0100AST	0	0	High Wind (G51)
	1500AST			

Another trough moving through the area brought gusty northwest winds. Adjusted ASOS gusts reached 59 mph at Kodiak late Tuesday morning into Tuesday afternoon, and 52 mph at Cold Bay just after noon Tuesday. The trough was locally accompanied by heavy snow showers.

AKZ020

Aleutian Islands

06	0000AST	0	0	High Wind (G55)
	1500AST			

A moderate front, just west of Attu Tuesday, was preceded by brisk southerly winds. These winds affected the extreme western Aleutians...with adjusted ASOS gusts reaching 63 mph at Shemya just before noon Tuesday.

AKZ015>017

Cook Inlet - Bristol Bay Coastal - Central Gulf Coast

06	1800AST	0	0	High Wind (G56)
07	2300AST			

Brisk northwesterly winds, triggered by a strengthening ridge across the Alaska Peninsula and southwest Alaska mainland and persistent low pressure in the northeast Gulf of Alaska, spread into areas near and south of the Alaska Range Tuesday.

Northwest wind gusts reached an ASOS adjusted 59 mph at Iliamna (in the extreme eastern corner of the Bristol Bay zone) Tuesday.

At Seward, an area prone to strong northerly outflow winds, wind gusts...adjusted for the ASOS...peaked at 64 mph Wednesday morning. Gusts 40 mph or more ceased in the Seward area rapidly after 4pm Wednesday.

Around Valdez, adjusted AWOS wind gusts reached 50 mph Tuesday.

AKZ011-016-019-019>020-020>021-021

Kuskokwim Delta - Bristol Bay Coastal - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

07	0600AST	0	0	High Wind (G83)
08	1500AST			

An intensifying low, 550 miles southwest of Adak late Tuesday, deepened to 983mbs as it passed the Islands of Four Mountains in the central Aleutians early Wednesday afternoon. The low continued north northeast to Saint Paul Island as a strong 977mb center at 2 am Thursday...drifting northeast and beginning to slowly weaken through the remainder of the day. Strong westerly winds were observed on the 'back side' of the storm...spreading into the Aleutians late Wednesday and into the Pribilofs and Alaska Peninsula Thursday.

The front, associated with this strong low, moved into the eastern Aleutians Wednesday afternoon, elongating northeastward to a position from just south of Nunivak Island to the Trinity Islands, just off the southern tip of Kodiak Island, at 10 am Thursday. Brisk east to southeast winds preceded the front, spreading into the Pribilofs and Alaska Peninsula from the eastern Aleutians Wednesday afternoon...and across the southwest coast of Alaska Thursday morning.

In zone 11...Adjusted AWOS prefrontal winds reached 63 mph at Mekoryuk and also at Cape Romanzof...both along the immediate coast. Just inland, at the Saint Mary's AWOS, adjusted gusts of 68 mph were recorded late Thursday morning.

In zone16...Prefrontal southeast winds spread into the Bristol Bay zone late Wednesday. Gusts reached AWOS adjusted values of 86 mph at Cape Newenham, where winds are locally accelerated by terrain.

In zone 19...Brisk westerly winds gusted to 64 mph on the south side of the storm, as reported by the adjusted Cold Bay ASOS. Strongest winds hit Cold Bay Thursday afternoon. Brisk southeast prefrontal winds reached at least 79 mph, as reported from the Cold Bay adjusted ASOS observation.

Across zone 21...Brisk southeast winds moved into the Pribilofs ahead of the front. Gusts reached an adjusted ASOS speed of 74 mph at Saint George Island in the very early part of Wednesday evening. Winds on the south side of the low picked up abruptly, with gusts reaching 60 mph at Saint George just before 3pm Thursday.

In zone 20...Prefrontal, southeast winds from 40 to 50 mph were reported at nearly all central and eastern Aleutian reporting points, Wednesday. Strongest gusts were recorded at Dutch Harbor (50 mph) between noon and 1pm. Strong westerly winds spread into the eastern Aleutians behind the storm. Gusts reached 96 mph at Dutch Harbor between 12:55pm Thursday and 1:15pm Thursday.

AKZ017

Central Gulf Coast

06	0000AST	0	0	Heavy Snow
07	0700AST			

1/2 to 2 feet of snow fell between the City of Valdez and Thompson Pass (to the north) Tuesday through Wednesday morning.

Storm Data and Unusual Weather Phenomena

April 1999

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

ALASKA, Southern

AKZ015

Cook Inlet

06 1200AST 1800AST 0 0 1K Avalanche

The electricity went out in two Kenai Peninsula communities Tuesday afternoon after an avalanche knocked trees into a power line at Mile 29 of the Seward Highway. The tree/line collision sparked a small fire, which burned out quickly and short-circuited power to Cooper Landing and Moose Pass. 334 customers were without power for several hours.

AKZ015>016-019-019>020

Cook Inlet - Bristol Bay Coastal - Western Alaska Peninsula - Aleutian Islands

09 1200AST 10 2100AST 0 0 High Wind (G55)

AKZ017

Central Gulf Coast

10 0600AST 2100AST 0 0 Heavy Snow

A deepening low, just southwest of Amchitka Island Friday morning, moved northeast across the southeastern Bering to near Cape Newenham at 10 am Saturday as a 979mb center. The low then moved north northeast through Kuskokwim Bay...weakening to 982mbs Saturday evening. Brisk southwest winds were observed along the south and southwest quadrants of the low.

Across the eastern Aleutians, wind gusts reached 63 mph at Dutch Harbor between 9 and 10 pm Friday. At Cold Bay, adjusted ASOS westerly wind gusts reached 59 mph early Saturday morning.

A developing front south from the low Friday morning, strengthened and moved northeast...extending from the low into southern Cook Inlet and the northcentral Gulf of Alaska at 4pm Saturday. In advance of the front, gusty southeast winds were observed along the Alaska Peninsula and Bristol Bay areas.

Across the extreme western corner of Bristol Bay, pre-frontal southeast winds gusted to an adjusted AWOS 56 mph at Cape Newenham. Southeast winds at this location are typically accelerated by terrain.

At Cold Bay, at the western tip of the Alaska Peninsula, pre-frontal southeast winds reached an ASOS adjusted 61 mph Friday afternoon.

Around Portage, in the Cook Inlet zone, southeast wind gusts above 40 mph began early Saturday, peaking out at an ASOS adjusted 62 mph at 9pm Saturday. Heavy snow preceded the front in this exposed area of the Cook Inlet zone.

Heavy snow also fell across land areas adjacent to western Prince William Sound Saturday in advance of the front. Seward and Whittier both received in excess of 12 inches of snow from 6 am to midnight.

AKZ017

Central Gulf Coast

13 2100AST 14 0700AST 0 0 Heavy Snow

Locally heavy snow was reported early Wednesday in the mile 12 to mile 14 area of the Seward Highway. Precipitation around Seward was mostly rain. The ASOS at the Seward airport recorded 0.75 inches of melted precipitation from Tuesday morning to Wednesday morning. Little precipitation occurred further north of this section of the highway.

AKZ011>012-016-018>021

Kuskokwim Delta - Kuskokwim Valley - Bristol Bay Coastal - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands

13 0000AST 17 1500AST 0 0 High Wind (G63)

AKZ015

Cook Inlet

13 0800AST 15 0800AST 0 0 Heavy Snow

A moderate front moved toward the extreme western Aleutians Tuesday afternoon, continuing north and east into the southwestern Bering and central Aleutians late Wednesday evening. By Thursday morning, the front extended from the west-central Bering into the eastern Aleutians. Brisk east and southeast winds preceded the front.

Prefrontal, southeast wind gusts reached:

59 mph at Shemya (ASOS adjusted) between midnight and 6am Wednesday.

50 mph at Adak (ASOS adjusted) early Wednesday afternoon.

44 mph at Saint Paul (ASOS adjusted) late Wednesday through Thursday morning.

62 mph at Saint George (ASOS adjusted) late Wednesday through Thursday morning.

73 mph at Cold Bay (ASOS adjusted) Thursday morning through early Friday. Highest

winds were reported Thursday afternoon and early Thursday night.

73 at Cape Newenham (adjusted AWOS), at the border of the Kuskokwim Delta and the extreme western corner of Bristol Bay at 5am Friday.

45 mph gusts at Farewell Lake in the Kuskokwim Valley zone.

46 mph at the Booth Lake site on Kodiak Island at 2am Friday.

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 Damage	Crops	

ALASKA, Southern

Additionally, snowfall at the Alyeska Ski Resort mid mountain (close to 1750 ft) was 27 inches in a 24 hour period from 8am Wednesday through 8am Thursday. Glen Alps received 9 inches of new snow Tuesday.

The parent low moved into the Komandorskiye Islands Wednesday as a 970mb center. The low then looped eastward to 150 miles east of the Komandorskiye Islands Thursday morning. Brisk westerly winds were observed along the southwest semicircle of the low.

Westerly wind gusts reached:
64 mph at Shemya (ASOS adjusted) at 2pm Thursday.

AKZ017

Central Gulf Coast

15 1200AST 1 0 2K Avalanche

A backhoe and its operator, working on a construction project for the new Cordova Electric Cooperative hydroelectric plant, were caught up in an avalanche about noon on Thursday. Snow broke loose from a steep canyon wall west of Ohmar Falls, tumbled down a 2,000 foot slope, toppling the backhoe and burying it in snow. The location of the avalanche was about 7 miles northeast of Cordova near Ohmar Falls.

The cab was quickly dug out, but the body of the backhoe operator, Gary Stone, 46, was not found until Saturday. The body was found pinned between the backhoe and logs that had been used as a temporary bridge at the hydroelectric project construction site.

Heavy rains had fallen on the snow during the prior 24 hours on Wednesday.
M46OU

AKZ015

Cook Inlet

15 2100AST 0 0 High Wind (G63)

16 1300AST

Local east winds at the Portage ASOS site gusted to adjusted values of 73 mph. These glacier induced winds are often accelerated from an easterly direction. Strongest winds were reported between 9am and 10am Friday.

AKZ013

Susitna Valley

16 1200AST 1 2 3K Avalanche
1800AST

Kenneth Hayes, 44, of Healy, Alaska was killed by an avalanche Friday afternoon. His body was recovered at about 10:30 am Saturday in the debris. Hayes was among 12 snowmachiners riding the "Big Notch in the Mountains" at Jack River Canyon, about 12 miles south of Cantwell, when a slide broke loose shortly before 4 pm.

A total of five riders were caught in the avalanche. Four of them were dug out by other riders. Sophie Dickman, 37, of Two Rivers (near Fairbanks) suffered a broken leg. Ken Wench, 35, of Seattle, also suffered a leg injury.

M44OU

Western Ak Peninsula

False Pass 19 1100AST 0 0 Volcanic Eruption
20 1130AST

The Shishaldin volcano erupted just after 11am Monday. The eruption lasted for close to 6 hours. Fortunately, prevailing winds were north to northwest at lower levels, carrying the ash across uninhabited areas of Unimak Island out into the Pacific. These eruptions during this time of year can typically melt snows on the volcano mountain very rapidly, triggering flash floods and mud slides. In this case, a warning was issued for ash...primarily as it pertained to health and respiratory problems.

AKZ017>018

Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula

22 0000AST 0 0 High Wind (G70)
1600AST

A moderate to strong front, moving northeastward through the Gulf of Alaska, was preceded by brisk east to north winds.

Gusts across Kodiak Island, as recorded by the Booth Lake RAWS, reached 61 mph between noon and 3pm Thursday. Adjusted ASOS wind gusts of 64 mph, from the north, were reported at the Kodiak ASOS Thursday afternoon...along with rain and snow. the Coast Guard situation report received Thursday morning, mentioned a medevac at Old Harbor very early Thursday...reporting winds there as "Wind N/40-50kts" (46-58 mph).

Middleton Island recorded pre-frontal, easterly winds (adjusted for ASOS under-reporting problems) as high as 81 mph Thursday afternoon between 2:35 pm and 2:55 pm. Frontal passage, which marked an abrupt end to the wind, occurred in and around Prince William Sound between 4 and 8 pm as the front continued north and northeast inland.

Western Ak Peninsula

21 WSW False Pass 22 2100AST 0 0 Volcanic Eruption

Another explosive eruption was reported from the Shishaldin Volcano on Unimak Island late Thursday at 9:50 pm ADT. The plume initially moved south not impacting any communities.

Storm Data and Unusual Weather Phenomena

April 1999

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

AKZ016-018

Bristol Bay Coastal - Kodiak Island-Eastern Alaska Peninsula

23	0600AST			0	0	High Wind (G80)
26	0600AST					

Weakening low pressure in the extreme northern Gulf of Alaska, coupled with building high pressure across the eastern Aleutians and western entrance to Bristol Bay initiated a several day blow for many areas near and southeast of the Alaska Range. Initially the northwest winds were very localized.

A ship located adjacent to Wide Bay (on the Pacific side of the Upper Alaska Peninsula), recorded local gusts of 92 mph from the northwest Friday morning.

A modified arctic front, moving into the Chugach Range and through the Kenai Peninsula and Kodiak Island Saturday, brought more widespread northwest winds in its wake.

Adjusted ASOS wind gusts reached 50 mph at Kodiak at 2 pm Saturday, however gusts of 55 mph were recorded at the Booth Lake remote site between 8 pm and 9 pm the same day. It wasn't until late Monday morning before wind gusts diminished below 40 mph on the Island and across adjacent waters.

Gusts of 50 mph were reported at the Iliamna ASOS site Sunday just after noon. Brisk northwest winds were also reported at the Cape Newenham AWOS site 24 hours earlier.

ASOS adjusted north wind gusts reached 61 mph at Seward between 7:29 am and 8:00 am Sunday. These strong gusts either picked up loose snow or dust Sunday morning, causing an erroneous weather report of 9 mile visibility in light snow under clear skies (below 12,000 ft) on the 5:09 am, 5:17 am and 7:53 am observations from the ASOS. Wind gusts finally began to diminish late Sunday afternoon. Wind gusts at Whittier reached 40 mph off the Whittier Glacier several times both Saturday and Sunday mornings ...diminishing later Sunday afternoon. Northerly winds around Valdez briefly kicked up around Mineral Creek late Saturday night through Sunday morning, peaking at 45 mph between 2 am and 3 am Sunday.

AKZ011-015>016-020Kuskokwim Delta - Cook Inlet - Bristol Bay Coastal - Aleutian Islands

29	0200AST			0	0	High Wind (G69)
30	2359AST					

AKZ013

Susitna Valley

30	0000AST			0	0	Heavy Snow
	1200AST					

A moderate frontal system, stretching from the extreme western Aleutians into the western Bering Sea late Wednesday afternoon continued northeastward during the next 24 hours. By late Thursday afternoon, the front extended from the western tip of the Seward Peninsula to Bethel then southwestward into the Bering to a position near Kiska Island in the western Aleutians.

The front was preceded by gusty southwest winds in the Aleutians. Winds locally continued to blow across the central Aleutians around the parent low. Wind gusts above 40 mph began on Thursday at Adak. Adjusted ASOS gusts reached 79 mph at Adak Friday morning as post frontal winds continued to blow around the parent low to the west. Wind gusts of 40 mph or stronger continued through midnight Friday at Adak. Dutch Harbor recorded southwest wind gusts around 40 mph Thursday afternoon.

Along the western tip of Bristol Bay, gusty south winds preceded the front. At Cape Newenham, adjusted AWOS gusts reached 73 mph just before noon Thursday. Frontal passage there occurred between 8 pm Thursday and midnight Thursday, after which time winds abruptly shifted west and diminished to around 15 mph.

Across the Kuskokwim Delta, windy conditions were more widespread. Brisk south winds preceded the front, affecting nearly all reporting stations in the zone. Highest winds were recorded at the Saint Mary's ASOS, where adjusted gusts reached 67 mph. Frontal passage here, too, occurring close to 3 pm Thursday, was marked by an abrupt diminishing of the wind. At Bethel, adjusted ASOS gusts reached 56 mph Thursday afternoon, with frontal passage occurring just prior to 6 pm Thursday.

Along the Anchorage Upper Hillside, wind gusts reached 60 mph early Friday. Snow was also reported in areas adjacent to Turnagain Arm and along the Anchorage hillside.

In the Susitna Valley, heavy snow was reported at both Talkeetna and Chulitna from midnight to noon Friday. Amounts around Talkeetna ranged from 2 to 6 inches, however nearly 12 inches fell around Chulitna and along the Petersville Road.

AKZ014

Copper River Basin

29	0700AST			1	2	Avalanche
	1200AST					

A slow moving slab avalanche swept Canadian mountaineer off a 20 to 30 degree slope and over a 1,000 to 1,500 foot drop. Slab apparently let go about 7 am Thursday, and was about 100 feet wide and 3 feet deep. Temperature at the time at altitude was

Storm Data and Unusual Weather Phenomena

April 1999

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

about 5 degrees Fahrenheit and wind was calm. The 10,000 foot peak where the accident occurred is unofficially named "Ultima Thule" by locals located in the University range southeast of Glennallen.
M41OU

AMERICAN SAMOA

ASZ001>004

Swains - Tutuila - Manu'A - Rose

27	1400SST	0	0						High Surf
28	1800SST								

A low south of American Samoa generated high surf of 6 to 10 feet along the south shores.

ARIZONA, Central and Northeast

AZZ004-006>009-012>013-015>018-038 Kaibab Plateau - Grand Canyon Country - Coconino Plateau - Yavapai County Mountains - Northeast Plateaus And Mesas From Highway 264 North - Little Colorado River Valley In Coconino County - Little Colorado River Valley In Navajo County - Western Mogollon Rim - Eastern Mogollon Rim - White Mountains - Northern Gila County - Oak Creek And Sycamore Canyons

01	0117MST	0	0	0	0				Heavy Snow
02	1600MST								

The most significant snowstorm of the winter season blasted northern Arizona with heavy snow. Heavy snowfall criteria was met in all of the above zones. Significant storm snowfall totals include Prescott 12", Winslow 9", Flagstaff 20", Blue Ridge 28", Happy Jack 30", Alpine 24", Payson 20", Sedona 9", and Cordes Junction at an elevation of 3800 feet, 4 inches. Highway travel was hampered throughout the region, and local law enforcement reported at least 31 auto collisions during the first 24 hours of the storm.

AZZ015>016-018-038 Western Mogollon Rim - Eastern Mogollon Rim - Northern Gila County - Oak Creek And Sycamore Canyons

03	2100MST	0	0	0	0				Heavy Snow
04	1600MST								

A second, powerful winter storm moved rapidly through northern Arizona. Storm snowfall totals include Bellemont 13", Williams 8", Forest Lakes 9", Pine 9", Sedona 8".

AZZ017

White Mountains

09	1100MST	0	0	0	0				High Wind (G58)
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The Show Low ASOS measured a southerly wind gust at 67 mph. This gust occurred ahead of a cold front that was moving through the state.

AZZ004

Kaibab Plateau

23	0430MST	0	0	0	0				Heavy Snow
	1600MST								

A winter storm clipped far northern Arizona, dropping 12 inches of snow at Jacob Lake.

ARIZONA, Northwest

AZZ003

Northwest Deserts

03	2000MST	0	0						Heavy Snow
04	1300MST								

Favorable conditions concentrated heavy snowfall over a relatively small part of Mohave County during the morning of April 4. A weather spotter about 30 miles east of Kingman reported 5 inches of snowfall at the 5,500 foot level during the evening of April 3 and the early morning of April 4. This was followed by an additional 10 inches of new snow between the hours of 7 am and 1 pm on Sunday April 4. This storm total of 15 inches far exceeded other reports from around Mohave County where amounts generally ranged from 4 to 5 inches.

ARIZONA, South

AZZ019-029>030-033 Northern Greenlee - Southeast Pinal County - Upper Gila River Valley - Tucson Metro/Marana/Green Valley

01	0800MST	0	0						Winter Storm
02	2200MST								

AZZ029-032>033

Southeast Pinal County - Tohono Oodham Nation - Tucson Metro/Marana/Green Valley

04	0700MST	0	0						Heavy Snow
	1100MST								

A winter storm brought enough cold air to lower the snow level to the 2000 feet elevation level during the morning hours. 2 inches of snow fell at Sells and 1 to 3 inches fell in the northern area of Tucson. Picacho Peak received 2 to 3 inches of snow. The Tucson Airport had several hours of snow but the snow melted as it fell with no accumulation reported on the south side of Tucson. Snow at higher elevations only ranged between 3 and 6 inches.

AZZ030-035

Upper Gila River Valley - Cochise County

07	1230MST	0	0	25K					High Wind (G68)
	1800MST								

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	
<u>ARIZONA, South</u>									
AZZ035	Cochise County	29	1200MST			0	0	20K	High Wind (G55)
			1600MST						
	Roof damage reported in the Sierra Vista area. An unofficial gust of 70 mph was reported near Herford south of Sierra Vista.								
<u>ARIZONA, Southwest</u>									
AZZ024-024	Southern Gila/Tonto Nf Foothills	01	1400MST			0	0	10K	Winter Storm
		04	1600MST						
	Rain, wind, and snow in the mountains spread across a large part of Arizona. Snow was reported at the 3600 foot elevation in Carefree, north of Phoenix. Several inches of snow fell in parts of Gila County where roofs were damaged and trees taken down by snow at Top of the World, near Globe. Three inches of snow canceled play Friday at the Tradition golf tournament in north Scottsdale, and the final round on Sunday was canceled. A rock slide disrupted traffic at Gonzalez Pass west of Miami, Arizona.								
AZZ025	Yuma/Martinez Lake And Vicinity	28	1600MST			0	0	5K	Dust Storm
			1900MST						
	Blowing dust and blowing sand caused widespread visibility problems around the county. It was often less than a quarter mile visibility, and occasionally zero visibility along with winds over 40 mph. The wind and dust storm took down some small signs, and some small trees were uprooted in several areas. All three TV stations were knocked off the air several times due to power outages on a nearby mountain site. A Yuma spotter lost his chicken coop due to the winds, however the chickens survived the ordeal.								
<u>ARKANSAS, Central and North Central</u>									
Yell County									
	Danville	02	2235CST			0	0		Hail (1.75)
Pope County									
	5 NE Russellville	02	2320CST			0	0		Hail (1.75)
Izard County									
	Sage	03	0115CST			0	0		Hail (1.00)
Sharp County									
	Ash Flat	03	0150CST			0	0		Hail (0.75)
Sharp County									
	Cherokee Vlg	03	0150CST			0	0		Hail (0.75)
Sharp County									
	Hardy	03	0158CST			0	0		Hail (0.75)
Independence County									
	5 NE Batesville	03	0310CST			0	0		Thunderstorm Wind (G50)
	Thunderstorm winds knocked down power lines 5 miles northeast of Batesville.								
Scott County									
	Bates	03	1245CST			0	0		Thunderstorm Wind (G50)
	Thunderstorm winds blew down several large tree limbs at Bates.								
Polk County									
	Wickes	03	1340CST			0	0		Thunderstorm Wind (G50)
	Thunderstorm winds knocked down a few trees at Wickes.								
Newton County									
	Deer	03	1445CST			0	0		Hail (0.75)
Dallas County									
	Sparkman	03	1545CST			0	0		Hail (0.75)
Ouachita County									
	4 N Amy	03	1535CST			0	0		Hail (1.00)
Dallas County									
	Ouachita	03	1540CST			0	0		Hail (1.75)
Cleburne County									
	4 N Drasco	03	1625CST			0	0		Thunderstorm Wind (G50)
	Thunderstorm winds blew down some power lines 4 miles north of Drasco.								
Stone County									
	.7 SW Ben to .3 NE Ben	03	1635CST	1	50	0	2		Tornado (F0)
			1637CST						

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 Damage	Crops	
ARKANSAS, Central and North Central									
A weak tornado was spawned in southeast Stone County around Ben. The tornado developed less than a mile southwest of town...destroying a few sheds and outbuildings. A few trees were also blown down. A witness saw the tornado pulling water from a pond. Two minor injuries were reported. The tornado dissipated about a quarter mile northeast of town.									
Jefferson County									
3 NE Whitehall	03	1715CST			0	0			Hail (0.75)
Jefferson County									
1.5 NW Gethsemane to 5 NE Gethsemane	03	1725CST 1732CST	5	100	0	0			Tornado (F1)
A weak tornado was spawned in northeast Jefferson County. The tornado developed about a mile and a half northwest of Gethsemane and moved northeast. The tornado heavily damaged an outbuilding and twisted some signs. Power poles were also downed or snapped...with over two dozen power poles damaged along Highway 31. The tornado entered Lonoke County about 5 miles northeast of Gethsemane.									
Lonoke County									
3 SE Tomberlin to 5 SE Coy	03	1732CST 1734CST	1.5	75	0	0			Tornado (F1)
A weak tornado entered southeast Lonoke County from northeast Jefferson County. The tornado moved through mostly open farmland...and damaged a couple of power poles. Some minor tree damage was also noted. The tornado dissipated about 5 miles southeast of Coy.									
Fulton County									
3 SW Mammoth Spg to 1.7 ENE Mammoth Spg	03	1650CST 1656CST	4.5	100	0	2			Tornado (F1)
A weak tornado was spawned in northeast Fulton County. The tornado developed about 3 miles southwest of Mammoth Spring and moved northeast. The tornado destroyed a mobile home and damaged another. A recreational vehicle was also badly damaged. Roof damage was also noted at a number of homes and a couple of businesses...mostly consisting of lost shingles. Numerous trees were blown down. A couple of people sustained injuries. The tornado entered southern Missouri about 1.7 miles east-northeast of Mammoth Spring before finally dissipating.									
Pulaski County									
Little Rock	03	1705CST			0	0			Flash Flood
Very heavy rain fell in a short period of time in the southwest portion of Little Rock. The rain was enough to flood several roads...with one car swept off of the pavement.									
Prairie County									
Slovak	03	1754CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds gusted to 70 mph at Slovak.									
Clark County									
5 S Joan	04	1707CST			0	0			Hail (1.00)
Clark County									
Alpine	04	1825CST			0	0			Hail (0.75)
Clark County									
2 E Alpine	04	1839CST			0	0			Hail (0.75)
Clark County									
5 E Amity	04	1850CST			0	0			Hail (0.75)
Clark County									
5 E Amity	04	1850CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds gusted to 60 mph around 5 miles east of Amity.									
Pulaski County									
Little Rock	05	1252CST			0	0			Hail (0.75)
Pulaski County									
North Little Rock	05	1302CST			0	0			Hail (0.75)
Pulaski County									
North Little Rock	05	1305CST			0	0			Hail (0.88)
Pulaski County									
1 S Jacksonville	05	1310CST			0	0			Hail (0.75)
Lonoke County									
Cabot	05	1315CST			0	0			Hail (0.75)

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	
ARKANSAS, Central and North Central									
White County									
2 W Beebe	05	1335CST			0	0			Hail (0.75)
Pope County									
Pottsville	05	1450CST			0	0			Hail (0.75)
Van Buren County									
7 NE Morganton	05	1605CST			0	0			Hail (0.88)
Stone County									
2 N Mountain View	05	1605CST			0	0			Hail (0.75)
Cleburne County									
Edgemont	05	1615CST			0	0			Hail (0.75)
Sharp County									
7 ESE Cave City to 10.5 ENE Cave City	05	1705CST 1715CST	6	150	0	1			Tornado (F2)
A strong tornado was spawned in Sharp County. The tornado developed 7 miles east-southeast of Cave City and moved northeast. Not long after touching down, the tornado reached Highway 230. A tractor trailer was thrown off of the road and destroyed. The driver of the truck was injured. Pieces of the truck were found a quarter of a mile away from the highway. The tornado then paralleled the highway, heavily damaging a 10 year old brick home 8.5 miles east of Cave City. The tornado also destroyed a trailer and a barn and damaged a mobile home. Several buildings were also damaged or destroyed. Numerous trees were uprooted. The tornado finally moved into Lawrence County (Memphis County Warning Area) before dissipating.									
Prairie County									
3 SE De Valls Bluff	05	1705CST			0	0			Hail (0.75)
Monroe County									
4 N Clarendon	05	1715CST			0	0			Hail (0.88)
Arkansas County									
2 S De Witt	05	1755CST			0	0			Hail (0.75)
Yell County									
15 W Danville	08	2040CST			0	0			Thunderstorm Wind (G57)
Thunderstorm winds gusted to 65 mph about 15 miles west of Danville.									
Yell County									
Ola	08	2100CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some trees at Ola.									
Pope County									
Atkins	08	2105CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds destroyed a well house in Atkins.									
Faulkner County									
3 W Conway	08	2150CST			0	0			Thunderstorm Wind (G51)
Thunderstorm winds gusted to 59 mph about 3 miles west of Conway.									
Pulaski County									
3 NW Maumelle	08	2207CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds gusted to 70 mph around 3 miles northwest of Maumelle.									
Conway County									
Robertsville	10	1255CST			0	0			Hail (1.75)
Dallas County									
2.5 WSW Pine Grove to 4.5 NE Pine Grove	14	1803CST 1813CST	7	100	0	0			Tornado (F1)
A weak tornado was spawned in southwest Dallas County. The tornado developed about 2.5 miles west-southwest of Pine Grove and moved northeast. About 1.5 miles west of town, the tornado picked up a barn and set it back down...with the barn destroyed. A home sustained some roof damage about 1 mile northwest of Pine Grove off of Highway 128. The tornado also downed several trees before dissipating 4.5 miles northeast of town.									
Monroe County									
Blackton	24	0705CST			0	0			Hail (0.75)
Logan County									
Magazine	24	1000CST			0	0			Hail (0.75)
Scott County									
5 W Y City	24	0955CST			0	0			Hail (0.75)

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	
ARKANSAS, Central and North Central									
Monroe County									
Holly Grove	24	1130CST			0	0			Flash Flood
									Heavy rain fell across portions of southern Monroe County. The rain was enough to cause flash flooding...with water covering a few roadways around Holly Grove.
Yell County									
Dardanelle	24	1020CST			0	0			Hail (0.75)
Montgomery County									
Norman	24	1042CST			0	0			Hail (0.75)
Grant County									
Sheridan	24	1310CST			0	0			Hail (0.75)
Jefferson County									
5 SW Whitehall	24	1342CST			0	0			Hail (0.75)
Jefferson County									
(Pbf)Pine Bluff Arpt	24	1350CST			0	0			Hail (0.75)
Clark County									
Gurdon	25	1820CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds removed 150 feet of awning from a building, damaged the roof of a school and knocked down several power lines at Gurdon.
Ouachita County									
Stephens	25	1840CST			0	0			Hail (1.00)
Ouachita County									
Buena Vista	25	1912CST			0	0			Hail (0.75)
Dallas County									
Tulip	25	1857CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a few trees in Tulip.
Hot Spring County									
Jones Mills	25	1913CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down some power lines at Jones Mill.
Ouachita County									
Eagle Mills	25	1925CST			0	0			Hail (0.75)
Grant County									
Sheridan	25	1930CST			0	0			Hail (0.75)
Grant County									
6 S Sheridan	25	1930CST			0	0			Hail (0.75)
Calhoun County									
3 W Hampton	25	1950CST			0	0			Hail (1.00)
									Quarter size hail damaged several cars 3 miles west of Hampton.
Jefferson County									
8 NW Sherrill	25	2006CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a large tree 8 miles northwest of Sherrill.
Cleveland County									
5 E Rison	25	2010CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a few trees and power lines 5 miles east of Rison.
Bradley County									
Banks	25	2035CST			0	0			Hail (0.75)
Hot Spring County									
Bismarck	26	1135CST			0	0			Hail (1.75)
Polk County									
Vandervoort	26	1130CST			0	0			Hail (0.88)
Polk County									
Vandervoort	26	1130CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked a few trees down at Vandervoort.
Polk County									
Mena	26	1135CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds tore roofs from chicken houses, downed trees and damaged a few sheds at Mena.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
ARKANSAS, Central and North Central									
Polk County									
Potter	26	1135CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds tore roofs from chicken houses at Potter, with about 5,000 chickens lost. Trees were also downed and a few sheds were damaged.									
Polk County									
Grannis	26	1135CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees at Grannis.									
Scott County									
Parks	26	1205CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds gusted to 60 mph at Parks.									
Montgomery County									
Mt Ida	26	1208CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees, with debris damaging a few cars and trucks at Mount Ida. Billboards were also twisted and minor roof damage occurred at a few homes. Also, a local gas station had a canopy over the pumps which blew onto a pickup truck. The driver of the truck escaped unharmed.									
Montgomery County									
1.5 W Black Spgs	26	1206CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds damaged four chicken houses and knocked down some trees 1.5 miles west of Black Springs.									
Garland County									
Hot Spgs	26	1210CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees and power lines at Hot Springs.									
Garland County									
2 SW Percy	26	1209CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees and power lines about 2 miles southwest of Percy.									
Clark County									
3 SW Arkadelphia	26	1225CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down several trees and caused minor damage to a church, a house, a car and a boat about 3 miles southwest of Arkadelphia.									
Hot Spring County									
5 S Malvern	26	1315CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees 5 miles south of Malvern.									
Hot Spring County									
Gifford	26	1320CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees and power lines, removed roof shingles from a few homes, destroyed a couple of sheds and caused minor damage to a church.									
Dallas County									
Tulip	26	1243CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked a couple of trees and large trees limbs onto some homes...causing roof damage.									
Pulaski County									
Maumelle	26	1340CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds gusted to 60 mph at Maumelle.									
Bradley County									
8 NW Warren	26	1410CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees and caused some minor damage to a couple of homes about 8 miles northwest of Warren.									
Pope County									
Russellville to 5 NE Russellville	26	1301CST 1313CST	6.5	150	0	2			Tornado (F2)
A strong tornado was spawned in southern Pope County. The tornado developed near Russellville and moved northeast. The tornado destroyed a concrete block building, and two people were injured inside. An apartment complex lost its roof, some storage buildings were heavily damaged, 15 homes suffered structural damage, and 50 homes had minor damage...mostly to roof shingles. A number of chicken houses sustained damage as well, and trees and power lines were blown down. The tornado dissipated about 5 miles northeast of Russellville.									
Pulaski County									
Little Rock	26	1341CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew a few trees down in the southwest portion of Little Rock.									
Pulaski County									
Jacksonville	26	1400CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

April 1999

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

One to two inches of rain in less than a half hour caused flash flooding in the Jacksonville area. Several roads were under water as a result.

Cleveland County

Pansy	26	1420CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a few trees at Pansy.

Cleveland County

Rye	26	1430CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds collapsed the framework of a new home at Rye. A few trees were knocked down as well.

Prairie County

Fairmount	26	1425CST			0	0			Thunderstorm Wind (G55)
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Thunderstorm winds gusted to 63 mph at the Stuttgart Airport.

Prairie County

5 SE Hickory Plains	26	1428CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew the windows out of a house, knocked down numerous trees and power lines, destroyed a barn and several small sheds, and blew away a minnow vat about 5 miles southeast of Hickory Plains.

Prairie County

4 E Hickory Plains	26	1428CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds caused some minor roof damage to a mobile home and knocked a few trees down on some sheds around 4 miles east of Hickory Plains.

Prairie County

2 W Des Arc	26	1431CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down some power lines about 2 miles west of Des Arc.

White County

Center Hill	26	1500CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew some trees down at Center Hill.

White County

Beebe	26	1510CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew some trees down at Beebe.

White County

Searcy	26	1515CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down some trees and caused some roof damage to a few homes at Searcy.

Desha County

Arkansas City	26	1446CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down several large tree limbs at Arkansas City.

Independence County

Sulphur Rock	26	1535CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a couple of trees at Sulphur Rock.

Pike County

6 NE Murfreeboro ARZ032	27	0030CST			0	0			Hail (0.88)
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Faulkner	15	0800CST			0	3			High Wind (G35)
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Winds gusted to 40 mph at Conway and blew down the steel frame of a warehouse under construction at a table and chair plant. A quarter of the framing of an 800,000 square foot building had been erected before winds toppled the structure. Three people were injured in the area. A wind advisory had been in effect for the county.

Van Buren County

2 N Damascus	26	1355CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds heavily damaged two chicken houses and a hog barn 2 miles north of Damascus. Large tree limbs were also blown through the windows of a mobile home.

Polk County

Hatfield	26	1130CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees and power lines at Hatfield. One tree fell on a car.

ARKANSAS, East

Poinsett County

Harrisburg	05	1420CST 1425CST			0	0	1K		Thunderstorm Wind
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An aluminum shed was blown over.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, East</u>									
Greene County									
Paragould	05	1440CST 1445CST			0	0	5K		Thunderstorm Wind
									Several trees were blown down.
Lawrence County									
2 W Strawberry to 1 W Strawberry	05	1715CST 1720CST	1	25	0	0	5K		Tornado (F0)
									The tornado moved into Lawrence county from Sharp county. The tornado knocked down a few trees along Highway 230.
Lawrence County									
Lynn	05	1730CST 1735CST			0	0	20K		Thunderstorm Wind
									A few homes were damaged. Some trees were knocked down.
Randolph County									
Pocahontas	05	1808CST 1815CST	2	200	0	0	2M		Tornado (F2)
									The tornado touched down on the east side of Paragould and moved northeast. The tornado hit a commercial area with several restaurants and other businesses damaged or destroyed. Several trees and power lines were blown down as well.
Clay County									
Corning	05	1835CST 1840CST			0	0	5K		Thunderstorm Wind
									An old barn was blown down. Several trees and a flag pole were also blown down.
Phillips County									
Elaine	03	1712CST 1720CST			0	0	0.75K		Hail (1.75)
Phillips County									
Helena	03	1740CST 1745CST			0	0	0.10K		Hail (1.00)
Phillips County									
Helena	03	1740CST 1745CST			0	0	5K		Thunderstorm Wind
									Several trees were knocked down.
St. Francis County									
Forrest City	03	1803CST 2000CST			0	0	1K		Urban/Sml Stream Fld
									Highway 70 near Forrest City was flooded with 4 to 5 inches of water on the road.
Mississippi County									
Dyess	03	1825CST 1830CST			0	0	25K		Thunderstorm Wind
									A trailer was blown down.
Crittenden County									
West Memphis	03	1905CST 2100CST			0	0	1K		Urban/Sml Stream Fld
									Several streets were flooded in West Memphis.
Poinsett County									
Harrisburg	10	1622CST 1630CST			0	0	0.05K		Hail (0.88)
St. Francis County									
Forrest City	26	1046CST 1055CST			0	0	15K		Thunderstorm Wind
									A roof was blown off of a house trailer. Several trees were knocked down.
St. Francis County									
Palestine	26	1520CST 1535CST			0	0	5K		Thunderstorm Wind (G53)
									Some power lines were knocked down.
<u>ARKANSAS, Northwest</u>									
Crawford County									
8 N Mountainburg	03	0320CST			0	0			Hail (0.75)
Crawford County									
Alma	03	0400CST			0	0			Hail (1.00)

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	
ARKANSAS, Northwest									
Madison County									
2 S Huntsville	03	0400CST			0	0	0.10K		Thunderstorm Wind
									Tree limbs were blown down.
Crawford County									
Mountainburg	03	0730CST 0830CST			0	0			Flash Flood
									Low-water crossings were flooded near Mountainburg
Washington County									
Odell to West Fork	03	0740CST 0900CST			0	0			Flash Flood
									County roads near Odell were flooded. Dye Creek Road in West Fork became impassable as the fast current of the West Fork of the White River flowed over the road.
Madison County									
Marble	03	0745CST 0845CST			0	0	80K		Flash Flood
									A bridge on US Hwy 412 was washed out.
Sebastian County									
Ft Smith	03	0757CST 0857CST			0	0			Flash Flood
									Streets in Fort Smith were flooded.
Sebastian County									
Ft Smith	03	1236CST			0	0			Funnel Cloud
									Funnel cloud was moving toward Barling. No confirmed touchdown.
Sebastian County									
Greenwood	03	1240CST			0	0	0.10K		Thunderstorm Wind
									A large tree was blown down in Greenwood.
Crawford County									
Rudy	03	1245CST			0	0			Thunderstorm Wind (G52)
Crawford County									
Van Buren	03	1251CST			0	0	0.20K		Thunderstorm Wind
									Trees were blown down in Van Buren.
Sebastian County									
Ft Smith	03	1251CST			0	0			Hail (0.75)
Washington County									
4 N Odell	03	1300CST			0	0	0.20K		Thunderstorm Wind
									Several small trees were blown down.
Benton County									
Lowell	03	1315CST			0	0			Hail (0.75)
Franklin County									
Charleston	03	1325CST			0	0			Thunderstorm Wind (G52)
Benton County									
Rogers	03	1330CST			0	0	0.50K		Thunderstorm Wind
									Numerous tree limbs were blown down around Rogers, Cave Springs, and Horseshoe Bend.
Carroll County									
Berryville	03	1355CST			0	0	1K		Thunderstorm Wind
									A business sign was blown down in Berryville.
Carroll County									
8 N Eureka Spgs	03	1400CST			0	0			Hail (0.75)
									Location: Holiday Island
Madison County									
2 N Clifty	03	1400CST			0	0	0.20K		Thunderstorm Wind
									Trees were blown down onto AR Hwy 127.

Early on the morning of April 3, an isolated cluster of severe thunderstorms formed over Crawford County and moved northeast through Madison County, producing hail as large as quarters and marginally severe winds. Later in the morning, non-severe thunderstorms training across the same area caused some flash flooding. Early in the afternoon, a slow-moving line of thunderstorms that had tracked across all of eastern Oklahoma moved into west-central Arkansas and strengthened. This last round of storms produced marginally severe hail and winds, although the strongest storm produced a funnel cloud over Fort Smith.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
ARKANSAS, Northwest									
Benton County									
Bella Vista	22	1830CST			0	0			Hail (0.88)
Washington County									
Prairie Grove	22	2045CST			0	0			Hail (0.75)
Washington County									
7 W Winslow	22	2115CST			0	0			Hail (0.75)
Location: Devil's Den State Park									
Crawford County									
Natural Dam	22	2120CST			0	0			Hail (0.75)
Crawford County									
Chester	22	2200CST			0	0			Thunderstorm Wind (G52)
Franklin County									
4 E Cass	22	2210CST			0	0			Hail (0.75)
A cold front pushed from Kansas and Missouri into northwest Arkansas on the evening of April 22. A broken line of severe thunderstorms accompanied the front as it pushed southward through the evening. These thunderstorms mainly contained marginally severe hail and wind.									
ARZ019-029 Crawford - Sebastian									
	26	2100CST			0	0			Flood
	30	2359CST							
The Arkansas River at Van Buren rose above its flood stage of 22 feet at 1000 PM CDT on April 26. The river crested at 24.0 feet at 100 AM CDT on April 28. The river remained above flood stage at the end of April.									
ARZ001 Benton									
	15	0800CST 1200CST			0	0	1K		High Wind
The pressure gradient between a 993 mb low over eastern Missouri and a 1040 mb high over the northern Rockies brought strong northwest winds to northwest Arkansas on April 15. The strongest winds occurred in the morning, when high winds toppled a sycamore tree onto a TV cable line in Sleep Hollow. Wind gusts of 40 to 45 miles an hour were common with locally higher gusts.									
Franklin County									
Ozark	24	0705CST			0	0			Hail (1.00)
Franklin County									
Ozark	24	0705CST			0	0	0.10K		Thunderstorm Wind
Large limbs were blown out of trees.									
Sebastian County									
Lavaca	24	0842CST			0	0			Hail (0.75)
Sebastian County									
Ft Chaffee	24	0910CST			0	0			Hail (1.00)
Sebastian County									
Countywide	24	0930CST 1030CST			0	0			Flash Flood
Several roads were flooded throughout the county.									
A series of thunderstorms moved eastward along a stationary front located east-west along the Arkansas River valley. Some of the storms in the morning produced marginally severe hail and wind. Meanwhile, the repeated movement of thunderstorms along the same path led to locally heavy rainfall amounts. An NWS Cooperative Observer 1 mile northwest of Greenwood measured 2.85 inches of rain for the 24 hours ending at 7 AM CDT on April 25.									
Sebastian County									
5 S Mansfield	26	1200CST			0	0	0.10K		Thunderstorm Wind
Several tree limbs were blown down.									
Crawford County									
Kibler	26	1215CST			0	1			Lightning
A 39-year old man standing outside near Kibler was injured when lightning struck a nearby tree or the ground.									
Sebastian County									
Ft Smith	26	1215CST			0	0	0.80K		Thunderstorm Wind
A large oak tree fell onto a power line in the 1300 block of Waldron Road.									
Franklin County									
Altus	26	1245CST			0	0			Thunderstorm Wind (G52)
A broad band of rain and thunderstorms moved across the area from west to east during the late morning and early afternoon of April 26 in advance of a closed upper-level low. Some of the embedded thunderstorms which moved through the Arkansas River									

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	
<u>ARKANSAS, Northwest</u>									
			valley contained marginally severe thunderstorm winds. One man was injured by lightning.						
<u>ARKANSAS, Southeast</u>									
Ashley County									
Wilmot	03	1850CST			0	0	25K		Thunderstorm Wind
			Several signs, power lines, and trees were blown down across eastern Ashley county.						
Ashley County									
Hamburg	26	1400CST			0	0	1K		Thunderstorm Wind
			A tree and a power pole were both blown down.						
Ashley County									
Parkdale	26	1425CST			0	0			Hail (0.75)
<u>ARKANSAS, Southwest</u>									
Miller County									
11 SW Texarkana Arpt to 7.8 E Texarkana Arpt	26	1112CST 1128CST	12	500	0	0	125K		Tornado (F1)
			Long north to south line of moderate to severe thunderstorms moving eastward at 40 to 45 mph. Numerous homes with minor to moderate roof damage. Numerous small to a few large trees uprooted or snapped off. A few homes and buildings with trees down on them.						
Howard County									
3 W Nashville	27	0050CST			0	0			Hail (0.75)
			Dime size hail completely covered the ground.						
Howard County									
6 W Nashville	26	1137CST			0	0			Thunderstorm Wind (G60)
			Trees and powerlines down across Hwy 371.						
Columbia County									
10 W Magnolia	26	1150CST			0	0			Thunderstorm Wind (G60)
Sevier County									
2 N De Queen	26	2350CST			0	0			Hail (0.75)
			Hail completely covered the ground.						
Nevada County									
Prescott	26	1215CST			0	0	15K		Thunderstorm Wind (G70)
			Several trees down and one chicken house crushed by fallen tree.						
Hempstead County									
Spring Hill	26	1140CST			0	0			Thunderstorm Wind (G60)
			Several trees and powerlines down.						
Hempstead County									
De Ann	26	1145CST			0	0	20K		Thunderstorm Wind (G65)
			Several large trees and powerlines toppled. One tree fell on a home while another tree fell across an automobile.						
Howard County									
10 NW Nashville	26	1135CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
Howard County									
Dierks	26	1137CST			0	0			Thunderstorm Wind (G60)
			Several large trees down along Hwy 70.						
Howard County									
4 SE Dierks	26	1215CST			0	0			Thunderstorm Wind (G70)
			Numerous trees blown over.						
Union County									
4 S El Dorado	26	1245CST			0	0			Thunderstorm Wind (G65)
			Several large trees uprooted.						
Columbia County									
2 S Magnolia	26	1205CST			0	0	10K		Thunderstorm Wind (G97)
			Winds were measured at Industrial Plant which suffered roof damage.						
Columbia County									
Taylor	26	1205CST			0	0			Thunderstorm Wind (G60)
			Trees and powerlines down.						

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	
<u>ARKANSAS, Southwest</u>									
Columbia County									
5 E Waldo	25	1818CST			0	0			Thunderstorm Wind (G60)
									Several trees and powerlines down.
Columbia County									
2 N Mc Neil	25	1825CST			0	0			Thunderstorm Wind (G70)
									Numerous trees down just north of Hwy 79.
Miller County									
Texarkana	25	1555CST			0	0			Thunderstorm Wind (G60)
									Several large trees down in town.
Lafayette County									
1 W Lewisville	25	1730CST			0	0			Hail (1.00)
Lafayette County									
Stamps	25	1735CST			0	0			Thunderstorm Wind (G60)
									Several large trees down.
Howard County									
8 S Nashville	26	1105CST			0	0	10K		Thunderstorm Wind (G65)
									Seven chicken houses suffered moderate damage and several chickens were killed.
Howard County									
Nashville	04	1845CST			0	0	20K		Thunderstorm Wind (G60)
									Trees and powerlines down. A metal canopy over gas pumps at a service station was flipped upside down onto two cars.
Columbia County									
Waldo	04	1455CST			0	0			Thunderstorm Wind (G60)
									Several large trees and powerlines down.
Sevier County									
3 W Horatio	08	2034CST			0	0			Hail (0.88)
Sevier County									
Horatio	08	2042CST			0	0			Thunderstorm Wind (G60)
Columbia County									
1 N Magnolia	25	1805CST			0	0			Thunderstorm Wind (G60)
									Several large trees down.
Columbia County									
Magnolia	04	2135CST			0	0	140K		Flash Flood
									Numerous county roads were under 4 to 6 feet of water. One small bridge was washed out.
Howard County									
Nashville	04	1845CST			0	0			Hail (0.88)
Union County									
2 S El Dorado	03	1555CST			0	0			Hail (1.00)
Union County									
3 SW El Dorado	03	1600CST			0	0			Hail (2.75)
Union County									
Wesson	03	1602CST			0	0			Hail (2.75)
Union County									
El Dorado	03	1608CST			0	0			Hail (1.75)

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

CAZ016>019 Central Sacramento Valley - Southern Sacramento Valley - Carquinez Strait And Delta - Northern San Joaquin Valley

03 0330PST 2100PST 0 0 20K 39K High Wind (G38)

Pre-frontal winds of 40 mph disrupted electrical service for 3,500 PG&E customers. Isolated stronger winds were also responsible for uprooting a total of 200 almond trees in Stockton and Chico as well as damaging a barn roof in Tracy.

Storm Data and Unusual Weather Phenomena

April 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, North Central

CAZ013>014- 063>064-066>069	Shasta Lake/North Shasta County - Burney Basin/Eastern Shasta County - Mountains Southwest Shasta County To Northern Lake County - Clear Lake/Southern Lake County - Northeast Foothills/Sacramento Valley - Motherlode/Camptonville To Goverland - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada								
	04	0800PST			0	0			Winter Storm
	06	0330PST							
	Up to three feet of snow at 7,000 feet combined with snow as low as 400 feet temporarily closed Interstate 80 and Highway 50. The Red Cross set up temporary shelter in the Paradise area to accommodate unprepared stranded motorists.								
CAZ013>014- 063>064-068>069	Shasta Lake/North Shasta County - Burney Basin/Eastern Shasta County - Mountains Southwest Shasta County To Northern Lake County - Clear Lake/Southern Lake County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada								
	07	1600PST			0	0			Winter Storm
	08	2130PST							
	Two feet of snow accumulated at the 7000 foot level. Interstate 80 was temporarily closed due to near zero visibilities at Donner Summit. Highway 50 was temporarily closed for avalanche patrol.								
CAZ015-017-019	Northern Sacramento Valley - Southern Sacramento Valley - Northern San Joaquin Valley								
	22	1100PST			0	0	20K		High Wind (G36)
	23	1445PST							
	Post-frontal winds approaching 40 mph disrupted electrical service for 4,600 PG&E customers. The north winds were also responsible for uprooting a 75 foot oak tree in Stockton. The tree destroyed a residential garage and damaged an adjacent single story home.								

CALIFORNIA, Northeast

CAZ072	Greater Lake Tahoe Area								
	03	0600PST 0930PST			0	0	0		Heavy Snow
	4 to 5 inches of snow in 3.5 hour period reported in Tahoe Donner near Truckee, elevation 6500 feet.								
CAZ073	Mono								
	03	0805PST 1105PST			0	0	0		Heavy Snow
	3 inches of snow reported in a 3 hour period in Mammoth Lakes, elevation 7800 feet.								
CAZ072	Greater Lake Tahoe Area								
	03	0830PST 1127PST			0	0	30K		Blizzard
	6 inches of snow in 3 hours with visibilities ranging from 0 to 300 feet in South Lake Tahoe. A 13 car accident was reported on US Highway 50.								
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	03	0600PST 1200PST			0	0	0		Heavy Snow
	5.5 inches of snow in a 6 hour period reported in Imlay, elevation 4195 feet.								
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	05	0100PST 0705PST			0	0	0		Heavy Snow
	4 inches of snow in approximately 6 hours recorded in Portola, elevation 4860 feet.								
CAZ072	Greater Lake Tahoe Area								
	05	0300PST 0800PST			0	0	0		Heavy Snow
	3 inches of snow in last 2 hours with total of 5 inches in 5 hours recorded in Truckee, elevation 5900 feet.								
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	05	0545PST 1045PST			0	0	0		Heavy Snow
	8 inches of snow in a 5 hour period in Graeagle, elevation 4500 feet.								
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
	05	0545PST 1145PST			0	0	0		Heavy Snow
	7 to 8 inches of snow in approximately 6 hours in Sierraville, elevation 4952 feet.								
CAZ072	Greater Lake Tahoe Area								
	05	0145PST 1345PST			0	0	0		Heavy Snow
	14 inches of snow in a 12 hour period reported at Tahoe City, elevation 6300 feet.								

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
CALIFORNIA, Northeast									
CAZ072			Greater Lake Tahoe Area						
	05	0300PST 1350PST			0	0	0		Heavy Snow
			8-12 inches of snow in the last 11 hours in Meyers, elevation 6340 feet.						
CAZ072			Greater Lake Tahoe Area						
	05	0500PST			0	0	0		Heavy Snow
	06	0500PST							
			12-18 inches of snow in a 24 hour period recorded at Sierra-at-Tahoe Ski Resort.						
CAZ072			Greater Lake Tahoe Area						
	05	0530PST			0	0	0		Heavy Snow
	06	0530PST							
			12-19 inches of snow in a 24 hour period recorded at Northstar Ski Area.						
CAZ072			Greater Lake Tahoe Area						
	05	0545PST			0	0	0		Heavy Snow
	06	0545PST							
			24-28 inches of new snow in 24 hours reported at Squaw Valley Ski Resort.						
CAZ072			Greater Lake Tahoe Area						
	05	1930PST			0	0	0		Heavy Snow
	06	1930PST							
			12 inches of snow overnight in Markleeville, elevation 5500 feet.						
CAZ073			Mono						
	06	0530PST 0945PST			0	0	0		Heavy Snow
			11 inches of snow in 4 hours and 15 minutes reported at Crowley Lake, elevation 6781 feet.						
CAZ073			Mono						
	06	2000PST			0	0	0		Heavy Snow
	07	0600PST							
			6 inches of snow in a 10 hour period in Walker, elevation 5400 feet.						
CAZ071			Lassen/Eastern Plumas/Eastern Sierra						
	08	0715PST 1115PST			0	0	0		Heavy Snow
			6 inches of snow in a 4 hour period in Sierraville, elevation 4952 feet.						
CAZ072			Greater Lake Tahoe Area						
	08	0620PST 1120PST			0	0	0		Heavy Snow
			6 inches of snow in a 5 hour period at Tahoe Donner near Truckee, elevation 6500 feet.						
CAZ072			Greater Lake Tahoe Area						
	08	0525PST 1125PST			0	0	0		Heavy Snow
			6 inches of snow in approximately 6 hours in South Lake Tahoe, elevation 6300 feet.						
CAZ072			Greater Lake Tahoe Area						
	08	0530PST 1135PST			0	0	0		Heavy Snow
			6 inches of snow in 6 hours in Woodfords, elevation 5640 feet.						
CAZ072			Greater Lake Tahoe Area						
	08	0530PST 1730PST			0	0	0		Heavy Snow
			Media report of 15 inches of snow in 18 hours atop Donner Summit, elevation 7229 feet.						
CAZ072			Greater Lake Tahoe Area						
	08	0540PST			0	0	0		Heavy Snow
	09	0540PST							
			22 inches of snow in a 24 hour period at Alpine Meadows Ski Resort.						
CAZ071			Lassen/Eastern Plumas/Eastern Sierra						
	27	1100PST			0	0	0		Heavy Snow
	28	0600PST							
			4 inches of snow in a 7 hour period in Doyle, elevation 4267 feet.						
CALIFORNIA, Northwest									
CAZ002			Mendocino Coast						
	01	1258PST			0	0			Wind Damage
			Wind gusts to over 50 mph damaged rooves in the Town of Mendocino.						

Storm Data and Unusual Weather Phenomena

April 1999

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

CAZ003>004 **North Coast Interior - Upper Trinity River**
04 **2300PST** **0** **0** **Heavy Snow**
05 **0900PST**
 Five to eight inches of snow fell across the area above 2500 feet.

CAZ003-076 **North Coast Interior - Mendocino Interior**
07 **2100PST** **0** **0** **Heavy Snow**
08 **0500PST**
 Eight to more than a foot of snow fell above 3500 feet.

CAZ004 **Upper Trinity River**
10 **0100PST** **0** **0** **Heavy Snow**
 1700PST
 Four to nine inches of snow fell above 2500 feet across much of Trinity County.

CALIFORNIA, South Central

CAZ020>021 **Central San Joaquin Valley - Southern San Joaquin Valley**
10 **0300PST** **0** **0** **131.0M** **Extreme Cold**
 0700PST

Unseasonably cool air led to strong radiational cooling conditions and minor frost episodes on the mornings of April 1st (unofficial report of 29 deg F.), 2nd, and the coolest conditions of these three days occurred on the morning of Easter Sunday, the 4th, in the Central and Southern San Joaquin Valley. The 3 days early in the month were followed by another relatively cold morning on the 10th. While not all areas dropped to less than freezing, several areas had temperatures in the 28 to 32 degree range for 4 hours, with pockets dropping unofficially as low as 25 deg F. on the west side in Kings and Fresno Counties. Fresno dropped to 33F on the 4th which broke the old record of 35 set in 1901...and dropped to 34F on the 10th. On the other hand, Bakersfield's lowest temperature was 33F on the 10th, with a 35F low on the 4th. In Kings County, Hanford dropped to 33F on the 4th, and 34F on the 10th. This time of year deciduous trees, vineyards, and vegetable crops are quite vulnerable to temperatures less than 30 degrees for any length of time. While damage losses at individual locations varied from only 30 to 60%, the amount of agricultural crop value for the San Joaquin Valley led to a substantial damage figure. All this on the heels of the disastrous December 1998 Freeze (see December Storm-of-the-Month). Damage due to freezing was assessed at Merced \$12.0M, Madera \$8.5M, and Fresno \$88.75M for the Central Valley; and Kings \$12.76M and Tulare \$9.0M for the Southern San Joaquin Valley.

Kings County

Hanford to **08** **1852PST** **0** **0** **3.4M** **Hail (1.00)**
10 E Hanford **1912PST**

Hail damage to young vines, stone fruit, and deciduous crops.

Fresno County

Reedley **08** **1925PST** **0** **0** **15.7M** **Hail (0.75)**
 1935PST

Hail damage to young vines, stone fruit, and deciduous crops.

Tulare County

Porterville **08** **1925PST** **0** **0** **2M** **Hail (0.75)**
 1940PST

Hail damage to young vines, stone fruit, and deciduous crops. From the Tulare County Ag Commissioner some damage was reported in the vicinity of Porterville.

Tulare County

2 W Visalia to **08** **1925PST** **0** **0** **4M** **Hail (0.75)**
2 SE Visalia **1935PST**

Hail damage to young vines, stone fruit, and deciduous crops. This particular damage band was reported between Goshen/Caldwell ESE through Visalia toward Exeter in Tulare County.

Besides the frost and wind during early April, very active thunderstorms moved through the Fresno, Kings, and Tulare County areas early on the evening of April 8th. Hail up to 1-inch was reported in northeast Hanford with crop damage north and east of town. Besides the hail near Porterville, Visalia had 3/4-inch hail by 2025 PDT. Even smaller hail on intolerant crops in Fresno County brought damage to area agriculture. Fresno County assessed a loss of \$15.65M, Kings \$3.39M, and Tulare \$6.0M due to hail during this time period.

CAZ020>021

Central San Joaquin Valley - Southern San Joaquin Valley
03 **1400PST** **0** **0** **20K** **22.7K** **High Wind**
 2100PST

Much above normal wind conditions led to downed powerlines and agricultural deciduous trees in many parts of the Central and Southern San Joaquin Valley. Fresno reported \$22.7K due to downed almond trees. While Kings County had approximately 20 power poles blown over on Highway 198 just east of Hanford. While wind speeds did not reach high wind warning criteria, advisory levels were reached with consistent peak gusts throughout the Central and Southern San Joaquin Valley at ASOS sites varying from 38 to 45 MPH ... one unofficial gust was reported in the Kerman area of Fresno County at 64 MPH. Over 12,000 customers in the Central San Joaquin Valley and the north-portion of the South San Joaquin Valley were without power due to downed powerlines.

Storm Data and Unusual Weather Phenomena

April 1999

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

Kern County

**2 SE Bakersfield to
2.1 SE Bakersfield** **03** **1630PST
1635PST** **0.1** **10** **0** **0** **3K** **Tornado (F0)**

With strong gradient wind and some convective activity, a cold air funnel touched down briefly in Southeast Bakersfield near Pacheco Road and Kaiser Court. A few small trees were downed along with damage to a small shed.

Madera County

**10 SE Madera to
10.5 SE Madera** **08** **1403PST
1405PST** **0** **0** **Funnel Cloud**

Reported just west of Highway 99 at the Fresno/Madera County Line by a Storm Chaser.

CALIFORNIA, Southeast

NONE REPORTED.

CALIFORNIA, Southwest

Orange County

**10 W Newport
Beach to
6 W Newport
Beach** **01** **1445PST
1517PST** **0** **0** **Waterspout**

CAZ058

San Diego County Mountains

01 **1050PST** **8** **13** **Heavy Snow**
02 **0000PST**

Snow began late in the morning and continued till around midnight. The heaviest snow fell between 3 p.m. and 9 p.m. At the 3700 foot elevation, nine inches of snow fell in a six hour period. At the 5650 foot elevation, eighteen inches of new snow fell in a twelve hour period. In the Pine Creek Wilderness Area of the Laguna Mountains, eight men died from hypothermia, and thirteen men, women, and children were hospitalized for hypothermia and frostbite. Search and rescue teams rescued another 37 people trapped by the heavy snow in the Wilderness Area. The survivors stated they had been on foot for more than three days. Many were found only wearing light clothing and tennis shoes and stated they had never experienced snow before. On the Mexican side of the border, authorities rescued 41 people who were stranded on foot, and another 85 campers and motorists. M23OU, M32OU, M17OU, M20OU, M25OU, M25OU, M31OU, M27OU

Riverside County

**4 NW San Jacinto
to
Hemet** **01** **1300PST
1900PST** **0** **0** **5K** **Urban/Sml Stream Fld**

Heavy downpours caused flooding at the intersection of Highway 79 and Gilman Springs Road and over several residential roads in Hemet.

San Diego County

**3 SW Escondido to
3 S Lemon Grove** **01** **1340PST
2330PST** **0** **0** **12K** **Urban/Sml Stream Fld**

Heavy runoff in Spring Valley Creek caused 1.5 feet of water to flood Quarry Road and forced road closure for ten hours. Flooding in Escondido Creek caused water to run across County Club Road for two hours.

San Diego County

3 W La Jolla **02** **1730PST
1800PST** **0** **0** **Funnel Cloud**

San Diego County

4 S Oceanside **03** **1210PST** **0** **0** **Waterspout**

Riverside County

3 NE Temecula **12** **1426PST
1431PST** **0** **0** **Funnel Cloud**

Orange County

**1 NW Huntington
Beach** **11** **1930PST
0100PST** **0** **0** **Urban/Sml Stream Fld**

Heavy rain caused flooding of low lying areas and streets in the north and west portions of Orange County. The Pacific Coast Highway was closed for six and a half hours between Warner Avenue and Seapoint Avenue.

San Diego County

2 W La Jolla **07** **1629PST** **0** **0** **Funnel Cloud**

CAZ055

San Bernardino County Mountains

06 **1445PST** **0** **0** **Heavy Snow**
07 **0900PST**

Fourteen inches of new snow fell at the 8000 foot elevation in the Wrightwood area during this period. Snow continued on and off until the afternoon of April 7 with the snow level as low as 2600 feet. Ski resorts which had closed a few days earlier were able to

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	
CALIFORNIA, Southwest									
		reopen due to the heavy snowfall.							
CAZ055-057>058-060>061		San Bernardino County Mountains - Santa Ana Mountains And Foothills - San Diego County Mountains - Apple And Yucca Valleys - Coachella Valley							
	08	1900PST			0	0	10K		High Wind (G54)
	09	0356PST							
CAZ042>043		Orange County Coastal Plain - San Diego County Coasts							
	03	1130PST			1	1	370K		Winter Storm
	04	1000PST							
		Heavy surf and strong wind gusts ripped sails and parted lines on several yachts racing between Catalina Island and Newport, grounded two small boats, and capsized two others. The three man crew of one boat was rescued. Debris from the other boat was found, but the one man crew was lost and presumed drowned. Strong winds also caused blowing sand and reduced visibilities from Seal Beach to San Clemente, tore loose road signs along Pacific Coast Highway between Huntington Beach and Laguna Beach, and downed power lines and trees throughout Orange County. Farther south in San Diego County, boats were jumbled about in San Diego Bay marinas and power outages occurred in Point Loma.							
		M32IW							
CAZ048		San Bernardino County Valley/The Inland Empire							
	15	0800PST			0	0			High Wind (G52)
		0810PST							
		High winds were observed below the Cajon Pass.							
Riverside County									
Murrieta to Temecula	07	0900PST			0	0			Urban/Sml Stream Fld
		1130PST							
		Street flooding occurred in the San Jacinto and Temecula valleys from heavy rainshowers following the passage of a strong cold front. California Highway Patrol reported more than three times the normal amount of traffic collisions on Inland Empire Highways during this period.							
CAZ062		San Diego County Deserts							
	28	1340PST			0	0	75K		High Wind (G62)
		1500PST							
		High winds between Borrego Springs and Jacumba caused blowing dust and sand. A parked semi tractor-trailer was blown over on Interstate 8 just west of Jacumba. In Borrego Springs, steady winds near 60 mph blew over trees on to a house and parked cars. Several out buildings were also damaged or destroyed.							
Riverside County									
March Afb to Temecula	23	1300PST			0	0			Urban/Sml Stream Fld
		1420PST							
		Thunderstorms dropped pea sized hail to a depth from one to three inches and brief heavy rain. This combined to produce street flooding in Murrieta at the time schools were letting out.							
San Diego County									
Warner Spgs to Pine Vly	23	1410PST			0	0			Urban/Sml Stream Fld
		1755PST							
		Thunderstorms dropped two thirds of an inch of rain and pea sized hail an inch deep.							
CAZ060>061		Apple And Yucca Valleys - Coachella Valley							
	21	0900PST			0	0	210K		Dust Storm
	22	2127PST							
		Prolonged and sustained winds between 30 and 40 mph with gusts to 54 mph across the Apple, Yucca, and Coachella Valleys occurred over this two day period. Blowing dust and sand caused visibilities near zero, forced road closures, damaged automobile windshields, and raised air pollution readings to exceptionally high levels. A roof was partially torn off a house in Palm Springs. Just to the west, along Highway 111, a semi tractor-trailer was overturned. Farther north, a tree and several power poles along the Oro Grande Wash between Hesperia and Victorville were toppled.							
Riverside County									
1 S (Ral)Riverside Muni	28	1657PST			0	0	3K		Thunderstorm Wind
		1659PST							
		A peak wind of 29 mph was measured by the ASOS at Riverside Municipal Airport at the time a patio roof was destroyed by a thunderstorm downdraft one mile to the south. The same storm ten miles to the north was producing heavy rain and hail along Interstate 10 between 16:44 and 17:02 PST from Fontana to Colton. Motorists reacted to the rapidly changing visibilities, by braking suddenly. In a matter of minutes, more than 57 separate accidents occurred, involving 212 vehicles and injuring 81 people. Damage estimates, including costs of emergency agencies and responders, exceed one million dollars.							
CAZ043		San Diego County Coasts							
	28	1830PST			0	2	50K		Heavy Surf
		1945PST							
		Eight foot seas and 35 knot winds caused a mast to break on a 22 foot sailboat and throw the crew of two overboard. The crew were rescued, but the disabled boat was destroyed against the Ocean Beach Pier by 10 foot breaking waves.							

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	

CALIFORNIA, Upper

CAZ011>012 Siskiyou County - Modoc County Except Surprise Valley
03 1330PST 0 0 Extreme Cold
04 0740PST

See narrative

A Freeze Warning was issued for Siskiyou and Modoc counties at the above listed times. One station in each county verified the warning and are listed below.

Station	Normal Low	Observed Low	Departure
Mount Shasta	44	27	-17
Tulelake	28	12	-16

CALIFORNIA, West South Central

San Luis Obispo County

6 NE Nipomo 01 1445PST 0 0 Funnel Cloud
 Weather spotter reported a funnel cloud near Huasna.

Los Angeles County

Chatsworth 01 1400PST 0.1 5 0 0 Tornado (F0)
 A small tornado touched down in the community of Chatsworth. Two mobile homes were damaged.

CAZ034>041-044>047-051>054-059 San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Ynez Valley - San Luis Obispo County Interior Valleys - Cuyama Valley - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles - Ventura County Interior Valleys - Ventura County Coastal Valleys - Santa Monica Mountains Recreation Area - Los Angeles County Valleys - San Luis Obispo County Mountains - Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range - Antelope Valley

03 1030PST 0 0 High Wind (G56)
04 0800PST

Strong northwest winds developed across Central and Southern California. Sustained wind speeds of at least 35 to 45 mph with gusts up to 65 mph were reported. Widespread power outages and felled trees were reported. In Camarillo, a downed power line sparked a small house fire. In Long Beach, a tree was felled, blocking two lanes of the 710 Freeway. On Catalina Island, the Catalina Island Yacht Club reported severe wind damage to their quarter deck.

Ventura County

Pt Mugu Nas 07 0905PST 0 0 Funnel Cloud
 A weather observer at Point Mugu Naval Base reported two funnel clouds east of the base.

CAZ053>054 Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range

07 0030PST 0 0 Heavy Snow
1330PST

A powerful Pacific storm brought snow to the mountains of Ventura and Los Angeles Counties. Above 5000 feet, snowfall totals of 8 to 14 inches were reported.

CAZ041 Los Angeles County Coasts Including Downtown Los Angeles

09 1100PST 0 1 High Wind (G40)
 Gusty winds knocked down a 60 foot palm tree onto a house in the community of Hancock Park. One man was injured.

CAZ052>054 Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range

11 0800PST 0 0 Heavy Snow
12 1200PST

Another Pacific storm brought more snow to the mountains of Southern California. Above 5000 feet, snowfall totals of 6 to 13 inches were reported. The heavy snow forced closures of several mountain highways, including Highway 138 and Highway 2.

Los Angeles County

Long Beach 11 1700PST 0 0 Urban/Sml Stream Fld
2100PST

Ventura County

Oxnard 11 1700PST 0 0 Urban/Sml Stream Fld
2100PST

Moderate to locally heavy rainfall produced minor street flooding across coastal areas of Ventura and Los Angeles Counties.

Los Angeles County

Castaic 23 1545PST 0 0 Hail (1.00)
 A severe thunderstorm produced one inch hail near the community of Castaic.

Ventura County

Simi 23 1555PST 0 0 Hail (1.00)
 Local police department reported one-inch hail.

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	

CALIFORNIA, West South Central

CAZ039 **Santa Barbara County South Coast**
28 **1100PST** **0** **0** **High Wind (G40)**
 Strong winds damaged two mobile homes in the community of Carpinteria.

CALIFORNIA, Western

CAZ005>006-010-074>075 **Sonoma / Marin Counties - San Francisco County - Salinas Valley / Interior Monterey County / San Benito County - Santa Cruz Co. - San Mateo Co.**
03 **0800PST** **1** **2** **High Wind (G85)**
1600PST
 Peak wind of 85 kts was recorded at the Pt. Reyes light house. Many trees as large as Five feet in diameter were uprooted by the storm.
 A late Spring Storm brought widespread high winds, small hail and snow to the higher regions of the Bay area and central coast. A 1 year old child was killed by a 90 foot Tree being blown on to the car which she was waiting with her mother in Salinas CA. The mother was also trapped, injured and had to be removed with the JAWS of Life. US congressman Farr was uninjured when his truck pulling a trailer was blown off the road. MIUT

COLORADO, Central and Northeast

COZ032-035>037-039>041 **Middle Park - Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - South Park - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity**
01 **1700MST** **0** **0** **0** **Heavy Snow**
02 **0500MST**
 Moist upslope conditions allowed for heavy snow to develop in and near the Front Range Foothills. In the foothills, snowfall totals included: 10 inches at Aspen Park and Evergreen, 9 inches at Hot Sulphur Springs and Turkey Creek, 8 inches at Idaho Springs, Genessee and St. Mary's Glacier, 7 inches at Aspen Springs, Crow Hill, Intercanyon and Lake George, with 4 to 6 inches elsewhere.

Along the Urban Corridor, snowfall totals included: 10 inches, 5 miles south-southeast of Sedalia, 8 inches at Littleton, 7 inches at Morrison, 6 inches at Highlands Ranch and 4 miles northwest of Larkspur, 4 to 5 inches at the National Weather Service Office in Denver, 2 miles northwest of Louisville, Northglenn and Parker.

COZ035>036-038>040-042>046-048>050 **Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Northeastern Weld County - Southern Weld County/Greeley And Vicinity - Morgan County/Fort Morgan And Vicinity - Eastern Adams And Eastern Arapahoe Counties - Eastern Elbert And Northern Lincoln Counties/Limon And Vicinity - Logan County/Sterling And Vicinity - Washington County/Akron And Vicinity - Sedgwick And Phillips Counties**
08 **0320MST** **0** **0** **7.2M** **High Wind (G100)**
1315MST

Another damaging windstorm ravaged much of northeast Colorado to the tune of \$7.2 million, making it the third costliest storm to strike the region. Most of the damage to homes (\$4.35 million) consisted of broken fences, awnings, doors and windows. In one instance, a home under construction in Fort Collins was blown down by the strong winds. Scores of automobiles (\$2.85 million) suffered broken or cracked windshields and paint damage from flying debris. Crop damage was also incurred as budding crops were blown away in the windstorm.

Multiple accidents were triggered as several tractor-trailer rigs were blown on their sides by strong cross-winds. Blowing dust and dirt caused near zero visibilities at times. As a result, sections of Interstate 25, from Denver to the Wyoming State line, Interstate 76, from Denver to the Nebraska State line and State Highway 93, between Golden and Boulder, were closed until the winds safely subsided. Several trees, power poles and power lines were downed causing a number of outages throughout northeast Colorado as well as sparking a few small grass fires.

Peak wind gusts reached or exceeded the century mark at several locations, including 116 mph (100 kts), 4 miles northwest of Bingham Hill near Fort Collins, 112 mph (97 kts) atop Niwot Ridge, 106 mph (92 kts), 2 miles north of Estes Park, 103 mph (90 kts) at Carter Lake, 102 mph (89 kts) at Wondervu, and 100 mph (87 kts) at the NCAR Mesa Lab, in the foothills southwest of Boulder.

Other peak wind reports included: 96 mph (83 kts) at the Rocky Flats Environmental Test Facility, 92 mph (80 kts) at Jefferson County Airport, 91 mph (79 kts) 4 miles south of Livermore, 90 mph (78 kts) at Allenspark, Highlands Ranch and 21 miles north of New Raymer, 87 mph (76 kts) at Merino, 85 mph (74 kts) 7 miles west of Broomfield, 82 mph (71 kts) at Golden Gate Canyon and Hereford, 80 mph (70 kts) at Broomfield, the CU Campus in Boulder, and 6 miles west-northwest of Loveland, 77 mph (67 kts) at the Akron Airport, 75 mph (65 kts), 6 miles south of Bennett, 74 mph (64 kts) at Crook and 4 miles east of Haxtun, 73 mph (64 kts) at Fort Collins, 71 mph (62 kts) at Woodrow, 70 mph (61 kts) at North Table Mountain near Golden and 15 miles west-northwest of Sterling, 65 mph (56 kts), 6 miles southeast of Wellington, 63 mph (55 kts) at Padroni, 59 mph (51 kts), 1 mile

Storm Data and Unusual Weather Phenomena

April 1999

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

north of Strasburg and 58 mph (50 kts) at Greeley and 9 miles north of Limon.

COZ035>036-038>040-042-044-046-048>050 **Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Northeastern Weld County - Morgan County/Fort Morgan And Vicinity - Eastern Elbert And Northern Lincoln Counties/Limon And Vicinity - Logan County/Sterling And Vicinity - Washington County/Akron And Vicinity - Sedgwick And Phillips Counties**

09	2000MST	0	0	13.8M	High Wind (G85)
10	1130MST				

Another round of damaging winds buffeted eastern Colorado, in and near the foothills from Fort Collins south to Pueblo, as well as portions of the adjacent plains. Total damages estimates were at \$13.8 million. This estimate also included damage to areas in southeast Colorado. Several homes were damaged as shingles were blown off roofs. Large pieces of a roof were torn off a strip mall in Lakewood, a suburb southwest of Denver, damaging several cars in the parking lot. More trees, power poles and power lines were downed causing scattered outages throughout northeast Colorado.

Peak wind reports included: 98 mph (85 kts) at the National Wind Technology Center, 7 miles west of Broomfield, 97 mph (84 kts), 2 miles north of Estes Park, 95 mph (82 kts) at Carter Lake, 92 mph (80 kts) at the CU Campus in Boulder, 91 mph (79 kts) at the NCAR Mesa Lab, in the foothills southwest of Boulder, 86 mph (75 kts) at Jefferson County Airport, 80 mph (70 kts), 21 miles north of New Raymer, 76 mph (66 kts) at Padroni, 75 mph (65 kts) at Merino, 73 mph (63 kts) at Golden, 72 mph (63 kts) at Woodrow, 71 mph (62 kts) at Fort Morgan and 4 miles east of Haxtun, 70 mph (61 kts) at Broomfield and Fleming, 69 mph (60 kts) at Kirk, 66 mph (57 kts) at Akron, 62 mph (53 kts) at Sterling, and 59 mph (51 kts) at Limon.

COZ034>036-039>041 **Summit County/Mosquito Range/Indian Peaks - Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity**

14	0700MST	0	0	0	Heavy Snow
15	0700MST				

A spring storm, finally dropped heavy snow to areas in and near the Front Range Foothills, alleviating the drought conditions and associated fire danger that prevailed through much of the winter season. In the mountains and foothills, snowfall totals included: 22 inches at Coal Creek Canyon, 20 inches at Wondervu, 19 inches at Allenspark, Genessee, St. Mary's Glacier and the Mount Evans Research Center, 18 inches at Klondike, 17 inches, 8 miles northwest of Evergreen, 3 miles east-northeast of Nederland, Idaho Springs and Tiny Town, 14 inches at Georgetown and Doubleheader, 13 inches at Blackhawk, Intercanyon and Morrison, 12 inches at Aspen Springs, Floyd Hill and Rollinsville, 11 inches at Chief Hosa, with 10 inches reported at Boulder Canyon, Conifer, 2 miles north of Foxton and North Turkey Creek.

Along the Urban Corridor, snowfall totals included: 13 inches, 4 miles northwest of Larkspur, 10 inches, 5 miles east-southeast of Sedalia, 9 inches at South Boulder, 8 inches at Highlands Ranch and Wheat Ridge, 7 inches at Littleton and Parker, 6 inches at Golden, with 3 to 5 inches reported around the rest of the Denver Metropolitan Area.

COZ034>036-039>041 **Summit County/Mosquito Range/Indian Peaks - Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity**

21	1700MST	0	0	0	Heavy Snow
23	0300MST				

Heavy snow developed in and near the Front Range Foothills, effectively ending any drought concerns in the immediate future. Heavy wet snow wreaked havoc on power lines in Douglas and Elbert Counties. Scattered outages were reported at Parker, Franktown, Larkspur, Sedalia and Castle Rock. Some residents were without electricity for as long as 20 hours. The inclement weather was blamed, at least in part, for several accidents along the Interstate 25 Corridor, between Denver and Castle Rock.

In the mountains and foothills, snowfall totals included: 36 inches, 3 miles north of Alma and 1 mile east of Buckhorn Mountain, 32 inches at Idaho Springs, 31 inches at Crowhill, 29 inches, 4 miles south of Evergreen, 26 inches at Chief Hosa and Coal Creek Canyon, 25 inches at Bailey and 11 miles southwest of Morrison, 24 inches at Floyd Hill and 3 miles north of Shawnee, 23 inches at Conifer, Genessee, Golden Gate Canyon, North Turkey Creek and Pine Junction, 22 inches, 3 miles north of Blackhawk and Wondervu, with 20 inches at Aspen Springs and 7 miles east-northeast of Virginia Dale, with amounts from 12 to 18 inches elsewhere.

Along the I-25 Corridor, snowfall amounts included: 15 inches, 4 miles northwest of Larkspur, 13 inches at Broomfield and 5 miles south-southeast of Sedalia, 12 inches at Boulder, 11 inches at Louisville and Parker with 9 inches reported at the National Weather Service Office in Denver.

Storm Data and Unusual Weather Phenomena

April 1999

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

COZ034>035 Summit County/Mosquito Range/Indian Peaks - Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins

28	1700MST	0	0	0	0	0	0	Heavy Snow
29	0500MST							

Heavy snow develop in portions of the mountains and higher foothills. Snowfall totals included: 8 inches at the Eisenhower Tunnel, 7 inches, 1 mile east of Buckhorn Mountain, with 6 inches reported 2 miles north of Alma and at Loveland Ski Area.

COZ035>036 Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin

29	1700MST	0	0	0	0	0	0	Heavy Snow
30	0500MST							

More heavy snow fell across the Front Range Foothills overnight, at elevations mainly above 7500 feet. Snowfall totals included: 13 inches, 2 miles north of Rollinsville, 10 inches, 1 miles east of Buckhorn Mountain and 8 miles northwest of Evergreen, 9 inches at St. Mary's Glacier, 8 inches at Blackhawk and Nederland, with 7 inches reported at Conifer.

COZ035-038-041 Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Eastern Larimer And Northwestern Weld Counties - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity

28	1700MST	0	0	0	0	0	0	Flood
30	2359MST							

Flooding problems developed across Larimer, western Weld and southern Elbert Counties as a steady southeasterly upslope flow brought heavy snow, above 7500 feet, and steady rainfall below 7500 feet. The combination of a persistent upslope and increased runoff allowed for several creeks, rivers and streams to jump their banks. Rainfall totals over 4 days ranged from 4 to over 6 inches in the hardest hit areas.

The Big and Little Thompson Rivers, the Cache La Poudre River and Buckhorn Creek all experienced flooding problems. Several county roads in eastern Larimer and western Weld Counties were washed out. Similar problems occurred near Simla, in Elbert County, as many of the smaller culverts could not handle the high volume of runoff. About 60 residents at a mobile home park in Loveland were evacuated and placed in temporary shelters. The water rose high enough in the mobile home park to cover the bumpers of the cars. Several basement in Fort Collins were also flooded. Five people had to be evacuated from the small mountain community of Cove Creek as private bridges and roads became impassable.

Elbert County

Kiowa	25 1520MST	0	0	0	0	0	0	Dry Microburst
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Dry microburst winds blew a tin shed off its hinges and into a tree. Some shingles were also torn off the roof of a nearby home.

COLORADO, East Central

COZ090>092 Yuma County - Kit Carson County - Cheyenne County

08	0700MST	0	0	0	0	0	0	High Wind (G85)
10	1700MST							

A strong area of low pressure across the central US in combination with high pressure across the Rockies brought high winds to far Eastern Colorado for a three day period. These strong winds caused damage to a couple of schools, a local Post Office, several power line poles to be severed, and numerous houses had their shingles torn off. Burlington had a peak wind speed of 85 mph on the 8th with many other locations receiving similar peak wind speeds during the event.

COLORADO, South Central and Southeast

COZ060>062-065>075 La Garita Mountains - Eastern San Juan Mountains - Northern San Luis Valley/Del Norte And Vicinity - Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Western Fremont And Northern Custer Counties - Upper Arkansas River Valley/Salida And Vicinity - Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity

01	0100MST	0	0	0	0	0	0	Winter Storm
02	2200MST							

A powerful slow moving winter storm brought heavy snow to the southern Colorado mountains and to parts of the adjacent plains and high valleys. Snow began early morning on the 1st in the eastern San Juan and La Garita mountains and spread to the Sangre de Cristo mountains by midday. Rain changed to snow over the Rampart Range and El Paso county in the late afternoon and spread into the Wet mountains and Pueblo areas by evening. More than 8 inches of snow fell above 8500 feet in the eastern San Juan and La Garita mountains, with an amazing 48 inch total at the summit of Wolf Creek Pass. A foot of snow occurred at Salida in Chaffee county. Twenty to 30 inches was logged in parts of the Wet Mountain Valley around Westcliffe. Eight to 16 inches of snow was tallied in western El Paso county and the Rampart Range. Other snow amounts include 4 inches in the Pueblo area, 8 inches in Aguilar in Las Animas county, 12 inches at Canon City in Fremont county and Beulah in Pueblo county, 14 inches in Rye in Pueblo county, and 15 inches in Walsenburg and Cuchara in Huerfano county.

Storm Data and Unusual Weather Phenomena

April 1999

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

COZ060>062-071>072 **La Garita Mountains - Eastern San Juan Mountains - Northern San Luis Valley/Del Norte And Vicinity - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge**

04	0800MST								
05	0600MST				0	0			Winter Storm

A fast moving winter storm brought some heavy snow to the higher elevations of the eastern San Juan and La Garita mountains. One to 3 inches of snow fell in the northern San Luis Valley. A cool, moist northerly surge of air brought 3 to 6 inches of snow to northern and western El Paso county, including Colorado Springs. Monument received the 6 inch totals. The summit of Wolf Creek Pass had 18 inches of snow. Snows of over 8 inches occurred in the higher elevations of the eastern San Juan and La Garita mountains.

COZ062>081 **Northern San Luis Valley/Del Norte And Vicinity - Alamosa County/Alamosa And Vicinity - Southern San Luis Valley - Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Western Fremont And Northern Custer Counties - Upper Arkansas River Valley/Salida And Vicinity - Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity - Crowley And Otero Counties/La Junta And Vicinity - Eastern Las Animas County - Kiowa County - Bent County/Las Animas And Vicinity - Prowers County/Lamar And Vicinity - Baca County/Springfield And Vicinity**

08	0100MST								
	1500MST				0	2	33K		High Wind (G90)

A widespread high wind event extended from northern Colorado into the south. In southern Colorado high winds occurred in the Upper Arkansas Valley and the San Luis Valley, and all points east to Kansas and south to New Mexico. Of those events reported, there were some scattered power outages in Chaffee county near Buena Vista and in the Wet Mountain Valley. In Manitou Springs in western El Paso county, the roof was partial peeled off the high school. In the Walsenburg area in Huerfano county on Interstate 25, two semi trailer trucks were blown over, with the drivers suffering minor injuries.

COZ062>068-070>081 **Northern San Luis Valley/Del Norte And Vicinity - Alamosa County/Alamosa And Vicinity - Southern San Luis Valley - Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Western Fremont And Northern Custer Counties - Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity - Crowley And Otero Counties/La Junta And Vicinity - Eastern Las Animas County - Kiowa County - Bent County/Las Animas And Vicinity - Prowers County/Lamar And Vicinity - Baca County/Springfield And Vicinity**

09	1400MST								
10	1500MST				0	0			High Wind (G77)

Another, mostly marginal, high wind event occurred from the San Luis Valley to Kansas and south to New Mexico. The highest winds, gusts over 70 mph, were reported in and near Alamosa, on Fort Carson in El Paso county, and in the Walsenburg area.

COZ066-070-072 **Southern Sangre De Cristo Mountains - Wet Mountains - Northern El Paso County/Monument Ridge**

14	0100MST								
15	1100MST				0	0			Heavy Snow

A weather system passing through New Mexico, combined with a strong, moist southward push of chilly air brought heavy snow to Monument Ridge, the Wet mountains, and the southern Sangre de Cristo mountains. Three to 6 inches of snow also fell in Teller county and the Rampart Range, Fremont county and parts of western Pueblo county and in the foothills of Huerfano and Las Animas counties. On Monument Ridge, 15 inches of snow occurred at Palmer Lake and 11 inches at Monument in El Paso county. In western Pueblo county, 9 inches fell at Beulah, and Rye logged 13 inches of fresh snow. Cuchara, in Huerfano county, tallied a foot of new snow.

COZ058>059-067-072 **Leadville And Vicinity - W Lake / W Chaffee County - Teller County/Rampart Range/Pikes Peak - Northern El Paso County/Monument Ridge**

21	1600MST								
22	1000MST				0	0			Winter Storm

A powerful, fast moving winter storm brought heavy snow to the central Colorado mountains, Teller county and the Rampart Range, and Monument Ridge. Accumulations in excess of 8 inches blanketed the eastern Sawatch Range and Mosquito Range, while 3 to 4 inches of snow fell in the Upper Arkansas Valley, including Leadville. Eight to 10 inches of snow fell in Teller county at Cripple Creek, Divide, and Woodland Park. In northern El Paso county 8 to 15 inches of snow occurred in the Monument, Eastonville, and Peyton areas from late evening of the 21st through midday on the 22nd.

COZ058>059-065-067-070-072 **Leadville And Vicinity - W Lake / W Chaffee County - Northern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Wet Mountains - Northern El Paso County/Monument Ridge**

22	1600MST								
23	1100MST				0	0			Winter Storm

A strong low pressure system, spinning in the southwest U.S. sent an impulse over southern Colorado, bringing heavy snow

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	

COLORADO, South Central and Southeast

accumulations to the central and eastern mountains and adjacent plains. The central mountains received in excess of 8 inches. Leadville had around 5 inches of new snow, and Buena Vista had 7 inches. In eastern Teller county, the Rampart Range, and Monument Ridge, another 6 to 8 inches of snow fell. The Monument and Black Forest areas picked up 6 inches, and Calhan tallied around 8 inches. Northern and western parts of Colorado Springs had 3 to 6 inches of snow. In the central Wet Mountain Valley, a few spots had up to a foot of snow. Heavy snow in excess of 8 inches also fell in the northern Sangre de Cristo mountains, and up to 6 inches of snow fell in the Walsenburg area in Huerfano county. Rye, in the Wet mountains, tallied 13 new inches of snow.

COZ061

Eastern San Juan Mountains

24	1600MST		0	0		Heavy Snow
25	0300MST					

A quick shot of heavy snow, brought by a weather disturbance, occurred in Mineral county. Many spots saw 4 to 5 inches of new snow, including the summit of Wolf Creek Pass and the Creede area.

Prowers County

10 S Lamar	25	1430MST		0	0	Hail (0.88)
		1435MST				

Prowers County

Granada	25	1518MST		0	0	Hail (1.00)
		1523MST				

Prowers County

Hartman	25	1537MST		0	0	Hail (1.00)
		1542MST				

Prowers County

12 NNE Holly	25	1556MST		0	0	Hail (0.88)
		1601MST				

Crowley County

Sugar City	28	1533MST		0	0	Hail (0.75)
		1538MST				

El Paso County

8 E (Cos)Peterson Field	28	1545MST		0	0	Hail (0.75)
		1550MST				

Otero County

Manzanola	28	1609MST		0	0	Hail (0.75)
		1614MST				

El Paso County

Manitou Spgs to 12 S Fountain	29	2030MST		0	0	28M	Flash Flood
	30	0500MST					

Heavy rain, with amounts between 3 and 6 inches, swelled the Monument Creek and Fountain Creek watersheds to overflowing the evening of the 29th. The fast moving waters caused much bank erosion and flooded many areas adjacent to Fountain Creek from Manitou Springs through Colorado Springs to Fountain. Damage to agricultural lands, irrigation systems, trails, roads, sewer treatment plants, and other public and private property has been estimated at near 30 million dollars at this time. The bridge at 21st Street over Fountain Creek in western Colorado Springs on highway 24, the major east-west highway heading up into the mountains, was deemed unsafe, and was closed three weeks for repairs. On the 30th, power went out for about 24 hours in the city of Fountain and surrounding when power lines over Fountain Creek were brought down by the flood waters. Due to flood waters, many sewer lines in southern Colorado Springs backed up into scores of residences and businesses, causing much damage. President Clinton declared El Paso county a disaster area on May 17th.

COZ070>075-077

Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity - Eastern Las Animas County

30	0200MST		0	0	7M	Flood
	2359MST					

Rainfall amounts of 6 to 13 inches from Wednesday night to Friday night caused fast rushing water and major flooding from the Fountain Creek watershed to the Arkansas River east of Pueblo. Heavy rain in the mountains and adjacent plains upstream from Pueblo on the Arkansas River caused flooding in Custer, Fremont and Pueblo counties as well. In Pueblo county, damage was done to roads, irrigation systems and bridge structures, especially near Fountain Creek. In far eastern Custer county, damage was done to roads. Heavy rain amounts, of 4 to 10 inches extended south to the Trinidad area, and began to flood the Purgatoire River basin, Huerfano River basin, and St. Charles River basin. The flood waters moved toward Otero county and Rocky Ford and La Junta. The rest of the narrative on this major flood, which was likely the greatest since 1965 will be continued in May Stormdata, with reports on flooding in Otero and Bent counties.

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 Damage	Crops	

COLORADO, South Central and Southeast

COZ065>067-070 Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Wet Mountains

28	1700MST			0	0				Winter Storm
30	2359MST								

Heavy snow fell generally above 8000 feet from Wednesday evening through Friday evening and beyond in the Sangre de Cristo mountains, Wet mountains, and Teller county and Rampart Range. This snow was the "cold part" of the major rain and flooding event which affected the adjacent plains and Arkansas River basin southeast to Bent county. Snow amounts were estimated to be 2 to 4 feet with some higher amounts likely in favored, but unknown, areas. The snow lasted into the 1st of May.

COLORADO, West

La Plata County

3 W Bayfield to 8 NNW Bayfield	29	2140MST			0	0	1M		Thunderstorm Wind (G87)
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A thunderstorm which moved up from the south produced strong outflow winds which destroyed or damaged many commercial buildings and houses, especially in the Gem Village area. Thousands of trees up to 2 feet in diameter and 60 feet tall were snapped off, generally 10 to 12 feet above the ground. An aluminum boat was found wrapped around a power pole.

COZ003>004-009>010-012-017>023 Roan And Tavaputs Plateaus - Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Sawatch Mountains/Taylor Park - Uncompahgre Plateau - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Paradox Valley/Lower Dolores River - Four Corners/Upper Dolores River/Cortez And Vicinity - Animas River Basin/Durango And Vicinity - San Juan River Basin/Pagosa Springs And Vicinity

01	0800MST			0	0				Winter Storm
02	1800MST								

A slow moving upper low from the Pacific produced 1 to 3 feet of snow in the mountains of western Colorado and 8 to 12 inches in the lower elevations of southwest Colorado. Some of the heaviest snowfall reports included 33 inches on the Grand Mesa, 35 inches near Pagosa Springs, 36 inches at Telluride Ski Area, and 41 inches at Purgatory Ski Area. Winds of 50 to 60 MPH in the higher mountains produced areas of blowing and drifting snow. A peak gust of 62 MPH was reported at Telluride Ski Area.

COZ018>019-022>023 Northwestern San Juan Mountains - Southwestern San Juan Mountains - Animas River Basin/Durango And Vicinity - San Juan River Basin/Pagosa Springs And Vicinity

04	0200MST			0	0				Heavy Snow
05	0600MST								

A moist southwest flow aloft produced 8 to 12 inches of snow in the western San Juan Mountains and 4 to 7 inches of snow in some lower elevation areas of southwest Colorado. The heaviest reported amount was 18 inches at Telluride Ski Area.

COZ004-009>010-012-018>019 Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch Mountains/Taylor Park - Northwestern San Juan Mountains - Southwestern San Juan Mountains

22	2200MST			0	0				Heavy Snow
24	1400MST								

A slow moving low pressure system from the Pacific produced 8 to 12 inches of snow in many mountain areas of western Colorado. The heaviest reported amounts include 16 inches on the Grand Mesa and 17 inches at Stoner in the southwest San Juan Mountains.

Archuleta County

1 SW Pagosa Spgs to 1 S Pagosa Spgs	25	1715MST 1724MST	0.3	.1	0	0	1K		Tornado (F0)
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A tornado touched down in a forested area near Pagosa Springs and ripped out large pine trees along a quarter mile path which was about 100 yards in width. Trees falling on power lines knocked out electricity for most residents in Archuleta County for about 1.5 hours. This was the first documented tornado in Archuleta County.

Archuleta County

1 W Pagosa Spgs	25	1440MST			0	0	0.50K		Lightning
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Lightning struck a substation west of Pagosa Springs and knocked out electricity to about 900 homes and businesses for about 5 hours.

La Plata County

Durango	02	1146MST			0	0			Lightning
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An utility pole was struck by lightning, which knocked out power to about 600 homes and businesses for about one hour.

Archuleta County

Pagosa Spgs	25	1710MST 1715MST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

April 1999

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

Archuleta County

Arboles	02	1130MST 1131MST			0	0	0.50K		Dry Microburst
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A microburst leveled pine trees along a swath of about one-quarter mile long and 200 feet wide in the Piedra Park subdivision of Arboles. A power line was knocked down by falling trees. The weather spotter reported the wind event sounding like a freight train.

La Plata County

Bayfield	02	1140MST 1141MST			0	0			Dry Microburst
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A microburst leveled a swath of cedar and pinyon pine trees near Bayfield.

COZ021

Four Corners/Upper Dolores River/Cortez And Vicinity

09	1000MST 1015MST				0	0	1K		High Wind (G50)
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Strong winds ahead of a cold front tore the roof off of a pumping station in Cortez.

COZ006

Grand Valley/Grand Junction And Vicinity

16	0300MST 0900MST				0	0	8.8M		Extreme Cold
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Record breaking cold temperatures destroyed a large percentage of the fruit crop in Mesa County. Minimum temperatures in the Grand Valley dropped down into the upper teens to mid 20s.

COZ005

Upper Yampa River Basin/Steamboat Springs And Vicinity

25	1000MST				0	0	30K		High Wind (G80)
26	0600MST				0	0			

Strong northeast winds resulting from a low pressure system downed utility poles and many pine trees in an area extending from the north edge of Steamboat Springs to about 10 miles northeast of Steamboat Springs. At least 6 houses were damaged and 2 sheds were destroyed. Automated wind systems well to the west of the damage area measured wind speeds to 59 MPH.

COZ022

Animas River Basin/Durango And Vicinity

29	1300MST 1600MST				0	0	10K		High Wind (G70)
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Strong winds ahead of a cold front toppled trees which knocked down power lines in the area. In Durango, a falling tree crushed a pickup truck and fell on the roof of a house.

COZ004-009-019

Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Battlement Mesas - Southwestern San Juan Mountains

29	0000MST 2100MST				0	0			Winter Storm
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An upper low over the southwest states produced 8 to 12 inches of snow over some mountain areas of western Colorado. Strong winds in the higher elevations produced areas of blowing and drifting snow. Sustained winds of 55 MPH and gusts to 74 MPH were reported at the top of Steamboat Springs Ski Area.

CONNECTICUT, Northeast

NONE REPORTED.

CONNECTICUT, Northwest

CTZ001

Litchfield

01	0000EST				0	0			Drought
30	2359EST								

Rainfall was well short of normal across Litchfield County during the month of April. Bakersfield reported 0.95 inches which was 3.09 inches below normal and Bulls Bridge had 1.23, 2.93 inches below normal. The combination of low rainfall, along with frequent gusty winds, turned the underbrush into tinder. This scenario led to some brush fires during the month across Northwest Connecticut.

CONNECTICUT, Southern

Fairfield County

North Stamford	16	1745EST			0	0			Lightning
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Lightning sparked a fire in the basement of the house at 116 Sawmill Road in North Stamford. There was fire damage in the house and smoke damage throughout the house.

DELAWARE

Kent County

2 NW Blackiston	09	1830EST			0	0	0		Hail (0.75)
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Dime size hail was reported in Holletts Corners.

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	
<u>DELAWARE</u>									
New Castle County									
St Georges	09	1840EST			0	0	0		Thunderstorm Wind
A severe thunderstorm tore down wires in the St. Georges area of New Castle County. About 1,500 homes and businesses lost power throughout the county as a result of the high winds and lightning. One thousand of the outages were in and around St Georges.									
Kent County									
Cheswold	09	1845EST			0	0	0		Lightning
Sussex County									
Georgetown	09	1900EST			0	0	0		Lightning
Two houses were struck by lightning in Delaware, one in Cheswold (Kent County) and the other in Georgetown (Sussex County). The lightning strike in Georgetown ignited a fire. No injuries were reported.									
<u>DISTRICT OF COLUMBIA</u>									
NONE REPORTED.									
<u>FLORIDA, East Central</u>									
Orange County									
5 S Orlando Intl Arpt	25	1450EST			0	0			Hail (0.75)
Martin County									
Stuart	27	1555EST			0	0			Hail (0.75)
St. Lucie County									
Port St Lucie	27	1610EST			0	0			Hail (0.75)
Indian River County									
Vero Beach	27	1645EST			0	0			Funnel Cloud
Indian River County Sheriff's Office reported a funnel cloud near Vero Beach.									
Indian River County									
7 W Vero Beach	27	1710EST			0	0			Hail (0.75)
Orange County									
1 SE Orlando Intl Arpt	28	1250EST			0	0			Hail (1.75)
Volusia County									
Daytona Beach	28	1305EST			0	0			Thunderstorm Wind (G50)
Thunderstorms winds blew down two trees in Daytona Beach.									
Orange County									
Windermere	28	1400EST			0	0			Hail (1.00)
Orange County									
Orlando	28	1420EST			0	0			Hail (1.00)
Lake County									
Altoona	28	1555EST			0	0			Thunderstorm Wind (G50)
The US Forest Service reported numerous trees down from severe thunderstorm winds in Altoona.									
Osceola County									
St Cloud	28	1802EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down trees and power lines and damaged two mobile homes near St. Cloud.									
St. Lucie County									
Port St Lucie	15	1200EST 1700EST			0	0	10M		Wild/Forest Fire
Extended dry conditions and strong winds helped fuel a wildfire near Port St. Lucie. Forty eight houses were destroyed as 2,400 acres were scorched.									
Lake County									
Umatilla	29	1645EST			0	0			Hail (1.75)
Lake County									
Umatilla	29	1645EST			0	0	50K		Thunderstorm Wind (G60)
Thunderstorm winds blew down trees and power lines, destroyed a barn and damaged the roof of a mobile home in Umatilla. One mobile home was damaged by a falling tree.									

Storm Data and Unusual Weather Phenomena

April 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, East Central</u>									
Okeechobee County									
10 N Okeechobee	29	1744EST			0	0			Hail (0.75)
Orange County									
Orlando	29	1745EST			0	0			Hail (0.75)
Brevard County									
5 W Cocoa	29	1910EST			0	0			Hail (0.75)
Brevard County									
Merritt Is	29	1915EST			0	0			Hail (0.75)
Brevard County									
Merritt Is	29	1925EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down trees in Merritt Island.									
Brevard County									
Cocoa Beach	29	1930EST			0	0			Hail (1.25)
<u>FLORIDA, Extreme Southern</u>									
Monroe County									
Marathon	28	0938EST			0	0			Waterspout
Monroe County									
Marathon	28	0938EST 0943EST			0	0			Waterspout
Monroe County									
Big Pine Key	28	1005EST 1013EST			0	0			Funnel Cloud
Monroe County									
Big Pine Key	28	1013EST 1020EST			0	0			Waterspout
Monroe County									
Summerland Key	28	1117EST 1125EST			0	0			Waterspout
Monroe County									
(Nqx)Key West Nas	29	0940EST 0944EST			0	0			Waterspout
Monroe County									
(Eyw)Key West Inl Ar	29	1529EST 1546EST			0	0			Waterspout
Monroe County									
Marathon	29	1530EST 1540EST			0	0			Waterspout
<u>FLORIDA, Northeastern</u>									
Duval County									
Mandarin	01	1530EST			0	0			Hail (0.75)
Duval County									
8 N Jacksonville	01	1525EST			0	0			Hail (0.88)
At 9A and US-17.									
Duval County									
Mandarin	01	1520EST 1525EST			0	0	3K		Thunderstorm Wind
Large trees and power lines were blown down.									
Nassau County									
Yulee	01	1520EST			0	0	2.5K		Thunderstorm Wind
Large trees and power lines were blown down.									
Putnam County									
Bostwick	01	1720EST			0	0			Hail (0.88)
Putnam County									
8 N Palatka	01	1800EST			0	0	1.5K		Thunderstorm Wind
Large trees and power lines were blown down.									

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	
FLORIDA, Northeastern									
Alachua County									
High Spgs	28	1320EST			0	0	1.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Alachua County									
Micanopy	28	1405EST			0	0			Hail (2.00)
Clay County									
Lake Geneva	28	1330EST			0	0	1.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Union County									
Worthington Spgs	28	1345EST			0	0	2K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Marion County									
Citra	28	1600EST			0	0	0.50K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Gilchrist County									
Trenton	28	1230EST			0	0	1.5K		Thunderstorm Wind
		Large trees and power lines were blown down.							
St. Johns County									
Vilano	27	1700EST			0	0	3K		Thunderstorm Wind
		Large trees and power lines were blown down.							
St. Johns County									
St Augustine	27	1800EST			0	0	50K		Thunderstorm Wind
		Four boats were overturned. One was 35 feet.							
Alachua County									
Gainesville	28	1400EST 1500EST			0	0			Funnel Cloud
Marion County									
Summerfield	29	1713EST			0	0			Hail (0.75)
Flagler County									
Bunnell	28	1435EST			0	0	0.50K		Thunderstorm Wind
		Large trees and power lines were blown down.							
Flagler County									
Countywide	01	1000EST			0	0			Wild/Forest Fire
		One new fire burned 0.1 acre.							
Hamilton County									
Countywide	02	1000EST			0	0			Wild/Forest Fire
		One new fire was reported in Bee Haven Bay, around 1.0 acre (lightning caused).							
Alachua County									
Gainesville	01	0800EST			0	0			Wild/Forest Fire
		Reported that a 3 to 5 acre brush fire occurred.							
Marion County									
Countywide	01	0800EST			0	0			Wild/Forest Fire
		Reported 8 fires have burned 10.75 acres.							
Marion County									
Countywide	05 11	0800EST 0800EST			0	0			Wild/Forest Fire
		Reported 22 fires burning 26.62 acres... bringing the total to day for this county to 384 fires burning 103.34 acres.							
Flagler County									
Countywide	09	1800EST			0	0			Wild/Forest Fire
		Reported a fire west of Palm Coast located along Hargrove Grade burning about 300 to 500 acres.							
Hamilton County									
Countywide	12	1800EST			0	0			Wild/Forest Fire
		A 35+-acre brush NE of Jasper was out of control and threatening a mobile home park. The park was evacuated.							
Alachua County									
Countywide	12	1800EST			0	0			Wild/Forest Fire
		A trash fire escalated to a 25+ acres brush fire that has destroyed one (1) barn and threatened one (1) mobile home.							

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	
FLORIDA, Northeastern									
Nassau County									
Countywide	13	1600EST			0	0			Wild/Forest Fire
	Reports that a 1.5 acre brush fire occurred.								
Putnam County									
Countywide	13	1600EST			0	0			Wild/Forest Fire
	Reports that a 2 acre brush fire occurred.								
Columbia County									
Countywide	14	1600EST			0	0			Wild/Forest Fire
	Reports that 5 brush fires occurred totaling just under 8 acres.								
Alachua County									
Countywide	16	0700EST			0	0			Wild/Forest Fire
	Declared a Local State of Emergency and a ban on fireworks and open burning. Reported a two (2) acre grass fire that is out of control and has engulfed one mobile home that was vacant.								
Putnam County									
Countywide	16	0700EST			0	4			Wild/Forest Fire
	Reports fighting two fires, both have blown up and one has jumped Hwy 19S approximately 4 mile south of Palatka estimated at over 1000 acres. 200 structures were reported evacuated, they have exhausted all county resources. They are requesting air assets immediately. A shelter has been opened at the Price Martin Community Center.								
Alachua County									
Countywide	20	0900EST			0	0			Wild/Forest Fire
	Reports a 2 acre fire.								
Putnam County									
Countywide	20	0900EST			0	0			Wild/Forest Fire
	Reports a ¼ acre fire.								
Baker County									
Countywide	21	1200EST			0	0			Wild/Forest Fire
	Suwanee DoF Fire District reports a forest fire in the Osceola National Forest named the Cypress Creek Fire and can be plotted at 30.19 degrees latitude and 82.22 degrees longitude. The fire is located SW of the intersection of CR 250 and CR 229. 18-20 dozers are working the fire and 5-6 tanker drops have taken place so far. Helicopter drops were also used. The fire has consumed 570 acres so far and is expected to consume 2000 acres. No structures were threatened.								
Marion County									
Countywide	21	1200EST			0	0			Wild/Forest Fire
	Reported a fire in a burn barrel started a ¼ acre fire that destroyed a pick-up truck.								
Alachua County									
Countywide	22	1100EST			0	0			Wild/Forest Fire
	A 2-3 acre fire spread fast in heavy fuel.								
Alachua County									
Countywide	25	1100EST			0	0			Wild/Forest Fire
	Local fire department and DoF responded to a 12-acre brush fire.								
Columbia County									
Countywide	25	1100EST			0	0			Wild/Forest Fire
	Reported that they had contained a 2-acre fire that was started when limbs were set on fire.								
Marion County									
Countywide	25	1100EST			0	0			Wild/Forest Fire
	Reported that Division of Forestry responded to a 40-acre brush fire.								
Putnam County									
Countywide	25	1100EST			0	0			Wild/Forest Fire
	Reported information on four brush fires. Interlachen Lake: Gas Pipe Line Rd. less than an acre. Division of Forestry responded. Johnson Community: Campher Rd. 1/2 of an acre. Interlachen Estates: 614 Dawn Ave. Three acres. One home was threatened but not damaged. Johnson Community: 177 Neal Rd. 1/2 of an acre. DOF responded.								
Marion County									
Countywide	19	1100EST			0	0			Wild/Forest Fire
	25	1100EST							
	Reported that they had 15 fires for 45.21 acres. To date: 415 fires for 167.26 acres. Structures destroyed: one pole barn, vehicles destroyed: one truck.								

Storm Data and Unusual Weather Phenomena

April 1999

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

FLORIDA, Northeastern

Marion County

Countywide **28** **1100EST** **0** **0** **Wild/Forest Fire**
 Reported a one acre brush fire that required the temporary evacuation of 15 homes.

Flagler County

Countywide **28** **0900EST** **0** **0** **Wild/Forest Fire**
 Reports that 9 fires occurred.

Union County

6 W Lake Butler **29** **0900EST** **0** **0** **Wild/Forest Fire**
 Reports that two fires caused by lightning strikes.

FLORIDA, Northwest

Bay County

Panama City **28** **1030EST** **0** **0** **30K** **Urban/Sml Stream Fld**
1300EST

Thunderstorms produced rainfall amounts from two to five inches across much of Bay County including Panama City. A half foot of water swept through the K&K Auto Glass Company in Panama City. The Panama City Police Department reported nine roads closed.

Bay County

Bayou George **28** **1100EST** **0** **0** **15K** **Lightning**
 Lightning set a 24-by-24 foot storage shed and its contents ablaze.

Bay County

Youngstown **29** **1320EST** **0** **0** **Hail (1.75)**
 Golfball size hail reported by county EMA.

Walton County

Southwest Portion **17** **1200EST** **0** **0** **300K** **Wild/Forest Fire**
18 **0000EST**

200-acre wildfire destroyed one home and damaged two others as well as a boat and a number of docks in the Driftwood Estates area.

Wakulla County

10 W Crawfordville **18** **1100EST** **0** **0** **Wild/Forest Fire**
27 **0800EST**

The Cow House Swamp and Owl Creek wildfires in the Apalachicola National Forest consumed 9,389 acres. No evacuations, injuries or threatened structures. Wakulla County officials closed several roads.

Bay County

Youngstown **18** **1500EST** **0** **0** **Wild/Forest Fire**
19 **0800EST**

85-acre wildfire south of Highway 20 west of Highway 231 off Blue Springs Rd. No evacuations, injuries or threatened structures.

Bay County

Westbay **19** **1400EST** **0** **0** **Wild/Forest Fire**
21 **1200EST**

100-acre wildfire off Joyner Rd. No evacuations, injuries or threatened structures.

Gulf County

7 N Port St Joe **26** **1300EST** **0** **0** **Wild/Forest Fire**
28 **2100EST**

400-acre wildfire on St. Joe Paper Company property west of SR 71 and south of SR 386. No evacuations, injuries or threatened structures.

FLORIDA, Southern

Broward County

Ft Lauderdale **01** **1300EST** **1** **0** **0** **0** **Rip Currents**

A 78-year old tourist went for a swim behind his condominium on Fort Lauderdale beach and drowned in a rip current. Winds had been from the east at 20 mph with gusts to 30 mph on the two days prior to the drowning and were from the southeast at 15 to 20 mph at the time of the drowning. M78IW

Palm Beach County

10 W Boca Raton **02** **1630EST** **0** **0** **Funnel Cloud**

Several funnel clouds were sighted over the southern portion of the Loxahatchee National Wildlife Refuge.

Dade County

6 W Sweet Water **03** **0800EST** **0** **0** **Wild/Forest Fire**
1800EST

A wildfire near Krome Avenue and Tamiami Trail threatened a restaurant and shooting range.

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	
FLORIDA, Southern									
Dade County									
Redland	09	1500EST			0	0			Wild/Forest Fire
	10	1500EST							
A 600 acre wildfire in the Redlands caused Krome Avenue to be temporarily closed.									
Glades County									
10 W Ortona	15	1500EST 2300EST			0	0	10K		Wild/Forest Fire
A 50-acre wildfire destroyed a barn.									
Collier County									
2 E Golden Gate	15	1400EST			0	0	2K		Wild/Forest Fire
	16	1400EST							
A suspicious wildfire consumed 2000 acres of brush, caused the evacuation of 50 Golden Gate residences and destroyed a shed.									
Collier County									
Naples	17	1140EST			0	3	25K		Thunderstorm Wind (G60)
A severe thunderstorm produced 60 mph wind gusts as it moved east northeastward through Naples. Three construction workers in north Naples were injured when the roof they were working on collapsed. Minor roof damage occurred to a Best Western Motel just east of Kensington, and a screened enclosure in Golden Gate was damaged.									
Palm Beach County									
North Palm Beach	17	1230EST			0	0	20K		Thunderstorm Wind (G60)
Three homes suffered minor damage and hail of unknown size fell in North Palm Beach.									
Palm Beach County									
1 E Lake Worth	17	1315EST			0	0			Waterspout
Several waterspouts were seen in the Atlantic just offshore Lake Worth.									
Broward County									
20 W Tamarac to 50 W Tamarac	17	0800EST			0	0			Wild/Forest Fire
	24	2200EST							
An arson-set wildfire burned about 200,000 acres of everglades swampland in an area bounded by U.S. 27 on the east, the Collier County line on the west, the Palm Beach County line on the north and Interstate 75 on the south. I-75 was closed for more than two days.									
Near the beginning of the fire, in the late afternoon of April 17, heavy smoke blew into the Broward and Miami-Dade metro areas as a gust front with winds of 40 mph swept in from the west. Visibility was reduced to 1/4 mile for about an hour or two across the Miami metro area and Miami International Airport was closed. Firefighters from as far away as Arizona participated in suppressing the week-long fire which drew enormous media attention. On April 18, the fire briefly threatened high tension wires, but power was not interrupted. After April 18, east winds blew the smoke away from southeast Florida metro areas, but at times, smoke drifted over Naples and the lower Keys.									
Broward County									
2 S Pembroke Pines	23	1540EST 2000EST			0	1			Wild/Forest Fire
A firefighter was injured fighting a one acre blaze.									
Broward County									
15 SE Ft Lauderdale	23	1536EST			0	0			Waterspout
A pilot reported a waterspout in the Atlantic about 15 miles southeast of Fort Lauderdale International Airport.									
Palm Beach County									
12 W West Palm Beach	25	1645EST			0	0	50K		Thunderstorm Wind (G65)
Severe thunderstorm wind gusts damaged pool enclosures and fences and downed large tree limbs in Wellington.									
Palm Beach County									
70 E Lake Worth	26	1130EST			0	0			Waterspout
A pilot sighted a waterspout in the Atlantic about 20 miles west of West End Grand Bahama Island.									
Hendry County									
11 SW Clewiston	26	1650EST			0	0			Hail (1.75)
Golf ball-size hail was reported by Emergency Management officials.									
Glades County									
Moore Haven	26	1700EST			0	0			Wild/Forest Fire
	27	1700EST							
Lightning initiated eight separate wildfires which burned 1000 acres and temporarily closed Highway 29.									

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	
<u>FLORIDA, Southern</u>									
Broward County									
Davie	27	1330EST			0	0			Hail (0.75)
		Dime-size hail was reported in Davie.							
Dade County									
25 W Sweet Water	27	1444EST			0	0			Hail (0.75)
		Miccosukee Police Department reported 3/4 inch diameter hail.							
Broward County									
35 W Ft Lauderdale	28	1127EST			0	0			Thunderstorm Wind (G80)
		A Park Ranger reported wind gusts of 75-80 mph and hail of unknown size.							
Broward County									
Miramar	28	1440EST			0	0			Hail (1.75)
Broward County									
Miramar	28	1440EST			0	0			Thunderstorm Wind (G60)
		Thunderstorm winds toppled trees and dropped golf ball-size hail in the west portions of Miramar.							
Collier County									
45 E Naples	28	1130EST			0	0			Thunderstorm Wind (G60)
		Spotter estimated wind gusts near 60 mph.							
Broward County									
Ft Lauderdale	28	1548EST			0	0			Thunderstorm Wind (G60)
		A tree was blown down.							
Dade County									
Kendall	28	1600EST			0	0	1K		Thunderstorm Wind (G75)
		Several trees were blown down and the window of a house was blown in.							
Broward County									
Lauderhill	29	2130EST			0	0	10K		Thunderstorm Wind (G65)
		Thunderstorm wind gusts blew power lines down and blew a tree onto a house roof.							
<u>FLORIDA, West Central</u>									
Citrus County									
3 W Inverness	25	1337EST 1340EST			0	0	0	0	Hail (1.75)
		Golfball to quarter sized hail was reported by the public three miles west of Inverness.							
Citrus County									
4 SW Floral City	25	1320EST			0	0	0	0	Hail (0.75)
		Dime sized hail was reported by the public along County Road 581 near the Heathwood Estates subdivision.							
Highlands County									
3 NW Lake Placid	26	1755EST			0	0	5K	0	Thunderstorm Wind
		Thunderstorm winds downed several large trees and toppled a few sheds one quarter mile west of U.S. Highway 27 near the north shore of Lake June.							
Highlands County									
Ft Basinger	27	1645EST			0	0	0	0	Hail (0.75)
De Soto County									
5 SW Arcadia	28	1445EST			0	0	0	0	Hail (0.75)
		Dime sized hail was reported along U.S. Highway 17 by a Skywarn spotter.							
Polk County									
Auburndale	28	1455EST			0	0	0	0	Hail (1.00)
		Quarter sized hail was reported by the public in Auburndale through WTSP-TV.							
Polk County									
4 NE Bartow	28	1407EST			0	0	0	0	Hail (1.75)
		Golfball sized hail was reported by tower personnel at the Bartow Municipal Airport.							
Polk County									
4 S Lakeland	28	1545EST			0	0	0	0	Hail (1.75)
		Golfball sized hail was reported by a Skywarn spotter near the intersection of State Road 37 and County Road 540A.							
Polk County									
5 S Lakeland	28	1545EST			0	0	50K	0	Thunderstorm Wind
		Skywarn spotters reported that the roofs of a few homes and commercial buildings incurred damage, while several commercial signs, trees and large branches were downed by thunderstorm winds near the intersection of State Road 37 and Lake Mirium Drive.							

Storm Data and Unusual Weather Phenomena

April 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									
Sumter County									
Webster	28	1843EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds downed several large trees and power lines which blocked roads in Webster.									
Pinellas County									
St Petersburg	28	1800EST			0	0	0	0	Hail (0.80)
Penny sized hail was reported by a Skywarn spotter at 61st Street N. in St. Petersburg.									
Pinellas County									
6 W St Petersburg	28	1750EST			0	0	0	0	Hail (0.88)
Nickel sized hail was reported by the public through Bay News Nine Cable TV at the intersection of State Road 693 (66th Street) and Central Avenue.									
Levy County									
Bronson	29	1547EST 1600EST			0	0	0	0	Hail (0.75)
Levy County									
Bronson	29	1600EST 1610EST			0	0	75K	0	Thunderstorm Wind (G52)
Skywarn spotters estimated thunderstorm wind gusts of up to 60 mph and the Levy County Sheriffs Department reported that several large trees and power lines were downed across Bronson. Also, one mobile home was severely damaged by a large tree toppled by thunderstorm wind in Bronson.									
Levy County									
Williston	29	1610EST			0	0	0	0	Hail (0.75)
Skywarn spotters reported that dime sized hail covered the ground in Williston.									
Manatee County									
1 S Bradenton Beach to Bradenton Beach	30	0715EST			0	0	0	0	Waterspout
Twin waterspouts were reported 200 yards west of Coquina Beach on the southern end of Anna Maria Island by the Manatee County Beach Patrol.									
Charlotte County									
Port Charlotte	20	1020EST			0	0	1K	0	Dust Devil
Dust devils caused minor roof shingle damage to a few homes along Peachland Boulevard and Gingold Road in Port Charlotte.									
Charlotte County									
Punta Gorda	20	1020EST			0	0	1K	0	Dust Devil
A dust devil caused minor roof shingle damage to a home on Taylor Road near U.S. Highway 41 in Punta Gorda.									
Polk County									
3 E Lakeland	28	1548EST			0	0	0	0	Hail (1.75)
The public reported golfball sized hail through at Hardin Boulevard near U.S. Highway 92 in Lakeland through Bay News Nine Cable Television.									
Highlands County									
1.5 NNE Lake Placid	26	1755EST			0	0	0	0	Hail (1.00)
Quarter sized hail fell in the Lake Blue Estates along U.S. Highway 27 in Lake Placid.									
Charlotte County									
11 SE Punta Gorda	02	1600EST 1830EST			0	0	0	0	Wild/Forest Fire
A wildfire, ignited by a passing train, burned 68 acres of brush along Oil Well Road between Interstate 75 and U.S. Highway 41 in southern Charlotte county. The wildfire forced closure of Interstate 75 for over two hours near the Oil Well Road overpass.									
Charlotte County									
1 E Punta Gorda	05	1430EST 1930EST			0	0	0	0	Wild/Forest Fire
A wildfire consumed nearly 100 acres of woods and brush along and near Carmalita Street and Education Avenue in Punta Gorda.									
Charlotte County									
6 W Port Charlotte	13	1000EST 1800EST			0	0	25K	0	Wild/Forest Fire
A wildfire ignited and destroyed a \$6,000 dollar speed boat, a \$2,500 shed and an additional 17 junk and antique cars along the 300 block of Cory Street, six miles west of Port Charlotte. Over 500 acres of scrub trees and brush were also consumed by the blaze.									

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	
<u>FLORIDA, West Central</u>									
Polk County									
6 SW Lakeland	15	1130EST 1730EST			0	0	0	0	Wild/Forest Fire
A wildfire ignited and consumed 248 acres of scrub trees and brush near the Lakeland Regional Airport. The wildfire, spread by winds as high as 35 mph and drought conditions, was a mile wide with flames several stories high, near Ewell and County Line roads. The wildfire caused a temporary evacuation of 9,000 participants at the annual Sun n' Fun FAA Fly-In as flames spread toward the southwest portion of the Lakeland Regional Airport.									
Lee County									
Lehigh Acres	15	1400EST 1615EST			0	0	0	0	Wild/Forest Fire
A wildfire ignited and burned between 110 and 120 acres of scrub trees and brush along Gunnery Road between State Road 82 (Immokalee Road) and Leonard Boulevard in Lehigh Acres.									
Polk County									
3 W Bartow	15	1400EST 1700EST			0	0	0	0	Wild/Forest Fire
A wildfire scorched nearly 200 acres of scrub trees and brush at the Cargill Fertilizer Corporation near State Road 60 west of Bartow.									
Polk County									
Winter Haven	15	1600EST 1800EST			0	0	0	0	Wild/Forest Fire
A wildfire burned 50 acres of scrub trees and brush near the intersection of Thornhill Road and Donald Lane in Winter Haven.									
<u>FLORIDA, West Panhandle</u>									
Okaloosa County									
Blackman	29	1140CST 1142CST			0	0	3K		Thunderstorm Wind (G50)
Trees were blown down just northeast of Blackman.									
Okaloosa County									
Dorcas	29	1200CST 1202CST			0	0	5K		Thunderstorm Wind (G50)
Trees and power lines were blown down near Dorcas. High winds also blew a truck off the road. No injuries were reported.									
Santa Rosa County									
Milton	29	1200CST 1215CST			0	0			Hail (0.75)
Dime size hail was reported in east Milton. A resident reported that it hailed for about fifteen minutes and covered the ground.									
<u>GEORGIA, East Central</u>									
Richmond County									
Augusta	15	1622EST			0	0		0	Thunderstorm Wind (G50)
Highway Dept. reported several trees down in old Augusta.									
<u>GEORGIA, Lower</u>									
Glynn County									
Brunswick	01	1430EST			0	0	50K		Thunderstorm Wind
Port crane was blown into another. Boom was bent.									
Glynn County									
2 E St Simons Is to 2.1 E St Simons Is	24	1800EST			0	0			Waterspout
<u>GEORGIA, North and Central</u>									
Houston County									
Warner Robins	07	1607EST 1622EST			0	0			Hail (2.00)
Isolated to widely scattered afternoon thunderstorms developed over north and central Georgia. Numerous reports of hail ranging from dime to ping pong ball size were received as a storm moved across northern Houston county. Two of the reports were from off-duty NWS personnel, while others came from the public.									
Walton County									
2 SE Monroe	15	0510EST			0	0			Hail (1.00)
A spotter reported quarter size hail.									
Sumter County									
Americus to Andersonville	15	0853EST 0900EST			0	0			Hail (1.75)
Several reports from the public and the sheriff indicated hail from quarter size to golfball size fell in central and northeast Sumter									

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
GEORGIA, North and Central									
county.									
Dooly County									
1.5 SW Drayton to 4.5 ENE Vienna	15	0920EST 0930EST	14.5	700	0	28	10M		Tornado (F3)
An NWS Storm survey showed the tornado touched down along highway 27 at the Flint River near Drayton. The tornado hopped eastward along highway 27, demolishing pecan orchards and barns, before devastating the town of Vienna. It exited the town between 2 schools, with only minor damage to either. It later crossed I-75 between Georgia highways 27 and 215, blocking the Interstate with debris. The storm lifted a short distance east of there between Noble Gin Road and Smyrna Church Road. The EMA director said 25 percent of homes and businesses were destroyed or severely damaged. Of the 28 injuries the most serious was a broken leg. Newspaper accounts reported 69 houses, 15 mobile homes, and 9 businesses were destroyed. Another 256 homes, 12 churches, 10 mobile homes, and 6 businesses suffered damage. Three apartment complexes were ruined and 70 power poles were ripped from the ground. Around 400 people were left homeless in a town with a population of over 2700.									
Treutlen County									
Lothair to Soperton	15	1115EST 1125EST			0	0			Hail (1.75)
The Treutlen county EMA reported 4 trees knocked down in Lothair and 7 in Soperton. He also reported mothball to golf ball size hail.									
Treutlen County									
Lothair to Soperton	15	1115EST 1125EST			0	0	1K		Thunderstorm Wind
Emanuel County									
4 SW Stillmore to Stillmore	15	1145EST 1150EST	4	100	0	0	5K		Tornado (F0)
The Emanuel county 911 center reported a few trees down and hail of unknown size in Stillmore. They received numerous reports from the public and county sheriff deputies of a funnel cloud in the Oak Park area. There were public reports of a tornado between Oak Park and Stillmore, with possible damage to a trailer. Radar signatures indicated rotation strong enough to produce a brief tornado touchdown. The F0 intensity as well as the path length and width were estimated. The same storm cell may have later produced a tornado in Candler county.									
Dodge County									
5 W Eastman	15	1215EST			0	0	10K		Thunderstorm Wind
The public reported a barn blown down by thunderstorm winds.									
Treutlen County									
Soperton	15	1315EST			0	0			Hail (1.75)
The public reported quarter to golf ball size hail.									
Treutlen County									
Soperton	15	1315EST			0	0	1K		Thunderstorm Wind
Treutlen county 911 reported trees blown down.									
Walker County									
.2 N La Fayette	20	0149EST			0	0			Hail (1.00)
The public reported quarter size hail covering the yard.									
Gordon County									
1 E Sonoraville to Fairmount	20	0225EST 0235EST			0	0			Hail (0.75)
The public reported dime size hail east of Sonoraville. The countyEMA Director reported dime size hail two to three inches deep in Fairmount.									
Pickens County									
Tate	20	0305EST			0	0			Hail (1.00)
The public reported quarter size hail.									
Dooly County									
Unadilla	24	1520EST 1535EST			0	0			Hail (0.75)
A Unadilla police officer reported dime size hail.									
Pike County									
Williamson	24	1636EST 1639EST			0	0			Hail (1.00)
Two public reports indicated quarter size hail fell in Williamson.									
Emanuel County									
5 SE Swainsboro to 10 SE Swainsboro	24	1701EST 1707EST			0	0			Hail (0.88)
Emanuel county 911 reported nickel size hail.									

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	
GEORGIA, North and Central									
Washington County									
Oconee	24	1707EST			0	0			Hail (0.75)
			Washington county 911 reported dime size hail.						
Pike County									
Zebulon	24	1720EST			0	0			Hail (0.75)
			Two public reports indicated dime size hail fell in Zebulon.						
Washington County									
7 SE Oconee	24	1730EST			0	0			Hail (0.75)
			Dime size hail was indicated in the southeast part of Washington county as the storm re-intensified.						
Johnson County									
5 W Wrightsville to 6 E Wrightsville	24	1745EST 1750EST			0	0			Hail (1.75)
			Several reports from the public and Johnson county 911 indicated the storm that moved from Washington county across Johnson county produced large hail from dime size to golf ball size.						
Johnson County									
3 W Wrightsville to Wrightsville	24	1800EST 1805EST			0	0	5K		Hail (2.00)
			Two public reports indicated dime to quarter size hail fell in Wrightville and 2 inch diameter hail broke windows in a house and caused damage to a truck just west of Wrightsville. This storm was close behind the first one that moved across the county.						
Jefferson County									
5 S Louisville	24	1920EST			0	0			Hail (1.75)
			The public reported hail a little larger than golf ball size, strong winds, and power out in Louisville.						
Johnson County									
Kite	24	1955EST			0	0			Hail (1.00)
			The public reported quarter size hail.						
Emanuel County									
Stillmore	24	2010EST			0	0	5K		Hail (1.00)
			Emanuel county 911 reported dime to quarter size hail. Some cars were damaged.						
Harris County									
4 S Waverly Hall	27	1325EST			0	0	0.50K		Thunderstorm Wind
			Harris county 911 reported thunderstorm winds knocked a couple of trees down on highway 315.						
Talbot County									
10 E Talbotton	27	1400EST			0	0	0.50K		Thunderstorm Wind
			Talbot county 911 reported a tree and power lines down due to thunderstorm winds.						
Dooly County									
Drayton to Unadilla	27	1430EST 1445EST			0	0	2.5K		Thunderstorm Wind
			What had originally been reported by Emergency Management personnel as tornadoes turned out to be minor wind damage from thunderstorms. Survey by an NWS personnel and conversation with local personnel indicated lots of swirling dust from freshly plowed fields caused the tornado scare. There were 3 small trees down near Drayton. In Unadilla, a glass store front was broken and awnings bent as the thunderstorm gust front moved through.						
Peach County									
2 NE Ft Vly	27	1450EST			0	0			Hail (1.75)
			The public reported golf ball size hail near Georgia highway 49 and Vinson Road.						
Hall County									
Murrayville	27	1515EST			0	0			Hail (0.75)
			Hall county 911 received a report of dime size hail.						
Jackson County									
Maysville	27	1525EST			0	0			Hail (1.00)
			The public reported 1 inch hail.						
Twiggs County									
3 W Danville	27	1540EST			0	0	0.50K		Thunderstorm Wind
			GEMA relayed a motorist's report of trees down in a wooded area near I-16 and Georgia highway 358.						
Spalding County									
2 S Pomona to Griffin	28	1420EST 1430EST			0	0			Hail (1.00)
			Several public reports indicated hail ranging from nickel to quarter size fell. Strong winds also knocked down a few tree limbs.						

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	
<u>GEORGIA, North and Central</u>									
Upson County									
Thomaston to 11 S Thomaston	28	1525EST 1540EST			0	0			Hail (1.00)
									The public reported hail from pea size up to quarter size.
Monroe County									
5 N Forsyth	28	1615EST			0	0			Hail (1.00)
									The public reported quarter size hail on I-75.
Crawford County									
3 S Roberta	28	1630EST			0	0			Hail (0.75)
									The public reported dime size hail.
Taylor County									
Butler	28	1630EST			0	0			Hail (0.75)
									The public reported dime size hail.
Crawford County									
10 S Roberta	28	1705EST			0	0			Hail (0.75)
									The public reported dime size hail on highway 341.
Houston County									
Centerville to Kathleen	28	1800EST			0	0			Hail (1.75)
									The public reported from dime to golf ball size hail lasting up to 10 minutes..
<u>GEORGIA, Northeast</u>									
Franklin County									
Lavonia	08	1530EST			0	0			Hail (0.75)
Franklin County									
Lavonia	08	1530EST			0	0			Thunderstorm Wind (G52)
Hart County									
2 W Reed Creek	08	1537EST			0	0			Hail (1.00)
Hart County									
5 SE Hartwell	08	1545EST			0	0			Hail (1.75)
									Thunderstorms developed along a moisture gradient across north Georgia and moved east during the afternoon. A couple storms became severe in extreme northeast Georgia and produced a 60 mph wind gust in Lavonia, along with dime size hail. Quarter to golf ball size hail was reported in portions of Hart county.
<u>GEORGIA, Southeast</u>									
Mcintosh County									
Townsend	07	1540EST 1545EST			0	0			Hail (1.75)
Mcintosh County									
Townsend	07	1545EST			0	0			Thunderstorm Wind (G50)
									Large tree limbs down.
Candler County									
7 W Metter to 1.5 N Metter	15	1204EST 1215EST	9	100	0	2	250K		Tornado (F1)
									Tornado ripped the end off one mobile home, caused moderate damage to a house and practically destroyed seven other mobile homes. Another mobile home was flipped several times and ended up on the bottom of a nearby pond. Two persons were in this mobile home. The female landed at the edge of the water while the male was thrown into the pond and had to swim ashore.
Bulloch County									
5 SW Portal to Portal	15	1210EST 1220EST			0	0			Funnel Cloud
									Two funnel clouds sighted by the public.
Bulloch County									
Portal	15	1215EST 1220EST			0	0			Hail (0.88)
Bulloch County									
10 W Statesboro to 9 W Statesboro	15	1405EST 1410EST	1	40	0	0	5K		Tornado (F0)
									Roof partially torn off boat house, boat thrown some distance, several trees uprooted or snapped off.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
<u>GEORGIA, Southeast</u>									
Candler County									
2 E Metter to 3.5 E Metter	15	1405EST 1412EST	1.5	75	0	0	5K		Tornado (F0)
									Minor damage to the roof of one house, storage sheds, and a couple of trees down.
Bulloch County									
Statesboro	15	1425EST 1430EST			0	0			Hail (1.75)
Screven County									
Newington	15	1439EST 1449EST			0	0			Hail (1.00)
									Dime to quarter sized hail covered the ground for a couple of hours.
Effingham County									
Springfield	15	1455EST			0	0			Thunderstorm Wind (G50)
									Power lines down.
Effingham County									
Clyo	15	1510EST			0	0			Thunderstorm Wind (G50)
									Power lines down.
Bulloch County									
4 SE Statesboro	24	1840EST			0	0			Hail (1.75)
<u>GEORGIA, Southwest</u>									
									NONE REPORTED.
<u>GEORGIA, West Central</u>									
GAZ089									
Muscogee	02	1600EST			0	0	0	0	Excessive Heat
									The record high temperature of 86 degrees was tied at Municipal Airport.
GAZ089									
Muscogee	03	1600EST			0	0	0	0	Excessive Heat
									The record high temperature of 88 degrees was tied at Municipal Airport.
GAZ089									
Muscogee	11	1600EST			0	0	0	0	Excessive Heat
									The record high temperature of 87 degrees was tied at Municipal Airport.
GAZ089									
Muscogee	01	0000EST			0	0	0	0	Excessive Heat
	30	2359EST							
									The average monthly temperature was 69.1 degrees. This reading was the second warmest ever recorded for April.
Stewart County									
Louvale	15	0655EST			0	0	0	0	Hail (1.00)
Stewart County									
Louvale	15	0655EST			0	0	5K	0	Thunderstorm Wind (G50)
									Quarter size hail fell and several trees were blown down just north of Louvale on US 27.
Stewart County									
Omaha	15	0640EST 0645EST			0	0	2K	0	Hail (1.75)
Stewart County									
Omaha	15	0640EST 0645EST			0	0	1K	0	Thunderstorm Wind (G50)
									Several trees were knocked down near Omaha. Half dollar to golfball size hail pelted Omaha breaking several windows in vehicles and homes.
Stewart County									
Renfroe	15	0720EST			0	0	0	0	Hail (0.75)
									Dime size or larger hail fell in the city of Renfroe.
Muscogee County									
Columbus	15	0640EST			0	0	5K	0	Thunderstorm Wind (G50)
									A few windows were broken and a couple of awnings were ripped down due to strong wind in downtown Columbus.
Quitman County									
Countywide	15	0745EST 0750EST			0	0	0	0	Thunderstorm Wind (G50)
									Several trees were knocked down across the northern part of the county.

Storm Data and Unusual Weather Phenomena

April 1999

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

Muscogee County

Columbus 27 1220EST 0 0 5K 0 **Thunderstorm Wind (G50)**
 Numerous trees and power lines knocked down and two traffic lights blown over in the city of Columbus.

Chattahoochee County

Ft Benning 27 1220EST 0 0 0 0 **Thunderstorm Wind (G50)**
 Several trees were blown down in Fort Benning.

HAWAII

HIZ001>006

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

04 1700HST 0 0 **High Surf**
05 2030HST

A storm low 800 miles northwest of the Hawaiian Island chain produced surf of 20 to 25 feet along north shores of the Hawaiian islands, and 8 to 10 feet along west shores.

On Oahu, Haleiwa Beach was closed because of dangerous conditions. More than 10 beachgoers were rescued by lifeguards, from Makaha to Haleiwa. A person was rescued after losing a jet water craft off Puaena Point in Haleiwa. People were having problems due to their unfamiliarity with the surf, especially as the waves increased in size.

HIZ001>006

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

05 1100HST 0 0 **High Surf**
06 0830HST

A storm in the Southern Hemisphere produced surf of 6 to 8 feet along south facing shores of the islands.

Honolulu County

Makakilo City 21 1240HST 0 0 **Funnel Cloud**
 A funnel cloud was observed near the city of Kapolei over Makakilo.

Hawaii County

Hilo 13 1700HST 0 0 **Urban/Sml Stream Fld**
14 0100HST

Heavy rain flooded several streets, including East Kawaiiani Street. Several homes in the Hilo area suffered flooding with minor damage. A fallen tree downed telephone lines and forced the temporary closure of Laimana Street, while heavy rains also closed roads in the Waiakea Uka and Kaumana areas for several hours.

Hawaii County

Kailua Kona to Miloli 11 1545HST 0 0 **Urban/Sml Stream Fld**
1900HST

Upslope heavy showers over North and South Kona districts caused widespread flooding of streets and low-lying areas along the coast.

Kauai County

Waimea 01 0000HST 0 0 **Wild/Forest Fire**
30 2359HST

The state Department of Land and Natural Resources closed certain parts of forest lands west of Koke'e Road due to extremely dry conditions that posed fire hazard. Department director stated that there have been several fire starts in the area. Koke'e State Park will remain open, but the public access is limited until there is enough rainfall to reduce the hazard and help vegetation recover in this area.

Hawaii County

Hilo to Pahoa 10 0810HST 0 0 **Urban/Sml Stream Fld**
11 0810HST

Spotter reported steady rain over Hilo, which caused the rise of river and ponding along streets. The total amount of rainfall at Orchard Lands Estates (Puna) for this event was 4.29 inches.

IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

IDZ007

Orofino / Grangeville Region

09 0900PST 0 0 **Heavy Snow**

Localized 7 inches of new snow reported at Grangeville.

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	

IDAHO, Northwest

IDZ003>004-027 Idaho Palouse - Central Panhandle Mountains - Lewis And Southern Nez Perce

04	0200PST			0	0				Heavy Snow
28	1200PST								

There were several reports of heavy snow across the higher terrain of north Idaho, specifically on the 4th, 9th, 21st and 28th. Snowfall reports ranged from 4-5 inches in a 12 hour period for each event and were mainly found above 3000 feet in elevation. Some of these locations included Potlatch, near Sandpoint and Winchester.

IDAHO, Southeast

IDZ019-022>023 Upper Snake Highlands - South Central Highlands - Caribou Highlands

05	2200MST			0	0	20K			Winter Storm
06	1000MST								

A winter storm brought heavy snow to the mountains of Southeastern Idaho. Accumulation of up to 6 inches were reported south of Burley and east of Pocatello. The Island Park area near Yellowstone reported accumulation up to 10 inches over night. Lighter accumulation across the Snake River Plains resulted in many vehicle slide offs and at least one roll over.

Butte County

10 W Arco	08	1423MST		0	0				Funnel Cloud
		1435MST							

IDZ017 Eastern Magic Valley

08	2100MST			0	0	230K			Blizzard
09	1500MST								

IDZ019-022 Upper Snake Highlands - South Central Highlands

08	2100MST			0	0				Winter Storm
09	1500MST								

A winter storm brought widespread snow to Eastern Idaho with blizzard conditions reported in the Magic Valley. Heavy snow and strong winds were reported in the Burley area with accumulation of up to 6 inches and drifts of up to 2 feet. Numerous vehicle accidents and slide offs were reported along I-84 and secondary roads. Major accidents closed I-84 for 10 hours and caused a 15 mile backup on the interstate. Dozens of injured, including two sheriff deputies, were transported to local hospitals. Other injuries included 9 university students when their bus collided with a truck. A major contributor to the accidents was the near zero visibilities reported in many locations by ISP. Wind caused power outages to some 6000 homes and businesses in the Magic Valley.

Accumulation of 8 to 12 inches were reported in the mountains of South Central Idaho and Upper Snake Highlands. Strong winds behind the cold front brought widespread blowing and drifting of snow, along with road closures and minor vehicle accidents.

IDAHO, Southwest

IDZ016 Western Magic Valley

09	1150MST			0	0	15K			High Wind (G51)
	1500MST								

High winds blew across the Western Magic Valley. At Twin Falls a peak gust of 52 mph was measured and at Jerome sustained winds of 49 mph with a gust to 59 mph were observed. The winds overturned a truck near Twin Falls, caused power outages and damaged a warehouse roof.

IDZ016 Western Magic Valley

09	1100MST			0	0				Winter Storm
	1500MST								

Strong winds and snowfall produced near white-out conditions in the eastern fringe of the Western Magic Valley. Blowing snow reduced visibilities to less than 1/4 mile causing numerous minor accidents and road slide-offs. Interstate 84 between Twin Falls and Burley was closed during the afternoon by the storm.

ILLINOIS, Central

Knox County

Galesburg to Douglas	08	1907CST		0	0				Hail (1.00)
		1937CST							

Scott County

5 SW Oxville	08	1907CST	0.3	120	0	0	150K		Tornado (F1)
		1908CST							

As the tornado crossed the Illinois River from Pike County into Scott County, it caused extensive damage to a residence next to a pump house located near the river, 5 miles southwest of Oxville. The windows on the west side of the house were blown out and the east wall was blown out as well. Shortly after hitting the home the tornado lifted and dissipated. No injuries were reported and the damage was estimated around \$150,000.

Scott County

.3 NNW Oxville to 3 SE Bluffs	08	1910CST	4	120	0	0	100K		Tornado (F1)
		1918CST							

A tornado developed 0.3 of a mile north northwest of Oxville. It took the roof off of a trailer then continued to the northeast. One mile northeast of Oxville, it destroyed a barn and three grain bins. It destroyed numerous trees and caused damage to several barns

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	
ILLINOIS, Central									
and silos before lifting and dissipating 3 miles southeast of Bluffs. No injuries were reported and damage was estimated around \$100,000.									
Fulton County									
2 S Avon to 6 N Canton	08	1917CST 1950CST			0	0	0		Thunderstorm Wind
As a line of severe thunderstorms moved through northern Fulton county, widespread damage was reported. A horse trailer was blown over 2 miles south of Avon and a semi was blown over on Route 116 near London Mills. Three miles northeast of Fairview to 6 miles north of Canton, several barns, machine sheds, and silos were destroyed. Also, numerous power poles and power lines were blown down. No injuries were reported.									
Morgan County									
5.5 W Jacksonville to Arcadia	08	1927CST 1937CST	9.5	200	0	0	0		Tornado (F1)
A tornado touched down 5.5 miles west of Jacksonville. It threw a boat off its trailer a quarter of a mile into a neighbor's pond. A house nearby sustained some shingle and window damage and a truck was damaged. As the tornado travelled to the northeast, it blew down dozens of trees and destroyed a barn. Nearby the roof of an airplane hanger was peeled back with the sheet metal thrown into trees. A 2x4 was driven into the southwest side of a house. After the tornado crossed Route 67, it continued to the northeast knocking down trees and power poles. In Arcadia, a barn was severely damaged, several outbuildings were destroyed, a garage was damaged, and roof damage was reported to several homes before the tornado lifted and dissipated. No injuries were reported.									
Morgan County									
Jacksonville	08	1930CST 1932CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down ten power poles in Jacksonville and caused minor damage to a couple of homes in town. No injuries were reported.									
Knox County									
1 S Williamsfield	08	1942CST			0	0	0		Thunderstorm Wind
One mile south of Williamsfield, a shed was destroyed. No injuries were reported.									
Macon County									
3.5 SW (Dec)Decatur Arpt	03	0706CST			0	0	0	0	Hail (0.75)
Christian County									
Harvel to Mt Auburn	05	1720CST 1811CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew down numerous power poles and power lines in Harvel, Morrisonville, and Edinburg. In Kincaid, a large tree limb punctured the roof of a house causing minor damage. In Mt. Auburn, the winds caused moderate damage to the roof of a business and a tree was blown over causing minor damage to the roof of a porch. No injuries were reported.									
Macon County									
Decatur	05	1845CST			0	0	0		Thunderstorm Wind
A couple of power lines were blown down in Decatur.									
De Witt County									
Kenney	05	1848CST			0	0	0		Thunderstorm Wind
A power line was blown down onto Route 54 near Kenney. Several trees and tree limbs were blown down as well. No injuries were reported.									
Morgan County									
.5 NE Sinclair to 1.5 NE Prentice	08	1945CST 1950CST	6	33	0	0	0		Tornado (F1)
Cass County									
1 SW Ashland to 1 NE Ashland	08	1950CST 1953CST	2.2	333	1	6	1.8M	0	Tornado (F1)
F68MH									
Sangamon County									
4.2 NW Pleasant Plains to 4 NW Pleasant Plains	08	1953CST 1954CST	0.6	10	0	0	0		Tornado (F0)
Menard County									
3.8 SW Tallula to 3.3 SW Tallula	08	1954CST 1955CST	0.5	10	0	0	0		Tornado (F0)
The tornado first touched down half a mile northeast of Sinclair (Morgan County). As it travelled to the northeast, it flipped over a mobile home and destroyed a barn near Yatesville. Nearby two outbuildings and a hog shelter were destroyed. As it approached									

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	

ILLINOIS, Central

Prentice, the tornado destroyed a small shed and carried parts of the shed over a nearby house then across the road to a field beyond, about 300 yards away. Windows on the house were blown out. As it continued to the northeast scouring marks could be seen in a field 1 mile southwest of Ashland (Cass County). The tornado entered Ashland on the southwest side of town around 8:51 PM CDT. It hit a trailer park, destroying 17 trailers and damaging 20. One woman was trapped under her mobile home for several hours. However, she died before they could pull her out. Six other people sustained injuries. As it travelled northeast through town, it destroyed one home, as well as, a city garage, and severely damaged 16 homes, a church, laundromat, and several brick buildings downtown. As it exited town it hit a grain elevator. However, the elevator appears to have broken up the tornado's circulation and no damage was reported to the elevator. North of Highway 125, it appears that the circulation became organized again, but much weaker. Plenty of debris from town was found in the field north of the highway. During a helicopter survey, scouring was evident in the field with the scouring marks splitting into two separate circulations, one going north northeast and the other more east northeast. After a short distance, about half a mile, both of the circulations dissipated. Damage in Ashland was estimated around \$1,750,000.

Peoria County

Elmwood to Brimfield	08	1953CST 1957CST			0	0	0	Thunderstorm Wind
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As a line of severe storms moved into Peoria County, a power pole was snapped off at the ground near Elmwood and an awning at a gas station in Brimfield was damaged. No injuries were reported.

Sangamon County

8 ESE Pleasant Plains	08	2010CST			0	0	0	Thunderstorm Wind
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Several trees were blown down halfway between Pleasant Plains and Springfield.

Christian County

6 S Sicily to 4 NW Taylorville	08	2053CST 2105CST			0	0	0	Thunderstorm Wind
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As a severe thunderstorm moved northeast across Christian County, numerous reports of damage were received. Six miles south of Sicily, three grain bins were damaged. Four miles south of Tovey, four homes sustained minor damage and several tree limbs and power lines were blown down one mile south of Kincaid. Also, 3 homes sustained minor damage four miles northwest of Taylorville. No injuries were reported.

Macon County

Decatur to Argenta	08	2120CST 2125CST			0	0	0	Thunderstorm Wind
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A tree was blown over onto a power pole in Decatur, knocking down a couple of power lines. In Argenta, a truck was blown off of I-72. No injuries were reported.

Christian County

Pana	08	2128CST 2135CST			0	0		Thunderstorm Wind (G63)
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A severe thunderstorm moved through Pana causing scattered damage. Several trees were blown down and there was minor damage to the high school football fieldbox. Also, a dugout on the high school baseball field was destroyed. Downtown several building sustained minor damage and a couple of outbuildings on the east side of town were destroyed. No injuries were reported.

Piatt County

3 N Cisco to 6 NNE Cisco	08	2135CST 2138CST	3.5	100	1	3	150K	0	Tornado (F1)
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A tornado formed and touched down destroying a double wide trailer 3 miles north of Cisco. Four people were initially injured, though one died the next day. A barn and two garages nearby were destroyed. Further to the northeast, the tornado destroyed a barn. Five miles north northeast of Cisco, the top story of a two story barn was removed. After this, the tornado lifted and dissipated. Damage to the mobile home was estimated around \$150,000. F44MH

Champaign County

Mahomet	08	2145CST			0	0	0	0	Hail (1.00)
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Champaign County

1.5 S Mahomet to 4 E Leverett	08	2154CST 2205CST			0	0			Thunderstorm Wind (G69)
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As a severe thunderstorm moved across Champaign County, it caused scattered areas of damage. Storm spotters recorded a 79 MPH wind gust just south of Lake of the Woods. Four miles east of Leverett, a green house was destroyed, a machine shed was flipped over, the doors blown off of a barn, and some minor roof and shingle damage to a home. No injuries were reported.

Douglas County

Arcola to Hindsboro	08	2205CST 2225CST			0	3	0		Thunderstorm Wind
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As the severe thunderstorm moved across Douglas County, numerous reports of damage were received. In Arcola, several large trees were blown over, some of which caused damage to several tombstones and a storage shed in the cemetery. Several semis were blown over on I-57, injuring three people. A window was blown in on one business in Tuscola. In Villa Grove, the winds blew the roof off of an unoccupied house and destroyed the carport. Numerous trees were blown down countywide.

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	
ILLINOIS, Central									
Effingham County									
3.5 S Teutopolis	08	2228CST			0	0		0	Thunderstorm Wind
A large tree was blown down across the road 3.5 miles south of Teutopolis. No injuries or structural damage were reported.									
Cumberland County									
Janesville	08	2232CST 2233CST	0.1	33	0	0	50K	0	Tornado (F0)
Coles County									
2.2 SW Campbell	08	2233CST	0.2	33	0	0	50K	0	Tornado (F0)
A tornado touched down on the southwest side of Janesville (Cumberland County side of town). It hopped and skipped along a northeast path through town causing scattered damage. Three homes sustained moderate damage and an above ground pool was destroyed. A front porch on one of the homes was destroyed. Several trees were blown down as well. The tornado lifted on the northeast side of town (in Coles County). No injuries were reported and damage was estimated around \$100,000.									
Vermilion County									
Danville	08	2250CST			0	0		0	Thunderstorm Wind
Several power lines were blown down in Danville.									
Clark County									
4 W Darwin to Darwin	08	2300CST 2305CST			0	0		0	Thunderstorm Wind
Thunderstorm winds destroyed a machine shed and a barn 4 miles west of Darwin. Two cars in the machine shed were damaged. In Darwin, numerous trees were blown down. No injuries were reported.									
Crawford County									
2 N Oblong to Hutsonville	08	2308CST 2330CST			0	0		0	Hail (1.00)
Macon County									
(Dec)Decatur Arpt	10	1935CST			0	0		0	Hail (1.00)
Macon County									
Mt Zion	10	2009CST			0	0		0	Hail (0.75)
Champaign County									
3 NW Mahomet	10	2020CST			0	0		0	Hail (0.75)
Douglas County									
2 W Garrett to Garrett	10	2056CST			0	0		0	Hail (0.75)
Moultrie County									
5.5 NE Fairbanks	10	2056CST			0	0		0	Hail (0.75)
Piatt County									
Atwood	10	2056CST			0	0		0	Hail (0.75)
Champaign County									
Tolono to 1 N St Joseph	10	2106CST 2122CST			0	0		0	Hail (1.00)
De Witt County									
Birkbeck to Parnell	10	2142CST 2145CST			0	0		0	Hail (1.00)
Vermilion County									
Armstrong	10	2200CST			0	0	0	0	Thunderstorm Wind (G52)
Piatt County									
Cerro Gordo	20	2342CST			0	0			Hail (1.75)
Logan County									
San Jose	20	2345CST			0	0			Hail (0.75)
Macon County									
Warrensburg	20	2345CST			0	0			Hail (1.75)
Piatt County									
Monticello	22	0846CST			0	0			Hail (0.88)
Knox County									
1.5 S Appleton	22	2127CST 2128CST	0.2	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field 1.5 miles south of Appleton. No injuries or damage were reported.									

Storm Data and Unusual Weather Phenomena

April 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>ILLINOIS, Northeast</u>									
La Salle County									
5 N Streator	10	1455CST			0	0			Hail (1.00)
Grundy County									
2 E Mazon to Coal City	10	1526CST			0	0			Hail (1.75)
Kane County									
Aurora	10	1526CST			0	0			Hail (1.00)
Will County									
5 W Wilmington	10	1545CST			0	0			Hail (1.75)
Cook County									
Park Forest to Hazel Crest	10	1615CST			0	0			Hail (1.75)
Will County									
Monee to Crete	10	1622CST 1628CST			0	0			Hail (1.25)
Thunderstorms moved from LaSalle County east through the southwest and south suburbs of Chicago dumping hail from marble to golfball size. Some places had hail covering the ground a couple inches deep.									
Kankakee County									
Reddick to Herscher	21	1805CST			0	0			Hail (1.75)
Kankakee County									
Momence	21	1815CST			0	0			Thunderstorm Wind (G50)
Two power poles were blown down.									
Kane County									
St Charles	21	1939CST			0	0			Hail (1.00)
Cook County									
Schaumburg	21	2010CST			0	0			Hail (0.75)
Du Page County									
Bartlett to Elmhurst	21	2020CST 2025CST			0	0			Hail (1.75)
Hail 7/8 inch in diameter fell at Bartlett and golf ball sized hail fell at Elmhurst.									
Ogle County									
Rochelle	21	2216CST			0	0			Thunderstorm Wind (G50)
Thundersotm winds blew down trees and large limbs and a power pole on the west side of Rochelle. A semi-tractor trailer was overturned on Interstate 88.									
De Kalb County									
Genoa	21	2245CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds damaged a farm near Genoa or Derby Line Road. Lots of limbs were blown down , a barn roof was damaged and windows were blown out in a farm house.									
Kane County									
2 SE Hampshire	21 22	2300CST 2300CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds damaged farms off Plank Road east of Rte 47. Ten utility poles were bent over. Four large trees were uprooted and others damaged. One barn was leveled, another was partially collapsed, and the roof was taken off another. A light pole was snapped off at the base. The siding was torn off a house. A church had damage to a chimney and steeple. Two homes in Briar Hill had chimney and roof damage.									
Cook County									
Matteson	27	2045CST 2300CST			0	0			Urban/Sml Stream Fld
Will County									
Frankfort	27	2045CST 2300CST			0	0			Urban/Sml Stream Fld
Heavy rain caused street flooding in Matteson and Frankfort.									

ILLINOIS, Northwest

NOT RECEIVED.

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	
ILLINOIS, South									
Pope County									
Glendale to Eddyville	03	1454CST 1458CST			0	0			Hail (1.00)
Hail the size of quarters fell from Glendale to Eddyville.									
Williamson County									
4 W Marion	03	1350CST			0	0			Thunderstorm Wind (G57)
Winds to 66 MPH and marble size hail accompanied the storm.									
Pope County									
2 W Golconda	05	1805CST			0	0			Thunderstorm Wind (G50)
Large tree branches were blown down.									
Pope County									
6 N Golconda	05	1757CST			0	0	8K		Thunderstorm Wind
A large tree was uprooted and blown onto a house.									
Hardin County									
Elizabethtown	05	1755CST			0	0	4K		Thunderstorm Wind (G52)
Signs were damaged by wind.									
Massac County									
4 NW Metropolis	05	1720CST	0.2	40	0	1	10K		Tornado (F0)
A weak tornado briefly touched down in the vicinity of U.S. 45 between Joppa and Metropolis. The tornado occurred just outside of a coal terminal. A 9-by-9 foot guard shack on the coal terminal property was destroyed when the roof was blown off followed by the walls collapsing. A guard inside the shack was treated at a hospital for cuts caused by flying glass. A house across the street had very minor structural damage on its east side, with debris blown from the north to the west side of the house. The tornado was likely at tree-top level. A coal terminal worker reported seeing a "funnel." This tornado was associated with a severe thunderstorm complex that originated over the Mississippi River counties of western Kentucky and moved northeast.									
Massac County									
2 SW Round Knob to .5 NE Round Knob	05	1721CST 1725CST			0	0	50K		Thunderstorm Wind (G87)
A thunderstorm downburst with winds estimated near 100 MPH damaged roofs and metal barns. Scattered trees were down, along with some power lines. Most of the homes in the path of the downburst sustained only minor roof damage. The most severely damaged house had its roof peeled back and thrown 200 yards into a field. The path of the microburst was about 1 mile wide and at least 2.5 miles long.									
Pope County									
3 W Herod	10	1730CST			0	0			Hail (0.88)
Amateur radio operators reported nickel size hail.									
Jackson County									
2 E Vergennes	10	2153CST			0	0			Hail (1.00)
1 inch hail was reported on Highway 127.									
Wayne County									
Fairfield	05	1930CST			0	0	30K		Lightning
Fire broke out at a Ford car dealership after lightning struck. The metal building was totally involved in flames.									
ILZ084-088-092									
Jackson - Union - Alexander									
	20	0300CST			0	0			Flood
	30	2359CST							
Heavy rain during the first half of April caused the Mississippi River to rise above flood stage. Rainfall amounts during the first six days of the month ranged from one and one half to over 4 inches. At Thebes, where flood stage is 33 feet, the river crested at 34.6 feet on the 23rd. This caused minor flooding of mainly agricultural areas.									
ILZ075-081-084									
Jefferson - Franklin - Jackson									
	04	0430CST			0	0			Flood
	30	2359CST							
In response to heavy rainfall during the first week of April, the Big Muddy River rose above flood stage. Rainfall amounts during the first six days of the month ranged from one and one half to over 4 inches. At Murphysboro, where flood stage is 16 feet, the river crested at 26.6 feet on the 9th. This results in some minor flooding that affects houses just downstream of Bridge Street in Murphysboro. At Plumfield, where flood stage is 20 feet, the crest was 22.6 feet on the 7th. This results in minor flooding affecting mainly bottomland and surrounding low-lying areas. The river fell below flood stage at Plumfield by the 13th, but remained above flood stage at Murphysboro through the end of the month due to backwater from the flooded Mississippi River.									
ILZ083									
White									
	06	1300CST			0	0	4K		Flood
	14	1600CST							
The Little Wabash River rose rapidly above flood stage due to numerous thunderstorms during the first several days of the month.									

Storm Data and Unusual Weather Phenomena

April 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

The Little Wabash River jumped about 14 feet from April 3rd to the 4th at the Carmi gage. Flood stage at Carmi is 27 feet, and the crest of 29.43 feet occurred on the 10th. At this stage, county roads become inundated.

ILZ076

Wayne

04	0600CST				0	0	5K		Flood
06	2200CST								

Heavy rainfall on April 3 sent the Skillet Fork River out of its banks. At Wayne City, where flood stage is 15 feet, the river crested at 16.76 feet early on the 5th. The river jumped 8.5 feet at Wayne City from the 3rd to the 4th. The flooding was confined mainly to bottomland and surrounding low-lying areas.

Massac County

Countywide

03	0445CST				0	0			Flash Flood
	0645CST								

Pope County

Countywide

03	0445CST				0	0			Flash Flood
	0645CST								

Thunderstorms produced up to 2.5 inches of rain in an hour. The heaviest rain, around 2 inches per hour, fell in a narrow swath from southeast Ballard County, Kentucky through eastern Massac and southern Pope Counties in Illinois. This resulted in flash flooding of a few roads and low-lying areas.

Jackson County

Carbondale

03	1500CST				0	0	4K		Flash Flood
	1700CST								

Thunderstorms with prolonged periods of heavy rain forced a creek out of its banks in Carbondale. North Oakland Street was closed due to high water.

Hamilton County

Dahlgren

03	1300CST				0	0			Urban/Sml Stream Fld
	1400CST								

Saline County

Carriers Mills

03	1430CST				0	0			Urban/Sml Stream Fld
	1515CST								

Thunderstorms produced around 2 inches of rain in a 2-hour time period. This resulted in street flooding in some communities in Hamilton and Saline Counties.

Perry County

Du Quoin

03	1225CST				0	0			Urban/Sml Stream Fld
	1400CST								

Thunderstorms produced over an inch of rain in an hour's time, causing some street and yard flooding.

Gallatin County

Gibsonia

28	1620CST				0	0			Urban/Sml Stream Fld
	1700CST								

A slow-moving thunderstorm dumped heavy rain over a small part of Gallatin County. A patrol car reported 6 to 8 inches of water across State Route 1 about 7 miles south of the Route 13 intersection.

ILLINOIS, Southwest

Pike County

.5 W Pike to 2.5 NE Detroit

08	1835CST	26.5	120		0	0			Tornado (F2)
	1907CST								

After forming on the north side of Louisiana, MO, a tornado crossed the Mississippi River into Illinois and first caused damage to a boat dock along US 54. The tornado tracked northeast along US 54 destroying a barn and downing trees. The damage along the rest of the path was somewhat intermittent. Trees were downed and an occasional farm building damaged. Significant damage was noted as the tornado tracked northeast from Pittsfield. Just east of Pittsfield, two farms suffered damage. Three barns were destroyed, an equipment building heavily damaged and a grain bin destroyed. About 5 miles east-northeast of Pittsfield a home lost part of its roof and numerous trees were damaged. The last area of significant damage in Pike County was northeast of Detroit. One home lost its roof, a barn was destroyed and 2 grain bins damaged. Numerous large trees in this area were snapped off at the base.

Madison County

New Douglas

08	2112CST				0	0			Thunderstorm Wind (G59)
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Amateur radio spotters reported some roof damage in New Douglas.

Bond County

Greenville

08	2129CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm wind gusts downed trees on the northwest side of Greenville.

Fayette County

8 SW Vandalia

08	2140CST				0	0			Thunderstorm Wind (G60)
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Thunderstorm wind gusts overturned 2 tractor-trailer trucks on I-70 southwest of Vandalia.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ILLINOIS, Southwest</u>									
Fayette County									
Shafter	08	2250CST			0	0			Thunderstorm Wind (G53) Thunderstorm wind gusts downed some trees and power lines.
Randolph County									
Chester	05	1715CST			0	0			Thunderstorm Wind (G55) Thunderstorm wind gusts downed some trees and power lines.
Adams County									
Marblehead	05	1838CST			0	0			Thunderstorm Wind (G55) Thunderstorm winds downed some power lines.
Monroe County									
Waterloo	10	1915CST			0	0			Hail (0.88) Storm spotters reported nickel size hail.
St. Clair County									
2 N Millstadt	10	1930CST			0	0			Thunderstorm Wind (G50)
St. Clair County									
Millstadt	10	1930CST			0	0	2K		Thunderstorm Wind (G50) Thunderstorm wind gusts blew down a chimney in Millstadt. Power lines were also downed just north of town.
Adams County									
(Uin)Quincy Muni Arp	21	2155CST			0	0			Hail (0.75) 3/4 inch hail fell at the Quincy Airport.
Randolph County									
Tilden	21	0605CST			0	0			Thunderstorm Wind (G55) Thunderstorm wind gusts caused damage in Tilden. Several trees were downed mainly around the city park. A couple of roofs had minor damage and some storage sheds were damaged.
Madison County									
1 SW New Douglas to 1 S New Douglas	08	2118CST	1	75	0	1			Tornado (F1) A small non-supercell tornado associated with a line of thunderstorms caused 1 injury and damage to 3 farms New Douglas area. Most of the damage was to barns and outbuildings. One home had the roof and a couple of walls of an addition blown away. The garage was also severely damaged. One man suffered cuts and bruises when hit by flying debris.
Montgomery County									
1 N Panama	08	2125CST			0	0			Thunderstorm Wind (G60) Thunderstorm wind gusts destroyed a garage and a few other outbuildings at a farm near Panama. Several trees were also blown down along the Panama-Sorrento Road.
Bond County									
Sorento	08	2120CST			0	0			Thunderstorm Wind (G60) Thunderstorm wind gusts damaged a couple of barns and grain bins at a couple of farms near Sorrento.
Montgomery County									
Walshville	08	2122CST			0	0			Thunderstorm Wind (G60) Thunderstorm wind gusts destroyed a mobile home that was attached to a house in the Long Bridge area near Walshville.
<u>INDIANA, Central</u>									
Fountain County									
Countywide	09	0015EST 0030EST			0	0			Thunderstorm Wind (G50)
Vigo County									
Terre Haute	09	0015EST 0017EST			0	0			Hail (0.88)
Morgan County									
Cope	09	0115EST 0117EST			0	0			Thunderstorm Wind (G52)
Martin County									
Rusk	09	0130EST 0132EST			0	0	20K		Thunderstorm Wind (G60)
Johnson County									
Greenwood	09	0140EST 0141EST			0	0			Thunderstorm Wind (G52)

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 Damage	Crops	
INDIANA, Central									
Marion County									
Indianapolis	09	0145EST 0147EST			0	0			Thunderstorm Wind (G58)
Shelby County									
Shelbyville	09	0200EST 0202EST			0	0			Thunderstorm Wind (G50)
A squall line moved across central Indiana knocking down trees and producing isolated severe hail. A bus was thrown into a tree and a few homes reported roof damage in Rusk as the line passed through. Thunderstorm wind gusts ranged from 58 to 67 miles an hour.									
Madison County									
Pendleton	09	0805EST 0807EST			0	0	20K		Thunderstorm Wind (G55)
Thunderstorm winds blew a trailer over, damaged a barn and a few roofs.									
Jennings County									
4 SE San Jacinto	09	0300EST 0302EST	1	400	0	0	250K		Tornado (F3)
A strong F3 tornado moved across the extreme southeastern part of the county significantly damaging 2 homes and destroying 4 barns. 2 high tension power line towers were toppled as well. The tornado then moved northeast out of the Indianapolis CWA.									
Jennings County									
Paris Crossing	09	0245EST 0247EST			0	3	50K		Thunderstorm Wind (G100)
Wind gusts estimated at between 100 and 120 miles an hour rolled a mobile home, leveled 2 barns and damaged a roof off a home. A family of 3 all received minor injuries as their mobile home was rolled. The injuries were all lacerations. A National Weather Service survey ruled downburst winds the culprit.									
Morgan County									
Martinsville	21	0400EST			0	0			Lightning
Lightning struck a small shopping center resulting in a fire.									
INZ021-029									
Carroll - Tippecanoe									
	27	2000EST			0	0			Flood
	30	2359EST							
1 to 2 inches of rain fell during the afternoon of April 27. The rain occurred about the same time the crest from the upper portion of the Tippecanoe River was approaching which led to minor flooding along the Tippecanoe River. 1052 KCFS was observed on April 29 (Alert level 1 is 9000 KCFS which if exceeded results in minor agricultural bottomland flooding). The river stayed at greater than 9000 KCFS into May 1.									
Meanwhile, delphi crested at 8.47 feet (flood stage is 8 feet) on April 28.									
INZ028-028-028>029- Warren - Tippecanoe - Fountain - Vermillion - Parke - Vigo - Sullivan									
029-029-035-035-043>044-051-060									
	17	0300EST			0	0			Flood
	30	2359EST							
5 different rain events caused prolonged flooding and multiple crests along the Wabash River from Lafayette to across the border from Riverton, Illinois. The first event occurred on the 15th and 16th as 2 to 3 inches of rain fell over a uniform area. Lafayette crested at 15.76 feet (flood stage is 11 feet) on the 18th, Covington crested at 19.88 feet (flood stage is 16 feet) on the 19th, Montezuma crested at 19.60 feet (flood stage is 14 feet) on the 19th, Terre Haute crested at 17.63 feet (flood stage is 14 feet) on the 21st, Hutsonville crested at 19.90 feet (flood stage is 16 feet) on the 23rd and finally Riverton crested at 17.96 feet (flood stage is 15 feet) on the 24th. On the 20th and 21st, 1 to 2 inches of rain fell across much of central Indiana. This rain helped prolong the the lowland flooding along the Wabash. The third event occurred on the late evening of the 22nd and early on the 23rd. 2 to 4 inches of rain fell across northern Indiana which caused another crest to form in west central Indiana and move down the Wabash River. Lafayette crested at 15.08 feet on the 24th, Covington crested at 18.41 feet on the 26th, Montezuma crested at 16.34 feet on the 26th, Terre Haute crested at 14.78 feet on the 27th and finally Riverton crested at 16.82 feet on the 28th. The final rain event came on the 27th and 28th and produced 1 to 2 inches of rain across much of the state. This final rain event allowed Lafayette to crest at 13.02 feet on the 29th, Covington to crest at 17.51 feet on the 30th and Montezuma to crest at 15.59 feet on the 30th. All in all, the flooding lasted around two weeks and did little agricultural damage.									
Hamilton County									
Carmel	08	1805EST			1	0			Lightning
A 32 year old male was struck by an isolated cloud-to-ground lightning bolt and became comatose. He died a week later. The man was struck while standing next to a tree in his yard.									
M32UT									

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	
INDIANA, Northeast									
Miami County									
5 E Bennetts Switch to Wawpecong	09	0115EST			0	0	5K		Thunderstorm Wind
	Trees and power lines were blown down due to a small downburst that hit the south central part of the county.								
Jay County									
Boundary City	09	0915EST			0	0	50K		Thunderstorm Wind
	A mobile home was completely destroyed by the high winds. A nearby house sustained considerable damage with several large trees blown down as well.								
La Porte County									
La Porte	10	1830EST			0	0			Hail (0.75)
La Porte County									
3 NW La Porte	10	1833EST			0	0			Hail (0.75)
La Porte County									
La Porte	10	1900EST			0	0			Hail (1.50)
	Hail caused some roof and auto damage in town due to the extended hail fall with several inches accumulating in some parts of town.								
St. Joseph County									
Sbn Michiana Arpt	10	1903EST			0	0			Hail (0.75)
St. Joseph County									
1 N South Bend	10	1905EST			0	0			Hail (1.25)
St. Joseph County									
Sbn Michiana Arpt	10	1906EST			0	0			Hail (1.25)
St. Joseph County									
Mishawaka	10	1918EST			0	0			Hail (0.75)
St. Joseph County									
Mishawaka	10	1919EST			0	0			Hail (1.00)
St. Joseph County									
2 NW Osceola	10	1920EST			0	0			Hail (1.00)
St. Joseph County									
1 E Mishawaka	10	1924EST			0	0			Hail (1.00)
St. Joseph County									
Osceola	10	1928EST			0	0			Hail (0.75)
Elkhart County									
1 W Elkhart	10	1932EST			0	0			Hail (1.00)
Elkhart County									
1 E Elkhart	10	1937EST			0	0			Hail (0.75)
Pulaski County									
Winamac	10	1937EST			0	0			Hail (1.75)
Marshall County									
1 N Lapaz	10	1945EST			0	0			Hail (0.75)
Elkhart County									
Wakarusa	10	1953EST			0	0			Hail (0.75)
Elkhart County									
Waterford Mills	10	2000EST			0	0			Hail (0.88)
Fulton County									
Rochester	10	2000EST 2003EST			0	0			Hail (0.75)
Fulton County									
Rochester	10	2000EST			0	0			Hail (1.75)
Fulton County									
Talma	10	2000EST			0	0			Hail (0.75)

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	
INDIANA, Northeast									
Fulton County									
2 S Rochester	10	2003EST			0	0			Hail (1.00)
Kosciusko County									
Syracuse	10	2010EST			0	0			Hail (1.00)
Lagrange County									
Topeka	10	2014EST			0	0			Hail (1.00)
Noble County									
Albion to 5 ESE Albion	10	2014EST 2020EST			0	0	50K		Thunderstorm Wind
Numerous trees were blown down starting in the town of Albion and continuing along for 5 miles just south of highway 8. Several homes sustained minor damage. One mobile home 2 miles southeast of Albion was destroyed. Two farmsteads had their grain bins blown down and another farmstead had a barn destroyed by the high winds.									
Noble County									
Ligonier	10	2019EST			0	0			Hail (1.75)
Noble County									
Ligonier	10	2019EST			0	0			Hail (1.00)
Noble County									
Wolflake	10	2039EST			0	0			Hail (0.75)
Wabash County									
2 NE North Manchester	10	2040EST			0	0			Hail (0.75)
De Kalb County									
Auburn	10	2055EST			0	0	20K		Thunderstorm Wind
One home had its roof blown off with several large trees and limbs down in town.									
Whitley County									
Churubusco	10	2057EST			0	0			Hail (0.75)
Allen County									
Ft Wayne	10	2105EST			0	0			Hail (1.75)
De Kalb County									
Auburn	10	2105EST			0	0			Hail (0.75)
Allen County									
5 NE Ft Wayne	10	2115EST			0	0			Hail (1.00)
Steuben County									
Hamilton	10	2130EST			0	0			Hail (0.75)
Miami County									
Denver	11	0007EST			0	0			Hail (0.75)
Marshall County									
Argos	22	1530EST			0	0	3K		Thunderstorm Wind
Conservation officer reported to county sheriff that trees and power lines were down.									
Marshall County									
Bourbon	22	1530EST			0	0			Thunderstorm Wind (G60)
Thunderstorm wind gusts damaged two 15-inch diameter pine trees. Tree trunks were broken half way up. Two other 15-inch diameter pine trees were uprooted.									
Kosciusko County									
Etna Green	22	1540EST			0	0	5K		Thunderstorm Wind
Sheiff and amateur radio operator reported several trees blown down and a roof blown off of a repair shop.									
Kosciusko County									
Warsaw	22	1555EST			0	0			Thunderstorm Wind (G60)
Thunderstorm wind gusts of 55 to 60 MPH reported by an off-duty NWS employee.									
Fulton County									
Rochester	22	1610EST			0	0			Urban/Sml Stream Fld
Flooding reported along State Road 110 and Old 31 north of Rochester.									
Noble County									
Albion	22	1625EST			0	0			Hail (0.75)

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	
<u>INDIANA, Northeast</u>									
Whitley County									
Dunfee	22	1655EST			0	0			Hail (0.75)
		Spotter reported .75 inch hail in Dunfee.							
Allen County									
Ft Wayne	22	1725EST			0	0			Hail (0.75)
		Hail of .75 inch diameter reported by amateur radio operators at St. Francis College and at Coliseum Blvd. NW of Ft. Wayne.							
Huntington County									
Roanoke	22	2020EST			0	0			Urban/Sml Stream Fld
		Flooding reported by Huntington County Sheriff along US Route 24 and Roanoke Road/800N near Roanoke.							
Wabash County									
Liberty Mills	22	2130EST			0	0			Urban/Sml Stream Fld
		Water was reported to be over local roads in the vicinity of Liberty Mills.							
Wabash County									
North Manchester	22	2130EST			0	0			Urban/Sml Stream Fld
		State Road 13 was reported to be flooded south of North Manchester.							
Allen County									
Ft Wayne	22	2145EST			0	0			Urban/Sml Stream Fld
		Water was reported flowing across Interstate 469 at mile marker four 8 miles south of Ft. Wayne.							
Allen County									
Ft Wayne	22	2145EST			0	0			Urban/Sml Stream Fld
		U.S. Route 24 was reported to be flooded 10 miles south of Ft. Wayne. A warm front across the southern Great Lakes region served as the focus for strong to severe thunderstorms. Overrunning precipitation was heavy enough to cause localized flooding over a narrow portion of northeastern Indiana. Thunderstorms training along the warm front dumped up to 2 inches of rain per hour across the region. Dew points were in the lower 60s south of the warm front and provided ample moisture for the convection to sustain itself. A low-level jet over southern Illinois and Indiana aided in the thunderstorm development.							
<u>INDIANA, Northwest</u>									
Lake County									
Munster to 5 ESE Gary	10	1735EST 1751EST			0	0			Hail (1.25)
Porter County									
Chesterton to Valparaiso	10	1815EST 1825EST			0	0			Hail (1.50)
		Thunderstorms moved through northwest Indiana dumping hail from marble to golfball size. In some places hail was 2 inches deep covering the ground.							
Benton County									
Earl Park	21	1717CST			0	0			Hail (1.00)
Newton County									
Lake Vlg	21	1910CST			0	0			Hail (0.75)
<u>INDIANA, South Central</u>									
Clark County									
Sellersburg	09	0300EST			0	0			Hail (1.00)
		Quarter size hail reported near Sellersburg							
Floyd County									
New Albany	09	0300EST 0400EST			0	0			Hail (1.00)
		One Half to One inch hail fell near New Albany							
Dubois County									
Ireland	27	2111EST			0	0			Hail (0.75)
		Dime size hail							
Perry County									
Bristow	28	1330EST			0	0			Hail (0.75)
		3/4 inch hail covered the ground							
Crawford County									
Sulphur	28	1420EST			0	0			Hail (1.00)
		1 inch hail fell along I-64 near Sulphur							
Crawford County									
5 SE English	28	1507EST			0	0			Hail (0.75)
		3/4 inch hail fell along I 64 in eastern Crawford county. 2 inches of hail covered the ground							

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	Damage Property	Crops	

INDIANA, South Central

Crawford County

East Portion	28	1530EST			0	0			Flash Flood
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Roads were covered with water across much of eastern Crawford county

Jefferson County

Dupont to 2 NE Dupont	09	0256EST 0300EST	2	100	0	0	100K		Tornado (F2)
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A tornado touched down in Dupont taking the roof off and structurally damaging one home. The storm also damaged to a lesser extent several homes and barns along its path. The storm then intensified as it moved into Jennings county.

INDIANA, Southeast

Ripley County

6 SW Rexville to Olean	09	0305EST 0322EST	15	450	0	2	1.4M		Tornado (F3)
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A tornado moved into Jefferson Proving Grounds from Jennings county and moved northeast across the county. Four mobile homes were destroyed and 4 were damaged. One house was destroyed while 8 had heavy damage and 20 minor damage. Twenty-one barns were destroyed, 6 had heavy damage, and 14 received minor damage. Seventeen outbuildings were destroyed while 4 had heavy damage and 11 minor damage. Four vehicles received major damage and 3 had minor damage. Five pieces of farm equipment were destroyed while 4 incurred major damage. Seven livestock were lost with 2 being killed and 2 injured. Trees were also downed in the path.

Dearborn County

2 W Aurora to 1 W Aurora	09	0344EST 0347EST	1	50	0	0	250K		Tornado (F0)
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A small barn was totally destroyed, a 40 foot silo was damaged and several trees were downed. Four homes were heavily damaged in rural Dillsboro.

Wayne County

Richmond	09	0344EST 0350EST			0	0	200K		Thunderstorm Wind (G60)
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Six homes were damaged on the south side of Richmond. Also, a barn was reported blown over and several trees were knocked down.

INDIANA, Southwest

Pike County

Winslow	09	0051CST			0	0			Thunderstorm Wind (G52)
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Gibson County

Ft Branch to 3 NE Princeton	27	1844CST 1900CST			0	0			Hail (1.75)
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Large hail pelted the Princeton area for about 15 minutes. Hail up to the size of golf balls was reported just south of Princeton. Hail covered State Route 65 a few miles northeast of Princeton. Dime sized hail fell in Fort Branch.

Pike County

Winslow to 6 ENE Winslow	27	1956CST 2015CST			0	0			Hail (0.88)
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Dime to nickel size hail was reported by spotters.

IOWA, Central

Taylor County

5 SW Bedford to 3 SSW Bedford	05	1502CST 1510CST	3	25	0	0	100K		Tornado (F1)
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very intermittent track

Taylor County

4 N Bedford	05	1523CST			0	0	2K		Thunderstorm Wind (G56)
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Taylor County

3 S Lenox	05	1528CST	0.2	20	0	0	2K		Tornado (F0)
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Adams County

Prescott	05	1550CST			0	0	1K		Thunderstorm Wind (G52)
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Warren County

1 W New Virginia	05	1644CST	0.2	20	0	0	1K		Tornado (F0)
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Warren County

5 W Indianola	05	1702CST			0	0	1K		Thunderstorm Wind (G52)
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An intense low pressure system moved out of the Rockies and intensified over Kansas before lifting northeast into western Iowa during the evening of the 5th. The system was very similar to the tornado outbreak of 27 May 1995 with the exception that this system did not have as much deep moisture to work with. A tropospheric fold was noted in the upper air analysis on the morning

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	

IOWA, Central

of the 5th over Oklahoma. This helped intensify the system during the day. As the upper low lifted northeast, it took on a negative tilt. A strong mid level jet streak formed with wind speeds of 100 knots observed at 500 mb on the Lathrop, MO wind profiler. Earlier in the day a round of non severe convection moved across Iowa. Late in the afternoon a line of thunderstorms fired up over southeast Nebraska into northwest Missouri. The storms raced north at speeds of up to 80 knots at times. This event was a low topped convection event. The first tornado reports came during the early afternoon hours over southeast Nebraska. By mid afternoon the line pushed into southwest Iowa. Several small spin up tornadoes were reported. The strongest tornado occurred in Taylor County. It touched down briefly twice southwest of Bedford along Highway 148. This tornado had an intermittent track for about 3 miles. Once the tornado weakened, the storms produced high winds farther to the northeast. Four miles north of Bedford, damage was reported on a farmstead there. The storms continued to move north and brought high winds to Prescott, in Adams County. A bit later, another cell spawned a brief tornado touchdown south of Lenox, also in Taylor County. Damage estimates from Taylor County showed in excess of \$10,000 damage occurred on 6 farmsteads. Most of the damage was done to outbuildings, however a few barns were damaged as well. About an hour later the same line of storms was moving through Warren County. Gusty winds were reported with it as well as a brief tornado touchdown west of New Virginia. Some minor wind damage occurred west of Indianola, in Warren County, before the storms weakened with the loss of daytime heating.

Warren County

Indianola 08 0734CST 0 0 3K Hail (0.88)

Warren County

New Virginia 08 0744CST 0 0 3K Hail (0.88)

Marion County

Knoxville 08 0810CST 0 0 4K Hail (0.88)

Marion County

Pella 08 0825CST 0 0 1K Hail (0.88)

Mahaska County

6 S Barnes City 08 0900CST 0 0 4K Hail (1.00)

A strong low pressure system developed to the southwest of Iowa. To the east of the low, a warm front extended east across northern Missouri. Very strong southerly winds of 60 knots or greater developed overnight and impinged on the warm front. The result was a large area of elevated convection. The thunderstorms raced northeast across the state. Though most of them did little more than produce gusty winds, pea to marble size hail, and very heavy rain, one of the cells did become severe. The cell turned right about 45 degrees to the flow and dropped a swath of hail across south central into southeast Iowa. Though most of the hail was one half to one inch in diameter, it accumulated to a depth of two to three inches over parts of Warren and Marion Counties. Damage was minor since the spring crops were not yet in the ground.

Dallas County

5 E Minburn 08 1030CST 0 0 5K Hail (1.75)

Adair County

5 N Greenfield 08 1045CST 0 0 1K Hail (0.75)

Guthrie County

Bagley 08 1050CST 0 0 10K Hail (1.75)

Dallas County

Woodward 08 1055CST 0 0 10K Hail (1.50)

Dallas County

Minburn 08 1057CST 0 0 1K Hail (0.75)

Boone County

5 SW Boone 08 1100CST 0 0 1K Hail (0.75)

Guthrie County

Jamaica 08 1100CST 0 0 1K Hail (0.75)

Greene County

5 SW Jefferson 08 1103CST 0 0 1K Hail (1.00)

Greene County

Jefferson 08 1110CST 0 0 5K Hail (1.00)

Greene County

Grand Jet 08 1111CST 0 0 15K Thunderstorm Wind (G52)

Dallas County

3 N Adel 08 1147CST 0 0 2K Hail (0.88)

Marshall County

1 S Melbourne 08 1154CST 0 0 2K Hail (0.88)

Dallas County

Woodward 08 1202CST 0 0 4K Hail (1.00)

Storm Data and Unusual Weather Phenomena

April 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									
Marshall County									
Melbourne	08	1202CST			0	0	4K		Hail (0.88)
Dallas County									
4 W Granger	08	1211CST			0	0	5K		Hail (1.75)
Story County									
Ames	08	1226CST			0	0	3K		Hail (0.75)
Boone County									
Sheldahl	08	1232CST			0	0	3K		Thunderstorm Wind (G52)
Story County									
Slater to 2 NE Slater	08	1233CST 1237CST	2	75	0	2	800K		Tornado (F1)
Story County									
1 NE Slater	08	1235CST			0	0	10K		Thunderstorm Wind (G61)
Story County									
5 N Ames	08	1244CST			0	0	4K		Hail (1.00)
Hamilton County									
Jewell	08	1338CST			0	0	2K		Thunderstorm Wind (G52)
Hardin County									
5 S New Providence	08	1348CST			0	0	5K		Thunderstorm Wind (G61)
Taylor County									
8.5 N New Market to 11 N New Market	08	1354CST 1357CST	3	500	0	0	500K		Tornado (F2)
Adams County									
3 S Nodaway to 4 NW Mt Etna	08	1357CST 1416CST	18	1000	0	1	1M		Tornado (F4)
Cass County									
6.5 S Massena to 4 E Massena	08	1416CST 1423CST	7.5	1000	0	0	186K		Tornado (F3)
Adair County									
1.5 W Bridgewater to 13 N Greenfield	08	1423CST 1440CST	20.5	1500	0	2	1M		Tornado (F4)
Adair County									
4 NW Fontanelle	08	1425CST			0	0	7K		Lightning
Ringgold County									
2 NE Mt Ayr	08	1430CST			0	0	75K		Thunderstorm Wind (G70)
Black Hawk County									
3 S Waterloo	08	1438CST			0	0	2K		Hail (0.75)
Ringgold County									
2 W Beaconsfield	08	1440CST			0	0	2K		Thunderstorm Wind (G56)
Grundy County									
4 NE Wellsburg	08	1446CST			0	0	1K		Hail (0.75)
Union County									
4 SE Creston to 8.5 N Afton	08	1448CST 1504CST	12.5	1500	0	1	2M		Tornado (F4)
Madison County									
4 SW Macksburg to 11.5 N Winterset	08	1504CST 1535CST	24.5	1250	0	0	350K		Tornado (F2)
Dallas County									
1 W De Soto	08	1520CST			0	0	10K		Thunderstorm Wind (G65)
Dallas County									
1 S De Soto to 2 W Granger	08	1535CST 1600CST	19	1000	0	0	40K		Tornado (F3)

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	
IOWA, Central									
Dallas County									
Adel	08	1537CST			0	0	20K		Thunderstorm Wind (G70)
Polk County									
Des Moines	08	1600CST	0.2	30	0	0	43K		Tornado (F0)
Warren County									
1 W New Virginia to 1 W Carlisle	08	1613CST 1640CST	25	100	0	0	75K		Tornado (F2)
			very intermittent track in rural areas						
Dallas County									
3 ESE Waukee	08	1618CST			0	0	2K		Hail (0.88)
Lucas County									
4 NW Lucas to 8 N Lucas	08	1618CST 1625CST	4.5	120	0	4	250K		Tornado (F3)
Warren County									
3 S Liberty Center to 5 NE Hartford	08	1625CST 1645CST	22.5	150	0	0	70K		Tornado (F2)
			intermittent track						
Appanoose County									
.5 W Moravia	08	1635CST			0	0	75K		Thunderstorm Wind (G70)
Polk County									
12.5 W Runnells to 6.5 NW Runnells	08	1640CST 1650CST	7	75	0	0	50K		Tornado (F1)
			intermittent track						
Marion County									
3 NW Swan	08	1645CST 1646CST	1	100	0	0	50K		Tornado (F1)
Jasper County									
7.5 SW Prairie City to Colfax	08	1646CST 1658CST	11	175	0	1	1M		Tornado (F2)
			broken track						
Story County									
1 E Story City	08	1705CST			0	1	40K		Thunderstorm Wind (G65)
Davis County									
Bloomfield to 11 NE Bloomfield	08	1715CST 1728CST	11	400	0	0	550K		Tornado (F3)
Wapello County									
7 S Agency to 2 NW Eldon	08	1728CST 1734CST	5	200	0	0	100K		Tornado (F2)
Hamilton County									
1.5 S Ellsworth	08	1730CST			0	4	20K		Thunderstorm Wind (G61)
Cerro Gordo County									
Rockwell	08	1900CST			0	0	45K		Thunderstorm Wind (G61)

As mentioned in the narrative above, an intense low pressure formed to the southwest of Iowa. The low tracked northeast and lifted into eastern Nebraska. Ahead of the low, a strong low level jet of around 60 knots continued through the day. A nearly stationary frontal boundary extended east from the low. It lifted into southeast Nebraska during the day, but made little progress into southern Iowa. Lines of thunderstorms formed along the boundary through the day and lifted north rapidly. These storms were elevated in nature and as a result produced most of their severe weather in the form of hail. As the day unfolded, a sharp dry line was clearly evident on the satellite as early as 1600 UTC across Kansas. This line raced east during the day. By afternoon, a speed max had rotated around the upper low to the southwest with wind speeds measured by the Lathrop wind profiler at 100 knots at 500 mb by mid afternoon. Jet stream winds were in excess of 120 knots at the same time. Combined with the dynamic situation mentioned above, considerable moisture convergence took place near the triple point between the warm front and the dry line. Surface dew points pooled into to the mid 60s to even a few 70 degree F. dew point readings over northwest Missouri, southeast Nebraska, and southwest Iowa. Meanwhile, dew points fell into the upper 20s over northeast Kansas and south central Nebraska behind the dry line, with teens over central and south central Kansas. Thunderstorms erupted along the dry line by mid day and advanced east through the afternoon. Low level helicity values topped out between 500 and 600 (m/s)**2 just before the first tornadoes formed. Most of the storms in the warm sector became tornadic quickly. The northern limit of the tornado tracks

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	

IOWA, Central

extended about 10 miles or so north of the warm front. Tracks became intermittent very quickly as soon as the storms crossed the surface warm front due to the layer of very cold air just north of the front. Surface temperatures on the cold side of the front were only in the upper 40s to mid 50s. The entire day was very active. Initially, warm air advection thunderstorms produced hail at many locations of central and northern Iowa. Most of it was just below severe levels however. The activity that developed during the afternoon was a combination of warm air advection and the approach of the dryline. At the beginning of the event, the main weather feature was in the form of hail. There were numerous reports of hail three quarters to one and three quarters inch in diameter. The largest hail fell in Guthrie and Dallas Counties with reports of golf ball size hail. One of the storms in the initial wave of afternoon activity became stronger as it moved into southern Story County. Initially, high winds of 60 MPH or more swept through Sheldahl area of Boone County. Greene County was also affected by high winds from the storms. A tornado dropped out of the storm as it moved into the Slater area and was on the ground for about 2 miles. Initial estimates showed 44 homes and businesses damaged in Story County, one was destroyed with major damage to another. Thirty six homes and four businesses were damaged in the town of Slater. Two people were injured during the passage of the tornado. One of the injuries involved a 70 year old man who was picked up by the tornadoes winds and thrown about 10 feet before he latched on to something. His shoulder was dislocated and he required 6 stitches due to his injuries in his hand. High winds northeast of Slater knocked several cars of a Burlington Northern freight train off the tracks after they were blown more than one quarter mile down the track. It was not possible to determine if the cars were knocked off by the tornado or high winds however. This band of storms continue to race and develop northeast through the afternoon. Damage became more sporadic, however high winds occurred as far northeast as Hardin County, with 70 MPH winds reported near New Providence. Hail reports came in from as far northeast as Grundy and Black Hawk Counties, though it was only three quarters of an inch in diameter. Attention then shifted to the tornadic storms that formed near the dry line. During the afternoon, six more tornadoes touched down in Iowa, several of which were long track tornadoes. The first touched down in Taylor County and tracked through Adams, Cass, and Adair Counties. This tornado had was an F4 intensity tornado in parts of Adair and Adams Counties. Damage was extensive with \$1,000,000 damage reported in both Adams and Adair Counties. Entire farmsteads were swept clean by the tornado. At one time this tornado was a mile wide wedge with a damage path nearly two miles wide due to the circulation around the tornado. Eyewitness reports indicated that the tornado split into two distinct tornadoes at times, similar to what occurred with the intense F4 tornado in Adair County of 27 May 1995. One of the farmsteads hit near Nodaway was levelled. Reports indicated that a check was blown from the house nearly 100 miles and was found in the town of Jefferson in Greene County. Other checks and papers were found strewn along the path, stretching from Jefferson all the way back to northwest Taylor County. In Adair County, one account indicated pieces of sheet metal from one farm was lifted and deposited six miles away from the farm. Two people were injured by this tornado, one in Adams County with the other in Adair County. One of the injuries Adair County was serious as a man suffered a broken back when the tornado lifted his semi-tractor/trailer truck from the Interstate and threw it into a nearby field. The other injuries from this tornado were minor enough that the people were taken to the hospital, treated, and released. There was one account of a horse being picked up by the tornado. It was lifted into the air and thrown through a stand of pine trees 40 feet high. The horse suffered serious injuries and required significant medical attention do to lacerations. The horse amazingly did survive against all odds, though was said would likely lose sight in one eye. The next tornado touched down in Union County and tracked across Madison and Dallas Counties. This tornado had an F4 strength in Union and decreased to a strong F2 in Madison Counties before intensifying again to near F3 strength as it headed into Dallas County. Damage in Union County was around \$2,000,000, and around \$350,000 in Madison County. There was one person injured by this tornado in Union County. In an amazing account, the Union County Sheriff reported watching as the tornado lifted the car in front of him 35 feet in the air and throwing it 250 feet. The driver was inside during this time and came out of the situation uninjured. Five coal cars were knocked off the tracks in Union County by the tornado as well. This tornado also had a double structure. From eye witness accounts, which also can be shown on Doppler radar imagery, suggest a small rope like tornado passed through the Twelve Mile Lake area shortly before the passage of the main tornado. The next tornado was a weak tornado which touched down about 4 miles west of downtown Des Moines. The tornado did little damage, but did affect one house and several trees. The tornado was seen by a local television sky camera. A short time later, an F2 tornado touched down in Warren County and tracked into southeast Polk County. The track was over rural areas and damage from it was relatively minor. A more significant F3 tornado tracked from northern Lucas County, and weakened to an F2 as it moved across Warren, part of marion, and into Jasper County. One house was destroyed in Lucas County with the four people inside sustaining minor injuries. Once again, this tornado tracked across mostly rural areas, though it did hit a business and two homes in Jasper County and did \$1,000,000 in damage. One person was injured in Jasper County. The last tornado touched down in Davis County at Bloomfield and tracked northeast into Wapello County with a maximum strength of F3. Damage in Davis County was over \$500,000 as 64 homes and businesses were damaged in the Bloomfield area. To the northeast, the area of the tornado track was mostly rural and damage was limited to outbuildings for the most part. One farmstead reported severe damage near Floris in Davis County. The house was nearly levelled and several outbuildings were completely destroyed. Parts of the house and outbuildings were found as far as 5 miles away from the farmstead. As the storms moved north, high winds were produced over Story County east of Story City. High winds toppled a tractor semi-trailer truck east of Story City on Interstate 35, injuring the driver. Two cars and a truck were also blown off Interstate 35 in Hamilton County. Four people were injured. Two were taken to the hospital, treated, and released. Two were listed in serious condition, one with a neck fracture, the other with a shoulder fracture. The later incident appeared to be from the rear flank downdraft behind the storm and not the initial gust front. From the preliminary data, 178 homes and business were damaged or destroyed by the tornadic storms as well as countless outbuildings. There were several reports of livestock loss as well. It is truly amazing that there was no loss of life during this event and even more amazing is the fact that the injuries that did occur were all minor. Twenty counties in Iowa experienced serious damage from the storms of the day. Iowa Governor Vilsack declared several counties in Iowa disaster areas. These included Taylor, Union, Adams, and Adair Counties. High winds accompanied the storms as the moved through Appanoose County. A local gas station recorded an 81 MPH wind gust as the storms cut a half mile wide swath of destruction west of

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	

IOWA, Central

Moravia. There were numerous reports of cattle killed by the storms. Some were killed by the tornadoes and flying debris, others by lightning. Reports in Adair County, northwest of Fontanelle indicated about 25 head of cattle were struck by lightning shortly before a tornado moved through that area. As the area of storms that produced the high winds north of Ames in central Iowa moved north, they lost their punch. A few of the storms did remain quite strong however. As the area of thunderstorms moved through Cerro Gordo County, high winds blew down a 60 foot corn crib and did some other damage on a farm near Rockwell.

Boone County

Jordan	03	0545CST				0	0	1K	Lightning
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Early morning thunderstorms moved through Boone County on the morning of the 3rd. Though the storms were not severe, lightning struck a tree outside of a rural Jordan house. The lightning splintered the tree and knocked out the phone, caller ID, and some electrical equipment at the home.

Cerro Gordo County

3 E Mason City	10	1028CST				0	0	0.50K	Hail (0.75)
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Cerro Gordo County

Mason City	10	1032CST				0	0	1K	Hail (0.75)
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Another in a series of upper level low pressure systems moved toward Iowa from the southwest. This system was not as organized as the past couple systems however. Thunderstorms developed over the state in the warm air advection area in advance of the low. Most of the storms were not severe. One cell moved through the Mason City area and dropped dime size hail however. There was enough hail to cover the ground in the city itself.

Crawford County

Ricketts	21	1409CST				0	0		Hail (0.75)
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Crawford County

Schleswig	21	1430CST				0	0	1K	Hail (0.88)
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A strong warm front extended from low pressure over northwest Kansas, east into Missouri during the afternoon of the 21st. Strong warm advection was taking place over Iowa during the day. A thunderstorm complex formed over Nebraska during the morning. This complex moved east during the day and entered western Iowa during the early afternoon hours. The storms weakened as they moved into Iowa and away from the best support aloft. Still, they were able to produce three quarter to nearly one inch diameter hail as they moved over Crawford County.

Decatur County

1 W Van Wert	21	2200CST				0	0	5K	Hail (1.75)
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The warm front mentioned above continued to make slow progress north during the evening. Thunderstorms formed during the early evening hours and continued to intensify as an area of divergence aloft moved toward the area. Many of the storms produced some hail, however most were below several levels. Golf ball size hail pelted Decatur County west of Van Wert as one of the stronger storms moved through.

IAZ004>006-016-023-025>027-033>037-045>046-048>049-058>061-071>073-075-083>086-095

06	1800CST					0	0	210K	Flood
15	2100CST								

After a dry month in March, April turned around and was a wet month across Iowa. The first significant rainfall event took place on the 5th and 6th. Some of the heavier rain included one and one half to two and one half inches of rain over the headwaters of the Des Moines River basin. The rivers in the state were already rising when more heavy rain and severe weather struck the state on the 8th. This led to some significant river rises and minor flooding in central and northern Iowa. The North Raccoon River at Jefferson crested about 2 feet over flood stage on the 9th. On the East Fork Des Moines River, the stage went above flood at Algona on the 8th and actually remained above flood stage for 3 weeks. Some of the heavier rain on the 8th that contributed to the flooding included 1.28 inches at Des Moines, which was a record for the greatest for the date. Also, at Waterloo, 1.49 inches there was also a 24-hour record for the date as well. The flooding from this event was relatively minor even though it was fairly widespread. By the middle of the month, cooler weather moved in. By the 15th and 16th, snow fell across central and southern Iowa with several inches of accumulation. Snowfall averages for the 1998-99 winter season totalled 36.1 inches for the state, which is about 5 inches above normal.

IAZ004>007-015>017-023>027-033>037-045>046-048>049-058>061-071>072-075-083>086-095

06	1800CST					0	0	210K	Flood
15	2100CST								

Another strong low pressure system moved across Kansas and Missouri on the 21st and 22nd. This system brought moderate to

Storm Data and Unusual Weather Phenomena

April 1999

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

heavy rainfall to the Des Moines HSA. In the overnight hours of 21 April, heavy rains fell in the extreme upper end of the North Raccoon River basin. Radar estimates were inflated by a factor of two on the rainfall amounts, with actual rainfall close to 2 inches. A widespread area of one to one and one half inches fell over much of the rest of the Raccoon River basin. A sharp rise occurred on the north Raccoon at Sac City with the river rising from just over 10 feet to nearly 16 feet in a little over 24 hours. Moderate to heavy rains of one to one and one quarter inch fell on the night of the 21st over portions of the South Skunk and Squaw Creek river basins north of Ames. This caused some sharp within-bank rises on these rivers, but no flood stages were reached. Rainfall on the night of the 22nd was much lighter, especially over areas which received heavy rain the night before. A few heavy showers fell over extreme southern Iowa, primarily over the Chariton and Grand River basins. Moderate within-bank rises were observed on these rivers as a result. Overall statewide precipitation for the month was 6.27 inches, nearly double the normal of 3.16 inches. This was a new record rainfall for the month of April in Iowa. Temperatures averaged 50.8 degrees, slightly above normal and the warmest April since 1991. This round of flooding was more serious than the round that occurred earlier in the month. There were several road closures from time to time, though no serious damage was reported. Much of the flooding was over agricultural lands. Though this was significant, personal property losses were not all that serious.

IOWA, East Central and Southeast

NOT RECEIVED.

IOWA, Northeast

Chickasaw County

New Hampton 02 2157CST 0 0 **Hail (0.75)**

Floyd County

Charles City 02 2243CST 0 0 **Hail (0.75)**

Hail the size of dimes was reported by law enforcement officials as isolated and short-lived severe thunderstorms affected northeast Iowa.

IOWA, Northwest

Ida County

5 N Ida Grove 08 1110CST 0 0 **Hail (1.75)**

Cherokee County

Aurelia 08 1145CST 0 0 **Hail (1.75)**

Ida County

5 SE Ida Grove 21 1425CST 0 0 **Hail (1.75)**

IOWA, Southwest

Page County

5 NW Essex 08 0520CST 0 0 **Hail (0.75)**

Fremont County

3 NW Imogene 08 0525CST 0 0 **Hail (0.75)**

Montgomery County

6 W Coburg 08 0532CST 0 0 **Hail (0.75)**

Monona County

Mapleton 08 0916CST 0 0 **Hail (0.75)**
Lasted 10 minutes.

Shelby County

Irwin 08 1015CST 0 0 **Hail (0.75)**

Fremont County

7 E Hamburg 08 1308CST 0 40 0 0 **Tornado (F0)**
Brief touchdown.

Pottawattamie County

1 N Honey Creek 08 1318CST
1319CST 0.3 60 0 0 **Tornado (F0)**
Brief touchdown.

Page County

**Shenandoah to
5 NE Shenandoah** 08 1322CST
1329CST 5 70 0 0 10K **Tornado (F1)**
Tornado touched down just northeast of Shenandoah causing minimal damage.

Page County

**College Spgs to
Clarinda** 08 1336CST
1346CST 8 440 0 1 100K **Tornado (F1)**

Of the 12 tornadoes reported over eastern Nebraska and southwest Iowa on 4/8/99, this one produced the only injury, to a woman

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	
<u>IOWA, Southwest</u>									
who suffered minor cuts due to flying glass. The tornado touched down just southwest of College Springs, tracked west of that town and then lifted just southwest of Clarinda. Several houses sustained strong f1 damage including one workshop that was destroyed. Much of the damage was due to flying corrugated steel and wood debris with roofs sustaining the most damage.									
Montgomery County									
3 SSW Red Oak to 5 NE Red Oak	08	1338CST 1345CST	8	60	0	0	45K		Tornado (F1)
This tornado appeared to have been spawned by the same storm that produced the f0 tornado to its south. This storm damaged a pig farm where several metal buildings were destroyed. An RV was overturned and pushed into a small A frame house destroying it.									
Page County									
2 NE Clarinda to 4 NE Hepburn	08	1348CST 1400CST	9	100	0	0	20K		Tornado (F1)
This tornado continued into Adams county Iowa and was one of the longer tracked tornadoes of the tornado outbreak over eastern Nebraska and Iowa on 4/8/99. In Page county damage was relatively minor, however much stronger damage was reported farther to the northeast.									
Montgomery County									
1 S Villisca to 4 NE Villisca	08	1354CST 1400CST	5	80	0	0	10K		Tornado (F0)
This tornado was apparently the decaying part of a cyclic tornado which produced the long-lived and eventually strong tornado which initially touched down 2 miles northeast of Clarinda, trees and small outbuildings sustained the majority of damage from this tornado.									
Harrison County									
Logan	08	1400CST			0	0			Hail (0.75)
Page County									
College Spgs	05	1400CST			0	0	2K		Thunderstorm Wind (G60)
Windows blown out of a house.									
IAZ090									
Fremont									
	16	0539CST			0	0			Flood
Nishnabotna River briefly reached its 23 foot flood stage in Hamburg.									
<u>KANSAS, East</u>									
Lyon County									
5 NNW Americus	02	1657CST			0	0			Hail (0.75)
Wabaunsee County									
4 ESE Paxico	02	1806CST			0	0			Hail (0.75)
Lyon County									
1 ESE Emporia	02	1855CST			0	0			Hail (0.75)
Lyon County									
3 NE Emporia	02	1903CST			0	0			Hail (1.00)
Severe thunderstorms moved southeast across east central Kansas during the early evening hours and produced several reports of large hail.									
Morris County									
Dunlap	05	0855CST			0	0			Thunderstorm Wind (G52)
KSZ054									
Lyon									
	05	1100CST			0	0			High Wind (G47)
Strong gradient winds overturned a trailer and mini-van on Interstate 35 near Emporia.									
Marshall County									
Blue Rapids	05	1230CST			0	0			Thunderstorm Wind (G55)
Marshall County									
3 NE Marysville to 1 S Oketo	05	1230CST 1240CST	5	80	0	0	60K		Tornado (F0)
A small tornado moved north from near Marysville to near Oketo damaging several farm homes and out buildings.									
Marshall County									
4 E Marysville	05	1245CST			0	0	3K		Thunderstorm Wind (G55)
Thunderstorm winds destroyed a hog shed and several feeders.									
Nemaha County									
4 W Seneca to 4 WNW Seneca	05	1249CST 1252CST	1	80	0	1	100K		Tornado (F1)
A small tornado struck near Seneca and damaged a few farm homes and out buildings. One person was injured.									

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	
<u>KANSAS, East</u>									
Brown County									
3 S Fairview to 1 E Fairview	05	1255CST 1302CST			0	0	150K		Thunderstorm Wind (G65)
Marshall County									
6 SE Marysville	05	1300CST			0	0	2K		Thunderstorm Wind (G65)
A roof was blown off a trailer.									
Marshall County									
4 NNE Marysville	05	1300CST			0	0	5K		Thunderstorm Wind (G55)
A large machine shed and combine were destroyed near Marysville.									
Marshall County									
Oketo	05	1300CST			0	0	2K		Thunderstorm Wind (G50)
Two barns and a shed suffered wind damage near Oketo.									
Nemaha County									
4 S Centralia	05	1300CST			0	0	50K		Thunderstorm Wind (G70)
Strong winds damaged 3 to 4 houses near Centralia.									
Nemaha County									
5 E Seneca to 3 ENE Sabetha	05	1312CST 1328CST	10	100	0	0	350K		Tornado (F1)
A tornado touched down 5 miles east of Seneca and moved northeast for about 10 miles. Considerable damage occurred to 6 farm buildings. Twelve hogs were killed.									
Nemaha County									
5 NW Sabetha	05	1315CST			0	0	40K		Thunderstorm Wind (G70)
Several barns were blown down and doors on tin sheds were damaged.									
Brown County									
10 N Hiawatha	05	1340CST	0.1	100	0	0			Tornado (F0)
The storm that earlier produced a tornado near Fairview moved northeast and spawned another touchdown north of Hiawatha.									
KSZ008>012-020>024-026-034>040-054>056-058>059									
Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson - Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin - Coffey - Anderson									
	08	0600CST			0	0	4K		High Wind (G47)
	09	2000CST							
An intense low pressure system moved across the Central Plains and produced strong winds over the area for about 36 hours. Numerous trees and power lines were blown over or damaged. A small metal shed was overturned in Herington. Shingles were torn off the roof of a house in Manhattan while another house there had part of the roof blown off.									
KSZ008>012-020>024-026-034>040-054>056-058>059									
Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson - Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin - Coffey - Anderson									
	14	1200CST			0	0	5K		High Wind (G47)
	15	0400CST							
Another intense low pressure system moved across the Central Plains and produced another round of high winds over the area. In Abilene a steel covering was blown off its moorings onto gas pumps at a service station, a large antenna was blown onto a garage, and the roof was stripped from a business damaging a vehicle. Minor damage also occurred in the town of Washington when strong winds blew down a tree which landed on the roofs of 2 houses.									
KSZ054-058									
Lyon - Coffey									
	15	0500CST			0	0			Flood
	18	1800CST							
The previously mentioned storm system brought heavy rains of 2 to 4 inches to some areas of northeast and east central Kansas and sent several rivers out of their banks producing mostly agricultural and low land flooding. The Cottonwood River near Emporia crested at 24.2 feet at 0800 on the 16th. Flood stage is 20 feet. The Neosho River near Emporia crested at 22.2 feet at 2100 on the 15th. Flood stage is 19 feet. At Neosho Rapids the Neosho River crested at 25.2 feet at 1500 on the 16th. Flood stage is 22 feet.									
Pottawatomie County									
6 SW Westmoreland	21	1825CST			0	0			Hail (1.75)
Pottawatomie County									
5 SW Westmoreland	21	1835CST			0	0			Hail (0.88)

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	
<u>KANSAS, East</u>									
Lyon County									
7 W Emporia	21	1930CST			0	0			Hail (0.75)
Pottawatomie County									
1 W Onaga	21	1935CST			0	0			Hail (0.75)
Lyon County									
Emporia	21	2000CST 2100CST			0	0			Heavy Rain
Runoff from heavy downpours caused local street flooding in Emporia and resulted in 9 reports of disabled vehicles.									
Douglas County									
Lawrence	22	1100CST			0	0			Lightning
Lightning struck in Lawrence and caused power outages for a time to about 100 customers of KPL.									
Douglas County									
Lawrence	22	1100CST 1500CST			0	0			Urban/Sml Stream Fld
Jefferson County									
Williamstown	22	1100CST 1500CST			0	0			Urban/Sml Stream Fld
Heavy downpours resulted in rainfall of two to 3 inches in a short time and caused small creeks and streams to flood in and around Lawrence. Several roads were closed for a time and street flooding occurred in Lawrence as well.									
KSZ054>055									
Lyon - Osage									
	22	1400CST			0	0			Flood
	24	1600CST							
Runoff from one to 3 inch rains on wet soil caused some minor agricultural flooding in east central Kansas when several rivers rose above flood stage for several days . The Cottonwood River near Emporia where flood stage is 20 feet crested at 21.1 feet on the 23rd at 1200. The Neosho River at Neosho Rapids where flood stage is 22 feet crested at 23.5 feet on the 23rd at 2300. Salt Creek at Lyndon where flood stage is 10 feet crested at 11.7 feet on the 22nd at 1600.									
KSZ021>024-026-038>040-054									
Clay - Riley - Pottawatomie - Jackson - Jefferson - Wabaunsee - Shawnee - Douglas - Lyon									
	26	0600CST			0	0			Flood
	29	2200CST							
Runoff from yet another round of locally heavy rains on wet soil conditions caused some rivers to go a little above flood stage for a few days. The Kansas River was at or just over flood stage in many areas from Manhattan to Lawrence which caused some minor flooding of low lands and loy-lying roads near the river.									
<u>KANSAS, Extreme Southeast</u>									
Cherokee County									
5 NE Columbus	03	0510CST	0.1	100	0	0	100K		Tornado (F1)
A short lived F1 tornado damaged three homes, one severely.									
Bourbon County									
Countywide	25	1145CST 1500CST			0	0			Flash Flood
Crawford County									
Countywide	25	1145CST 1500CST			0	0			Flash Flood
Cherokee County									
Countywide	25	1315CST 1500CST			0	0			Flash Flood
Thunderstorms produced heavy rain and flooding over extreme southeast Kansas. Portions of Baxter Springs in Cherokee County required a brief evacuation due to rapidly rising water.									
Cherokee County									
Countywide	26 27	1330CST 0600CST			0	0			Flood
Crawford County									
Countywide	26 27	1330CST 0600CST			0	0			Flood
Bourbon County									
Countywide	26 27	1700CST 0600CST			0	0			Flood
Thunderstorms produced heavy rain and flooding of creeks and other low lying areas.									

Storm Data and Unusual Weather Phenomena

April 1999

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

NONE REPORTED.

KANSAS, Northeast

Johnson County

Gardner Arpt	03	0544CST			0	0			Thunderstorm Wind (G61)
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Johnson County

Spring Hill	03	0545CST			0	0			Thunderstorm Wind (G60)
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Public reports were received of an 18-inch diameter evergreen tree downed, and other tree damage. Also, lawn furniture was thrown up into trees by thunderstorm winds.

KSZ025-057-060-103>104 Atchison - Miami - Linn - Leavenworth - Wyandotte

15	0000CST				0	0			Flood
19	2359CST								

A two-day rain event on April 13-14 dropped up to 3 inches of rain across parts of eastern Kansas. The resulting runoff caused extensive minor to moderate flooding along several creeks and rivers in far eastern Kansas, including the Missouri at Atchison and Leavenworth, the Kansas River in Kansas City, KS, the Delaware River at Muscotah, Stranger Creek at Easton and Tonganoxie, and the Marais des Cygnes at Osawatomie, La Cygne, and Trading Post. Flooding began on the 15th, and ended between April 17 and 19 in most of the affected locations.

KSZ025-057-060-103>104 Atchison - Miami - Linn - Leavenworth - Wyandotte

27	0000CST				0	0			Flood
30	2359CST								

The third heavy rain event of the month produced upwards of 2 inches of rain in and just south of the Kansas City metro area on April 26, and resulted in minor to moderate river flooding on the Missouri at Atchison and Leavenworth, Stranger Creek at Easton and Tonganoxie, the Delaware River near Muscotah, the Marais des Cygnes at Osawatomie, La Cygne, and Trading Post, and the Kansas River in Kansas City, KS. Flooding began on April 27, and ended at most of the affected sites on the 28th and 29th. Flooding at LaCygne and Trading Post continued into May.

Johnson County

Countywide	22	1100CST 1700CST			0	0	25K		Urban/Sml Stream Fld
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Wyandotte County

Countywide	22	1100CST 1700CST			0	0	25K		Urban/Sml Stream Fld
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Thunderstorms on April 22 produced up to 1.55 inches of rain in approximately two hours across portions of the Kansas City metro area. New Century Aircenter (near Gardner) reported a storm total rainfall of 1.99 inches, which included 1.32 inches in less than 3 hours. Emergency managers reported several road closings due to high water in Kansas City, Kansas, and widespread reports of street flooding were received. Newspapers also reported minor property damage from the flood waters in the metro area.

KSZ103

Leavenworth

22	1200CST				0	0			Flood
23	2359CST								

Heavy rainfall in and near the Kansas City metro area on April 22 sent Stranger Creek near Tonganoxie above flood stage. The stream fell below flood stage on April 23.

KANSAS, Northwest

KSZ001>004-013>016-027>029-041>042 Cheyenne - Rawlins - Decatur - Norton - Sherman - Thomas - Sheridan - Graham - Wallace - Logan - Gove - Greeley - Wichita

08	0700CST				0	0			High Wind (G82)
10	1800CST								

A strong area of low pressure across the central US in combination with high pressure across the Rockies brought high winds to Northwest Kansas for a three day period. These strong winds caused damage to a couple of schools, a local Post Office, several power line poles to be severed, and numerous houses had their shingles torn off. Goodland Weather Office had a peak wind speed of 71 mph on the 8th with many other locations receiving similar peak wind speeds during the event.

Greeley County

20 SW Tribune	25	1550MST 1610MST			0	0			Hail (1.00)
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Over 20 minute period, hail accumulated to 6 inch depth.

Greeley County

2 E Tribune	25	1635MST			0	0			Hail (0.75)
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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	
<u>KANSAS, Northwest</u>									
Greeley County									
5 NE Tribune	25	1650MST			0	0			Hail (0.75)
Wichita County									
7 N Selkirk	25	1755CST 1815CST			0	0			Hail (0.88)
Hail completely covered ground.									
Wichita County									
12 N Leoti	25	1822CST			0	0			Hail (1.00)
Logan County									
13 S Russell Spgs	25	1830CST			0	0			Hail (0.88)
Gove County									
16 SE Gove	25	2010CST			0	0			Hail (0.75)
Thomas County									
7 SE Mingo	25	2015CST			0	0			Thunderstorm Wind (G60)
Strong winds blew windows out of house.									
Gove County									
Quinter	25	2040CST			0	0			Hail (0.75)
<u>KANSAS, Southeast</u>									
Butler County									
2 W Leon	02	1534CST			0	0			Hail (1.00)
Butler County									
5 SW El Dorado	02	1538CST			0	0			Hail (1.75)
Butler County									
5 N El Dorado	02	1543CST			0	0			Hail (0.88)
Greenwood County									
Eureka	02	1545CST			0	0			Hail (0.88)
Greenwood County									
2 NW Eureka	02	1554CST			0	0			Hail (0.75)
Greenwood County									
1 S Climax	02	1606CST			0	0	10K		Thunderstorm Wind (G70)
Roof blown off house. Numerous tree limbs blown down.									
Greenwood County									
2 W Madison	02	1650CST			0	0			Hail (0.75)
Hail occurred at Godfrey Airport.									
Cowley County									
6 E Arkansas City	02	2300CST 2359CST			0	0	30K		Lightning
Lightning struck a home, setting it ablaze.									
Harper County									
Waldron	03	0150CST			0	0	50K		Thunderstorm Wind (G78)
At one farmstead, a roundtop was blown off it's foundation and demolished. Part of the roundtop stuck into a silo located immediately north of where roundtop had been positioned.									
Sumner County									
Geuda Spgs	03	0231CST 2031CST			0	0			Thunderstorm Wind (G61)
Cowley County									
2 S Winfield	03	0238CST			0	0			Thunderstorm Wind (G51)
Cowley County									
2 SE Winfield	03	0240CST			0	0	300K		Thunderstorm Wind (G52)
Rubbermaid plant lost 100 feet of roofing.									
Cowley County									
2 E Winfield	03	0245CST			0	2	250K		Thunderstorm Wind (G52)
In southeast Winfield, one barn was blown off it's foundation, slamming into the west wall of a home. One couple sustained minor injuries due to broken glass. Three other barns also sustained damage. A second house, 9 miles southeast of Winfield, sustained damage to siding. In addition, seven mobile homes sustained damage including one that was destroyed.									

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, Southeast</u>									
Cowley County									
Dexter	03	0255CST			0	0			Thunderstorm Wind (G61)
Kingman County									
Cunningham	03	2023CST			0	0			Hail (0.75)
Harper County									
Corwin	05	0324CST			0	0			Hail (0.75)
Harper County									
Corwin	05	0324CST			0	0			Thunderstorm Wind (G52)
Harper County									
2 S Duquoin to 1 E Duquoin	05	0345CST 0400CST	2	167	0	0	25K		Tornado (F0)
Weak tornado, embedded in strong downburst winds, inflicted damage to one double-wide home. Damage was mainly to the roof and due to tree limb impalement to west side of house. One shed was also damaged.									
Harper County									
Duquoin	05	0414CST			0	0	2.5K		Thunderstorm Wind (G52)
The roof was torn off a carport and a windmill was blown over.									
Harvey County									
Burrton	05	0543CST			0	0	1K		Lightning
Lightning struck a house, inflicting minor wall damage.									
Harvey County									
Newton	05	0600CST			0	0	10K		Lightning
Lightning struck a house, setting fire to the attic.									
Sedgwick County									
1 S Andale to 1 E Andale	05	0610CST 0615CST	2	350	0	0	100K		Tornado (F0)
Weak tornado, embedded in strong downburst winds, inflicted minor damage to 3 houses, 1 silo, 1 trailer and to numerous trees.									
Sedgwick County									
Wichita	05	0614CST			0	0			Hail (1.75)
Sedgwick County									
Wichita	05	0615CST			0	0			Hail (0.88)
Sedgwick County									
Wichita	05	0615CST			0	0	5K		Thunderstorm Wind (G70)
Garage door caved in and shingles blown off numerous roofs.									
Sedgwick County									
Wichita	05	0630CST			0	0	2.5K		Thunderstorm Wind (G56)
Shingles blown off roofs and 2-inch diameter tree limbs blown down.									
Sedgwick County									
Wichita	05	0638CST			0	0			Thunderstorm Wind (G50)
Occurred at McConnell Air Force Base.									
Sedgwick County									
Wichita	05	0640CST 0645CST	2	50	0	0	2M		Tornado (F0)
The weak tornado formed along the gust front of a downburst in East Wichita. Initial touchdown occurred just west of the East Harry/South Oliver intersection. The tornado moved northeast to the Kellogg/Oliver intersection, then almost due north to just east of the Central/Oliver intersection where it lifted. The tornado inflicted extensive tree damage, destroyed two portable grade school classrooms, caved in the ceiling of a supermarket, and caused extensive roof damage to homes and businesses.									
Sedgwick County									
Wichita	05	0642CST			0	0			Thunderstorm Wind (G56)
Occurred at Brooks Middle School, E. 27th St.									
Sedgwick County									
Derby	05	0655CST			0	0			Thunderstorm Wind (G50)
Occurred at St. Mary's Elementary.									
Butler County									
Potwin	05	0700CST			0	0			Thunderstorm Wind (G52)
Occurred at K-196 and Meadowlark Rd.									
Butler County									
El Dorado	05	0753CST			0	0			Hail (1.00)

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	
<u>KANSAS, Southeast</u>									
Butler County									
El Dorado	05	0753CST			0	0			Thunderstorm Wind (G61)
KSZ032>033-047>051 Russell - Lincoln - Barton - Ellsworth - Saline - Rice - Mcpherson									
	08	0900CST 2300CST			0	0	32.5K		High Wind (G63)
Synoptic-scale high winds of 39-53kts with gusts to 63kts ripped across Central Kansas from mid-morning thru late afternoon. The high winds tore the roof off a modular building around 9:30 am at St. Francis Academy, 5 miles west of Salina. Building was unoccupied at time of the event. Tractor-trailers were overturned along I-70 in Saline County. In Russell County, several power poles were blown down causing power outages in and around Russell. Widespread damage to houses, primarily to roofs and gutters, occurred throughout the county.									
KSZ032-047>050-067>068-083 Russell - Barton - Ellsworth - Saline - Rice - Reno - Harvey - Sedgwick									
	14	1200CST 2359CST			0	0	125K		High Wind (G61)
Synoptic-scale high winds of 39-61kts ripped across most of Central Kansas during the afternoon and evening. In Ellsworth County, a tractor-trailer was flipped over on I-70 and a metal shed was blown off it's foundation and tossed across a vacant lot. In Lyons, Central Rice County, a section of framing on the west structure of a construction site was blown over as were numerous trees, power lines and fences. In Saline County, a tractor-trailer was blown over on I-70. Scattered power outages occurred in and around Salina.									
Sustained winds of 39-52kts with gusts to around 61kts whipped across South-Central Kansas later in the evening. In Reno County, downed trees and power lines severed power to approximately 2,000 residents in Hutchinson and overturned 10 tractor-trailers. In Harvey County, one tractor-trailer was flipped over on Highway 50, 1 mile west of Newton. The driver was not injured. Roof damage, though minor in most cases, occurred across much of the region.									
Marion County									
3 E Florence	21	1705CST			0	0			Hail (0.88)
Marion County									
6 E Peabody	21	1716CST			0	0			Hail (0.88)
Marion County									
Florence	21	1730CST			0	0			Hail (1.75)
Marion County									
Florence	21	1808CST			0	0			Hail (0.88)
Chase County									
Clements	21	1837CST 1840CST			0	0			Hail (1.75)
Butler County									
3 S Rose Hill	21	1842CST			0	0			Hail (0.75)
Chase County									
9 SW Cottonwood Falls	21	1854CST			0	0			Hail (0.75)
Sumner County									
Caldwell	21	1855CST			0	0			Hail (1.25)
Sumner County									
Caldwell	21	1859CST			0	0			Hail (1.25)
Chase County									
Cottonwood Falls	21	1903CST			0	0			Hail (1.00)
Sumner County									
Perth	21	1905CST			0	0			Hail (1.00)
Sumner County									
Perth	21	1907CST			0	0			Hail (1.75)
Sedgwick County									
3 E Wichita	21	1917CST			0	0			Hail (1.75)
Butler County									
Andover	21	1919CST			0	0			Hail (0.88)
Butler County									
Andover	21	1921CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Sumner County									
8 W Wellington	21	1925CST			0	0			Hail (1.00)
Chase County									
2 NE Saffordville	21	1927CST			0	0			Hail (1.75)
Butler County									
2 E Towanda	21	1938CST			0	0			Hail (1.00)
Cowley County									
Udall	21	1940CST			0	0			Hail (0.75)
Chase County									
3 SE Cottonwood Falls	21	1947CST			0	0			Hail (0.75)
Butler County									
El Dorado	21	1950CST 1951CST			0	0			Hail (1.00)
Butler County									
3 S Towanda	21	1951CST			0	0			Hail (1.75)
Butler County									
4 E Potwin	21	2014CST			0	0			Hail (1.75)
Butler County									
4 E Potwin	21	2017CST			0	0			Hail (2.75)
Butler County									
8 W Cassoday	21	2025CST			0	0			Hail (1.75)
Butler County									
5 NE El Dorado	21	2037CST			0	0			Hail (1.00)
		Report ed at El Dorado Lake.							
Butler County									
5 SW Cassoday	21	2047CST			0	0	60K		Hail (2.50)
		Tennis ball-sized hail damaged 5 vehicles and inflicted roof damage to several houses.							
Butler County									
5 N El Dorado	21	2047CST			0	0			Hail (1.75)
Sedgwick County									
5 E Wichita	21	2050CST			0	0			Hail (1.00)
Sedgwick County									
8 E Wichita	21	2050CST			0	0			Hail (1.00)
Butler County									
9 E Potwin	21	2052CST			0	0			Hail (1.75)
Sumner County									
Conway Spgs	21	2102CST			0	0			Hail (0.75)
Butler County									
4 E Potwin	21	2115CST 2119CST			0	0			Thunderstorm Wind (G52)
Butler County									
4 E Potwin	21	2119CST			0	0			Hail (1.75)
Butler County									
5 NE El Dorado	21	2141CST			0	0			Hail (0.88)
Labette County									
Parsons	22	0100CST 0135CST			0	0	35K		Lightning
		Lightning struck a single-story, woodframed house, setting it afire. Though the house was a total loss, no one was injured. The lightning strike also damaged an apartment located directly behind the house.							
Montgomery County									
Independence	22	0313CST			0	0			Hail (1.00)
Sumner County									
2 S Oxford	22	0324CST			0	0			Hail (0.75)

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	
<u>KANSAS, Southeast</u>									
Montgomery County									
Coffeyville	22	1430CST 1445CST			0	0	500K		Thunderstorm Wind (G61)
Two aircraft were blown over near Cessna plant.									
Labette County									
1 E Edna	22	1514CST			0	0			Hail (1.00)
Reno County									
Turon	26	1832CST			0	0			Hail (0.88)
Kingman County									
Cunningham	26	1905CST			0	0			Hail (0.75)
Harper County									
4 W Attica	26	2008CST			0	0			Hail (0.75)
Harper County									
5 W Attica	26	2020CST			0	0			Hail (0.75)
Harper County									
12 W Anthony	26	2025CST			0	0			Hail (1.00)
Harper County									
12 W Anthony	26	2025CST			0	0			Thunderstorm Wind (G52)
Harper County									
Waldron	26	2045CST			0	0			Hail (1.00)
<u>KANSAS, Southwest</u>									
Pratt County									
4 NW Preston	03	2003CST			0	0			Hail (0.75)
Pratt County									
Byers	03	2135CST			0	0			Hail (0.75)
Stafford County									
Stafford	03	2245CST			0	0			Hail (0.75)
Comanche County									
10 S Protection	05	0110CST			0	0			Hail (0.75)
Barber County									
Hazelton	05	0325CST			0	0			Hail (1.00)
KSZ030>031-043>046-061>066-074>081-084>090		Trego - Ellis - Scott - Lane - Ness - Rush - Hamilton - Kearny - Finney - Hodgeman - Pawnee - Stafford - Stanton - Grant - Haskell - Gray - Ford - Edwards - Kiowa - Pratt - Morton - Stevens - Seward - Meade - Clark - Comanche - Barber							
	08	1000CST 1800CST			0	0	10K		High Wind (G51)
A strong low pressure center generated a strong southwest to west wind across the area. A roof was blown off the Ogallah post office in Trego county. Stronger winds reported were 59 mph at the Hays airport and 56 mph at the Dodge City airport. Similar speeds were common across the area during the afternoon.									
KSZ030>031-043>046-061>066-074>081-084>090		Trego - Ellis - Scott - Lane - Ness - Rush - Hamilton - Kearny - Finney - Hodgeman - Pawnee - Stafford - Stanton - Grant - Haskell - Gray - Ford - Edwards - Kiowa - Pratt - Morton - Stevens - Seward - Meade - Clark - Comanche - Barber							
	14 15	1700CST 0400CST			0	2	70K		High Wind (G68)
After a strong upper system dumped 1 to 3 inches of rain across a large part of the area, the associated deep cyclone rippled across the area. A tightening gradient and downward mixing of strong winds aloft, brought widespread high wind to the area. There were at least two injuries from the wind blowing vehicles off the road. Numerous overturned tractor trailers littered the area. Large trees were uprooted in many communities and missing shingles reports were quite common.									
Clark County									
11 NE Ashland	22	0735CST			0	0			Hail (1.00)
Comanche County									
9 NW Coldwater	22	0743CST			0	0			Hail (0.75)
Pawnee County									
1 SW Larned	22	0752CST			0	0			Hail (0.75)
Comanche County									
Coldwater	22	0756CST			0	0			Hail (0.75)

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	
<u>KANSAS, Southwest</u>									
Barber County									
10 NE Aetna	22	0830CST			0	0			Hail (0.75)
Hamilton County									
20 NNW Syracuse	25	1601MST			0	0			Thunderstorm Wind (G55)
Scott County									
8 WSW Scott City	25	2040CST			0	0			Hail (1.00)
Scott County									
8 N Scott City	25	2114CST			0	0			Hail (1.00)
Trego County									
2 S Wakeeney	25	2130CST			0	0			Hail (0.75)
Lane County									
10 N Dighton	25	2153CST			0	0			Hail (0.88)
Stevens County									
Moscow	26	1745CST			0	0			Hail (0.75)
Stafford County									
1 NW Zenith	26	1802CST			0	0			Hail (0.75)
Pratt County									
2 N Preston	26	1850CST 1851CST	0.1	50	0	0			Tornado (F0)
Tornado formed out of a low topped supercell.									
Pratt County									
4 SSE Cairo to 10 SSE Cairo	26	1924CST 1942CST	6	75	0	0	3.5K		Tornado (F1)
Tornado that formed from a low topped supercell damaged a gas well and destroyed the head house.									
Pratt County									
12 E Sawyer	26	1940CST			0	0			Hail (1.00)
Barber County									
10 NE Medicine Lodge Arpt to 5 NE Sharon	26	1946CST 1958CST	4.2	50	0	0			Tornado (F0)
Barber County									
5 E Sharon	26	2008CST			0	0			Hail (0.75)
<u>KENTUCKY, Central</u>									
Russell County									
Jamestown	09	0430EST			0	0			Thunderstorm Wind (G50)
Numerous trees down...Power out at WJRS radio station									
Clinton County									
Aaron	09	0435EST			0	0			Thunderstorm Wind (G50)
Trees down									
Butler County									
Morgantown to Banock	10	2315EST			0	0			Hail (0.75)
Dime size hail									
Warren County									
Richardsville	10	2320EST			0	0			Hail (1.75)
Golf ball size hail									
Edmonson County									
1 NE Rocky Hill	10	2338EST			0	0			Hail (0.75)
Dime size hail reported near Barren county line									
Jefferson County									
Highview	28	1435EST 1445EST			0	0			Hail (1.75)
Large hail fell continuously for 10 minutes at the National Weather Service Office. The largest size was 1.75 inches									
Nelson County									
Bloomfield	28	1505EST			0	0			Hail (0.75)

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	
<u>KENTUCKY, Central</u>									
Jefferson County									
Fern Creek	28	1507EST			0	0			Flash Flood
									Roads flooded in Fern creek area
Spencer County									
5 W Taylorsville	28	1510EST 1516EST			0	0			Hail (0.75)
									3/4 inch hail fell in western Spencer county
Jefferson County									
Fern Creek	28	1530EST			0	0			Thunderstorm Wind (G50)
									Trees down
Jefferson County									
Jeffersontown	28	1530EST 1550EST			0	0			Flash Flood
									2 inches of rain fell in 40 minutes causing small streams to flood and flooding several roads
Oldham County									
La Grange	28	1605EST			0	0			Hail (0.75)
Henry County									
Pendleton	28	1620EST			0	0			Hail (1.75)
									Golfball size hail reported in western Henry county
Trimble County									
Providence	28	1620EST			0	0			Hail (1.00)
Trimble County									
Providence	28	1620EST			0	0			Thunderstorm Wind (G50)
									Large trees down
Henry County									
New Castle	28	1625EST			0	0			Hail (1.00)
Henry County									
New Castle	28	1625EST			0	0			Thunderstorm Wind (G50)
									Several trees knocked down.
Hardin County									
Rineyville	28	1700EST			0	0			Hail (0.75)
Hardin County									
Radcliff to Elizabeth Town	28	1735EST 1845EST			0	0			Flash Flood
									Three to four inches of rain fell across northern Hardin county. Many reports of flooding and road closures due to flooding.
<u>KENTUCKY, Eastern</u>									
Floyd County									
Allen	08	1515EST			0	1	25K	0	Thunderstorm Wind
									Winds blew off roofs on homes, collapsed a commercial building and knocked over several billboards. One man was injured by a falling cinder block.
Floyd County									
Allen	08	1515EST			0	0	0	0	Hail (0.75)
Owsley County									
Island City	08	1345EST			0	0	0	0	Hail (1.00)
Lee County									
3 N Beattyville	08	1426EST			0	0	0	0	Hail (0.75)
Menifee County									
Denniston	08	1503EST			0	0	0	0	Hail (0.75)
Floyd County									
Martin	08	1513EST			0	0	0	0	Hail (0.75)
Floyd County									
Banner	08	1510EST			0	0	0	0	Hail (1.00)
Pike County									
Sidney	08	1600EST			0	0	10K	0	Thunderstorm Wind
									Damage to several homes and businesses. Pea sized hail covered the ground up to 3 inches deep.

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	
<u>KENTUCKY, Eastern</u>									
Wayne County									
Monticello	09	0430EST			0	0	0	0	Thunderstorm Wind
		Several trees down.							
Martin County									
Threeforks	23	1305EST			0	0	0	0	Hail (0.88)
Leslie County									
2 N Mozelle	23	1730EST			0	0	0	0	Hail (1.00)
Wolfe County									
Campton	28	1600EST 1900EST			0	0	5K	0	Flash Flood
		Up to 3 inches of rain fell in less than 2 hours in and around the Campton area. A few businesses and homes received minor flood damage. Several families had to be evacuated along Swift Camp Creek near Campton.							
Pulaski County									
Bent	28	1845EST			0	0	0	0	Hail (0.75)
Pulaski County									
15 E Somerset	28	1845EST			0	0	0	0	Hail (0.75)
Pulaski County									
Nancy	28	1925EST			0	0	0	0	Hail (0.75)
Pulaski County									
Piney Grove	28	1930EST			0	0	0	0	Hail (0.88)
Pulaski County									
North Portion	28 29	1900EST 0300EST			0	0	2K	0	Flash Flood
		Heavy rains fell over Northern portions of Pulaski County late Wednesday into early Thursday morning. Several roads were impassable due to flooding. A few empty vehicles were carried away on a local road.							
<u>KENTUCKY, Northeast</u>									
Lawrence County									
Blaine	08	1605EST			0	0	3K		Thunderstorm Wind
		Trees and power lines were knocked down.							
KYZ101>103-105 Greenup - Carter - Boyd - Lawrence									
	16	1300EST 1600EST			0	0			Wind
		Wind gusts of 35 to 45 mph were common, as a low pressure storm system lifted northeast, through northern Indiana.							
<u>KENTUCKY, Northern</u>									
Owen County									
Countywide	09	0430EST 0445EST			0	0	20K		Thunderstorm Wind (G50)
		Trees were knocked down. Scattered power outages were reported across the county.							
Grant County									
Countywide	09	0438EST 0453EST			0	0	10K		Thunderstorm Wind (G50)
		Several trees down across the county.							
Pendleton County									
Countywide	09	0445EST 0455EST			0	0	10K		Thunderstorm Wind (G50)
		Several trees were knocked down across the county.							
<u>KENTUCKY, Southwest</u>									
Henderson County									
Corydon	03	1620CST			0	0			Hail (1.00)
Marshall County									
Calvert City	03	2150CST			0	0			Thunderstorm Wind (G52)
		An off-duty meteorologist clocked 61 MPH winds near the Purchase Parkway exit of Interstate 24.							
Christian County									
Kelly	03	0615CST			0	0			Hail (1.00)
Crittenden County									
Frances	03	2220CST			0	0			Thunderstorm Wind (G50)
		Large tree limbs were blown down.							

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Livingston County									
Tiline	03	2210CST			0	0	4K		Thunderstorm Wind (G50)
A utility pole and some trees were down.									
Trigg County									
2 W Cadiz	05	2000CST			0	0			Thunderstorm Wind (G52)
A few trees were down.									
Fulton County									
Hickman to 5 E Hickman	05	1643CST 1655CST			0	0	20K		Thunderstorm Wind
Trees were down and a roof was blown off a metal building.									
Mccracken County									
3.5 SW (Pah)Barkley Arpt Pa to St Johns	05	1708CST 1709CST			0	0			Thunderstorm Wind (G61)
Wind gusts were estimated near 70 MPH at the intersection of U.S. 62 and Highway 286, about 3 miles southwest of Barkley Airport.									
Hickman County									
Columbus	05	1642CST			0	0			Thunderstorm Wind (G52)
Trees were blown down.									
Crittenden County									
Marion	05	1820CST			0	0			Thunderstorm Wind (G52)
Trigg County									
2 N Cadiz	05	2025CST			0	0	4K		Thunderstorm Wind
Trees were down.									
Christian County									
Crofton	05	2045CST			0	0	10K		Thunderstorm Wind
Numerous trees were blown down, including some which took down power lines.									
Carlisle County									
2 SW Cunningham to 1 NE Cunningham	05	1653CST			0	0	75K		Thunderstorm Wind (G61)
A thunderstorm downburst with winds estimated near 70 MPH produced a 3-mile long damage swath through the Cunningham area. One barn, two sheds, and numerous trees were blown down. A vehicle was damaged by debris. Elsewhere in Carlisle County, ten trees were down in the Bardwell and Berkley communities.									
Ballard County									
Barlow	05	1700CST			0	0	3K		Thunderstorm Wind (G50)
Power lines were down.									
Livingston County									
Ledbetter	05	1728CST			0	0			Hail (0.75)
Union County									
5 SW Morganfield	10	1810CST			0	0			Hail (0.75)
State police reported dime sized hail.									
Trigg County									
Cadiz	19	2020CST			0	0			Hail (1.00)
Hail the size of quarters was reported on the west side of Cadiz.									
Daviess County									
1 NW Owensboro	27	1224CST 1228CST			0	0			Funnel Cloud
Numerous observers, including control tower personnel at the Owensboro Airport, reported a funnel cloud 2 to 3 miles north of the Owensboro Airport control tower. The funnel cloud lasted for just a few minutes.									
Ballard County									
Countywide	03	0445CST 0630CST			0	0			Flash Flood
Mccracken County									
Countywide	03	0445CST 0630CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

April 1999

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

Livingston County

Countywide	03	0500CST 0645CST			0	0			Flash Flood
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Thunderstorms produced up to 2.5 inches of rain in an hour. At the Paducah National Weather Service office, over 1.5 inches of rain fell in less than one hour. The heaviest rain, around 2 inches per hour, fell in a narrow swath from southeast Ballard County through western and northern McCracken County and eastern Massac County to northern Livingston County. This resulted in flash flooding of a few roads and low-lying areas.

Christian County

Hopkinsville	03	0615CST 0700CST			0	0			Urban/Sml Stream Fld
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Street corners that normally flood during heavy rain became inundated.

Todd County

Kirkmansville	28	1345CST 1415CST			0	0			Urban/Sml Stream Fld
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Slow-moving thunderstorms caused some minor problems with water over roads in northwest Todd County.

LOUISIANA, Northeast

Richland Parish

Countywide	14	1615CST			0	0	5K		Thunderstorm Wind
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Several trees were blown down across the parish.

West Carroll Parish

Countywide	14	1645CST			0	0	75K		Thunderstorm Wind
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Several mobile homes were damaged. Trees and power lines were blown down throughout the parish.

East Carroll Parish

3 S Lake Providence	14	1655CST			0	0	30K		Thunderstorm Wind
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A large shed was blown onto highway 65 and destroyed. Several power poles were blown down.

Franklin Parish

Wisner	26	1345CST			0	0	2K		Thunderstorm Wind
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Several trees were blown down.

Morehouse Parish

Countywide	26	1345CST			0	0	15K		Thunderstorm Wind
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Several trees and power lines were blown down throughout the parish.

Richland Parish

Rayville	26	1345CST			0	0	15K		Thunderstorm Wind
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Several trees and power lines were blown down.

East Carroll Parish

Transylvania	26	1410CST			0	0	10K		Thunderstorm Wind
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Several trees and a tractor shed were blown down.

Tensas Parish

6 N St Joseph	26	1420CST			0	0	10K		Thunderstorm Wind
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A few trees were blown down. One tree was blown down onto a house.

West Carroll Parish

Oak Grove	26	1425CST			0	0	10K		Thunderstorm Wind
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Several trees and power poles were blown down.

Madison Parish

Tallulah	26	1430CST			0	0	5K		Thunderstorm Wind
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Several trees and power lines were blown down.

LOUISIANA, Northwest

Caddo Parish

6.2 N Shreveport Rgnl Arpt to 11 NNE Shreveport Rgnl Arpt	03	1552CST 1601CST	6.7	200	0	12	1.3M		Tornado (F4)
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Supercells developed over the area as a speed max moved out of Texas and across the region. Numerous homes with minor to moderate roof damage. An 18 wheel truck bed overturned. Steel framed hardware store leveled. Numerous trees uprooted or snapped. Damage to Southern University and other industry. A total of 66 structures were damaged (4 at 40K, 16 at 20K 46 at 5K).

Storm Data and Unusual Weather Phenomena

April 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									
Bossier Parish									
5.2 NNW Bossier City to 8.4 ENE Benton	03	1601CST 1620CST	12.6	200	7	90	6.7M		Tornado (F4)
									Supercells developed over the area as a speed max moved out of Texas and across the region. Some 389 structures were effected. Of this 227 homes or businesses suffered either major damage or were destroyed. Roofs missing. Brick homes leveled. One brick home totally missing, leaving only the slab. Numerous large oak and pine trees uprooted or snapped near the bases. F60MH, M53MH, M65MH, M41MH, F25MH, F14OU, F33MH
De Soto Parish									
Logansport to 2.6 NE Logansport	03	1555CST 1559CST	2.6	150	0	1	500K		Tornado (F3)
									Numerous homes with moderate to severe damage. Some roofs removed or partially removed. Church steeple knocked over and portion of roof missing. Numerous trees uprooted or snapped. This tornado was associated with a supercell which developed over the area as a speed max moved out of Texas and into Louisiana. This is a continuation of the Shelby County, Texas tornado.
Claiborne Parish									
4.8 SW Athens to 4.3 NE Athens	03	1658CST 1708CST	8.5	200	0	0	1.5M		Tornado (F3)
									The tornado developed from a supercell which developed as a favourable upper level jet pattern and an unstable atmosphere moved over the area. Two mobile homes completely destroyed and two cars levitated and rolled. About 10 homes heavily damaged. Numerous large trees uprooted or snapped.
Claiborne Parish									
8 SSW Summerfield to 7.5 NE Summerfield	03	1713CST 1730CST	14.5	600	0	0	3.5M		Tornado (F3)
									About 15 homes were severely damaged. Numerous large trees uprooted or snapped off.
Grant Parish									
Montgomery	26	1445CST			0	2	15K		Thunderstorm Wind (G61)
									Minor injuries were received when a tree fell on a mobile home. One man was inside the mobile home while one was working on an air conditioner outside.
Lincoln Parish									
Ruston	03	1905CST			0	0			Thunderstorm Wind (G60)
									Numerous power outages from downed trees and powerlines.
Union Parish									
Marion	03	1910CST			0	0			Thunderstorm Wind (G60)
Bossier Parish									
Benton	04	1645CST			0	0			Hail (1.00)
Grant Parish									
Colfax	04	1715CST			0	0			Hail (0.88)
									Nickel sized hail was three inches deep in some sections of town.
Bossier Parish									
Haughton	04	1715CST 1730CST			0	0			Hail (1.75)
Grant Parish									
Dry Prong	04	1745CST			0	0			Hail (1.50)
Caddo Parish									
Bethany	04	1855CST			0	0			Hail (0.88)
Caddo Parish									
Shreveport	04	2120CST			0	0			Hail (0.88)
Grant Parish									
Colfax	04	1730CST			0	0	20K		Flash Flood
									Four inches of rain in one hour produced flash flooding that closed some city streets and water up to three inches deep was reported in local business buildings.
Union Parish									
Farmerville	04	2128CST			0	0	15K		Thunderstorm Wind (G70)
									A parked car was crushed by a toppled tree.
Bienville Parish									
Bienville	04	2150CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
LOUISIANA, Northwest									
Webster Parish									
2 WSW Dixie Inn to Doyline	05	0010CST			0	0			Flash Flood
	Hwy 80 closed for several hours due to high water.								
Lincoln Parish									
Simsboro	05	0024CST			0	0			Hail (0.75)
Caddo Parish									
Shreveport	04	1830CST			0	0			Hail (0.75)
Bossier Parish									
Bossier City	04	1855CST			0	0			Flash Flood
	Eight inches of rain fell across Hwy 3 in just a few hours leading to numerous reports of flooding in town.								
Red River Parish									
Hall Summit	04	2120CST			0	0			Hail (1.75)
Webster Parish									
4 W Dixie Inn	04	2314CST			0	0			Hail (0.88)
Caddo Parish									
Shreveport	04	2030CST			0	0			Flash Flood
	Linwood road was closed due to flooding from Bert Kouns to the Desoto Parish line.								
De Soto Parish									
Frierson	04	2130CST			0	0			Flash Flood
	High water closed Hwy 175. Several I-49 on and off ramps were underwater and impassable as well.								
Bienville Parish									
Taylor	03	1810CST			0	0			Thunderstorm Wind (G60)
	Several large trees down.								
Sabine Parish									
Many	04	1320CST			0	0	10K		Thunderstorm Wind (G70)
	Several large trees down including one tree which fell across a home.								
Natchitoches Parish									
Natchitoches	04	1400CST			0	0			Thunderstorm Wind (G60)
	Several trees down along southern end of town.								
Webster Parish									
Minden	04	2000CST			0	0			Flash Flood
	Numerous roads flooded or closed due to high water including Hwy 164, Hwy 159, Hwy 131, Hwy 80, Hwy 176 and Hwy 371.								
Webster Parish									
3 W Sibley	04	2000CST			0	0			Flash Flood
	High water across Hwy 164 closing the highway temporarily								
De Soto Parish									
Frierson	04	1950CST			0	0			Hail (0.75)
Claiborne Parish									
1 N Homer	04	1930CST			0	0	3K		Thunderstorm Wind (G60)
	High winds toppled numerous trees and demolished a storage shed.								
Union Parish									
Downsville	26	1250CST			0	0			Thunderstorm Wind (G60)
	Trees and powerlines down.								
Ouachita Parish									
Sterlington	26	1324CST			0	0			Thunderstorm Wind (G63)
Caddo Parish									
Shreveport	26	1125CST			0	0	100K		Thunderstorm Wind (G90)
	Numerous trees toppled throughout the city. Some trees fell across homes and a church.								
Bossier Parish									
Bossier City	26	1130CST			0	0	1K		Thunderstorm Wind (G80)
	Several trees and a fence were blown down.								
Bossier Parish									
Barksdale Afb	26	1132CST			0	0			Thunderstorm Wind (G86)
Claiborne Parish									
1 N Homer	26	1220CST			0	0			Thunderstorm Wind (G60)
	Trees and powerlines down.								

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	
<u>LOUISIANA, Northwest</u>									
Bienville Parish									
Arcadia	26	1200CST			0	0			Thunderstorm Wind (G65)
Numerous large trees down across the south side of town.									
Natchitoches Parish									
Natchitoches	26	1202CST			0	0	10K		Thunderstorm Wind (G70)
Numerous trees blown down. A roof was blown off a business in town.									
Red River Parish									
Coushatta	26	1215CST			0	0	20K		Thunderstorm Wind (G65)
Numerous trees toppled. Several homes suffered minor damage.									
La Salle Parish									
10 NW Jena	26	1350CST			0	0	5K		Thunderstorm Wind (G65)
Numerous trees down. One home suffered minor damage when a tree fell across it.									
Grant Parish									
Montgomery	26	1240CST			0	0			Thunderstorm Wind (G70)
Numerous trees and powerlines down.									
Jackson Parish									
Jonesboro	26	1300CST			0	0			Thunderstorm Wind (G70)
Numerous trees and powerlines down.									
Lincoln Parish									
Ruston	26	1302CST			0	0			Thunderstorm Wind (G60)
Numerous trees and powerlines down.									
Winn Parish									
Winnfield	26	1310CST			0	0			Thunderstorm Wind (G70)
Numerous trees and powerlines down.									
De Soto Parish									
Mansfield	26	1120CST			0	0			Thunderstorm Wind (G65)
Several large trees down.									
Sabine Parish									
Many	26	1145CST			0	0	30K		Thunderstorm Wind (G70)
Several large trees and powerlines down. A few buildings were damaged from the fallen trees.									
Ouachita Parish									
Monroe	26	1312CST			0	0	30K		Thunderstorm Wind (G65)
A few trees and powerlines down. A roof was removed from a two story home.									
<u>LOUISIANA, Southeast</u>									
Plaquemines Parish									
Venice	29	1712CST			0	0	0		Hail (0.75)
Dime to penny size hail was reported at the Coast Guard Station.									
<u>LOUISIANA, Southwest</u>									
Beauregard Parish									
De Ridder	04	0200CST 1300CST			0	0	250K		Flood
Up to ten inches of rain fell across the northwest half of Beauregard Parish. De Ridder reported significant flooding of primary and secondary streets. Over twenty roads were closed around the parish due to high waters, including highways 27, 111, and 1147. Several sections of roads were completely washed away, including six miles of LA 394. Residents on Bundick Lake reported water in homes due to high lake levels.									
Vernon Parish									
Leesville	03 04	2300CST 0900CST			0	0	100K		Flood
Between six and eight inches of rain fell across the southern half of Vernon Parish. The town of Cravens had flooding of Cooper Church Road and Highway 10. One car had to be pulled out of high water.									
Rapides Parish									
Glenmora	04	0200CST 0900CST			0	0	100K		Flood
Between six and eight inches of rain fell across the northwestern third of Rapides Parish. Three roads were closed in the Glenmora area.									
Rapides Parish									
Glenmora	04	0345CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>LOUISIANA, Southwest</u>									
Rapides Parish									
Cheneyville	04	0429CST			0	0			Hail (1.75)
Avoyelles Parish									
Mansura	04	0440CST			0	0			Hail (0.75)
Vernon Parish									
Leesville	04	1505CST			0	0			Hail (2.00)
Hail was reported to break many windshields on the south side of town.									
<u>MAINE, North</u>									
NONE REPORTED.									
<u>MAINE, South</u>									
MEZ023									
Coastal York									
	07	1100EST 1300EST			1	1			Gusty Winds
A gust of wind downed a dead tree limb at a York elementary school. The falling limb struck two 8-year-old boys, killing one and injuring the other. Winds were gusting to 32 mph at Sanford at the time of the incident. M8UT									
Androscoggin County									
Auburn	26	1400EST			0	0			Lightning
Lightning struck a tall pine tree, travelled through the ground to a garage, and then travelled through electrical wires to a home nearby. The force of the electrical discharge ripped apart closet doors and the ceiling in the home and knocked out phone and electrical services. The owner, who was home at the time, drove to a nearby convenience store to report the strike, then returned to find her home in flames. The resulting fire destroyed the one story home.									
Hancock County									
East Blue Hill to Blue Hill	28	1600EST			0	0			Lightning
Lightning ignited a fire that burned about 6 acres of land in East Blue Hill. Sixty to seventy firefighters from the area responded to the blaze for about six hours. A Maine Forest Service helicopter and a tanker truck from Ellsworth were also called in.									
MEZ007>030									
Northern Oxford - Northern Franklin - Central Somerset - Southern Piscataquis - Central Penobscot - Southern Oxford - Southern Franklin - Southern Somerset - Southern Penobscot - Interior Hancock - Interior Washington - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo - Coastal Hancock - Coastal Washington									
	01 30	0001EST 2359EST			0	0			Record Dryness
Lack of precipitation during April throughout the southern and central parts of the state initiated concerns for crop and domestic water supplies. In Portland, April 1999 was the driest April ever recorded, with only 0.28 inches of precipitation during the month. This broke the old record of 0.71 inches in 1941 and was well below the normal precipitation for April of 4.08 inches. Bangor reported only 0.59 inches of precipitation for the month which was the driest April in the 74 years that records have been kept. During that period of record, Bangor's average April precipitation has been 3.21 inches. The dryness also led to an increase in the threat of forest fires across the southern and central part of the state.									
<u>MARYLAND, Central</u>									
Montgomery County									
Potomac	09	1720EST			0	0	10K		Lightning
House fire started by lightning									
St. Mary'S County									
Huntermville	09	1720EST			0	0			Hail (1.00)
Calvert County									
4 N Buena Vista to Prince Frederick	09	1730EST			0	0			Hail (1.50)
Calvert County									
Island Creek to St Leonard	09	1730EST			0	0			Hail (1.25)
Calvert County									
Solomons to Bertha	09	1730EST			0	0			Hail (1.00)
St. Mary'S County									
Golden Beach	09	1737EST			0	0			Hail (1.25)
A strong cold front moved eastward across Central Maryland during the early evening. A line of showers and thunderstorms									

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 Damage	Crops	

MARYLAND, Central

developed along and ahead of the system producing heavy downpours, frequent lightning, and gusty winds. A lightning strike sparked a tree fire in Charles County near Bel Alton around 5:50 PM EDT. A house in Montgomery County near Potomac caught on fire after being hit by lightning around 6:20 PM EDT. One thunderstorm that developed about 50 miles ahead of the cold front in South Central Maryland dropped large hail across St. Mary's and Calvert County between 6:00 PM and 6:45 PM EDT. Hail between 1 and 1 1/2 inch in diameter was reported in the communities of Bowens, Adelina, Port Republic, Mutual, and St. Leonard in Calvert County. The shower of large hail accumulated enough to cause travel problems on area roads. In St. Mary's County, dime to half dollar sized hail was reported in Golden Beach and quarter sized hail fell in Huntersville. In addition, winds gusted to 53 MPH in Tall Timbers at 7:29 PM EDT.

Charles County									
Newport	23	1530EST			0	0			Hail (1.00)
Charles County									
5 S La Plata	23	1537EST			0	0			Hail (0.75)
St. Mary'S County									
Golden Beach	23	1537EST			0	0			Hail (1.00)
Calvert County									
Island Creek	23	1540EST			0	0			Hail (1.00)
Calvert County									
Prince Frederick	23	1545EST			0	0			Hail (1.50)
Charles County									
Bryans Road	23	1600EST			0	0			Hail (1.25)
Prince George'S County									
Accokeek	23	1602EST			0	0			Hail (0.75)
Charles County									
Waldorf	23	1630EST			0	0			Hail (0.75)
St. Mary'S County									
Golden Beach	23	1635EST			0	0			Hail (1.00)
St. Mary'S County									
Sandgates	23	1635EST			0	0			Hail (1.00)
Calvert County									
Lusby	23	1642EST			0	0			Hail (0.75)
Calvert County									
Solomons	23	1642EST			0	0			Hail (1.50)

Two severe thunderstorms moved across the Potomac River into South Central Maryland during the mid afternoon. The first storm tracked across Central Charles County, Southeast Prince George's County, and Northern Calvert County between 4:20 PM and 4:45 PM EDT. Three quarter to one and one quarter inch diameter hail fell from this storm in a band from Indian Head and Nanjemoy to Chesapeake Beach and Prince Frederick. A second storm tracked across Southern Prince George's, Northern Charles, Southern Calvert, and Northern St. Mary's County between 5:00 PM and 5:40 PM EDT. This storm produced three quarter to one and one quarter inch diameter hail in a band roughly 10 miles wide from Bryans Road to Solomons. Heavy rain accompanying the storm contributed to a serious car accident on Highway 2-4 north of Lusby where an elderly woman was killed.

MARYLAND, Northeast

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

01	0000EST	0	0	0	Drought
30	2359EST				

The drought warning remained in effect for the state of Maryland. During April streamflow and ground water levels had fallen to below normal levels. More precipitation was needed to overcome long-term water shortages. On a county weighted average April monthly precipitation across the Eastern Shore was close to normal as 3.1 to 3.5 inches of precipitation fell. While ground-water levels improved across the Eastern Shore, they were still below normal for April.

Kent County									
Chestertown	09	1815EST			0	0			Hail (1.00)
Kent County									
Kennedyville	09	1825EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

April 1999

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

Queen Anne'S County

Crumpton	09	1835EST			0	0	0		Thunderstorm Wind (G50)
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A severe thunderstorm knocked down a tree and several large limbs in Crumpton.

Cecil County

North East to Fair Hill	09	1838EST			0	0	0		Thunderstorm Wind
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A severe thunderstorm knocked down a few trees across roadways in the central and northern parts of Cecil County. No damage or injuries were reported.

Talbot County

Easton	23	1535EST			0	0			Hail (1.75)
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MARYLAND, South

Dorchester County

Cambridge	09	1845EST			0	0			Hail (1.00)
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Somerset County

10 SW Princess Anne	09	1905EST			0	0			Hail (1.25)
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Wicomico County

Salisbury	09	1910EST			0	0			Hail (1.00)
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Dorchester County

Secretary	23	1550EST			0	0			Hail (2.00)
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MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

Essex County

Manchester	26	1525EST			0	0	1K		Thunderstorm Wind (G52)
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A severe thunderstorm produced a microburst, which resulted in localized property damage. The top of a tree and part of a new house under construction were ripped off, and a plastic lawn chair was blown through a picture window. A second metal chair damaged an outside wall. There were no injuries.

MAZ012-015

Southern Worcester - Suffolk

30	2359EST			0	0			Driest Month
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Total precipitation for the month of April at Logan International Airport in Boston was only 0.83 inch. This broke the record for the least amount of precipitation in April, which was 0.93 inch set in 1892. At Worcester Municipal Airport in Worcester, the monthly precipitation of 0.92 inch was the second driest April on record. The driest April was in 1941, when only 0.85 inch was recorded.

MASSACHUSETTS, West

MAZ001

Berkshire

01	0000EST			0	0			Drought
30	2359EST							

Rainfall was well short of normal across western Massachusetts during the month of April. North Adams reported only 1.05 inches of rainfall for the entire month, which was 2.98 inches below normal. Pittsfield reported just 1.49 which was 2.38 inches below normal. Other monthly samples included 2.05 inches at Great Barrington and 2.52 at Dalton. The combination of low rainfall, along with frequent gusty winds, turned the underbrush into tinder. This scenario led to some brush fires during the month across the Berkshires.

MICHIGAN, East

MIZ061

Genesee

06	1530EST			0	0	15K		Wind
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Strong winds occurred across southeast Michigan behind a cold front during the afternoon and evening. The winds did not reach high wind criteria, with peak gusts generally in the 45 to 50 mph range. The highest gust, 55 mph, occurred at the National Weather Service Office in White Lake. In Flint, the wall of a building under construction collapsed.

Lenawee County

Morenci	10	2330EST			0	0	7K		Lightning
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A lightning strike in a residential area damaged electrical appliances, blew out windows, and caused tires on two nearby vehicles to explode. One car suffered extensive electrical damage.

Storm Data and Unusual Weather Phenomena

April 1999

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

NONE REPORTED.

MICHIGAN, North

Grand Traverse County

Traverse City	07	2044EST			0	0			Hail (0.75)
MIZ020-034>036			Leelanau - Roscommon - Ogemaw - Iosco						
	11	1000EST 2200EST			0	0			Winter Storm

A low pressure center tracked east-southeast across the lower Great Lakes region. A large area of mixed precipitation was located across central lower Michigan. A band of heavy snow associated with elevated convection was embedded within the area of mixed precipitation. The snow accumulated up to 6 to 10 inches in this region. The snow quickly tapered to flurries just north of the band of heavy snow.

MICHIGAN, Upper

MIZ001-003

Keweenaw - Houghton
04 0400EST
1400EST

0 0 **Ice Storm**

A low pressure center from northern Minnesota moved east to northern Lake Michigan with a stationary front remaining just south of Upper Michigan. Warmer air aloft and freezing temperatures at the surface combined to produce a period of freezing rain across north central Upper Michigan. Ice accumulations of around half an inch thick were reported by NWS electronic technicians working on equipment in Houghton and Copper Harbor. Local power companies reported outages due to tree branches breaking and falling across power lines. Police departments reported numerous minor traffic accidents due to slick roads.

MICHIGAN, West

NONE REPORTED.

MINNESOTA, Central and South Central

NONE REPORTED.

MINNESOTA, Northeast

MNZ010>012- 019>021

Koochiching - Northern St. Louis - Northern Cook / Northern Lake - Central St. Louis - Southern Lake - Southern Cook

01 1600CST 0 0 **Ice Storm**
02 0815CST

Ice accumulations of one-quarter to one-half inch occurred from the International Falls area, across the Iron Range, to the north shore of Lake Superior. The ice caused travel problems due to slippery roads and airport runways. The weight of ice accumulation also brought down tree limbs and power lines, causing widespread electrical outages.

MNZ010>012- 020>021-037

Koochiching - Northern St. Louis - Northern Cook / Northern Lake - Southern Lake - Southern Cook - Southern St. Louis / Carlton

03 1600CST 0 0 **Ice Storm**
04 1100CST

Accumulations of ice up to one-quarter of an inch, along with a mixture of sleet, snow, and slush on the ground, made travel very hazardous across much of northeastern Minnesota. The area hardest hit extended from Duluth up the north shore of Lake Superior. The weight of ice accumulations brought down trees and power lines and cause extensive damage to an 800 foot television tower in Duluth. The situation was exacerbated by strong winds gusting to around 50 MPH.

MNZ012-019>021- 037

Northern Cook / Northern Lake - Central St. Louis - Southern Lake - Southern Cook - Southern St. Louis / Carlton

05 1500CST 0 0 **Heavy Snow**
06 0900CST

Heavy snow fell over parts of the Iron Range and the Arrowhead of northeastern Minnesota. The greatest amounts were reported in the higher elevations along the north shore of Lake Superior, including 11 inches near Two Harbors and Little Marais.

MINNESOTA, Northwest

MNZ001-004>005- 007

West Polk - Kittson - Roseau - West Marshall

01 0900CST 0 0 **Winter Storm**
1900CST

A powerful winter storm hit extreme northwest Minnesota, as a low pressure area moved out of the central plains into Ontario. Some people briefly lost power, as a mixture of freezing rain and snow fell across the area and downed power lines. Hallock reported 7 inches of new snow.

Storm Data and Unusual Weather Phenomena

April 1999

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

MNZ004>009	Kittson - Roseau - Lake Of The Woods - West Marshall - East Marshall - North Beltrami								
	03	1300CST			0	0			Winter Storm
	04	0500CST							
	A low pressure area over Minnesota brought a second storm to northwest Minnesota, on the heels of the April Fools Day storm. Two to 6 inches of new snow fell, along with some freezing rain. Hundreds of people lost power to their homes and businesses.								
MNZ001-013>015	West Polk - Pennington - Red Lake - East Polk								
	03	1300CST			0	0			Ice Storm
	04	0500CST							
	An area of low pressure over Minnesota brought the second storm in 2 days to northwest Minnesota. Significant accumulations of ice brought down power lines and trees, causing hundreds of people to live without power for several days. Icicles formed on many surfaces, some 2 to 4 inches long. City workers were kept busy for weeks, cutting and hauling away damaged trees. This ice storm brought back memories of the ice storm of early April 1997.								
MNZ001	West Polk								
	01	0000CST			0	0			Flood
	05	2359CST							
	The spring flood of the Red River caused the Sorlie (Demers) bridge to be closed, which is one link between Grand Forks and East Grand Forks. The River Road in East Grand Forks also had to be blocked off. The crest at East Grand Forks on the Red River was 44.3 feet on April 1st.								
MNZ007	West Marshall								
	02	0000CST			0	0			Flood
	10	2359CST							
	The Red River crested in Oslo on April 3rd at 36.7 feet. The town's ring dike held, but roads to the town were under water.								
MNZ004	Kittson								
	06	0000CST			0	0			Flood
	15	2359CST							
	The Red River crested at 41.7 feet at Drayton on April 9th and 49.7 feet at Pembina on April 13th. Highway 171 near St. Vincent had water running over it. Bridges across the Red River were closed due to high river levels at St. Vincent, Joliette, and Robbin.								

MINNESOTA, Southeast

NONE REPORTED.

MINNESOTA, Southwest

NONE REPORTED.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

NONE REPORTED.

MISSISSIPPI, Central

Washington County									
Wayside	03	1935CST			0	0	5K		Thunderstorm Wind
	Several power lines were blown down.								
Issaquena County									
Fidler	14	1705CST			0	0			Hail (0.75)
Sharkey County									
5 SW Rolling Fork	14	1720CST			0	0			Hail (1.00)
Sharkey County									
2 W Rolling Fork	14	1722CST	1	50	0	0			Tornado (F0)
	This weak tornado touched down in an open field with no damage reported.								
Humphreys County									
6 E Belzoni	14	1805CST			0	0	1K		Thunderstorm Wind
	Several large limbs were blown down.								
Holmes County									
Tchula	14	1825CST			0	0	25K		Hail (1.75)
	Golfball size hail produced minor damage to homes and automobiles.								

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
MISSISSIPPI, Central									
Holmes County									
6 ESE Cruger	14	1840CST	1	50	0	0	2K		Tornado (F0)
Several trees were uprooted or snapped off by this weak tornado.									
Carroll County									
5 NW Vaiden	14	1845CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Carroll County									
Black Hawk	14	1850CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Hinds County									
1 E Edwards	14	1900CST			0	0	2K		Thunderstorm Wind
Tin was blown off of a camper across Interstate 20.									
Montgomery County									
Kilmichael	14	1930CST			0	0	2K		Thunderstorm Wind
Several trees were blown down across Highway 82.									
Issaquena County									
2 S Mayersville	14	2000CST			0	0	5K		Thunderstorm Wind
A shed was blown over and destroyed.									
Webster County									
Countywide	14	2005CST			0	0	15K		Thunderstorm Wind
Trees and power lines were blown down throughout the county.									
Sharkey County									
Rolling Fork	14	2015CST			0	0	2K		Thunderstorm Wind
Awning and large limbs were blown down.									
Rankin County									
6 NW Puckett	14	2108CST			0	0			Hail (0.75)
Marion County									
Countywide	14	2115CST			0	0	5K		Thunderstorm Wind
A few trees were blown down throughout the county.									
Scott County									
Central Portion	14	2145CST			0	0	2K		Thunderstorm Wind
Several trees were blown down along interstate 20.									
Covington County									
7 NE Collins to 3 SE Hot Coffee	14	2152CST 2157CST	4	880	0	0	800K		Tornado (F3)
This strong tornado tracked across northeast Covington County before entering northwest Jones County. Many homes were damaged with several homes receiving major damage. Numerous trees and power lines were blown down and there were many livestock fatalities.									
Jones County									
2 NW Hebron to 6.5 NE Soso	14	2157CST 2206CST	14.5	880	1	30	4M		Tornado (F3)
This strong tornado entered from Covington County and crossed northwest Jones County before entering Southwest Jasper county. One man was killed just north of Hebron when his mobile home was thrown more than fifty yards and destroyed. There were thirty injuries and many homes were destroyed. Tree and power line damage was widespread along the path of the tornado. M71MH									
Smith County									
Taylorsville	14	2200CST			0	0	40K		Thunderstorm Wind
A house was destroyed.									
Jasper County									
1.5 SW Moss to 6.5 W Heidelberg	14	2206CST 2215CST	7	880	0	3	2M		Tornado (F3)
This strong tornado entered from Jones County and crossed portions of southern Jasper County. There were three injuries. Several houses and businesses were destroyed along with the Moss Firehouse. Overall, many homes and businesses received at least minor damage and numerous trees and power lines were blown down.									
Clarke County									
Enterprise	14	2255CST			0	0	10K		Thunderstorm Wind
Trees and power lines were blown down.									
Forrest County									
Hattiesburg	14	2258CST	1	50	0	0			Tornado (F0)
This weak tornado touched down in Hattiesburg with no damage reported.									

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	
MISSISSIPPI, Central									
Forrest County									
Hattiesburg	14	2303CST			0	0	35K		Hail (1.75)
									Golfball size hail caused minor damage to homes and automobiles.
Lauderdale County									
3 W Meridian	14	2305CST			0	0			Thunderstorm Wind (G57)
Lauderdale County									
Meridian	14	2315CST			0	0	10K		Thunderstorm Wind
									Trees and power lines were blown down.
Neshoba County									
7 SE Philadelphia	14	2345CST			0	0	1K		Thunderstorm Wind
									A few trees were blown down.
Clay County									
5 N West Pt	24	1020CST			0	0			Hail (1.00)
Clay County									
2 N West Pt	24	1020CST			0	0			Hail (0.75)
Lowndes County									
4 NW Columbus	24	1045CST			0	0			Hail (1.00)
Lauderdale County									
Meridian	24	1515CST 2115CST			0	0			Hail (0.75)
Jasper County									
5 N Bay Spgs	24	1925CST			0	0			Hail (1.00)
Jones County									
Laurel	24	1930CST			0	0			Hail (0.88)
Issaquena County									
Grace	26	1315CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
Washington County									
Glen Allan	26	1330CST			0	0	2K		Thunderstorm Wind (G52)
									A few power lines were blown down.
Washington County									
Hollandale	26	1445CST			0	0	5K		Thunderstorm Wind
									Several trees and power lines were blown down.
Issaquena County									
Mayersville	26	1451CST			0	0			Hail (0.75)
Warren County									
Vicksburg	26	1509CST			0	0			Hail (0.88)
Sunflower County									
Inverness	26	1510CST			0	0			Hail (0.75)
Sunflower County									
Moorhead	26	1535CST			0	0			Hail (0.75)
Hinds County									
Learned	26	1545CST			0	0	25K		Hail (1.75)
									Golfball size hail caused damage to a few homes and automobiles.
Leflore County									
13 W Greenwood	26	1556CST			0	0			Hail (1.00)
Yazoo County									
Yazoo City	26	1600CST			0	0			Hail (0.88)
Humphreys County									
Belzoni	26	1610CST			0	0	2K		Thunderstorm Wind
									Several power lines were blown down.
Holmes County									
Tchula	26	1615CST 1715CST			0	0	25K		Thunderstorm Wind
									The roof was blown off of a house and several trees were blown down.

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	
<u>MISSISSIPPI, Central</u>									
Madison County									
Way	26	1630CST			0	0	5K		Thunderstorm Wind
		Several trees and power lines were blown down.							
<u>MISSISSIPPI, North</u>									
Tallahatchie County									
Charleston	05	2115CST 2120CST			0	0	0.01K		Hail (0.75)
Tallahatchie County									
Charleston	05	2115CST 2120CST			0	0	5K		Thunderstorm Wind
		Several trees were knocked down.							
Tunica County									
Dundee	03	1750CST 1755CST			0	0	0.01K		Hail (0.75)
Tunica County									
Dundee	03	1750CST 1755CST			0	0	25K		Thunderstorm Wind
		A home, one business and the Dundee Post Office were all damaged. A few trees were knocked down as well.							
De Soto County									
South Haven	03	1905CST 1910CST			0	0	1K		Urban/Sml Stream Fld
		One road was flooded was about one mile.							
Marshall County									
Potts Camp	03	1930CST 1935CST			0	0	10K		Thunderstorm Wind
		Several trees and power lines were knocked down.							
Marshall County									
Slayden	03	1940CST 1945CST			0	0	5K		Thunderstorm Wind
		A few trees were blown down.							
Benton County									
Ashland	03	2000CST 2005CST			0	0	5K		Thunderstorm Wind
		Some large trees were knocked down.							
Tallahatchie County									
Charleston	03	2100CST 2105CST			0	0	25K		Thunderstorm Wind
		One mobile home and a car was damaged. A storage shed lost its roof and a wooden fence was knocked down. Several large trees and power lines were also knocked down.							
Pontotoc County									
Furrs	24	0850CST 0855CST			0	0	0.75K		Hail (1.75)
Pontotoc County									
Pontotoc	24	0900CST 1100CST			0	0	10K		Flash Flood
		Over three inches of rain in an about a hour produced flash flooding in Pontotoc. Flood waters reached the bumpers of several cars and into several buildings in downtown Pontotoc.							
Chickasaw County									
Okolona	24	0920CST 0925CST			0	0	0.01K		Hail (0.75)
Monroe County									
New Wren	24	0925CST 0930CST			0	0	1K		Hail (2.00)
Monroe County									
Prairie	24	0940CST			0	0	5K		Hail (1.25)
		Several cars had their windshields busted by the hail.							
Monroe County									
Aberdeen	24	0942CST 0950CST			0	0	0.75K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, North</u>							
Monroe County							
Aberdeen	24	0942CST 0950CST			0 0	10K	Thunderstorm Wind
A house had its roof blown off. Several trees were knocked down.							
Lee County							
Guntown	26	0250CST 0255CST			0 0	0.01K	Hail (0.75)
Lee County							
Nettleton	26	0315CST 0320CST			0 0	5K	Thunderstorm Wind
Several trees were knocked down producing some power outages.							
Coahoma County							
Clarksdale	26	1545CST 1550CST			0 1	15K	Thunderstorm Wind
Straight line winds moved through a baseball field in Clarksdale. The winds blew down the wall of a above ground dugout injuring one girl. A nearby concession stand had its roof ripped off. Several trees were also knocked down.							
<u>MISSISSIPPI, South</u>							
Jackson County							
5 N Gautier	29	1232CST			0 0	0	Hail (1.00)
Jackson County							
5 W Gautier	29	1245CST			0 0	0.20K	Hail (1.75)
Jackson County							
Pascagoula	29	1315CST			0 0	0	Hail (0.75)
Jackson County							
Moss Pt	29	1320CST			0 0	0	Hail (1.75)
Severe thunderstorms developed over Jackson County, MS producing large hail at several communities. A car window was broken by large hail at a shopping mall near Gautier.							
<u>MISSISSIPPI, Southeast</u>							
Wayne County							
Whistler	14	2330CST 2332CST			0 0	3K	Thunderstorm Wind (G50)
Trees were blown down just north of Whistler.							
<u>MISSOURI, East</u>							
Clark County							
St Patrick	08	1735CST			0 0		Hail (0.75)
Cole County							
Brazito	08	1740CST			0 0		Hail (1.75)
Pike County							
Bowling Green	08	1855CST			0 0		Hail (1.00)
Pike County							
Bowling Green	08	1857CST			0 0		Hail (0.75)
The Sheriff Department reported 3/4 to 1 inch hail in Bowling Green.							
Franklin County							
Washington	08	1950CST			0 0		Thunderstorm Wind (G50)
Amateur radio spotters reported trees and power lines down in Washington.							
Audrain County							
Laddonia	08	1845CST			0 0		Thunderstorm Wind (G55)
Thunderstorm wind gusts downed some trees and power lines and damaged the roof of a factory.							
Warren County							
2 NW Marthasville	08	1900CST			0 0		Thunderstorm Wind (G52)
Thunderstorm wind gusts downed a few trees northwest of Marthasville.							
Knox County							
8 SW Novelty to 1 SW Novelty	08	1630CST 1635CST	7	100	0 0	500K	Tornado (F2)
A tornado moved from Macon into Knox County southwest of Novelty and caused damage for about 7 miles as it tracked northeast. One home completely lost its roof while another lost half of its roof. Another home had the siding peeled off one side. At least 4 barns, 6 outbuildings and 2 grain bins were destroyed. Several large trees were downed along with power lines and							

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	

MISSOURI, East

power poles.

Lewis County

1 S La Belle to 8 N Monticello	08	1705CST 1726CST	16	150	0	2	2.1M	Tornado (F2)
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A tornado tore a 16 mile path of destruction across Lewis County causing an estimated \$2.1 million in damage. The tornado first formed near LaBelle, where it destroyed a modular home and seriously damaged another home. Several barns were destroyed as were numerous sheds and other farm outbuildings. Several homes in town also sustained roof and siding damage. A pickup truck was picked up and moved about 100 yards. The woman occupant suffered minor injuries. The tornado moved northeast and reached its maximum strength in the Midway area, near the intersection of Highway H and Y. In this area 2 homes were considered destroyed as were 3 barns and numerous sheds and outbuildings. The tornado caused more damage as it moved northeast between Monticello and Williamstown. A couple of barns were destroyed as were several outbuildings. Two homes suffered roof damage. There was 1 injury in this area. A man suffered a cut on his head when hit by flying debris.

Boone County

2 N Midway to 5 NE Midway	08	1655CST 1700CST	4	120	0	5		Tornado (F2)
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A tornado first formed near Midway and created a 4 mile damage path as it moved northeast across Boone County. Damage first occurred along Locust Grove Road where 1 barn and 2 equipment buildings were destroyed and 3 homes suffered roof and siding damage. Numerous trees were blown down or snapped in two in this area. When the tornado crossed O.B. Brown Road, a mobile home was destroyed as were 7 outbuildings. One home completely lost its roof while another lost half of its roof. Witnessed described the tornado as a swirling mass of rain and debris.

Boone County

.3 NW Hinton to 4 E Hallsville	08	1705CST 1717CST	10	120	0	0		Tornado (F2)
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The supercell that spawned the tornado near Midway created another tornado that first caused damage near Hinton. A couple of farm equipment buildings and a garage were destroyed. Near Hallsville, one home lost its roof and an equipment building was destroyed. 3 grain bins were destroyed with one landing about 3/4 mile from its original location. To the southeast of Hallsville 3 homes suffered roof damage, 1 barn, 2 equipment buildings and a grain bin were destroyed.

Audrain County

1.5 W Mexico to 2 N Rush Hill	08	1530CST 1543CST	10	100	0	0		Tornado (F1)
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The supercell that spawned the Midway and Hinton tornadoes produced a third tornado in Audrain County. The tornado first caused damage just west of Mexico where 3 billboards and several trees were downed. Just to the northeast of Mexico, the tornado caused damage at an industrial complex. One factory lost part of its roof and several smaller sheet metal buildings were destroyed. Near Highways J and KK a barn was extensively damaged and 2 grain bins destroyed. The last observed damage was about 5 miles northeast of Mexico. One barn was destroyed, 2 equipment buildings destroyed, and 2 homes suffered minor roof damage.

Pike County

Louisiana	08	1834CST 1835CST	0.5	75	0	0		Tornado (F0)
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The supercell that spawned the Midway, Hinton, and Mexico tornadoes created one more tornado that first struck on the north side of Louisiana, MO then crossed the Mississippi River into Illinois. Only minor roof damage and trees were downed on the north side of Louisiana before the tornado headed northeast into Illinois.

Cole County

.5 SW Eugene to 4 S Wardsville	08	1730CST 1745CST	12	200	0	0		Tornado (F1)
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A tornado formed near Eugene and tracked northeast for 12 miles across Cole County. Emergency officials reported that 28 homes suffered some type of damage, mostly minor. Two barns were destroyed southeast of Brazito. Hundreds of trees were downed along the path.

Osage County

2 W Linn to 9 ENE Linn	08	1800CST 1820CST	8	200	0	0	1M	Tornado (F1)
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The supercell that produced the tornado in Cole County produced another tornado in Osage County. Emergency officials estimated the damage to be around \$1 million. 79 homes sustained some type of damage, mostly to roofs and siding. Fortunately almost all homes were covered by insurance. One mobile home was destroyed near Linn and several businesses sustained major roof damage. Hundreds of trees were downed northeast of Linn as the tornado tracked through a forested area.

Knox County

2 W Novelty	08	1630CST			0	0		Hail (1.75)
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Knox County

Novelty	08	1633CST			0	0		Hail (1.00)
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Knox County

2 E Novelty	08	1638CST			0	0		Hail (1.75)
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The sheriff department reported hail ranging from golfball to 1 inch in diameter in and around Novelty.

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	
MISSOURI, East									
Iron County									
Ironton	03	0705CST			0	0			Hail (0.75)
			The Sheriff Department reported 3/4 inch hail in Ironton.						
Jefferson County									
High Ridge	03	0817CST			0	0			Hail (0.75)
			Storm spotters reported 3/4 inch hail.						
Reynolds County									
Ellington	03	0650CST			0	0			Thunderstorm Wind (G51)
			The Sheriff Department reported some trees down just south of Ellington.						
Iron County									
Countywide	03	0930CST 2100CST			0	0			Flash Flood
St. Francois County									
Countywide	03	0930CST 2100CST			0	0			Flash Flood
			Rainfall of 4 - 6 inches caused widespread flash flooding across the area. It was reported in St. Francois County that all small creeks rose out of their banks. Numerous county roads were flooded as were streets in Farmington and Park Hills. In Iron County, sections of about a dozen county roads were destroyed by flood streams and the rapid runoff. Several businesses and homes were also flooded in Ironton.						
Ste. Genevieve County									
Countywide	03	1000CST 1700CST			0	0			Flash Flood
			Rainfall of 3 to 6 inches caused widespread flash flooding across the county. Numerous county roads were flooded and damaged by the rapidly flowing floodwater. In Ste. Genevieve one resident had to be rescued from their home after it was surrounded by 3-5 feet of water.						
Reynolds County									
Countywide	03	1830CST 2130CST			0	0			Flash Flood
			Rainfall of 3 - 6 inches caused flash flooding across the county. Several creeks and small streams rose out of their banks. Several county roads were damaged due to the rapid runoff of flood water.						
Madison County									
Countywide	03	0930CST 2130CST			1	0	6M		Flash Flood
			The worst flooding in Madison County history struck the morning of April 3, 1999. Rainfall of 6 to 10 inches fell primarily during a 2 hour period resulting in flash flooding throughout the county. The county was declared a Federal Disaster Area. At least 200 homes were either destroyed or suffered major damage as did about 30 businesses. Numerous livestock were also killed in the rural areas of the county. The city of Fredericktown was hard hit as Saline Creek, which normally has only a trickle of water in it, became a raging river over 200 yards wide in places. Rural areas along the St. Francis and Castor Rivers also were hit hard.						
			The American Red Cross and the Salvation Army assisted residents of the county with temporary housing, feeding and cleaning supplies. At one point, over 400 meals a day were provided to storm victims. The flash flooding washed out and damaged numerous county roads, preventing access to several parts of the county. The Missouri Department of Corrections and the Missouri Department of Conservation provided bulldozers, heavy equipment and personnel to open closed roads. Several rescues had to be done by various law enforcement and emergency personnel as the rapidly rising water quickly isolated people. There was one death due to the flooding. A 12 year-old boy was electrocuted as water rushed inside a business shorting out the electrical system. M12BU						
Madison County									
2 S Saco	05	1620CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm wind gusts downed trees along Highway N.						
Madison County									
5 S Fredericktown	05	1630CST			0	0	20K		Thunderstorm Wind (G55)
			Thunderstorm wind gusts took the roof off a double-wide mobile home near the intersection of Highway 67 and Route A.						
Madison County									
5 E Fredericktown	05	1635CST			0	0	20K		Thunderstorm Wind (G55)
			Thunderstorm wind gusts caused damage along Highway J east of Fredericktown. A couple of homes had roof damage, a barn was destroyed, metal outbuildings destroyed and trees downed.						
Ste. Genevieve County									
Bloomsdale	05	1705CST			0	0			Thunderstorm Wind (G55)

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	
<u>MISSOURI, East</u>									
Thunderstorms wind gusts downed a few trees.									
Reynolds County									
Countywide	14	1830CST 2300CST			0	0			Flash Flood
Heavy rain caused flash flooding across the county. Several county roads had to be closed because of the depth of the water. Most low-water crossings were impassable.									
Warren County									
Warrenton	21	0138CST			0	0			Hail (1.50)
Warren County									
Warrenton	21	0150CST			0	0			Hail (0.75)
Storm spotters reported hail up to 1 1/2 inch in diameter in Warrenton.									
Audrain County									
4 W Thompson to 4 E Thompson	21	0040CST 1240CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail along Highway 22.									
Pike County									
Bowling Green	20	2250CST			0	0			Hail (1.00)
Pike County									
Bowling Green	20	2305CST			0	0			Hail (0.75)
The Sheriff Department reported hail up to 1 inch in diameter.									
Marion County									
5 S Warren	20	2150CST			0	0			Hail (1.00)
1 inch hail was reported along Highway 36 just north of the Marion/Audrain County line.									
Monroe County									
Monroe City	20	2155CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail.									
Jefferson County									
Hillsboro	21	0555CST			0	0	35K		Lightning
An early morning lightning strike caused considerable damage at the Special Services Cooperative office in Hillsboro. The strike destroyed the telephone system, electric boxes, and blew out 5 windows. The building shook hard enough to cause plaster to fall from the walls.									
<u>MISSOURI, Lower</u>									
NONE REPORTED.									
<u>MISSOURI, Northwest</u>									
Platte County									
Platte City	02	1934CST			0	0			Hail (1.75)
Buchanan County									
Faucett	02	1950CST			0	0			Hail (0.75)
Clinton County									
1 E Gower	02	2013CST			0	0			Hail (0.75)
Clinton County									
Grayson	02	2020CST			0	0			Hail (0.75)
Clinton County									
4 N Perrin	02	2055CST			0	0			Hail (0.88)
De Kalb County									
1 N Osborn	02	2110CST			0	0			Hail (0.88)
A line of thunderstorms tracked across northwest Missouri on the evening of April 2, producing large hail in several locations to the west of Interstate 35.									
Henry County									
2 S Windsor	05	1309CST			0	0	10K		Thunderstorm Wind
Trees down, garage door blown off, hog sheds tipped									
Pettis County									
2 S Bryson	05	1315CST			0	0			Thunderstorm Wind (G52)
Trees and limbs downed near Rt. 52 and Hwy. B									

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	
MISSOURI, Northwest									
Atchison County									
3 W Tarkio	05	1415CST			0	0	5K		Thunderstorm Wind
		Utility wires downed along US 136							
Nodaway County									
1 S Hopkins	05	1450CST			0	0			Thunderstorm Wind (G61)
Nodaway County									
Hopkins	05	1456CST 1556CST			0	0			Hail (0.75)
Nodaway County									
Burlington Jet	05	1520CST			0	0	20K		Thunderstorm Wind
		2 grain bins blown over							
		Strong to severe thunderstorms moved across northern and western sections of Missouri for the third time in four days. Several reports of wind damage were received, and law enforcement officials in Nodaway County in northwest Missouri estimated wind gusts to 70 mph near Hopkins.							
Ray County									
Knoxville	20	2038CST			0	0			Hail (0.88)
Carroll County									
6 W Carrollton	20	2049CST			0	0			Hail (1.75)
Ray County									
Knoxville to Millville	20	2105CST 2120CST			0	0			Hail (0.88)
Howard County									
Glasgow	20	2110CST			0	0			Hail (0.88)
Carroll County									
1 W Norborne	20	2137CST			0	0			Hail (1.00)
Lafayette County									
Waverly	20	2148CST			0	0			Hail (1.00)
Saline County									
Slater	20	2203CST			0	0			Hail (1.75)
Saline County									
Malta Bend	20	2235CST			0	0			Hail (1.25)
Saline County									
New Frankfort	20	2300CST			0	0	10K		Urban/Sml Stream Fld
		A county commissioner reported that a 10-foot diameter galvanized drainage tube was washed out from under a county road by floodwaters, and a family that lived on the road was stranded.							
Chariton County									
Salisbury	20	2330CST			0	0			Hail (1.00)
Carroll County									
Hale	21	0000CST			0	0			Hail (1.75)
Randolph County									
1 W Moberly	21	0115CST			0	0			Hail (0.75)
		Clusters of thunderstorms developed along a slow-moving front and moved eastward across west-central Missouri on the evening of April 20. Many of the affected areas were hit by two waves of storms, which produced large hail and heavy rainfall. Commissioners reported an estimated 2 to 3 inches of rain fell in northern Saline County.							
Cooper County									
Wooldridge	22	1710CST			0	0			Hail (0.75)
Adair County									
Connelsville	08	1155CST			0	0			Hail (0.75)
Schuyler County									
Queen City	08	1200CST			0	0			Hail (0.75)
		Dime size hail covered the ground.							
Atchison County									
4 SW Fairfax	08	1300CST			0	0			Thunderstorm Wind (G57)
		Unspecified wind damage was reported along I-29.							
Holt County									
Corning	08	1300CST			0	0	25K		Thunderstorm Wind (G57)
		Semi truck blown over on I-29.							

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	
MISSOURI, Northwest									
Ray County									
1 N Richmond	08	1320CST			0	0	20K		Thunderstorm Wind (G57)
		Barn blown down							
Andrew County									
3 NW Fillmore to 3 W Bolckow	08	1330CST 1340CST	8	75	0	2	500K	250K	Tornado (F1)
		The tornado touched down northwest of Fillmore and moved rapidly northeast...destroying 6 homes from 3 miles NW of Fillmore to the intersection of Highways Y and H. Near this intersection, a grain bin was heavily damaged and an empty semi trailer truck was blown into a pond. Numerous trees and power lines were downed along the path. Tree damage clearly denoted the path length and width along the track. An eyewitness near the intersection of Y and H highways witnessed the tornado formation and rushed to one of the damaged homes. These two minor injuries were to residents of two mobile homes damaged 3 miles NW of Fillmore.							
Nodaway County									
5.5 SW Pumpkin Center to Pumpkin Center	08	1340CST 1345CST	5.5	75	0	0	250K	100K	Tornado (F1)
		The same tornado that formed 3 miles NW of Fillmore (Andrew County) continued northeast and dissipated near Pumpkin Center. Damage to barns, outbuildings, trees and power lines occurred on the west side of Pumpkin Center.							
Andrew County									
3 N Fillmore	08	1353CST			0	0			Thunderstorm Wind (G52)
Jackson County									
Raytown	08	1408CST			0	0			Thunderstorm Wind (G52)
		Tree limbs downed (3-inch diameter)							
Carroll County									
3 W Bosworth to 5 NE Bosworth	08	1520CST	6.5	200	0	0	300K	100K	Tornado (F2)
		The tornado touched down 3 miles west of Bosworth and moved northeast into Chariton and Macon Counties. A home was destroyed 1 mile north of Bosworth and several large trees were downed before the tornado moved into Chariton County.							
Livingston County									
7 E Chillicothe to 7 N Wheeling	08	1520CST 1528CST	7	75	0	0	250K	150K	Tornado (F1)
		The tornado touched down 7 miles east of Chillicothe, destroying a maching shed and downing several telephone poles and trees. Before dissipating 7 miles north of Wheeling, a pole barn, grain bin, and a small garage was destroyed near the point where the tornado lifted.							
Chariton County									
5 W Triplett to 5 NW Wien	08	1527CST 1603CST	26	200	0	0	600K	100K	Tornado (F2)
		The Carroll County tornado continued northeast across Chariton County damaging or destroying several outbuildings near Mendon and 5 miles south of Marceline. In addition, a single family home suffered minor damage, and a mobile home was damaged 5 miles south of Marceline.							
Linn County									
2 W Meadville	08	1530CST			0	0			Thunderstorm Wind (G61)
		Trees downed.							
Livingston County									
1 N Wheeling	08	1535CST			0	0			Thunderstorm Wind (G61)
		Trees downed.							
Linn County									
Marceline	08	1545CST			0	0			Thunderstorm Wind (G57)
Henry County									
7 W Windsor	08	1557CST			0	0			Thunderstorm Wind (G61)
Johnson County									
Pittsville	08	1600CST			0	0			Thunderstorm Wind (G57)
		Trees down							
Macon County									
7 SW New Cambria to 2 W Atlanta	08	1603CST 1620CST	21	440	0	2	1M	400K	Tornado (F2)
		The tornado which formed in Carroll County continued northeast through Chariton County and into Macon County, where the most widespread damage occurred. Continuous damage was observed from 2 miles south of New Cambria, where two workers suffered minor injuries at a mining quarry, to 2 miles west of Atlanta. Within this area, thirteen single family homes and 9 mobile							

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	

MISSOURI, Northwest

homes were destroyed. Six single family homes and 4 mobile homes suffered major damage, and 33 single family homes and one mobile home suffered minor damage. Eighty-five agricultural outbuildings were destroyed, and 37 sustained damage. Widespread tree and power pole damage occurred.

Henry County

Windsor **08** **1610CST** **0** **0** **Thunderstorm Wind (G61)**

Pettis County

8 W Sedalia **08** **1615CST** **0** **0** **75K** **Thunderstorm Wind (G61)**

Thunderstorm winds knocked down a pole barn and several large signs; 7 vehicles were damaged

Macon County

1 SE Atlanta to **08** **1625CST** **10** **440** **0** **0** **500K** **250K** **Tornado (F2)**
10 NE Atlanta **1635CST**

After dissipating just west of Atlanta, a new tornado touched down 1 mile southeast of Atlanta and moved northeast into Knox County. In Macon County, 5 single family residences and 3 mobile homes were destroyed from 2 miles east of Atlanta to 10 miles northeast of Atlanta. Four single family homes were damaged within this area. Several outbuildings were also damaged or destroyed. Some damage south of the tornado track was likely due to the very intense rear flank downdraft, which storm spotters observed to accompany the storm.

Cooper County

4 S Boonville to **08** **1630CST** **4** **75** **0** **0** **750K** **50K** **Tornado (F1)**
4 SE Boonville **1635CST**

A tornado developed 4 miles south of Boonville and moved quickly northeast, damaging a church and downing several trees and power poles 4 miles south of Boonville. Three eighteen-wheelers were overturned.

Cooper County

5 S Boonville **08** **1655CST** **0** **0** **50K** **Thunderstorm Wind (G61)**

Thunderstorm winds blew the roof off of a church.

Severe weather broke out in northwest and west-central Missouri around midday on April 8. Storms tracked rapidly northeastward and moved into central and north-central Missouri by early evening. The outbreak included at least five tornadoes, one of which moved along a 54-mile path across three counties. Reports of thunderstorm wind damage were also widespread throughout the area.

MOZ001-014-020-023-028>032-037>040-044-046-054 **Atchison - Daviess - Buchanan - Livingston - Platte - Clay - Ray - Carroll - Chariton - Jackson - Lafayette - Saline - Howard - Johnson - Cooper - Henry**

14 **0000CST** **0** **0** **Flood**
22 **2359CST**

A two-day heavy rain event produced up to 3 inches of rainfall across portions of northeast Kansas and northwest Missouri on April 13-14, and resulted in extensive minor to moderate river flooding, which lasted from the 15th until as late as April 21. Streams that flooded included the Missouri at St. Joseph, Sibley, Napoleon, Waverly, Miami, Glasgow, and Boonville, the South Grand River at Ulrich, Petite Saline Creek at Boonville, Big Creek near Blairstown, Crooked River near Richmond, Wakenda Creek at Carrollton, the Blackwater River at Valley City and Blue Lick, Moniteau Creek at Fayette, the Lamine River near Otterville, Tarkio River at Fairfax, Chariton River near Prairie Hill, the Little Platte near Smithville, the Fishing River near Mosby, the Platte River near Agency, Sharps Station, and Platte City, and the Grand River at Pattonsburg, Gallatin, Chillicothe, Sumner, and Brunswick.

MOZ001-020-028>030-032-037>040-044-054 **Atchison - Buchanan - Platte - Clay - Ray - Chariton - Jackson - Lafayette - Saline - Howard - Johnson - Henry**

26 **0000CST** **0** **0** **Flood**
30 **2359CST**

On April 26, the third heavy rain event of the month produced 1-3 inches of rainfall across much of northwest and west-central Missouri, as well as sections of eastern Kansas. The highest storm totals occurred in west-central Missouri, south and east of Kansas City. WFO Pleasant Hill measured a storm total of 2.38 inches and at Ulrich, 3.23 inches of rain fell. Widespread minor to moderate river flooding resulted, with several sites remaining in flood into the month of May. Streams that exceeded flood stage include the Missouri at St. Joseph, Kansas City, Sibley, Napoleon, Waverly, Glasgow, and Boonville, Big Creek near Blairstown, the Crooked River near Richmond, the Blackwater River at Valley City and Blue Lick, Moniteau Creek at Fayette, the Tarkio River near Fairfax, Blue River near Bannister Road in Kansas City, the Little Platte near Smithville, the Fishing River at Mosby, the Platte at Agency, Sharps Station, and Platte City, and the Grand River at Sumner and Brunswick. On April 28, the Army Corps of Engineers closed the Missouri River to navigation between St. Joseph and Miami, MO, due to the high water.

MOZ020-023-029>032-037>040-046-054 **Buchanan - Livingston - Clay - Ray - Carroll - Chariton - Jackson - Lafayette - Saline - Howard - Cooper - Henry**

22 **0000CST** **0** **0** **Flood**
30 **2359CST**

Thunderstorms brought very heavy rain to parts of west-central Missouri on April 22, causing flash flooding in the Kansas City

Storm Data and Unusual Weather Phenomena

April 1999

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

metro area, and minor to moderate river flooding in several locations in northwest and west central Missouri. Estimated rain totals of 1-2 inches were common throughout the metro area and into Ray County. River flooding occurred along the Missouri near St. Joseph, Sibley, Napoleon, Waverly, Miami, Glasgow, and Boonville, the South Grand at Urich, the Crooked River at Richmond, Wakenda Creek at Carrollton, the Little Platte near Smithville, the Fishing River at Mosby, and the Grand River at Chillicothe, Sumner, and Brunswick. Continued rainfall over the following several days kept some of the flooded streams above flood stage into the month of May.

Clay County									
Countywide	22	1200CST 1700CST			0	0			Urban/Sml Stream Fld
Jackson County									
Countywide	22	1200CST 1700CST			0	0	25K		Flash Flood
Platte County									
Countywide	22	1200CST 1700CST			0	0			Flash Flood

Thunderstorms on April 22 produced excessive rainfall across the Kansas City metro area, resulting in flash flooding in Jackson and Platte Counties, as well as urban and small stream flooding in Clay County. Kansas City International Airport reported 1.82 inches of rain in 2 hours, and a total of 2.26 inches for the day. The downtown Kansas City airport also received over 2 inches of rain. Media sources reported water up to car windows and water damage inside a restaurant in Westport. Reports were also received of rescues from vehicles stalled in high water in Kansas City. Emergency managers reported numerous road closings due to high water, mainly north of Kansas City in Platte and Clay Counties. One death was an indirect result of the flooding, as a man was swept into a drain pipe after falling into a drainage ditch in Platte County.

MISSOURI, Southeast

Scott County									
Lusk	03	1403CST			0	0			Hail (0.75)
Carter County									
4 E Van Buren	03	1755CST			0	0	20K		Thunderstorm Wind
A mobile home was overturned along Highway 60.									
Stoddard County									
Advance	03	1320CST			0	0			Hail (0.75)
Cape Girardeau County									
Delta to Cape Girardeau	03	1311CST			0	0			Hail (1.00)
Dime to quarter size hail fell across southern Cape Girardeau County.									
Wayne County									
Piedmont	03	1818CST			0	0	30K		Thunderstorm Wind
Two garages were blown down.									
Scott County									
Morley	03	1335CST			0	0	5K		Thunderstorm Wind
Trees and one utility pole were downed.									
Cape Girardeau County									
Cape Girardeau	03	1329CST			0	0			Hail (0.75)
Wayne County									
Williamsville to Silva	05	1520CST			0	0	3K		Thunderstorm Wind
Trees were down near Silva and along Highway 49 in Williamsville.									
New Madrid County									
Portageville	05	1615CST			0	0	5K		Thunderstorm Wind (G50)
Tree limbs and power lines were blown over.									
Ripley County									
.5 SW Naylor to .5 NE Naylor	05	1838CST 1841CST	1	250	0	0	30K		Tornado (F1)
National Weather Service surveys revealed a short-lived tornado passed through the Naylor area. Witnesses reported the lowest portion of the funnel cloud was not visible near the ground, however, damage along the path of the funnel indicates the circulation was in contact with the ground. The funnel may have been difficult to see given the time of day, which was just after sunset. The first damage was to a metal building at a farm located 1/2 mile southwest of Naylor. Further northeast, the roof of the Lucy Lee									

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	
MISSOURI, Southeast									
Clinic was damaged, shingles were damaged on a few houses, and trees and power lines were down. One of the trees fell on a house. Top winds were estimated near 80 MPH.									
Wayne County									
11 S Greenville	05	1510CST			0	0	8K		Thunderstorm Wind
Just west of Lake Wappapello, six to ten trees were blown over onto power lines.									
Bollinger County									
Glenallen	05	1545CST			0	0	25K		Thunderstorm Wind
Several trees were blown down, and barn roofs were blown away.									
Butler County									
Poplar Bluff	05	1900CST			0	0			Thunderstorm Wind (G52)
Tree tops were taken out of a few trees near Poplar Bluff.									
Stoddard County									
Dexter to 2 N Bloomfield	05	1600CST			0	0	6K		Thunderstorm Wind (G52)
Trees were blown down on County Road 624 in Dexter. Trees and power lines were down on County Road 512 just north of Bloomfield.									
Perry County									
Brewer to Perryville	05	1600CST			0	0	20K		Thunderstorm Wind
In Perryville, garage doors were blown in and damaged. Stop signs were bent, and a "for sale" sign was blown across a road. Tree tops were knocked out of trees. Near Brewer, several trees were knocked over, and a garage was heavily damaged.									
MOZ076-087									
Perry - Cape Girardeau									
	18	1900CST			0	0			Flood
	30	2359CST							
Heavy rainfall during the first half of April sent the Mississippi River above flood stage. Rainfall amounts during the first six days of the month ranged from one and one-half to over 4 inches. At Cape Girardeau, where flood stage is 32 feet, the river crested at 35.6 feet on the 22nd. This resulted in minor flooding of primarily agricultural areas. The Mississippi remained below flood stage at New Madrid.									
MOZ100									
Wayne									
	03	1600CST			0	0	20K		Flood
	05	2200CST							
Heavy rain during the first few days of April sent the St. Francis River rising an incredible 23.9 feet in 24 hours between the 3rd and 4th. At Patterson, where flood stage is 16 feet, the river crested at 30.79 feet on the morning of the 4th. This was the fourth highest crest on record. Rainfall of 6 to 8 inches in the headwater basin of the river caused this major flood. Highway 34 between Patterson and Silva was under two feet of water. Highway 143 at Sam A. Baker State Park and Highway FF were closed. Evacuations of campgrounds along the river were conducted.									
MOZ100									
Wayne									
	15	0300CST			0	0			Flood
		2200CST							
Widespread heavy rainfall between 1 and 3 inches sent the St. Francis River out of its banks. At Patterson, where flood stage is 16 feet, the river crested at 17.44 feet on the afternoon of the 15th. This resulted in minor flooding of bottomland and low-lying areas.									
Bollinger County									
Countywide	03	1015CST			0	0			Flash Flood
		1215CST							
Thunderstorms produced around 2 inches of rain in 90 minutes. Water was reported over the road around N Highway.									
Wayne County									
Countywide	03	1050CST			0	0			Flash Flood
		1230CST							
Thunderstorms produced around 3 inches of rain in 2 hours. Water was reported over rural and secondary roads in the Lake Wappapello area.									
Perry County									
Countywide	03	1130CST			0	0			Flash Flood
		1300CST							
Thunderstorms with heavy rain caused rises on local creeks and streams.									
Bollinger County									
Countywide	03	1300CST			0	0			Flash Flood
		2251CST							

Storm Data and Unusual Weather Phenomena

April 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, Southeast									
Perry County									
Countywide	03	1300CST 1630CST			0	0			Flash Flood
Wayne County									
Countywide	03	1300CST 2251CST			0	0			Flash Flood
County emergency management officials reported major flash flooding due to extended heavy rains from thunderstorms. In Perry County, Saline Creek covered Route T, causing that road to be closed. The intersection of Highway 61 and Main Street in Perryville was also closed. In Bollinger County, the Castor River rose well out of its banks, topping two 20-foot bridges. In Wayne County, numerous roads were under water.									
MOZ086-100									
Bollinger - Wayne									
	03	2251CST			0	0	20K		Flood
	04	0300CST							
Law enforcement officials reported flooding continued as a result of very heavy thunderstorm rains the previous afternoon and evening. Most of the flooding in Bollinger County was around Zalma and Marble Hill. Near Zalma, the Castor River overflowed across two bridges. In Wayne County, the flooding was mostly from Greenville to Patterson.									
Perry County									
Perryville	03	1955CST			0	0			Flash Flood
Several streets and roads were reportedly under water. Thunderstorms with heavy rain repeatedly moved through the county. Rainfall totals were 2 to 3 inches for this storm event.									
Cape Girardeau County									
Whitewater	03	1900CST 2030CST			0	0			Urban/Sml Stream Fld
Thunderstorms with heavy rain occurred numerous times over a 12-hour period, producing rainfall totals up to 3 inches in northern and western Cape Girardeau County. At one point, officials reported a foot of water over County Road 379 at Whitewater.									
MISSOURI, Southwest									
Texas County									
3 NW Upton	03	0610CST			0	0			Hail (0.75)
Wright County									
Embree	03	0610CST			0	0			Hail (0.75)
Shannon County									
Winona	03	0605CST			0	0			Hail (1.00)
Stone County									
Kimberling City to 5 SE Kimberling City	03	1415CST			0	0	550K		Thunderstorm Wind (G70)
Thunderstorm winds produced widespread damage in the Kimberling City and Branson West areas. Some specific reports:									
Winds destroyed a portion of a motel roof in Branson West. Severe roof damage to a number of homes and outbuildings was also reported. One mobile home with 10 occupants was destroyed. No injuries were reported.									
A car dealership east of Kimberling City sustained damage to a number of vehicles. Numerous trees and boat docks on Table Rock Lake were damaged.									
In Kimberling City, a billboard was blown down onto power lines cutting off power to 800 customers for several hours.									
Stone County									
Reeds Spg	03	1415CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds destroyed or severely damaged outbuildings.									
Taney County									
Branson	03	1425CST			0	0	30K		Tstm Wind/Hail
Thunderstorm wind gusts estimated at 60 mph produced damage downed trees and power lines in the Branson area. Dime sized hail was also reported.									
Christian County									
1 E Chestnutridge	03	1454CST			0	0	10K		Thunderstorm Wind
Thunderstorm winds blew an outbuilding roof onto a highway.									

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	
MISSOURI, Southwest									
Christian County									
Sparta	03	1458CST			0	0			Thunderstorm Wind (G52)
Webster County									
1 N Diggins	03	1510CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed a tree onto Hwy O north of Diggins.									
Douglas County									
Ava	03	1535CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees in Ava.									
Oregon County									
2 SE Thayer to 3 S Couch	03	1715CST 1730CST	6	50	0	0	50K		Tornado (F0)
An F0 tornado crossed the Missouri-Arkansas state line southeast of Thayer and left a broken 50 yard wide damage path to an area south of Couch. A barn southeast of Thayer was destroyed and trees were uprooted along the tornado's path.									
Webster County									
7 N Seymour	08	1815CST	0.1	15	0	0	20K		Tornado (F0)
An F0 tornado made a brief touchdown pulling a well built machine shed off of it's foundation and destroying it.									
Oregon County									
Thayer	03	1615CST			0	0			Hail (0.75)
Wright County									
5 S Grovespring	03	1540CST			0	0			Thunderstorm Wind (G60)
Texas County									
Licking	03	1642CST			0	0	0		Thunderstorm Wind
Oregon County									
6 SE Alton	03	1700CST			0	0	1K		Thunderstorm Wind
Thunderstorm winds downed trees and tipped over a sheep shed.									
Oregon County									
Alton	03	1630CST			0	0	6K		Thunderstorm Wind
Thunderstorm winds downed power lines.									
Dent County									
Lenox	03	1650CST			0	0			Hail (0.75)
Oregon County									
Thayer	03	1715CST			0	0	30K		Thunderstorm Wind
Thunderstorm winds damaged homes, trees, power lines, and power poles in and near Thayer.									
Oregon County									
8 E Thayer	03	1730CST			0	0	15K		Thunderstorm Wind
Thunderstorm winds knocked down a Burlington Northern Railroad radio tower.									
Oregon County									
Countywide	03	1800CST 2100CST			0	0			Flash Flood
Thunderstorms produced minor flooding of creeks and low water crossings.									
St. Clair County									
Vista	05	1200CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees near Vista.									
St. Clair County									
4 SE Lowry City	08	1615CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees.									
Benton County									
18 N Warsaw	08	1645CST			0	0			Thunderstorm Wind (G58)
Benton County									
Cole Camp	08	1645CST			0	0			Thunderstorm Wind (G60)
Benton County									
Edwards	08	1655CST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed trees and damaged a trailer in southeastern Benton County.									
Morgan County									
3 SE Gravois Mills	08	1717CST			0	0	30K		Thunderstorm Wind
Thunderstorm winds damaged boat docks and blew the roof off of one home.									

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	
MISSOURI, Southwest									
Camden County									
5 N Climax Spgs	08	1700CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees.
Christian County									
3 N Ozark	08	1745CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds damaged large tree limbs.
Miller County									
Eldon	08	1727CST			0	0	0		Tstm Wind/Hail
									Thunderstorms produced nickel sized hail and tree damage.
Christian County									
Ozark	08	1753CST			0	0	8K		Thunderstorm Wind
									Thunderstorm winds downed trees and power poles.
Christian County									
Chadwick	08	1755CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees.
Wright County									
Hartville	08	1820CST			0	0	3K		Thunderstorm Wind (G52)
									Thunderstorm winds downed trees and power lines in and around Hartville.
Webster County									
2 W Fordland	08	1810CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew part of a roof off of a trailer.
Webster County									
4 NE Seymour	08	1815CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed several trees.
Douglas County									
5 S Ava	08	1835CST			0	0	0		Thunderstorm Wind
									Thunderstorm winds downed trees.
Shannon County									
Countywide	14	1715CST 2100CST			0	0			Flash Flood
									Heavy rain from thunderstorms produced minor flooding of low water crossings and creeks.
Vernon County									
Countywide	14	1845CST 2100CST			0	0			Flash Flood
									Thunderstorms produced flooding on a number of secondary roads and low water crossings.
Maries County									
Belle	21	0547CST			0	0			Hail (0.75)
Mcdonald County									
3 W Anderson	22	1711CST			0	0			Hail (1.00)
Mcdonald County									
Powell	22	1725CST			0	0			Thunderstorm Wind (G52)
Mcdonald County									
2 N Powell	22	1743CST			0	0			Tstm Wind/Hail
									A severe thunderstorm produced golfball sized hail and 50 knot winds.
Mcdonald County									
Countywide	22	1825CST 2100CST			0	0			Flash Flood
									Heavy rain from thunderstorms produced the flooding of low water crossings near Anderson and Happy Hollow.
Barry County									
Exeter	22	1810CST			0	0			Hail (0.75)
Mcdonald County									
8 E Pineville	22	1819CST			0	0			Hail (0.75)
Barry County									
Seligman	22	1852CST			0	0			Hail (0.75)
Jasper County									
Countywide	25	0858CST 1500CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

April 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>									
Barton County									
Countywide	25	1105CST 1500CST			0	0			Flash Flood
Greene County									
Countywide	25	1110CST 1600CST			0	0			Flash Flood
Lawrence County									
Countywide	25	1245CST 1600CST			0	0			Flash Flood
Newton County									
Countywide	25	1250CST 1500CST			0	0			Flash Flood
Mcdonald County									
Countywide	25	1350CST 1500CST			0	0			Flash Flood
Dade County									
Countywide	25	1415CST 1600CST			0	0			Flash Flood
Thunderstorms produced heavy rain and flooding over a portion of southwest Missouri. The hardest hit areas were in the Lamar and Joplin areas where numerous roads were flooded. Some homes and businesses in Lamar had minor flood damage.									
Jasper County									
Countywide	26 27	1405CST 0600CST			0	0			Flood
Barton County									
Countywide	26 27	1420CST 0600CST			0	0			Flood
Vernon County									
Countywide	26 27	1500CST 0600CST			0	0			Flood
Newton County									
Countywide	26 27	1554CST 0600CST			0	0			Flood
Ozark County									
Countywide	26	1900CST 2200CST			0	0			Flood
Webster County									
Countywide	26	1900CST 2200CST			0	0			Flood
Wright County									
Countywide	26	1900CST 2200CST			0	0			Flood
Thunderstorms produced flooding of low lying areas, creeks, and low water crossings.									
St. Clair County									
Appleton City	21	0230CST			0	0	8K		Lightning
Lightning struck 6 homes in the Appleton City area causing minor damage.									
<u>MONTANA, Central</u>									
MTZ008 Beaverhead									
	08	2100MST			0	0			Heavy Snow
	09	1300MST							
GRANT 6 INCHES...LIMA 10 INCHES									
MTZ015 Gallatin / Madison									
	08	2100MST			0	0			Heavy Snow
	09	1300MST							
BIG SKY 12 INCHES...BOZEMAN 7 INCHES...VIRGINIA CITY 6 INCHES...WEST YELLOWSTONE 6 INCHES.									
MTZ010 Eastern Glacier / Eastern Pondera / Toole / Liberty									
	12	1900MST			0	0			High Wind (G54)
CUT BANK AIRPORT									

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	
<u>MONTANA, Central</u>									
MTZ013	Fergus / Judith Basin								
	21	1000MST			0	0			Heavy Snow
	22	1100MST							
	LEWISTOWN 7 INCHES								
MTZ009	Rocky Mountain Front								
	21	1700MST			0	0			Heavy Snow
	22	1100MST							
	ST MARY 12 INCHES...EAST GLACIER 8 INCHES...BABB 8 INCHES.								
MTZ009	Rocky Mountain Front								
	28	1000MST			0	0			Heavy Snow
	29	1900MST							
	HEART BUTTE 12 INCHES...PENDROY 8 INCHES.								
MTZ011	Blaine / Chouteau / Hill								
	29	0500MST			0	0			Heavy Snow
		1900MST							
	SHONKIN 7S 6 INCHES								
MTZ012	Cascade / Eastern Teton								
	29	0500MST			0	0			Heavy Snow
		1900MST							
	TIGER BUTTE 12 INCHES...POWER 6SE 6 INCHES...GREAT FALLS 6 INCHES.								
MTZ013	Fergus / Judith Basin								
	29	0500MST			0	0			Heavy Snow
		1900MST							
	RAYNESFORD 7 INCHES...LEWISTOWN 10S 6 INCHES.								
MTZ014	Broadwater / Jefferson / Meagher / Central And Southern Lewis And Clark								
	29	0900MST			0	0			Heavy Snow
		1900MST							
	AUSTIN 1W 12 INCHES...ROGERS PASS 11 INCHES...GIBSON DAM 8 INCHES...HELENA 6 INCHES.								
MTZ008	Beaverhead								
	29	0900MST			0	0			Heavy Snow
		1900MST							
	LIMA 9 INCHES								
<u>MONTANA, East</u>									
McCone County									
10 SE Vida	09	1500MST			0	0			Flash Flood
		1712MST							
Daniels County									
12 S Scobey	09	1535MST			0	0			Flash Flood
		2015MST							
Roosevelt County									
30 NNW Wolf Pt	09	1736MST			0	0			Flash Flood
		2015MST							
Very heavy rain falling at the rate of nearly 2 inches in an hour inundated portions of Daniels, McCone and Roosevelt Counties. Streams left their banks and several secondary roads had significant amounts of runoff covering their surfaces. Total precipitation from the three to four hour event reached 3 inches along the Daniels-Roosevelt County line.									
Garfield County									
5 E Edwards	28	1900MST			0	0			Hail (0.75)
<u>MONTANA, South</u>									
MTZ031-033>034-036>038	Rosebud - Fallon - Stillwater - Powder River - Carter - Big Horn								
	01	0000MST			0	0			Heavy Snow
		1800MST							
A cold front dropped south through Montana and Northern Wyoming on the afternoon of March 31. That evening a strong low pressure system crossed the Great Basin and moved into the Northern Plains. This system spread wrap around moisture which produced heavy snowfall on the morning of April 1 as it produced strong upslope in southern Montana while overriding the cold air at the lower levels. The heaviest snowfall reported was at Roscoe in Carbon County where 20 inches fell in 18 hours. Red Lodge picked up 10 inches and Boyd picked up 8 inches in the same time period. In Stillwater County, 14 inches were reported in Nye and 9 inches near Columbus. In Big Horn County, Pryor picked up 6 inches. In southeastern Montana, Alzada in Southern Carter County picked up 10 to 12 inches of snow. Boyes and Hammond both received 6 inches. Biddle in Southern Powder River County received 8 inches of snowfall and Birney in Southern Rosebud County picked up 6 inches. Northern Portions of									

Storm Data and Unusual Weather Phenomena

April 1999

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

southeastern Montana and most of South Central Montana received 2 to 5 inches of snowfall from this system.

MTZ033

Fallon

03	0400MST 1200MST				0	0			Heavy Snow
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An upper low spread wrap around moisture into southeastern Montana as it tacked north across the western Dakotas. Most of southeastern Montana received 2 to 5 inches of new snow from this system. The heaviest snowfall was in Fallon County. Baker picked up 6 inches of new snow during the morning hours.

Treasure County

Sanders

09	1245MST 1400MST				0	0			Flash Flood
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Treasure County

Sanders

09	1245MST 1300MST				0	0			Hail (0.88)
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A spotter in Sanders (7NE Hysham) reported nickel to dime sized hail as well as flash flooding along Starve to Death Creek as a thunderstorm moved slowly northeast over the area.

Rosebud County

5 E Vananda

09	1300MST 1500MST				0	0			Flash Flood
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Rosebud County

5 E Vananda

09	1330MST 1500MST				0	0			Hail (0.75)
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A spotter 5E Vananda in northwestern Rosebud County reported dime sized hail accumulating between 15 and 20 inches from a slow moving thunderstorm. The storm also produced flash flooding in parts of northwestern Rosebud County.

MTZ034

Stillwater

09	1700MST				0	0			Heavy Snow
10	0500MST								

A low pressure system developed over Utah during the afternoon of April 9 and moved into Wyoming that evening. This system crossed Wyoming overnight then moved into South Dakota. The system produced 6 inches of new snow in Red Lodge.

MTZ034

Stillwater

22	1500MST 2300MST				0	0			Heavy Snow
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Moisture rotating around an upper low in the Great Basin brought heavy snowfall to the foothills of the Beartooth Mountains in Carbon County. From 8 to 12 inches of new snow were reported in the Red Lodge area.

Carbon County

6 S Belfry

28	1615MST				0	0			Hail (1.75)
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A spotter reported golf ball sized hail.

Carbon County

10 S Bridger

28	1630MST				0	0			Thunderstorm Wind (G52)
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A spotter reported a 60 mph wind gust with a thunderstorm.

Rosebud County

Ingomar

28	1705MST				0	0			Hail (0.88)
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Nickel to dime sized hail was reported in Ingomar.

Rosebud County

Sumatra

28	1718MST				0	0			Hail (0.75)
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Nickel sized hail was reported in Sumatra.

Yellowstone County

5 SE Billings to Billings Hgts

28	1905MST 1925MST				0	0			Hail (1.75)
-----------	----------------------------	--	--	--	----------	----------	--	--	--------------------

Hail as large as golf ball size fell southeast of Billings and in Billings Heights. The KTVQ television transmitter facility near Emerald Hill was damaged by hail.

Yellowstone County

Lockwood

28	1905MST				0	0			Hail (1.00)
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MTZ034

Stillwater

29	0000MST 1200MST				0	0			Heavy Snow
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Moisture rotating around an upper level low pressure system in the Great Basin moved over colder air at the surface in South Central Montana. The resulting precipitation fell as snow above 4000 feet. Nye picked up 8 to 10 inches while Red Lodge picked up 5 inches.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, West</u>									
NONE REPORTED.									
<u>NEBRASKA, Central</u>									
NEZ057-059-069		Keith - Lincoln - Chase							
	08	1500CST 1900CST			0	0			High Wind (G68)
A strong low pressure system brought strong wind to a large part of southwest Nebraska. Sustained wind of 40 mph or higher with gusts as high as 68 mph began about 4 PM CDT and continued until about 8 PM CDT. Strong wind was widespread; but it was confirmed to exceed high wind criteria only in parts of southwest Nebraska.									
Logan County									
5 W Stapleton	08	1320CST			0	0			Hail (0.75)
<u>NEBRASKA, East</u>									
Boone County									
2 N St Edward	08	1122CST	1	40	0	0	15K		Tornado (F0)
Brief touchdown heavily damaged barns and other outbuildings.									
Colfax County									
5 NW Schuyler to 8 NNW Schuyler	08	1206CST 1211CST	4	150	0	0	540K		Tornado (F1)
Damage to 10 farmsteads and a 100 year old historic church.									
Saunders County									
4 S Morse Bluff to 1 N Morse Bluff	08	1207CST 1213CST	4.5	400	0	0	250K		Tornado (F1)
Of the 12 tornadoes reported over eastern Nebraska and southwest Iowa on 4/08/99 this tornado probably caused damage to the most individual buildings. In Morse Bluff, damage was sustained to 10 buildings including one business that was nearly destroyed. This tornado then tracked north/northeast and crossed the Platte River just south of North Bend and then continued into Dodge county causing damage in North Bend before lifting.									
Dodge County									
.5 S North Bend to 1 NE North Bend	08	1213CST 1216CST	1.5	400	0	0	125K		Tornado (F1)
This tornado, which caused extensive damage to Morse Bluff in Saunders county crossed the Platte River just south of North Bend and damaged 14 houses in North Bend, 2 heavily.									
Saunders County									
3 SW Yutan to .5 NW Yutan	08	1212CST 1217CST	3.5	70	0	0	40K		Tornado (F0)
Damage to center pivot, tree and grain bin damage in addition to outbuildings and fence damage.									
Washington County									
6 NE Arlington	08	1248CST 1250CST	0.1	30	0	0	10K		Tornado (F0)
Caused tree and damage to 4 outbuildings near county roads 13 and 26 near Arlington.									
Platte County									
Humphrey	21	1210CST			0	0			Hail (0.88)
Lancaster County									
Roca	21	1715CST			0	0			Hail (0.75)
Lancaster County									
Lincoln	21	1728CST			0	0			Hail (1.00)
Nickel to quarter size hail just south of Lincoln.									
Lancaster County									
Lincoln	21	1805CST			0	0			Hail (1.50)
Ping pong ball size hail in southeast Lincoln.									
Cass County									
2 S Alvo	21	1820CST	0	10	0	0			Tornado (F0)
Very brief touchdown.									
Otoe County									
4 N Douglas	21	1830CST			0	0			Hail (1.75)
Otoe County									
Palmyra	21	1840CST			0	0			Hail (1.75)
Cass County									
Nehawka	21	2105CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
NEBRASKA, East									
Dodge County									
Fremont	05	1545CST			0	0	2K		Thunderstorm Wind (G70)
Probable thunderstorm microburst hit the YMCA's skateboard park flipping picnic tables and a skating ramp and damaged a pickup truck.									
Lancaster County									
Lincoln	08	1139CST			0	0	5K		Thunderstorm Wind (G60)
Roof blown off a building									
Stanton County									
7 S Pilger	08	1223CST			0	0			Hail (1.25)
Stanton County									
4 NW Stanton	08	1230CST			0	0			Thunderstorm Wind (G65)
Machine shed destroyed.									
Nemaha County									
Peru	05	1420CST			0	0			Thunderstorm Wind (G65)
Trees uprooted.									
Cass County									
Union	21	2330CST			0	0			Flash Flood
	22	0500CST							
Around 7 inches of rain fell near Union causing Weeping Water Creek to go out of its banks and flood the intersection of highways 34 and 75. Nearly 2 feet of water was observed over that intersection at the highest.									
Saunders County									
Wahoo	08	1201CST			0	1	20K		Thunderstorm Wind (G60)
A thunderstorm downburst destroyed the roof of a garage in Wahoo and caused other damage to houses and trees in town. A man broke his arm when a storm door blew open and pushed him off his porch.									
Richardson County									
.5 W Salem	05	1332CST	0	40	0	0	3K		Tornado (F0)
Brief touchdown did some tree and outbuilding damage.									
Richardson County									
Verdon	05	1338CST	0.1	60	0	0	10K		Tornado (F1)
Empty mobil home and barn destroyed as well as roof damage to several buildings.									
Richardson County									
.2 W Shubert to 1 N Shubert	05	1345CST 1350CST	1.5	80	0	0	4K		Tornado (F0)
Outbuildings damaged, small building destroyed and windows broke out of a home due to flying debris.									
Stanton County									
1 N Pilger	08	1230CST			0	0	2K		Thunderstorm Wind (G65)
Outbuildings damaged.									
NEZ091									
Nemaha									
	15	0830CST			0	0			Flood
	18	2245CST							
Minor flooding along the Missouri river pushed the stage at Brownsville to 34.66 feet at 11 am 4/16/99, flood stage is 32 feet.									
NEZ093									
Richardson									
	15	0500CST			0	0			Flood
	18	1130CST							
Minor flooding along the Missouri River pushed the stage at Rulo to 20.8 feet at 630 pm cst 4/15/99, flood stage is 17.0 feet.									
NEZ093									
Richardson									
	23	1230CST			0	0			Flood
	28	1930CST							
Prolonged rains caused minor flooding of the Missouri river near Rulo where the gage reached 19.87 feet at 8pm cst 4/27/99, flood stage is 17.0 feet.									
NEZ093									
Richardson									
	27	0100CST			0	0			Flood
	28	0300CST							
Flooding along the Nemaha River covered Preston road in the Preston area with 12 to 18 inches of water.									
NEZ067									
Cass									
	21	2317CST			0	0			Flood
	22	0400CST							
Weeping Water Creek went out of its banks reaching 26.13 feet, flood stage is 25 feet.									

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	
<u>NEBRASKA, East</u>									
Richardson County									
4 SSW Falls City	05	1328CST	0	20	0	0	8K		Tornado (F0)
Brief touchdown downed a few power poles and outbuildings.									
<u>NEBRASKA, Extreme Northeast</u>									
NONE REPORTED.									
<u>NEBRASKA, Extreme Southwest</u>									
NEZ079>081 Dundy - Hitchcock - Red Willow									
	08	0700MST			0	0			High Wind (G82)
	10	1800MST							
A strong area of low pressure across the central US in combination with high pressure across the Rockies brought high winds to Southwest Nebraska for a three day period. These strong winds caused damage to a couple of schools, a local Post Office, several power line poles to be severed, and numerous houses had their shingles torn off. McCook airport had a peak wind speed of 57 mph on the 8th with many other locations receiving similar peak wind speeds during the event.									
<u>NEBRASKA, South Central</u>									
Fillmore County									
2 N Exeter	05	1459CST 1500CST	0.2	10	0	0	0	0	Tornado (F0)
A brief tornado was spotted two miles north of Exeter. The touchdown occurred over untilled farmland. No damage was reported.									
Hamilton County									
4 W Aurora to 5.5 NW Aurora	08	1000CST 1006CST	4	50	0	0	300K	0	Tornado (F1)
Hamilton County									
4 SE Hampton	08	1010CST			0	0	75K	0	Thunderstorm Wind (G52)
Hamilton County									
5 N Hampton	08	1015CST			0	0	70K	0	Thunderstorm Wind (G52)
Nance County									
Fullerton	08	1040CST			0	0	0	0	Hail (0.75)
Merrick County									
4 NE Clarks to 7 NE Clarks	08	1054CST 1059CST	3	40	0	0	200K	0	Tornado (F1)
Merrick County									
Silver Creek	08	1055CST			0	0	0	0	Thunderstorm Wind (G52)
Nance County									
4 S Belgrade	08	1056CST 1058CST	1	10	0	0	10K	0	Tornado (F0)
Polk County									
6 NW Stromsburg	08	1105CST			0	0	0	0	Thunderstorm Wind (G57)
Polk County									
3 W Shelby	08	1120CST			0	0	0	0	Hail (1.00)
A quick moving spring storm tapped a moderately unstable environment to produce three tornadoes across south-central Nebraska. The first occurred west of Aurora near the town of Murphy. A grain dryer at the local elevator was destroyed. Several pivots and a few outbuildings were damaged along the four mile path. Another tornado set down northeast of Clarks. A cattle shed was destroyed on one farmstead. Just to the north, four sheds, including a horse barn, were totaled at another farm. Several pivots were reported severely damaged. Yet one more tornado touched down briefly south of Belgrade damaging some fence, a chemical applicator and a barn. As the storm front passed near Hampton, a semi-tractor trailer was blown off the road and totaled. The occupants were uninjured.									
Phelps County									
8 N Bertrand	21	0831CST			0	0	0	0	Hail (0.75)
Phelps County									
15 N Holdrege	21	0839CST			0	0	2K	0	Hail (2.75)
Buffalo County									
2 S Elm Creek	21	0846CST			0	0	0	0	Hail (1.75)
Dawson County									
Overton	21	0855CST			0	0	0	0	Hail (0.75)
Buffalo County									
Elm Creek	21	0900CST			0	0	0	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

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

Howard County

1 N Dannebrog to 2 NE Dannebrog 21 1050CST 2 30 0 0 100K 0 Tornado (F2)

Howard County

2 S St Paul 21 1115CST 0.3 20 0 0 20K 0 Tornado (F0)

Greeley County

1 S Greeley 21 1128CST 0 0 0 0 Hail (0.75)

Howard County

10 NE St Paul 21 1128CST 0 0 0 0 Hail (0.75)

Thunderstorms developed west of Holdrege in the morning and spread quickly northeast to St. Paul and Greeley by noon. Early on, the thunderstorms dumped hail and torrential rainfall northeast of Holdrege. 2.75" diameter hail was reported north of Holdrege and some areas in northwest Phelps county noted three foot hail drifts. Rain and hail teamed to produce areas of erosion across freshly tilled fields. As the storms spread northeast, a brief tornado damaged a home under construction north of Dannebrog. The tornado nearly destroyed the entire main floor. Only one wall was left standing. The owner and construction crew at the house at the time escaped injury by going to the basement just before the tornado struck. Minor roof damage occurred on a nearby house. Another brief tornado touch down occurred just south of St. Paul, causing some minor damage to outbuildings.

NEBRASKA, West

NEZ055

Cheyenne

03 0045MST 2 3 50K Ice Storm

Icy roads resulted in numerous accidents on highways in the western Nebraska Panhandle. M14VE, F11VE

NEZ001>003-019>021-054>055

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

08 0430MST 0 0 8K High Wind

High winds were reported over much of the Nebraska Panhandle, with speeds of 30 to 50 mph common. Gusts as high as 69 mph were reported at Sidney, NE.

NEZ019>021-054>055

Scotts Bluff - Banner - Morrill - Kimball - Cheyenne

10 0440MST 0 0 High Wind (G54)

High winds were reported over the central and southern parts of the Nebraska Panhandle...with winds of 35 to 45 mph common. Gusts to 62 mph were reported from Sidney, NE, with gusts to 54 mph recorded at Scottsbluff, NE.

NEVADA, North

NVZ012

Lander/Eureka

01 2230PST 0 0 Heavy Snow

02 0700PST

The Eureka county sheriff reported 6 inches of snow fell overnight.

NVZ006-012

Humboldt - Lander/Eureka

03 0400PST 0 0 Heavy Snow

1400PST

6 inches of new snow was reported at Battle Mountain and 4 inches at Winnemucca.

NVZ008>009-012

Southwest And South Central Elko - Southeast Elko - Lander/Eureka

05 1730PST 0 0 Heavy Snow

06 0630PST

Heavy snowfall was reported across much of northern and east central Nevada. Some reports include: 19 inches at Jiggs, 13 inches at Wells, 12 inches at Lamoille and Diamond Valley, 11 inches at Ruby Valley, 9 inches at Spring Creek and Kingston, 6 inches at Austin, 4 inches at Elko, Eureka, Jackpot, and Oasis.

NVZ012

Lander/Eureka

08 1800PST 0 0 Heavy Snow

09 0100PST

9 inches of snow fell at Austin and 6 inches at Eureka.

NVZ011

White Pine

29 0800PST 0 0 Heavy Snow

1900PST

The Nevada Highway Patrol reported 8 inches of snow on the ground just north of McGill.

Elko County

10 S Wells

29 1820PST 0 0 Hail (1.50)

The Nevada Highway Patrol reported golf ball size hail 10 miles south of Wells along highway 93.

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	
<u>NEVADA, North</u>									
NVZ012			Lander/Eureka						
	28	1500PST			0	0			Heavy Snow
	29	0100PST							
	10 inches of snow was reported on Big Creek summit in southeast Lander county.								
<u>NEVADA, South</u>									
NVZ017			Western Clark/Southern Nye						
	03	1300PST			0	0	50K		High Wind
		1600PST							
	Damaging winds whipping through the Pahrump Valley overturned at least one unsecured trailer home and tore roofs and awnings off a few other homes. The windstorm, associated with a strong cold front, reached its peak during the afternoon of April 3.								
NVZ019			Spring Mountains						
	03	1300PST			0	0			Heavy Snow
	04	0300PST							
	A spring storm blanketed the southern Nevada mountains with snow. In the Springs Mountains, the 7,000 foot level in Kyle Canyon received 10 inches of snow and the 8,500 foot level in Lee Canyon picked up 12 inches accumulation.								
NVZ015			Lincoln County Except The Sheep Range						
	03	1800PST			0	0			Heavy Snow
	04	0300PST							
	A significant amount of snow fell over most of Lincoln County with several locations reported between 3 and 5 inches of accumulation. However, 12 inches of snow was reported east of Panaca along Highway 319 near the Utah border. The deep snow made Highway 319 impassable for a few hours.								
NVZ019			Spring Mountains						
	22	1100PST			0	0			Heavy Snow
	23	0400PST							
	Persistent snow showers over the Spring Mountains left a total of 13 inches in Lee Canyon (8,500 feet). The heavy snow was quite localized as the remainder of extreme southern Nevada saw only scattered light precipitation.								
NVZ019			Spring Mountains						
	29	0900PST			0	0			Heavy Snow
	30	0900PST							
Clark County									
Las Vegas	30	0100PST			0	1			Urban/Sml Stream Fld
		0900PST							
	Another in a series of spring storms left significant amounts of precipitation across extreme southern Nevada. The Las Vegas Valley received amounts between one-half (0.50) and three-quarters (0.75) of an inch of rain which filled washes around the metro area with one or two feet of water and flooded some underpasses and low-lying intersections. One person had to be rescued from the Flamingo Wash but only received minor injuries. The Spring Mountains received 10 to 12 inches of snow on previous snowpack but temperatures were too warm for any significant accumulations on paved roads.								
<u>NEVADA, West</u>									
NVZ003			Greater Reno/Carson City/Minden Area						
	03	0930PST			0	0	0		Heavy Snow
		0950PST							
	1 inch of snow in 20 minutes reported in Steamboat, elevation 4600 feet.								
NVZ003			Greater Reno/Carson City/Minden Area						
	03	0800PST			0	0	50K	0	Heavy Snow
		1200PST							
	Several automobile accidents reported due to near blizzard conditions in the valleys of western Nevada. Near zero to zero visibility was reported at times throughout the area. Only minor injuries reported.								
NVZ003			Greater Reno/Carson City/Minden Area						
	03	0900PST			0	0	0		Heavy Snow
		1215PST							
	3 inches of snow reported in 3.5 hours in south Reno.								
NVZ003			Greater Reno/Carson City/Minden Area						
	05	0214PST			0	0	0		High Wind (G64)
	Peak wind gust of 64 knots recorded by Nevada Dept. of Transportation wind sensor in Washoe Valley.								
NVZ002			Greater Lake Tahoe Area						
	05	0445PST			0	0	0		Heavy Snow
	06	0445PST							
	18-24 inches of snow in a 24 hour period recorded at Mt. Rose Ski Resort.								

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm	
<u>NEVADA, West</u>										
NVZ003			Greater Reno/Carson City/Minden Area							
	05	0545PST			0	0	0		Heavy Snow	
	06	0545PST								
	8-7 inches of snow in 24 hours in Dayton, elevation 4440 feet.									
NVZ003			Greater Reno/Carson City/Minden Area							
	05	2200PST			0	0	0		Heavy Snow	
	06	0630PST								
	8 inches of snow in 8.5 hours reported six miles north of Gardnerville, elevation 4700.									
NVZ003			Greater Reno/Carson City/Minden Area							
	05	0645PST			0	0	0		Heavy Snow	
	06	0645PST								
	Storm total of 9 inches of snow reported at Galena Forest near Reno, elevation 6000 feet.									
NVZ003			Greater Reno/Carson City/Minden Area							
	05	0900PST			0	0	0		Heavy Snow	
	06	0855PST								
	8 inches of snow in 24 hours recorded five miles south of Carson City, elevation 4700 feet.									
NVZ003			Greater Reno/Carson City/Minden Area							
	05	2330PST			0	0	0		Heavy Snow	
	06	0900PST								
	7 inches of snow in 9.5 hours recorded in south Reno.									
NVZ004			Western Nevada Basin And Range							
	05	2115PST			0	0	0		Heavy Snow	
	06	0915PST								
	5 inches of snow in a 12 hour period in Fernley, elevation 4160 feet.									
NVZ004			Western Nevada Basin And Range							
	06	0600PST			0	0	0		Heavy Snow	
		1010PST								
	3 inches of snow in 4 hours with a storm total of 6 inches at Lahontan Reservoir State Park, elevation 4169 feet.									
NVZ001			Mineral/Southern Lyon							
	05	1205PST			0	0	0		Heavy Snow	
	06	1205PST								
	Storm total of 6 inches of snow near Wellington, elevation 4900 feet.									
NVZ002			Greater Lake Tahoe Area							
	08	0400PST			0	0	0		Heavy Snow	
	09	0400PST								
	12-16 inches of snow in a 24 hour period at Mt. Rose Ski Area.									
<u>NEW HAMPSHIRE, North and Central</u>										
NHZ001>010- 013>014			Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham							
	01	0001EST			0	0			Dryness	
	30	2359EST								
	Lack of precipitation during April throughout the state initiated concerns for crop and domestic water supplies. In Concord, April 1999 was the 3rd driest April ever recorded, with only 0.83 inches of precipitation during the month. The record driest April of 0.42 inches occurred in 1941. Normal April precipitation for Concord is 2.91 inches. The dryness also led to an increase in the threat of forest fires across the state.									
<u>NEW HAMPSHIRE, Southern</u>										
NONE REPORTED.										
<u>NEW JERSEY, Northeast</u>										
Essex County										
East Orange	16	1600EST			0	1			Lightning	
	A 15 year old boy was struck by lightning while playing baseball at West Orange High School. He was taken to Saint Barnabas Medical Center in Livingston, where he was listed in critical condition.									
<u>NEW JERSEY, South and Northwest</u>										
Atlantic County										
Mays Lndg	09	1940EST			0	0	0		Hail (1.75)	
Atlantic County										
Atlantic City	30	1020EST 1150EST			0	0	0	0	Wild/Forest Fire	

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	

NEW JERSEY, South and Northwest

A five acre marsh fire caused by a welder's torch was exacerbated by the unseasonably dry weather during the second half of April and very strong and gusty northeast winds. The fire started around 1120 a.m. EDT behind Harrah's within Atlantic City. Workers were building a walkway from a parking lot into the casino. The strong winds coupled with flames stretching into the marsh beyond the hoses' reach made it a difficult fire to control. Nevertheless, it was contained by 1 p.m. EDT. No injuries, property damage or evacuations occurred. The peak wind gust at the Marina within Atlantic City was 29 mph.

NEW MEXICO, Central and North

Chaves County

Lake Arthur 29 1950MST 0 0 **Hail (1.75)**

NMZ001

Northwest Plateau

10 1430MST 0 0 20K **High Wind**

A strong dust devil overturned a pantoon boat and travel trailer in Aztec.

Rio Arriba County

El Rito 29 2000MST 0 1 **Lightning**

A woman was burned slightly and windows were broken when lightning struck a home in El Rito.

Curry County

Melrose 13 0740MST 0 0 **Hail (1.75)**

Curry County

Clovis 13 0730MST 0 0 **Hail (0.75)**

Hail reported by cooperative observer in Clovis.

Chaves County

Roswell 30 0200MST 0 0 **Flash Flood**

0330MST

Street flooding reported and also 20 inches of water over Highway 285 just north of town.

Chaves County

5 NE Roswell 30 0900MST 0 0 **Flash Flood**

1030MST

Highway 70 closed due to high water.

Guadalupe County

Newkirk 30 1710MST 0 0 **Flash Flood**

1830MST

Widespread street and road closures in Newkirk due to high water.

Colfax County

2 S Cimarron 30 1100MST 0 0 **Flash Flood**

1200MST

Mora County

Mora 30 1100MST 0 0 200K **Flash Flood**

1500MST

Heavy rain developed along the east slopes of the Sangre de Cristo Mountains over western Colfax and Mora Counties. The Cimarron River came close to overflowing its banks in Cimarron while Highway 21 to the Philmont Scout Ranch Headquarters was closed for about 6 hours by high water. Rural roads and small private bridges and culverts between Mora and Gascon were washed out.

NMZ004-016>017 **Sangre De Cristo Mountains - Lincoln County High Plains/Hondo Valley - Capitan/Northern Sacramento Mountains**

01 0900MST 0 0 20K **High Wind (G63)**

1600MST

High winds swept across the state as an upper level low pressure center approached from the west. Strongest gusts exceeded 60 mph in the south central mountains. A house in Santa Fe lost its roof in gusts estimated at 55 mph.

NMZ002-008-014 **Northwest Mountains Including Jemez - Westcentral Mountains - Southwest Mountains/Upper Gila Region**

01 2300MST 0 0 **Heavy Snow**

02 0800MST

Heavy snow of 6 to 10 inches fell overnight across the north central and west central mountains.

NMZ002-004

Northwest Mountains Including Jemez - Sangre De Cristo Mountains

04 0000MST 0 0 **Heavy Snow**

05 1200MST

Heavy snow of 6 to 11 inches fell across the north central mountains and over the west slopes of the Sangre de Cristo mountains.

NMZ002-005-

016>017-019

Northwest Mountains Including Jemez - Northeast Highlands - Lincoln County High Plains/Hondo Valley - Capitan/Northern Sacramento Mountains - Chaves County Plains

07 1800MST 0 0 80K **High Wind (G69)**

08 1100MST

Storm Data and Unusual Weather Phenomena

April 1999

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

High winds whipped across the state as yet another dry upper level storm center affected the region. Trees and power poles were downed in Los Alamos while blowing dust closed roads in Chaves County during the late afternoon and early evening of the 7th. One mobile home lost its roof near Roswell and other residents reported damage to trees and small sheds. Strong northwesterly downslope winds developed over western Colfax County about mid-morning on the 8th and then overturned several trucks along Interstate 25 a few miles south of Raton.

NMZ019	Chaves County Plains	13	1500MST 1900MST		0	3			High Wind (G49)
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A localized sand storm created zero visibility driving conditions along New Mexico Highway 2 in far southern Chaves County causing two separate multi-car pileups with at least 3 injuries before the road was closed by State Police.

NMZ009	Middle Rio Grande Valley	23	1930MST 2030MST		0	0	30K		High Wind (G47)
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Gusty winds toppled several old and weak trees which damaged cars and homes in Albuquerque.

NMZ001	Northwest Plateau	29	1400MST 1500MST		0	2	30K		High Wind (G51)
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Two men were injured in Aztec as a large tree toppled onto the truck the men were getting into. Another vehicle was also crushed.

NEW MEXICO, South Central and Southwest

NONE REPORTED.

NEW MEXICO, Southeast

Eddy County	Whites City	29	1812MST		0	0	1K		Hail (1.00)
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Left-split storm from a cell over Culberson County, TX. Hail broke windows in a Highway Patrol car.

Eddy County	Carlsbad	29	1842MST		0	0			Hail (1.00)
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Same storm as it moved to the north.

Eddy County	10 S Artesia	29	1910MST		0	0	5K		Hail (1.75)
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Damaged autos and their windows.

Eddy County	Artesia	29	1924MST		0	0			Hail (0.75)
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Same as previous storm but weakened as it moved into Artesia. Continued to weaken as it moved away to north.

Eddy County	26 SE Malaga	30	1040MST		0	0			Hail (1.75)
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Multicell cluster that moved into NM from Loving County, TX.

Lea County	2 NE Eunice	30	1328MST 1330MST	0.2	120	0	0		Tornado (F0)
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Tornado came from a small cell that formed in eastern Loving County, TX (east of a cell that produced a tornado in Loving County). This tornado was small and brief with a condensation funnel to the ground. This cell crossed into Andrews County, Texas as it moved to the NNE.

Lea County	6 NE Eunice	30	1455MST		0	0			Hail (1.00)
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The multicell cluster grew in overall size and had several intense cells, including this one that passed to the north of Eunice.

Lea County	Eunice	30	1513MST		0	0			Hail (1.75)
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This cell formed on the south flank of the storm to the north of Eunice.

Lea County	5 W Nadine	30	1533MST		0	0			Hail (1.00)
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Western side of a multicell cluster.

Lea County	South Portion	30	1535MST 1900MST		0	0			Flash Flood
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Training cells caused flooding in the southern half of the county. About one foot of water was flowing across State Highway 18 south of Hobbs while 3-4 inches of hail caused water to collect and flood around the Nadine area and west of Hobbs on U.S. Highway 62/180.

Storm Data and Unusual Weather Phenomena

April 1999

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

NMZ027>029

Guadalupe Mountains Of Eddy County - Eddy County Plains - Lea

01	0000MST								
29	0600MST				0	0			Drought

The long and devastating drought is finally being closed out. Although the lands in the region will take a long time to recover (and most agricultural experts would agree that their drought had not ended), meteorologically the weather pattern began a drastic change by April 29. Droughts are much more sluggish than this summary might convey, however, when restricted to an exact time for an end, April 29th seemed like a good choice.

On the morning of the 29th, the first in a series of upper level low pressure systems was dropping southward into southern California. For more than a year this situation had been a very rare occurrence, however, beginning on April 29th, low pressure centers dropping into the Desert Southwest became common.

Once again the countryside in southeast New Mexico became green.

NEW YORK, Central

NONE REPORTED.

NEW YORK, Coastal

Westchester County

New Rochelle

06	2020EST								
				0	0				Lightning

Lightning struck the chimney of the Mother Irene Gill Library, sending concrete and stone crashing into a hall where 20 students and faculty were studying. All 20 people escaped unhurt.

NEW YORK, East

**NYZ032>033-
038>043-047>054-
058>061-063>066**

Northern Herkimer - Hamilton - Southern Herkimer - Fulton - Montgomery - Northern Saratoga - Warren - Washington - Schoharie - Western Schenectady - Eastern Schenectady - Southern Saratoga - Western Albany - Eastern Albany - Western Rensselaer - Eastern Rensselaer - Western Greene - Eastern Greene - Western Columbia - Eastern Columbia - Western Ulster - Eastern Ulster - Western Dutchess - Eastern Dutchess

01	0000EST								
30	2359EST			0	0				Drought

April 99 was officially the second driest April on record in Albany and the driest of this century. Only 0.60 inches of rain fell at the Albany International Airport and only 0.56 inches at the N.W.S. office located on the University at Albany (SUNY) Campus. Rainfall amounts were a little bit higher to the south of Albany, but still fell well short of normal. The combination of low rainfall, along with frequent gusty winds, turned the underbrush into very dry tinder. This scenario led to numerous brush fires during the month across the Berkshires.

NYZ042

Warren

04	0400EST								
10	1000EST			0	0				Flood

Rapid snowmelt led to excessive runoff and minor flooding of the Schroon River in Warren County between April 4 and April 10. The river crested at 7.3 feet on April 5 at Riverbank. Flood stage is 7 feet. The flooding affected mainly adjacent fields and some basements.

NEW YORK, North

NONE REPORTED.

NEW YORK, West

Chautauqua County

Ellery Center

06	1620EST								
				0	0	2K			Hail (0.75)

A cold front crossed the region during the late afternoon hours. An isolated severe thunderstorm developed along the front and produced three-quarter inch hail as it crossed the western southern tier.

Chautauqua County

Silver Creek

11	1250EST								
				0	0	2K			Hail (0.75)

Thunderstorms developed rapidly over extreme eastern Lake Erie then moved onshore. The thunderstorms produced three-quarter inch hail and gusty winds.

NORTH CAROLINA, Central

Johnston County

Four Oaks

04	1858EST								
	2058EST			0	0				Tstm Wind/Hail

Two trees were downed by thunderstorm wind at Four Oaks.

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 Damage	Crops	
<u>NORTH CAROLINA, Central</u>									
Halifax County									
Scotland Neck	09	2109EST			0	0			Hail (0.75)
Nash County									
Red Oak	09	2134EST			0	0			Hail (0.88)
Sampson County									
3 N Clinton	11	1630EST			0	0	20K		Hail (1.75)
Hail the size of golfballs damaged one car and several mobile homes just north of Clinton.									
Sampson County									
10 W Newton Grove	11	1934EST			0	0	5K		Thunderstorm Wind (G50)
A mobile home was blown off its foundation during strong thunderstorm winds estimated at 58 to 60 mph 5 miles east of Dunn in northwest Sampson county.									
Harnett County									
Erwin	11	1903EST			0	0			Hail (1.00)
Vance County									
Henderson	15	1641EST			0	0			Hail (0.75)
Warren County									
Arcola	15	1705EST			0	0	50K		Hail (2.00)
Golfball to hen egg sized hail was reported by the Warren county Emergency Manager in Arcola. Damage was limited to several sections of town but included banged up siding on homes, broken windows, car damage, and roof damage. Several cabbage fields were reported to be so badly beaten that they looked like "cole slaw". In addition, a loud roaring noise was heard with some funnel clouds reported in the region.									
Warren County									
Warrenton	15	1715EST			0	0			Thunderstorm Wind (G50)
An 80 foot tall communications tower was toppled by thunderstorm winds near Warrenton.									
Halifax County									
Hollister to Heathsville	15	1740EST 1755EST			0	0			Hail (0.75)
Golfball size hail covered the ground from the Warren county line to I-95. The hail decreased in size to dimes east of I-95.									
Halifax County									
Enfield	15	1820EST			0	0			Hail (0.75)
Sampson County									
Delway	15	2025EST			0	0			Thunderstorm Wind (G50)
Several trees were uprooted in Delway and Garland associated with strong thunderstorm winds.									
<u>NORTH CAROLINA, Central Coastal</u>									
Tyrrell County									
5 N Gum Neck to 5 S Gum Neck	09	1015EST			0	0			Thunderstorm Wind (G50)
Several fallen trees. One tree fell on an automobile.									
Dare County									
Manteo Arprt to 6 SE Wanchese	11	1415EST 1422EST			0	8	230K		Thunderstorm Wind (G90)
A down-burst wind stuck Manteo airport, near the Dare County Border at 14:13 EST. The wind gust was measured by the AWOS at 59 knots. This destroyed four private planes and damaged a hangar. The straight line winds also produced damage in Wanchese at 14:20 EST. A circus tent was blown over injuring eight circus workers. The same radar signature then moved over Oregon Inlet at 14:22 EST where 104 mph winds were recorded.									
Pitt County									
Farmville	11	1438EST			0	0			Hail (1.00)
Pitt County									
8 SE Farmville	11	1508EST	0.1	5	0	0			Tornado (F0)
Craven County									
Dover	11	1538EST	0.1	5	0	0			Tornado (F0)
Craven County									
4 NE Tuscarora	11	1618EST	0.1	5	0	0			Tornado (F0)
Duplin County									
Calypso	11	1640EST			0	0			Hail (0.75)
Duplin County									
Faison	11	1933EST			0	0			Thunderstorm Wind (G50)
Trees blown down in Faison.									

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	
<u>NORTH CAROLINA, Central Coastal</u>									
Lenoir County									
Kinston	11	1956EST			0	0			Hail (1.00)
Nickel size hail reported near Kinston.									
Dare County									
6 SE Wanchese	11	1442EST			0	0			Funnel Cloud
Pitt County									
8 SE Farmville	11	1503EST			0	0			Funnel Cloud
Craven County									
5 W Dover	11	1536EST			0	0			Funnel Cloud
Craven County									
New Bern	11	1618EST			0	0			Funnel Cloud
Hyde County									
Ocracoke	15	2044EST			0	0			Thunderstorm Wind (G57)
Dare County									
Frisco	15	2052EST			0	0			Thunderstorm Wind (G60)
Planes and houses damaged in Frisco.									
Duplin County									
Magnolia	15	2053EST			0	0			Thunderstorm Wind (G55)
Trees blown over in Magnolia.									
Duplin County									
.5 S Kenansville to 1 N Potters Hill	15	2100EST 2115EST	15	900	0	11	4M		Tornado (F2)
Jones County									
2 E Hargetts to 1 N Trenton	15	2115EST 2130EST	15	900	0	8	2M		Tornado (F2)
On the night of April 15, 1999 several tornadoes touched down. One multi-vortex tornado touched down in Duplin County about a half mile south of Kenansville. The tornado tracked east northeast between Pink Hill and Beulaville and just to the north of Potters Hill before entering Jones County. Once in Jones County the tornado passed just north of Hargetts crossroads and traced north of Route 41... ending near the intersection of Routes 58 and 41. The tornado track covered nearly 30 miles and ranged between a half mile to around one mile wide. An unconfirmed wind report of 165 mph was measured near Trenton. In total... hundreds of trees were knocked down, over 30 homes were destroyed, 60 homes suffered major damage, and a significant number of livestock were killed.									
Lenoir County									
Pink Hill to 3 E Pink Hill	15	2115EST 2120EST	3	10	0	2			Tornado (F1)
A tornado briefly touched down near Pink Hill. Debris was believed to cause the two injuries that were reported. This was associated with the F2 tornado that moved across Duplin and Jones counties.									
Onslow County									
1 S Richlands to 4 N Half Moon	15	2120EST 2140EST	10	10	0	7	2M		Tornado (F1)
Another tornado on the evening of April 15, 1999 caused havoc in Onslow county. The tornado touched down about a mile south of Richlands and tracked across Highway 258 and disipated in the Hofmann Forest. Most of the damage was reported in the Richlands Township where nine dwellings were destroyed while fifteen others suffered minor damage. Seven people were treated for injuries.									
Craven County									
Bridgeton to 2 N Bridgeton	15	2145EST 2155EST	2	5	0	0			Tornado (F0)
This tornado touched down near Bridgeton and moved notheast along Highway 17 where railroad cars were overturned. It also destroyed three improperly tyed down mobile homes.									
Carteret County									
Davis to Atlantic	15	2205EST 2215EST	8	10	0	0	500K		Tornado (F1)
An F1 tornado skipped across coastal communities of Eastern Carteret County late on the evening of April 15, 1999. A crab processing house in Davis was destroyed while structural damage of varying degrees was reported from Davis to Atlantic.									

NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, North Coastal</u>									
Gates County									
4 W Gatesville to Gatesville	11	1305EST 1310EST			0	0	10K		Thunderstorm Wind
Glass blown out of bank sign. Several 12-15 inch diameter pines blown down. Porch and roof of a trailer blown away.									
Gates County									
Sunbury	11	1315EST			0	0	2K		Thunderstorm Wind
Several trees down on Route 158.									
Perquimans County									
New Hope to Winfall	11	1315EST 1317EST			0	0	15K		Thunderstorm Wind
Seed bin and hut destroyed. Roof ripped off mobile home. Few trees down.									
Pasquotank County									
Symonds Creek to Weeksville	11	1320EST 1330EST	1	50	0	0	50K		Tornado (F0)
Tornado destroyed a five bay garage and a couple of sheds. Roof was torn off a mobile home. A tractor shed was damaged and trees were downed. Barn was destroyed.									
Northampton County									
Bryantown	15	1755EST			0	0	3K		Thunderstorm Wind
Several trees down and a shed was blown over.									
Northampton County									
Rich Square	15	1805EST			0	0			Hail (0.75)
<u>NORTH CAROLINA, Northwest and North Central</u>									
Ashe County									
Grassy Creek	23	1850EST			0	0			Hail (0.75)
Thunderstorms on the evening of the 23rd produced hail up to 0.75 inches in diameter.									
NCZ003									
Surry									
	12	0400EST 0900EST			0	0	1K		High Wind
High winds the morning of the 12th downed trees and power lines in western Surry County.									
NCZ001									
Ashe									
	16	1300EST 1700EST			0	0	2K		High Wind
High winds during the afternoon of the 16th downed trees and power lines, some blocking roads.									
<u>NORTH CAROLINA, South Coastal</u>									
Robeson County									
6 E Maxton	15	1910EST 1911EST			0	2	40K		Thunderstorm Wind (G70)
Robeson County									
Pembroke	15	1913EST			0	0	5K		Thunderstorm Wind (G70)
Robeson County									
3 E Pembroke to 3.3 E Pembroke	15	1915EST	0.3	25	1	4	200K		Tornado (F2)
M36MH									
Robeson County									
4 ENE Lumberton	15	1920EST			0	0	50K		Thunderstorm Wind (G70)
Robeson County									
10 NE Lumberton	15	1930EST	0.1	40	0	0	20K		Tornado (F1)
Bladen County									
1 S Tar Heel	15	1945EST 1946EST	0.1	30	0	5	200K		Tornado (F2)
Bladen County									
3 W White Oak to 2.9 W White Oak	15	1955EST			0	0	150K		Thunderstorm Wind (G75)
Bladen County									
5 E Ammon	15	2005EST			0	0	5K		Thunderstorm Wind (G60)
As a thunderstorm raced ENE near 50 mph into Western Robeson County, downburst winds destroyed two mobile homes and injured a person in the Hidden Valley area near Maxton. The storm continued on, causing damage to power lines in Pembroke. An									

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	

NORTH CAROLINA, South Coastal

F2 tornado touched down at the Chavis Trailer Park on Moss Neck Rd, East of Pembroke, where 6 mobile homes were completely destroyed. Although there were injuries and a death, a woman heeded the warning and left her mobile home before it was destroyed, escaping injury. The storm continued into the eastern part of the county, destroying 2 mobile homes in the Howesville community and then, further east, dropped an F1 tornado which damaged a house and trees. As the storm moved into Western Bladen County, an F2 tornado destroyed 6 mobile homes at the Monroe Trailer Park near Tar Heel. As the storm continued near White Oak, a home was damaged and 2 silos were destroyed. Tree damage occurred in the Northeast part of the county, near Ammon.

NORTH CAROLINA, Southwest

Madison County

4 N Marshall	23	1943EST	0	0		Hail (1.00)
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An isolated severe thunderstorm produced quarter size hail.

Mcdowell County

2 SW Pleasant Gardens	27	1548EST	0	0		Hail (0.75)
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Iredell County

Scotts	27	1610EST	0	0		Hail (0.75)
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Cleveland County

Kings Mtn	27	1615EST	0	0		Hail (0.75)
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Mcdowell County

Marion	27	1637EST	0	0		Hail (0.75)
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Mecklenburg County

Mint Hill	27	2037EST	0	0		Hail (1.25)
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Cabarrus County

Midland	27	2103EST	0	0		Thunderstorm Wind (G50)
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A backdoor cold front moving southwest across the western piedmont of North Carolina and a warm front moving north across the mountains provided the focus for strong to severe thunderstorm activity during the afternoon and evening. The severe thunderstorms produced mainly large hail ranging in size between dimes and half dollars. However, there was one report of damaging winds which blew down trees late in the evening in Cabarrus county.

NCZ033>034-048>050-052>055-059 Jackson

Avery - Caldwell - Madison - Yancey - Mitchell - Haywood - Buncombe - Mcdowell - Burke - Northern	29	1600EST	0	0		Snow
	30	1000EST				

A deep slow moving closed upper low moved across the southern Appalachians and Mid-Atlantic States on the 29th and 30th. Unseasonably cold air accompanying this closed low produced snow which accumulated at elevations above 3000 feet. By late morning on the 30th, 1 to 3 inches of snow was common. Snow fell a little heavier on the highest peaks where 6 to 12 inches accumulated. Due to warm road surface temperatures, roads did not become hazardous.

NCZ037

Davie	30	1600EST	0	0	1K	Gusty Winds
		1800EST				

Gusty winds in the wake of a cold front caused a tree to fall onto power lines, breaking a power pole and damaging others. An 8 hour power outage ensued.

NORTH DAKOTA, Central and West

NDZ001>005-009>013-017>023-025-031>037-040>048-050>051

Divide - Burke - Renville - Bottineau - Rolette - Williams - Mountrail - Ward - Mchenry - Pierce - Mckenzie - Dunn - Mercer - Oliver - Mclean - Sheridan - Wells - Foster - Golden Valley - Billings - Stark - Morton - Burleigh - Kidder - Stutsman - Slope - Hettinger - Grant - Bowman - Adams - Sioux - Emmons - Logan - La Moure - Mcintosh - Dickey	01	0400CST	0	0		Blizzard
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Major winter storm centered over Nebraska early morning on the 1st of April. Inverted trough extended into eastern Montana. System moved slowly east during the day. Instability brought heavy snow and thunder to parts of North Dakota. Ahead of this storm system thunderstorms with 1/2 inch hail fell over parts of east central North Dakota before turning to freezing rain and snow later in the day. Gusty northwest winds caused low visibilities in blowing and drifting snow over a wide area of western and central North Dakota. six to fifteen inches of snow fell over the warned area. heaviest snowfall of fifteen inches occurred over Mchenry county in north central North Dakota. Over east central and parts of southeast North Dakota ice accumulated around 2 inches downing power lines and numerous trees. Power outages reported in a wide area. Heavy wet snow followed the ice with accumulations of five to 8 inches reported.

Storm Data and Unusual Weather Phenomena

April 1999

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

NDZ003>005-011>013-019>023-025-034>037-042-045>048-050>051 **Renville - Bottineau - Rolette - Ward - Mchenry - Pierce - Mercer - Oliver - Mclean - Sheridan - Wells - Foster - Morton - Burleigh - Kidder - Stutsman - Grant - Sioux - Emmons - Logan - La Moure - McIntosh - Dickey**

03	0345CST						Winter Storm
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Strong low pressure over the central rockies moved into the northern plains on the morning of the 3rd. The storm brought an area of heavy snow over western and central North Dakota. Snowfall ranged from 4 to 8 inches. The heaviest snow fell over the north central area. The city of Towner in Mchenry county reported 8 inches.

NORTH DAKOTA, East

NDZ006>008-014>015-024 **Towner - Cavalier - Pembina - Benson - Ramsey - Eddy**

01	1000CST 1800CST						Blizzard
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A strong low pressure system moved from the central plains to Ontario, bringing moisture and a strong pressure gradient to the Devils Lake basin. Blizzard conditions resulted, as wind gusts to 54 mph were reported by the Devils Lake AWOS along with visibilities below a quarter of a mile. 8 inches of snow was reported at Edmore and Devils Lake and 4 inches of snow was reported at Langdon. Cars blocked many intersections in the city of Devils Lake, as people tried to drive through the deep snow.

NDZ016-026>030-038 **Walsh - Nelson - Grand Forks - Griggs - Steele - Traill - Barnes**

01	0900CST 1900CST						Winter Storm
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A strong low pressure system moved out of the central plains into Ontario, bringing moisture and strong winds to portions of eastern North Dakota. With the temperature hovering around the freezing point, much of the rain froze when it made contact with the surface. With ice built up on trees, many branches broke, resulting in power outages. Most power companies were able to restore power within several hours. A 10 mile section of H-shaped aluminum power poles were snapped by the weight of the ice on the power lines 5 miles north of Valley City. The cost to replace the poles was estimated at 2.5 to 4 million dollars.

NDZ006>008-014>016-024 **Towner - Cavalier - Pembina - Benson - Ramsey - Walsh - Eddy**

03	1300CST						Winter Storm
04	0500CST						

Another round of winter weather hit northeast North Dakota on the heels of the April Fools Day system. Two to four inches of snow fell across the area, on top of some freezing rain. Hundreds of people lost power to their homes and businesses.

NDZ026>030-038 **Nelson - Grand Forks - Griggs - Steele - Traill - Barnes**

03	1300CST						Ice Storm
04	0500CST						

A strong low pressure area in Minnesota brought another round of winter weather to eastern North Dakota on the heels of the April Fools Day storm. Significant accumulations of ice built up on all surfaces due to a long period of freezing rain. Thousands of power customers lost power, as power lines snapped due to the weight of the ice. Icicles up to 2 to 4 inches long were common on power lines and trees. City foresters were kept busy for weeks trying to haul away branches and fallen trees. This ice storm brought back memories of the ice storm of early April 1997.

NDZ027 **Grand Forks**

01	0000CST						Flood
05	2359CST						

The spring flood along the Red River closed the Sorlie (Demers) bridge, one link between the cities of Grand Forks and East Grand Forks. The Red River peaked at 44.3 feet on April 1st. A clay dike had to be built along Belmont Road in Grand Forks along Lincoln Park Golf Course, to protect several homes in that area.

NDZ016 **Walsh**

02	0000CST						Flood
10	2359CST						

The Red River rose north of Grand Forks, causing traffic along Interstate 29 to be rerouted from Manvel to Minto as over 8 inches of water flowed over the interstate. The Red River crested in Oslo on April 3rd at 36.7 feet.

NDZ008 **Pembina**

06	0000CST						Flood
15	2359CST						

The Red River crested in Drayton on April 9th at 41.7 feet. Pembina then crested on April 13th at 49.7 feet. Bridges were closed across the Red River due to high river levels at Pembina, Joliette, and Drayton.

OHIO, East

Muskingum County

Zanesville

09	1230EST						Thunderstorm Wind (G50)
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A 50 knot (58 MPH) wind gust was recorded at the Zanesville Municipal Airport.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OHIO, East</u>									
Coshocton County									
New Moscow	09	1244EST			0	0	5K		Thunderstorm Wind (G50)
Several trees and power lines were downed by thunderstorm winds.									
Noble County									
Ava	09	1250EST			0	0	5K		Thunderstorm Wind (G50)
Several trees and power lines were downed by thunderstorm winds.									
Guernsey County									
Kimbolton	09	1300EST			0	0	3K		Thunderstorm Wind (G50)
A few trees were downed by thunderstorm winds.									
Tuscarawas County									
Newcomerstown	09	1300EST			0	0	1K		Thunderstorm Wind (G50)
A large tree was downed by thunderstorm winds.									
Belmont County									
Countywide	09	1315EST 1325EST			0	0	10K		Thunderstorm Wind (G60)
Thunderstorm winds downed numerous trees across the county. Emergency management officials reported several roads across the county were closed by downed trees and power lines. Sporadic power outages from the storm continued well into the evening hours across the county. A spotter at Powhatan Point estimated wind gusts to around 60 knots.									
Harrison County									
New Athens	09	1315EST			0	0	3K		Thunderstorm Wind (G50)
Several trees were downed by thunderstorm winds.									
Jefferson County									
Countywide	09	1339EST 1349EST			0	0	30K		Thunderstorm Wind (G50)
Thunderstorm winds produced damage at several locations across southern portions of the county. In Ralyand, thunderstorm winds downed a large tree. Numerous trees were blown down in Mount Pleasant and Dillonvale. A roof was also blown off of a house in Dillonvale.									
OHZ040-049>050-059Carroll - Harrison - Jefferson - Belmont									
	16	1110EST 1500EST			0	0	40K		High Wind (G50)
Southwesterly winds gusted to over 50 knots as a strong area of low pressure passed across the area. Numerous trees were blown down by the high winds across portions of east central Ohio. In Jefferson County, a church steeple at the Wintersville Baptist Temple was blown over by the winds. More damage was reported in Jefferson County as the high winds knocked over part of a concrete wall surrounding the American Electric Power plant in Brilliant. Part of this wall knocked over a liquid oxygen tank, causing a leak in the electric plant. No injuries were reported.									
Columbiana County									
East Liverpool	21	2250EST			0	0			Hail (0.75)
Columbiana County									
Columbiana to Columbia	21	2335EST			0	0			Hail (0.75)
Belmont County									
Barnesville	23	1155EST			0	0			Hail (0.75)
<u>OHIO, North</u>									
OHZ013									
Geauga	06	1230EST 1700EST			0	0	10K		High Wind
At least one tree was downed in Chardon, taking power lines with it. Power lines were also downed in Middlefield.									
OHZ019									
Huron	06	1045EST 1600EST			0	0	30K		High Wind
One half of a double wide house being hauled by truck on U.S. Route 20 near Monroeville was flipped over off the highway onto the median. Chains connecting the cab to the trailer broke preventing the cab of the truck from also tipping over.									
OHZ021									
Summit	06	1300EST 1700EST			0	2	25K		High Wind
A tree was blown over onto two vans in Cuyahoga Falls. Two people were injured and one was taken to an area hospital.									

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 Damage	Crops	
<u>OHIO, North</u>									
OHZ008 Sandusky									
	06	1045EST 1500EST			0	0	25K		High Wind
Trees limbs and power lines were downed countywide. In Ballville Township, a mobile home was damaged when its porch was blown off and a pole from the porch went through the roof. One other trailer nearby was also damaged by flying debris.									
Knox County									
Danville	09	1201EST			0	0	5K		Thunderstorm Wind
Trees were downed.									
Holmes County									
Millersburg	09	1230EST			0	0	2K		Thunderstorm Wind
Large tree limbs were downed.									
OHZ009 Erie									
	09	2250EST			0	0			Flood
	10	0530EST							
The Huron River at Milan exceeded its flood stage of 14 feet and crested at 14.33 feet at 0300 AM EST on 04/10/99. Only minor flooding occurred in lagoon communities along the river.									
OHZ008 Sandusky									
	10	0500EST 2230EST			0	0			Flood
The Portage River at Woodville exceeded its flood stage of nine feet and crested at 9.42 feet at 1130 AM EST on 04/10/99. Flooding occurred in low lying areas, including Trail Marker Park.									
OHZ003 Lucas									
	23	1730EST			0	0			Flood
	25	0500EST							
The Maumee River at Waterville exceeded its flood stage of nine feet and crested at 9.78 feet at 0700 AM on 04/24/99. Flooding was confined to low lying areas.									
OHZ003 Lucas									
	17	1300EST			0	0			Flood
	18	1000EST							
The Maumee River at Waterville exceeded its flood stage of nine feet and crested at 9.21 feet at 1900 PM EST on 04/17/99. Flooding was confined to low lying areas.									
<u>OHIO, Northwest</u>									
Defiance County									
Hicksville	10	2115EST			0	0	0		Thunderstorm Wind
Trees and power lines were reported blown down.									
Paulding County									
Paulding	10	2140EST			0	0			Hail (0.75)
A strong low pressure system was located near St. Louis, MO during the afternoon of April 10, 1999 and was forecast to move northeast into southern Michigan by 12z on the 11th. Although the boundary layer was quite stable across northern Indiana with surface temperatures in the middle 50s and dewpoints in the low 30s... very unstable air was located south of the warm front draped through the Ohio valley. As low pressure intensified during the afternoon of the 10th...a strong low level jet (60 knots) developed from southern Illinois into central Indiana. Most unstable parcel CAPE lifted from 800 millibars were on the order of 1500 J/kg... lifted indices from -3 to -5...and amazing storm relative helicity values near 1000 m2/s2. Strong mid-level convergence in association with the upper low in Missouri and attendant 80 knot jet combined with strong low-level theta-e advection over the warm front and increasing large scale ascent ahead of the 250 millibar 130 knot jet max triggered a line of severe thunderstorms over northeast Illinois by late afternoon.									
This line of storms continued to intensify as they raced eastward at 40 knots. With low freezing levels in place and cooling aloft as the upper low pushed northeast...widespread severe hail fell in nearly every county across northern Indiana that evening. Two elevated supercells developed ahead of the main line in northwest Indiana early that evening and marched eastward. The first supercell tracked from Lake county east into Lagrange county before weakening. The second supercell developed further south across Jasper county and moved east into Allen county before weakening. Both were very efficient hail producers with some locations reporting several inches of hail accumulation on the ground. Additionally both produced several funnel clouds which stayed aloft likely due to the elevated nature of the convection and very stable boundary layer which prevented most of the rear flank downdraft from reaching the surface.									
<u>OHIO, Southeast</u>									
OHZ066>067-075>076-084>087 Perry - Morgan - Athens - Washington - Vinton - Meigs - Gallia - Lawrence									
	16	1300EST 1700EST			0	0			Wind

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OHIO, Southeast									
Wind gusts of 35 to 45 mph were common as a low pressure storm system lifted northeast, through northern Indiana.									
Washington County									
Dart	23	1245EST			0	0			Hail (1.00)
OHIO, Southwest									
Auglaize County									
New Bremen	10	2154EST 2159EST			0	0			Hail (1.00)
Butler County									
West Chester	10	2249EST 2254EST			0	0			Hail (0.75)
Clinton County									
Midland	10	2305EST 2310EST			0	0			Hail (1.75)
Thunderstorms passed through western Ohio producing heavy rainfall along with large hail.									
Hocking County									
Logan	23	1222EST 1230EST			0	0			Hail (1.25)
Thunderstorms producing large hail developed ahead of a cold front. Hail reports of nickel, quarter, and half dollar size.									
Shelby County									
Sidney	28	0600EST 0800EST			0	0			Flood
A nearly stationary band of moderate to heavy rainfall caused water to flood across some county roads just north of Sidney.									
Champaign County									
5 S St Paris	28	0727EST 0930EST			0	0			Flood
Heavy rainfall caused water to flood across Route 55.									
Ross County									
Northwest Portion	28	0753EST 1000EST			0	0			Flood
Persistent heavy rainfall caused roads to be closed due to high water.									
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	0	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.									

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
<u>OHIO, Southwest</u>									
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 County									
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)
Highland County									
Hillsboro	11	0430EST 0530EST			0	0			Flood
Heavy rainfall caused street flooding in town.									
<u>OKLAHOMA, Eastern</u>									
Osage County									
Foraker	03	0300CST			0	0			Hail (0.75)
Creek County									
Bristow	03	0306CST			0	0			Thunderstorm Wind (G52)
Creek County									
Mannford	03	0306CST			0	0			Hail (0.75)
Creek County									
Mannford	03	0306CST			0	0			Thunderstorm Wind (G52)
Pawnee County									
Cleveland	03	0310CST			0	0	15K		Thunderstorm Wind (G61)
Winds estimated as high as 70 mph destroyed a car port, damaged a motel awning, uprooted trees, blew a hole through the middle school's gym roof, and knocked down numerous tree limbs.									
Okmulgee County									
Beggs	03	0320CST			0	0			Hail (0.75)
Osage County									
7 NW Tulsa	03	0335CST			0	0	4K		Thunderstorm Wind
A roof was blown off of a barn, and tree limbs were blown down.									
Tulsa County									
Bixby	03	0344CST			0	0			Hail (0.75)
Tulsa County									
Bixby	03	0344CST			0	0			Thunderstorm Wind (G52)
Wagoner County									
Coweta	03	0410CST			0	0	1.5K		Thunderstorm Wind
Three 45-foot power poles near Coweta were blown over, knocking out power to 60 power customers.									

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	
OKLAHOMA, Eastern									
Washington County									
Dewey	03	0415CST			0	0	0.10K		Thunderstorm Wind
			Several tree limbs were blown down.						
Cherokee County									
Peggs	03	0430CST			0	0	0.10K		Thunderstorm Wind
			Several tree limbs were blown down.						
Adair County									
4 W Stilwell to 1 N Stilwell	03	0500CST			0	0	20K		Thunderstorm Wind
			Winds destroyed a barn, damaged roofs on chicken sheds, caused damage at the rodeo grounds, and caused minor damage to a mobile home.						
Choctaw County									
2 E Hugo	03	0610CST			0	0	0.30K		Thunderstorm Wind
			A tree was blown down onto a fence.						
Le Flore County									
Poteau	03	0800CST 0900CST			0	0			Flash Flood
			Several streets in Poteau were flooded.						
Pushmataha County									
8 W Eubanks	03	0800CST			0	0			Hail (0.75)
Pushmataha County									
Jumbo	03	0800CST 0900CST			0	0			Flash Flood
			A county road near Jumbo was under water. About 3 1/2" of rain fell in this location.						
Latimer County									
Wilburton	03	0900CST 1000CST			0	0			Flash Flood
			Streets and creeks in the Wilburton area were flooded.						
Pushmataha County									
5 W Antlers	03	1030CST			0	0			Hail (0.88)
Pittsburg County									
4 S Weathers	03	1045CST			0	0			Thunderstorm Wind (G52)
Pushmataha County									
2 N Clayton	03	1115CST			0	0			Hail (0.75)
Sequoyah County									
7 S Sallisaw	03	1210CST			0	0	2K		Thunderstorm Wind
			A shed was lifted and blown 100 feet.						
Adair County									
Bunch	03	1230CST			0	0			Hail (0.75)
Le Flore County									
Arkoma	03	1242CST			0	0			Hail (0.75)
			A solid line of thunderstorms moved across eastern Oklahoma during the early morning of April 3. Along the way, there were reports of marginally severe wind and hail.						
Choctaw County									
3 W Frogville	04	1545CST 1555CST			0	0			Hail (1.00)
Pushmataha County									
Cloudy	04	1615CST			0	0			Hail (0.75)
Sequoyah County									
Marble City	04	1820CST			0	0			Hail (1.00)
Adair County									
5 NW Stilwell	04	1848CST			0	0			Hail (1.00)
Okfuskee County									
Weleetka	05	0710CST			0	0			Thunderstorm Wind (G57)
Mcintosh County									
18 W Eufaula	05	0717CST			0	0			Hail (0.75)
			Location: on the Indian Nations Turnpike						

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Eastern									
									home east of Hallett.
Creek County									
1 W Mannford	21	2307CST			0	0			Thunderstorm Wind (G52)
Pawnee County									
10 E Hallett	21	2315CST			0	0	1K		Thunderstorm Wind
									Highway signs were blown down near the intersection of OK Hwy 48 and US Hwy 412, which is near Westport.
Tulsa County									
Tulsa	21	2326CST			0	0			Thunderstorm Wind (G52)
									Location: Downtown Tulsa
Osage County									
3 NW Tulsa	21	2330CST			0	0			Thunderstorm Wind (G57)
									Location: Gilcrease Museum
Rogers County									
Claremore	21	2358CST			0	0			Hail (0.88)
Craig County									
7 SW Vinita	22	0010CST			0	0			Thunderstorm Wind (G52)
									Location: Big Cabin
Mayes County									
Adair	22	0010CST			0	0	2K		Thunderstorm Wind
									Shingles were blown off of several roofs in Adair.
Mayes County									
Pryor	22	0015CST			0	0	0.10K		Thunderstorm Wind
									Several 2-inch tree limbs were blown down in Pryor.
Delaware County									
Bernice	22	0030CST			0	0			Thunderstorm Wind (G52)
Ottawa County									
9 SE Wyandotte	22	0055CST			0	0			Hail (0.75)
									A series of severe thunderstorms developed along a dryline over central Oklahoma on the evening of April 21. These thunderstorms then moved eastward across northeast Oklahoma through the late evening before exiting into southwest Missouri around 200 AM CDT. These storms produced scattered wind damage and hail as large as golfballs.
Osage County									
3 E Bowring	22	1420CST			0	0			Thunderstorm Wind (G52)
									60 mph winds at Wah-Sha-She State Park knocked down power lines.
Nowata County									
6 NE Lenapah	22	1442CST			0	0			Thunderstorm Wind (G52)
Washington County									
Copan	22	1442CST			0	0			Thunderstorm Wind (G52)
									There were two reports of strong winds from far northern Washington County. They were: 1) 60 mph gust at Copan and 2) tin was blown off of a barn roof 6 miles northeast of Dewey.
Nowata County									
2 E Lenapah to 3 E Lenapah	22	1510CST 1515CST			0	0			Hail (2.75)
									There were several reports of extremely large hail from Nowata County. First, there were two reports of baseball-sized hail 2 and 3 miles east of Lenapah at 415 PM CDT, while another report noted golfball-sized hail between Nowata and Coffeyville at 410 PM CDT.
Craig County									
Centralia	22	1555CST			0	0			Hail (1.00)
Craig County									
Bluejacket	22	1615CST			0	0			Hail (1.00)
Craig County									
Bluejacket	22	1615CST			0	0			Thunderstorm Wind (G52)
Ottawa County									
2 NE Afton	22	1620CST			0	0			Hail (1.00)
Tulsa County									
Tulsa	22	1632CST 1638CST			0	0			Hail (1.00)
									Location: near intersection of US Hwy 75 and OK Hwy 11

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	
OKLAHOMA, Eastern									
Craig County									
3 SW Vinita	22	1635CST			0	0			Thunderstorm Wind (G52)
Location: Big Cabin toll plaza on Rogers Turnpike									
Delaware County									
Bernice	22	1635CST			0	0			Hail (0.75)
Ottawa County									
Afton	22	1637CST			0	0			Hail (0.88)
Delaware County									
8 NE Grove	22	1650CST 1655CST			0	0			Hail (1.75)
Location: on the Delaware/Ottawa County line, 3 miles west of the MO border									
Ottawa County									
10 SSE Wyandotte	22	1650CST 1655CST			0	0			Hail (1.75)
Location: on the Delaware/Ottawa County line, 3 miles west of the MO border									
Rogers County									
Claremore	22	1655CST			0	0	0.30K		Thunderstorm Wind (G52)
A door was blown off of a house. Two downtown buildings in Claremore had their frontages damaged. One of these was the Chamber of Commerce which had two concrete veneer blocks from the roofline blown down.									
Mayes County									
5 NW Adair	22	1700CST			0	0			Hail (0.75)
Craig County									
11 SE Vinita	22	1710CST			0	0			Hail (0.75)
Location: Ketchum									
Delaware County									
4 W Bernice to Bernice	22	1715CST 1720CST			0	0			Hail (0.88)
There was a report of dime-sized hail 4 miles west of Bernice at 610 PM CDT, followed by a report of nickel-sized hail in downtown Bernice at 620 PM CDT.									
Mayes County									
5 W Chouteau	22	1732CST			0	0			Hail (0.88)
Location: Rogers/Mayes county line on US Hwy 412									
Rogers County									
5 E Inola	22	1732CST			0	0			Hail (0.88)
Location: Rogers/Mayes county line on US Hwy 412									
Rogers County									
3 S Inola to 4 SE Inola	22	1738CST 1744CST			0	0			Funnel Cloud
Rogers County									
5 SE Inola	22	1745CST			0	0			Hail (1.75)
Location: Rogers/Wagoner County line									
Wagoner County									
3 NW Neodesha	22	1745CST			0	0			Hail (1.75)
Location: Rogers/Wagoner County line									
Rogers County									
4 SE Inola to 5 SE Inola	22	1747CST 1750CST	1	200	0	0	1K		Tornado (F1)
An F1 tornado touched down in a rural area 4 miles southeast of Inola. This tornado moved east into Mayes County. The tornado reached its widest point of 200 yards in Rogers County. This tornado was responsible for tree damage. For more information on this tornado, see the Mayes County Tornado entry.									
Mayes County									
4.5 WSW Mazie to 2.5 SW Mazie	22	1750CST 1753CST	2	200	0	0	2K		Tornado (F1)
This F1 tornado originally formed in extreme southeast Rogers County and then moved east into extreme southwest Mayes County before lifting 2.5 miles southwest of Mazie. This tornado produced tree damage in a mostly rural area. While the tornado reached its widest point of 200 yards in Rogers County, the tornado was about 75 yards at its widest in Mayes County.									
Mayes County									
Mazie	22	1756CST			0	0			Hail (1.75)

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	
OKLAHOMA, Eastern									
Wagoner County									
5 ENE Neodesha	22	1805CST 1806CST	0.3	50	0	0			Tornado (F0)
		Spotters reported a brief tornado touchdown 3.2 miles NNW of Rocky Point in extreme northern Rogers County.							
Okmulgee County									
Bald Hill	22	1819CST			0	0			Hail (1.75)
Muskogee County									
Taft	22	1830CST			0	0	0.20K		Thunderstorm Wind
		Numerous tree limbs were blown down in Taft, causing a power outage.							
Cherokee County									
Lost City to 1 N Hulbert	22	1835CST 1843CST			0	0			Hail (1.50)
		At 735 PM CDT, there was a report of 1.5 inch hail near Lost City. At 742 PM CDT, there was a report of 1.25-inch hail just north of Hulbert.							
Cherokee County									
Lost City	22	1835CST			0	0			Thunderstorm Wind (G61)
Cherokee County									
5.5 N Hulbert	22	1840CST 1841CST	0.3	50	0	0			Tornado (F0)
		Spotters reported a brief tornado touchdown 5 1/2 miles north of Hulbert.							
Muskogee County									
Muskogee	22	1845CST 1945CST			0	0			Flash Flood
		There was street flooding in Muskogee.							
Muskogee County									
2 E Muskogee to 3 E Muskogee	22	1850CST 1853CST	1	50	0	0	1K		Tornado (F0)
		A weak tornado touched down for several minutes just east of the Fort Howard paper plant, or one mile east of the Muskogee Turnpike. The tornado caused some tree damage.							
Cherokee County									
Tahlequah	22	1900CST			0	0			Hail (0.88)
Muskogee County									
Jamesville	22	1900CST			0	0			Hail (0.75)
Mcintosh County									
3 S Stidham	22	1920CST			0	0			Hail (1.00)
Muskogee County									
Muskogee	22	1930CST			0	0	10K		Lightning
		Lightning struck a radio tower at the Troop C Headquarters of the Oklahoma Highway Patrol, destroying phone, computer and radio systems.							
Okfuskee County									
Bearden	22	1930CST 2030CST			0	0			Flash Flood
		There was street flooding in Bearden.							
Okfuskee County									
4 E Weleetka	22	1930CST			0	0			Hail (0.75)
Okmulgee County									
Henryetta	22	1930CST 2030CST			0	0			Flash Flood
		There was street flooding in Henryetta.							
Okmulgee County									
Schulter	22	1930CST			0	0			Hail (0.75)
Okmulgee County									
Dewar	22	1932CST			0	0	0.40K		Thunderstorm Wind
		Several trees were blown down in Dewar.							
Mcintosh County									
3 E Eufaula	22	1945CST			0	0			Hail (1.25)
Adair County									
Baron	22	1950CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Cherokee County									
3 W Moodys	22	2000CST 2100CST			0	0			Flash Flood
A county road flooded 3 miles west of Moodys.									
Cherokee County									
2 E Pettit	22	2010CST			0	0	0.20K		Thunderstorm Wind
Trees were blown down.									
Okfuskee County									
Weleetka	22	2040CST			0	0			Hail (0.75)
Adair County									
8 SE Stilwell	22	2057CST			0	0			Hail (0.75)
Mcintosh County									
3 S Stidham	22	2100CST			0	0			Hail (1.50)
Mcintosh County									
2 W Eufaula	22	2129CST			0	0			Hail (1.50)
A cold front moved southeast out of Kansas into northeast Oklahoma on the afternoon of April 22. A broken line of thunderstorms formed along the front and quickly became severe as the front continued a steady southeast push. The front slowed down as it neared the I-40 corridor, causing some training thunderstorms and minor flash flooding. These thunderstorms contained the full spectrum of severe weather, from golfball-sized hail to damaging winds to several touchdowns of weak tornadoes.									
OKZ054-060									
Osage - Tulsa									
	25	0900CST			0	0	200K		Flood
	28	1200CST							
The Bird Creek at Avant rose above its flood stage of 16 feet at 1000 AM CDT on April 25. The river crested at 26.1 feet at 400 PM CDT on April 25 before falling back below flood stage at 200 AM CDT on April 26.									
The Bird Creek at Sperry rose above its flood stage of 21 feet at 100 PM CDT on April 25. The river crested at 28.9 feet at 600 PM CDT on April 26 before falling back below flood stage at 1200 AM CDT on April 28.									
The Bird Creek at Owasso (Mingo Road) rose above its flood stage of 19 feet at 300 PM CDT on April 25. The river crested at 25.6 feet at noon CDT on April 27 before falling back below flood stage at 100 PM CDT on April 28.									
At Skiatook, OK Hwys 11 and 20 were closed due to overflows from Bird Creek. A 4x5 block area in east Skiatook was affected by flood waters, damaging nine homes and eight businesses. In north Tulsa, floodwaters from Bird Creek flooded the Tulsa Gun Club building with three feet of water. The parking lot of the Tulsa Zoo flooded, closing the zoo for a couple of days. Throughout Tulsa County, a Red Cross report showed 30 homes suffering minor damage, most of which was probably due to flash flooding, although there were some homes in northern Tulsa County which were damaged by the overflows from Bird Creek.									
OKZ055-060>061									
Washington - Tulsa - Rogers									
	25	1300CST			0	0			Flood
	29	1000CST							
The Caney River at Bartlesville rose above its flood stage of 13 feet at 400 PM CDT on April 25. The river crested at 13.6 feet at 800 PM CDT before falling back below flood stage at 1200 AM CDT on April 26.									
The Caney River at Ramona rose above its flood stage of 26 feet at 800 PM CDT on April 25. The river crested at 28.6 feet at 300 PM CDT on April 26 before falling back below flood stage at 900 AM CDT on April 28.									
The Caney River at Collinsville rose above its flood stage of 26 feet at 200 PM CDT on April 25. The river crested at 32.4 feet at 1000 PM CDT on April 28 before falling back below flood stage at 1100 AM CDT on April 29.									
OKZ058									
Ottawa									
	15	0100CST			0	0			Flood
	18	1700CST							
The Neosho River at Commerce rose above its flood stage of 15 feet at 200 AM CDT on April 15. The river crested at 18.9 feet at 300 PM CDT on April 16 before falling back below flood stage at 600 PM CDT on April 18.									
There was flooding mainly in agricultural areas, but the city of Miami had some nuisance flooding around Riverside Park.									
OKZ058									
Ottawa									
	25	1100CST			0	0	700K		Flood
	30	1300CST							
The Neosho River at Commerce rose above its flood stage of 15 feet at noon CDT on April 25. The river crested at 20.2 feet at 100 AM CDT on April 28 before falling back below flood stage at 200 PM CDT on April 30.									
Flash flooding along Tar Creek combined with mainstem river flooding along the Neosho River resulted in major damage to 14									

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	
OKLAHOMA, Eastern									
									homes, with 75 homes suffering minor damage. OK Hwy 125 near the Miami Fairgrounds was closed.
OKZ058			Ottawa						
	25	1600CST			0	0			Flood
	29	0200CST							
									The Spring River at Quapaw rose above its flood stage of 20 feet at 500 PM CDT on April 25. The river crested at 25.2 feet at 200 AM CDT on April 27 before falling back below flood stage at 300 AM CDT on April 29.
OKZ070			Muskogee						
	26	0400CST			0	0			Flood
	27	1200CST							
									The Arkansas River at Muskogee rose above its flood stage of 28 feet at 500 AM CDT on April 26. The river crested at 28.8 feet at 500 AM CDT on April 27 before falling back below flood stage at 100 PM CDT on April 27.
OKZ066			Okmulgee						
	25	2200CST			0	0			Flood
	30	2359CST							
									The Deep Fork River at Beggs rose above its flood stage of 18 feet at 1100 PM CDT on April 25. The river crested at 27.1 feet at 700 PM CDT on April 29. The river was still above flood stage at the end of April.
OKZ059			Pawnee						
	25	1200CST			0	0			Flood
	27	2200CST							
									The Black Bear Creek at Pawnee rose above its flood stage of 17 feet at 100 PM CDT on April 25. The river crested at 20.8 feet at 400 PM CDT on April 25 before falling back below flood stage at 1100 PM CDT on April 27.
									Water covered the bridge over the Black Bear Creek north of Hostutler's Corner, west of Pawnee. The overflowing creek covered Skedee Road east of Pawnee.
OKZ060-064			Tulsa - Creek						
	25	1500CST			0	0	10K		Flood
	27	2100CST							
									The Polecat Creek at Sapulpa rose above its flood stage of 21 feet on the afternoon of April 25. The river crested at 27.2 feet at 700 PM CDT on April 26 before falling back below flood stage on the evening of April 27.
									The Polecat Creek at Jenks rose above its flood stage of 17 feet at 600 PM CDT on April 25. The river crested at 20.1 feet at 200 PM CDT on April 26 before falling back below flood stage on the evening of April 27.
									Rising floodwaters along the Polecat Creek caused evacuations in a subdivision in east Sapulpa and resulted in damage to two homes. Minor flooding was reported in Jenks. Several schools in Creek County were canceled due to lack of accessibility.
Pittsburg County									
3 SE Canadian	24	0545CST			0	0			Hail (0.88)
									Location: Arrowhead State Park
Haskell County									
Mc Curtain	24	0615CST			0	0			Hail (0.88)
Pittsburg County									
3 NE Mc Alester	24	0625CST			0	0			Hail (0.75)
Pittsburg County									
Crowder	24	0710CST			0	0	1K		Thunderstorm Wind
									Numerous trees were blown down in the city of Crowder.
Pittsburg County									
3 E Crowder	24	0715CST			0	0			Hail (0.75)
Le Flore County									
Spiro	24	0730CST			0	0			Hail (0.75)
Sequoyah County									
5 S Muldrow	24	0730CST			1	1			Lightning
									A 36-year old Muldrow man was killed by lightning while fishing in a tournament on the Arkansas River near Lock and Dam 14. A 24-year old companion was also struck by lightning, suffering severe burns on his right arm, shoulder and foot. M36BO
Pittsburg County									
Central Portion	24	0815CST			0	0			Flash Flood
		0915CST							
									There was some street flooding west of McAlester.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Eastern</u>									
Le Flore County									
3 W Spiro	24	0830CST 0835CST			0	0			Hail (0.75)
Le Flore County									
3 W Spiro	24	0830CST			0	0	0.10K		Thunderstorm Wind
Large tree limbs were blown down.									
Le Flore County									
Panama	24	1000CST 1100CST			0	0			Flash Flood
Several streets in Panama were closed due to street flooding.									
Pushmataha County									
Tuskahoma	24	1020CST			0	0			Hail (0.88)
Pushmataha County									
Clayton	24	1030CST 1130CST			0	0			Flash Flood
Roads in Clayton were closed by high water.									
Latimer County									
Wilburton	24	1100CST 1200CST			0	0			Flash Flood
A road next to a school in Wilburton was closed by high water.									
Latimer County									
Wilburton	24	1257CST			0	0			Hail (0.75)
Latimer County									
North Portion	24	1300CST 1700CST			0	0			Flash Flood
Water covered a number of roadways.									
Pittsburg County									
Central Portion	24	1400CST 1530CST			0	0			Flash Flood
OK Hwy 31A west of McAlester and US Hwy 270 near McAlester were closed by high water. OK Hwy 63 near Kiowa was closed for a short time. A tin horn was washed out of North Buffalo Road four miles west of Arpelar.									
Latimer County									
Wilburton	24	1415CST			0	0			Hail (0.75)
Mcintosh County									
West Portion	24	1800CST 1900CST			0	0	50K		Flash Flood
A bridge was washed out by flood waters.									
Mcintosh County									
Checotah	24	1900CST			0	0	0.10K		Thunderstorm Wind
Several tree limbs were blown down in Checotah.									
Thunderstorms formed on the morning of April 24 along a stationary front running east-west across southeast Oklahoma. Some of these storms became severe during the day, producing marginally severe hail and wind.									
However, most of these thunderstorms moved eastward along a similar path running across Pittsburg, Latimer, and northern Pushmataha Counties. This led to saturated grounds and flash flooding. Listed here are some of the heavier rainfall amounts from the area for the day (in inches): Stuart_3SE Stuart...4.29, McCurtain_1SE...2.75, Clayton_15WNW...2.60, McAlester_4S...2.10, and Wilburton_2SW...1.41									
Craig County									
Countywide	25	0830CST 1330CST			0	0	15K		Flash Flood
Throughout Craig County, county roads were flooded. Two vehicles became stuck and submerged in the flooded Pawpaw Creek northwest of Vinita. A newspaper photo showed deep water flowing over Churchill Road.									
Creek County									
Countywide	25	0830CST 1330CST			0	0			Flash Flood
OK Hwy 48 along the Deep Fork River in southern Creek County flooded.									
Mayes County									
Countywide	25	0830CST 1330CST			0	0	15K		Flash Flood
In Pryor, several homes had water just over their foundations.									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Eastern									
Nowata County									
Countywide	25	0830CST 1330CST			0	0			Flash Flood
Low-lying areas and several county roads flooded across parts of Nowata County.									
Osage County									
Countywide	25	0830CST 1330CST			0	0	30K		Flash Flood
In Hominy, 6.9 inches of rain caused several streets to close. Three homes in the 1000 block of South Price were evacuated. Evacuations took place from 10th Street on the south side of town. This was the first time that these homes had been evacuated since the 1980's. Areas off of OK Hwy 99 north of town were flooded, and Hwy 99 was closed between Hominy and Cleveland for a time. Penn Creek at the north end of Katy in Hominy flooded the entrance to the City Barn and the Water Department.									
Ottawa County									
Countywide	25	0830CST 1330CST			0	0	30K		Flash Flood
Several homes in the Sky Ranch subdivision near Tar Creek were flooded. A newspaper photo showed an in-ground pool that "lost its shape" when grounds became saturated. At least five streets in Miami, including Veterans Boulevard, were closed due to flooding, and a bridge near Cardin was closed. The NEO A&M practice field was under water.									
Rogers County									
Countywide	25	0830CST 1330CST			0	0			Flash Flood
Near Talala, US Hwy 169 was closed.									
Tulsa County									
Countywide	25	0830CST 1330CST			0	0	90K		Flash Flood
In Tulsa, numerous streets were flooded and closed. Some of these streets include 1720 E. Pine, 96th and Sheridan, 71st and Canton, Riverside Drive between 41st and 45th Streets, Lewis Avenue between 61st and 71st Streets, 200 W. 81st Street, 23rd and Yukon, 5th and Madison, and 31st and Utica.									
In Broken Arrow, Lynn Lane was closed between 101st and 111th Streets. The intersection of 101st and Garnett and a section of 71st Street near the Wagoner county line were also closed. Several homes near Kenosha Street (71st Street) and Oneta Road flooded when street drains backed up.									
In Bixby, several houses flooded.									
In Glenpool, a section of 121st Street east of US Hwy 75 partially collapsed.									
All of the rain caused mainstem river flooding as well, particularly in northern Tulsa County. See river Flood entries in this publication for more details.									
Wagoner County									
Countywide	25	0830CST 1330CST			0	0	30K		Flash Flood
In Coweta, numerous streets and side roads were closed. Coweta Creek overflowed its banks and caused flooding problems in the Cottonwood subdivision.									
Washington County									
Countywide	25	0830CST 1330CST			0	0			Flash Flood
County roads 401 and 402 near highway 60 were closed by high water. Several city parks in Bartlesville experienced flooding. A solid area of heavy rainfall lifted northeastward across northeast Oklahoma during the morning and early afternoon of April 25. Widespread rainfall amounts of 3 to 5 inches occurred across the area. The Tulsa metropolitan area was especially hard-hit as the heaviest rain bands remained stationary over the area for several hours. Some of the largest rainfall amounts for the day are (in inches): Wynona_2S...5.14", Broken Arrow (west)...4.82", Broken Arrow (south)...4.72", Delaware_2SE (Nowata County)...4.53", Skiatook...4.37", Bixby_2NE...4.34", Beggs...4.28", Broken Arrow (east)...4.19", Pawnee_3ENE...4.18", Bixby...3.88", Pryor...3.71", Tulsa (south)...3.54", Centralia_7E...3.37", Claremore...3.35", Miami_2NE...3.30", and Nowata...3.17". Widespread flash flooding took place, and many mainstem rivers rose above flood stage.									
Creek County									
Countywide	26	0900CST 1300CST			0	0	50K		Flash Flood
High water forced the closing of east- and west-bound lanes on the Turner Turnpike (Interstate 44) near Sapulpa. Rock Creek in Sapulpa flooded causing the evacuation of several homes and businesses. Two businesses in downtown Sapulpa suffered minor damage from the floodwaters of Rock Creek. There was also street flooding in Bristow, and numerous county roads were flooded. Schools in Kiefer and Lone Star let out early for the day. At least three county roads were washed out. One of the washed-out									

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Eastern									
									roads was south of Milfay, stranding about six families.
Mcintosh County									
Countywide	26	0900CST 1300CST			0	0			Flash Flood
									A low-water crossing near Hitchita was flooded.
Okfuskee County									
Countywide	26	0900CST 1300CST			0	0			Flash Flood
									In Okemah, there was street flooding. OK Hwy 48 was closed for a time when Little Wewoka Creek inundated the highway for a short time. Also, the North Canadian River north of Bearden rose enough to cover a portion of OK Hwy 48.
Okmulgee County									
Countywide	26	0900CST 1300CST			0	0	70K		Flash Flood
									Numerous streets and county roads were flooded. There was a culvert washout between Beggs and US Hwy 75 that isolated several families. There was one other bridge washout and three other county roads that were closed by flooding. 221st Street between Peoria and Lewis was impassable. In Henryetta, two people had to be rescued from a pickup after it stalled in chest-high water on a county road.
Pittsburg County									
Countywide	26	0900CST 1300CST			0	0			Flash Flood
									A county road was flooded 7 miles north of McAlester when Coal Creek approached bankfull.
Tulsa County									
Countywide	26	0900CST 1300CST			0	0	40K		Flash Flood
									More than 20 streets in Tulsa had to be closed. Tulsa police responded to 39 vehicles that were stalled in high water. Mingo Creek overflowed, flooding undeveloped areas near 36th Street North. Lower Haikey Creek at 101st Street also overflowed its banks.
									In Glenpool, water seeped into five homes, and firefighters had to free passengers from vehicles in two separate incidents. Street closings included 121st Street and Elwood, and 181st Street west of US Hwy 75.
									Flooding in a few homes and street flooding were also reported from Jenks and Bixby.
									Low-lying rural roads near Owasso also had flooding problems. Otherwise, mainstem river flooding along the Bird Creek affected northern Tulsa County. See the separate river Flood entry for more details.
									In Sand Springs, a daycare center on 177th West Avenue north of Shell Creek Lake dam had to be evacuated.
									In Broken Arrow, several streets were flooded, including Kenosha and Midway, Kenosha and Shelby Lane at Covington, Kenosha and 234th, Washington and 23rd, and New Orleans at 23rd. There was also water over 23rd and Tucson. Haikey Creek west of Olive experienced flooding problems. One vehicle became stranded on Midway south of Kenosha.
Cherokee County									
Countywide	26	1100CST 1300CST			0	0			Flash Flood
									In Tahlequah, heavy rains forced the closing of several city streets. Several county roads were also closed.
Mayes County									
Countywide	26	1100CST 1300CST			0	0	15K		Flash Flood
									Numerous county roads were flooded, including Nipak Road southeast of Pryor, old Airport Road, and Scenic US Hwy 412 near Locust Grove. Wolf Creek overflowed its banks, closing Cole-Strang Road. Parts of the approach to the Wolf Creek bridge were washed away.
Muskogee County									
Countywide	26	1100CST 1300CST			0	0			Flash Flood
									Several county roads were closed by flooding.
Nowata County									
South Portion	26	1100CST 1300CST			0	0			Flash Flood
									Flooding forced the closing of county roads leading to Talala.

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Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Eastern									
Osage County									
Southeast Portion	26	1100CST 1300CST			0	0			Flash Flood
			Rock School Road west of Sperry was closed.						
Rogers County									
Countywide	26	1100CST 1300CST			0	0	30K		Flash Flood
			Near Claremore, OK Hwy 66 north of the city was closed for an hour by high water. Cat Creek overflowed its banks and flooded South Muskogee Avenue. Many other streets experienced less serious flooding.						
			In Inola, five homes and a business were flooded near the 100 block of East Commercial and NE C Street. Rural areas to the south of town experienced significant flooding.						
			Low-lying rural roads near Catoosa and Chelsea also had flooding problems.						
Wagoner County									
Countywide	26	1100CST 1300CST			0	0			Flash Flood
			OK Hwy 16 south of Wagoner, near Okay, was under water. Midway Road in western Wagoner County was under four feet of water.						
Washington County									
South Portion	26	1100CST 1300CST			0	0			Flash Flood
			Secondary roads south of Bartlesville had standing water. Some roads had to be closed.						
Tulsa County									
Glenpool	26	1200CST			0	0	5K		Lightning
			Lightning struck a home on South Quince in Glenpool, starting two small fires and rendering useless all appliances that were plugged in.						
Craig County									
Countywide	26	1300CST 1500CST			0	0			Flash Flood
			Rural roads south of Vinita were closed by high water. US Hwy 69 north of Big Cabin had water covering the road.						
Ottawa County									
Countywide	26	1300CST 1500CST			0	0	150K		Flash Flood
			Tar Creek in Miami overflowed flooding 30 homes in the east side of the city. Numerous streets in the city of Miami were closed by high water.						
			Following three to five inches of rain on April 25, a broad band of rain and thunderstorms shifted across all of eastern Oklahoma on the morning of April 26 in advance of a closed upper-level low. Widespread rainfall amounts of 1.5 to 3 inches of rain fell, bringing two-day rainfall totals for much of northeast Oklahoma into the 5- to 7-inch range. With grounds already saturated from rains the day before and creeks already flowing high, this added rainfall led to more serious flash flooding across much of northeast Oklahoma. The heaviest rain fell in the northeast corner of the state. The following are some of the heavier rainfall amounts measured on the morning of April 26 (in inches): Vinita...3.11", Claremore...3.08", Big Cabin...2.58", Commerce...2.49", Tahlequah_4N...2.09", Okemah...2.00", and Bixby_2NE...1.86". The new round of rainfall worsened what was already major mainstem river flooding.						
Okfuskee County									
2 E Okemah	26	0800CST			0	0	40K		Thunderstorm Wind
			An 18-wheeler semi-truck was blown over as it was traveling east on I-40 near mile marker 223.						
Latimer County									
Wilburton	26	1006CST			0	0	0.50K		Thunderstorm Wind
			Several trees were blown down in Wilburton.						
Tulsa County									
3 S Bixby	26	1010CST			0	0	20K		Thunderstorm Wind
			A mobile home flipped over near 181st Street and Yale Avenue.						
Tulsa County									
Tulsa	26	1018CST			0	0	1K		Thunderstorm Wind
			A tin building was damaged near Yale Avenue and Dawson.						
Tulsa County									
Bixby	26	1051CST			0	0			Thunderstorm Wind (G50)
Sequoyah County									
Muldrow	26	1145CST			0	0			Thunderstorm Wind (G52)

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	
<u>OKLAHOMA, Eastern</u>									
Pittsburg County									
Ashland	26	1800CST			0	0			Hail (0.75)
Pittsburg County									
Kiowa	26	1813CST			0	0			Hail (0.88)
Pittsburg County									
Mc Alester	26	1825CST			0	0			Hail (0.88)
Latimer County									
4 SE Yanush	26	1924CST			0	0			Hail (0.88)
Location: on the Latimer/Pushmataha county line									
Pushmataha County									
4 N Tuskahoma	26	1924CST			0	0			Hail (0.88)
Location: on the Latimer/Pushmataha county line									
Pushmataha County									
4 NNE Finley	26	1945CST			0	0			Hail (0.75)
Choctaw County									
3 N Messer	26	2010CST			0	0	0.50K		Thunderstorm Wind
A 100-year old oak tree was snapped in half.									
A broad band of rain and thunderstorms moved eastward across eastern Oklahoma in advance of a closed upper-level low on the morning of April 26. By the time the band reached far eastern Oklahoma, daytime heating allowed one of the embedded thunderstorms to produce marginally severe hail.									
By late afternoon, cold air aloft near the center of the upper-level low allowed isolated thunderstorms to form over central Oklahoma. These storms then moved east-southeast across Pittsburg, Pushmataha and Latimer Counties in southeast Oklahoma, producing marginally severe hail and wind. As the last storm of the day approached southeast Pushmataha County, it developed strong rotation, but there were no reports received of any tornadoes.									
<u>OKLAHOMA, Extreme Southeast</u>									
Mccurtain County									
Millerton	26	1000CST			0	0			Thunderstorm Wind (G60)
Several large trees down.									
Mccurtain County									
5 N Idabel	26	1015CST			0	0			Thunderstorm Wind (G60)
Several large trees down.									
Mccurtain County									
Haworth	26	1020CST			0	0			Thunderstorm Wind (G60)
Several large trees down.									
Mccurtain County									
Bethel	26	2122CST			0	0			Hail (0.88)
Mccurtain County									
Watson	26	2140CST			0	0			Hail (0.75)
Mccurtain County									
Hochatown	26	2230CST			0	0			Hail (0.75)
<u>OKLAHOMA, Panhandle</u>									
Beaver County									
8 S Elmwood	04	2302CST			0	0			Hail (1.00)
Beaver County									
4 S Slapout	04	2341CST			0	0			Hail (1.00)
A vigorous low pressure system in the upper atmosphere over Arizona and an associated Pacific cold front moving eastward across the southwestern states produced severe thunderstorms across the eastern Oklahoma panhandle during the late evening hours. The severe storms produced mainly hail.									
OKZ001>003									
Cimarron - Texas - Beaver									
14		1100CST 1730CST			0	0			High Wind (G52)
A surface low pressure system moved east to the Red River between Oklahoma and North Texas during the afternoon and early evening hours. The pressure gradient was sufficient for the production of locally high winds over the Oklahoma panhandle.									
OKZ001>003									
Cimarron - Texas - Beaver									
08		1000CST 1200CST			0	0			High Wind (G35)

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	
OKLAHOMA, Panhandle									
Surface low pressure over the central Plains states deepened during the day, resulting in a tight pressure gradient all across the Oklahoma panhandle.									
Cimarron County									
Kenton	21	1937CST			0	0			Hail (0.88)
Cimarron County									
Keyes	21	2050CST			0	0			Hail (0.75)
Isolated severe thunderstorms developed due to daytime heating across the western Oklahoma panhandle during the evening hours producing hail.									
OKLAHOMA, Western, Central and Southeast									
Logan County									
Orlando	02	1450CST			0	0			Hail (1.00)
Noble County									
Perry	02	1507CST			0	0			Hail (0.75)
Noble County									
7 SE Red Rock to 8 ESE Red Rock	02	1545CST 1547CST	1	25	0	0	0		Tornado (F0)
Noble County									
3 N Billings	02	1705CST			0	0			Hail (1.75)
Kay County									
Tonkawa	02	1715CST			0	0			Hail (0.75)
Kay County									
3 W Tonkawa	02	1723CST			0	0			Hail (0.88)
Beckham County									
.5 E Mayfield	02	1810CST			0	0			Hail (1.00)
Roger Mills County									
9 ENE Sweetwater	02	1830CST			0	0			Hail (0.88)
Roger Mills County									
8 S Hammon	02	1850CST			0	0	20K		Hail (2.75)
Roger Mills County									
8 S Hammon	02	1850CST			0	0			Thunderstorm Wind (G52)
Beckham County									
Texola	02	1851CST			0	0			Hail (2.00)
Harmon County									
3 NW Vinson	02	1900CST			0	0			Hail (0.75)
Kay County									
Newkirk	02	1900CST			0	0			Hail (1.00)
Custer County									
Foss Res	02	1907CST	0.3	25	0	0	0.10K		Tornado (F0)
Kay County									
12 E Blackwell	02	1920CST			0	0			Hail (0.88)
Hail was reported near the intersection of Highway 77 and Highway 11.									
Harmon County									
7 ENE Vinson to 7.5 ENE Vinson	02	1925CST 1928CST	0.5	150	0	0	0		Tornado (F0)
Greer County									
8 SW Bloomington to 2 WNW Bloomington	02	1928CST 1950CST	7	150	0	0	40K		Tornado (F1)
Kay County									
Newkirk	02	1928CST			0	0			Hail (0.88)
Hail reported on the east side of Newkirk.									
Kay County									
2 NE Tonkawa	02	1945CST			0	0	0		Flood
Kay County									
Ponca City	02	2000CST			0	0	0		Flood

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	
OKLAHOMA, Western, Central and Southeast									
Greer County									
4 NW Willow to 5 NNW Willow	02	2013CST 2021CST	2	50	0	0	50K		Tornado (F1)
Beckham County									
7 SSW Carter to 2 SW Carter	02	2021CST 2027CST	4	50	0	0	1K		Tornado (F0)
Beckham County									
15 S Elk City	02	2035CST			0	0			Hail (1.75)
Roger Mills County									
1 S Reydon	02	2045CST			0	0			Hail (0.75)
Washita County									
Burns Flat	02	2050CST			0	0			Hail (0.75)
Washita County									
Dill City	02	2050CST 2052CST	1	25	0	0	35K		Tornado (F1)
Washita County									
Burns Flat	02	2051CST			0	0			Hail (1.00)
Washita County									
.5 N Burns Flat	02	2100CST			0	0			Hail (1.50)
Dewey County									
Taloga	02	2110CST			0	0			Hail (0.75)
Custer County									
2 W Custer City	02	2115CST			0	0			Hail (1.75)
Washita County									
4 W Canute	02	2115CST			0	3	30K		Thunderstorm Wind
Washita County									
Canute	02	2115CST			0	0	1K		Thunderstorm Wind
Dewey County									
4 SE Seiling	02	2118CST			0	0			Hail (0.88)
Major County									
5 SE Chester	02	2120CST			0	0			Hail (0.88)
Roger Mills County									
5 ESE Roll	02	2130CST			0	0			Hail (0.88)
Custer County									
4 N Arapaho	02	2140CST			0	0			Hail (2.50)
Custer County									
4 W Custer City	02	2154CST			0	0			Hail (3.00)
Custer County									
2 N Custer City	02	2155CST	0.1	10	0	0	5K		Tornado (F0)
Custer County									
Butler	02	2200CST			0	0	1K		Thunderstorm Wind
Dewey County									
Taloga	02	2240CST			0	0			Hail (0.75)
Harmon County									
3 W Gould	02	2305CST			0	0			Thunderstorm Wind (G72)
Roger Mills County									
1 NNW Cheyenne	02	2330CST			0	0			Thunderstorm Wind (G52)
Woodward County									
Mutual	02	2345CST			0	0			Hail (1.00)
Kiowa County									
Mountain View	03	0020CST			0	0	0.10K		Thunderstorm Wind
Canadian County									
Piedmont	03	0120CST			0	0	10K		Thunderstorm Wind

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	
OKLAHOMA, Western, Central and Southeast									
Garfield County									
Carrier	03	0120CST			0	0			Hail (1.00)
Kingfisher County									
Kingfisher	03	0125CST 0135CST			0	0	45K		Thunderstorm Wind (G66)
Major County									
5 E Meno	03	0130CST			0	0			Hail (0.75)
Payne County									
Perkins	03	0210CST			0	0	10K		Thunderstorm Wind
Noble County									
2 SE Marland	03	0225CST			0	0			Thunderstorm Wind (G52)
Payne County									
8 SE Glencoe	03	0225CST			0	0	12K		Thunderstorm Wind
Kay County									
Ponca City	03	0240CST			0	0	40K		Thunderstorm Wind
Lincoln County									
Meeker	03	0300CST			0	0	8K		Thunderstorm Wind
<p>Severe thunderstorms affected much of western and central Oklahoma from the afternoon of the 2nd through the early morning of the 3rd. Six tornadoes were confirmed, 5 of which occurred in west-central and southwest Oklahoma. There were also numerous reports of large hail and damaging straight-line winds. The first tornado developed in Noble County at 1545 CST and was witnessed by a member of the Noble County Sheriff's Department who said it developed a short distance southwest of the Cimarron Turnpike near Sooner Lake. The tornado then moved across the highway and quickly dissipated over the western edge of Sooner Lake. No damage was reported with this tornado (F0). The Butler Fire Department and 2 nearby homeowners witnessed the 2nd tornado, an F0, develop near Foss Lake in Custer County knocking down large tree limbs. Local media witnessed the 3rd tornado touching down about 8 miles southwest of Bloomington in Greer County near the Harmon/Greer County line. The tornado, an F1, tracked to the northeast for 7.5 miles, damaging barns, grain storage bins, and Quonset hut-type buildings. The 4th tornado, an F1, was witnessed by several people developing near the Greer/Beckham County border and tracking northeast for nearly 6 miles before dissipating about 2 miles southwest of Carter in Beckham County. Damage was mainly confined to near US 283, near the beginning of the tornado path. Grain silos and a barn were damaged; an ostrich building was unroofed, and tractor windows were broken. Minor roof damage also occurred to a house. Little or no damage was observed in Beckham County. The 5th tornado, rated an F1, developed on the west side of Dill City in Washita County and ripped most of the roof off a well-constructed brick home. A storage shed in the neighbor's yard was destroyed, and numerous trees and power lines were downed. The 6th and last tornado was witnessed by a Custer County Sheriff's Deputy touching down briefly in a wheat field 2 miles north of Custer City, with no significant damage (F0).</p> <p>In addition to the tornadoes, baseball-size hail fell in Roger Mills County 8 miles south of Hammon. Several mobile homes were severely damaged. Two semis were blown over on Interstate 40 four miles west of Canute in Washita County near mile marker 42. Three people were treated for minor injuries. Power poles were also blown down in Canute, and in Butler, which is in Custer County. Numerous trees were blown down in Mountain View in Kiowa County, while minor roof damage occurred to several buildings on Monroe Ave. and Piedmont Rd. in Piedmont in Canadian County. Power poles, signs, and a barn were also damaged in Piedmont. In Kingfisher in Kingfisher County, 6 mobile homes were damaged in the Major Home Park; 3 barns and a chicken house were destroyed; numerous pine trees were downed; 3 pine trees were snapped behind Southside Auto; power was knocked out for 3 hours; extensive tree damage occurred in the park; a golf cart storage building sustained roof damage; portable corrals were blown over on Lemon Rd, and numerous billboard signs were blown down. A few homes were damaged, and a tree was downed in Perkins in Payne County. Also in Payne County, 8 miles southeast of Glencoe, 3 outbuildings and pick-up trailer were destroyed; a trampoline was blown away; trees were downed, and minor damage occurred to roof shingles. A metal barn and fence were destroyed, and 3 power poles were downed in Meeker in Lincoln County, while in Ponca City in Kay County a roof was blown off a building; 4 power poles were downed; and windows were broken on West Grand Ave. and North Second Street; numerous traffic signals were blown down, one onto a car, and numerous homes received minor roof damage. A woman also received minor injuries when she stepped on a piece of broken glass.</p> <p>Minor flooding occurred 2 miles northeast of Tonkawa in Kay County, where the intersection of Highway 70 and Highway 177 was flooded, and also in Ponca City, also in Kay County, where the intersection of Waverly and Hubbard was closed due to high water.</p>									
Bryan County									
4 W Durant	03	0600CST			0	0			Hail (0.88)
Bryan County									
Calera	03	0650CST			0	0			Hail (1.00)
Bryan County									
Colbert	03	0705CST			0	0			Hail (1.25)

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	
OKLAHOMA, Western, Central and Southeast									
Bryan County									
Calera	03	0713CST			0	0			Hail (1.75)
Bryan County									
Durant	03	0713CST			0	0			Hail (1.75)
Atoka County									
Caney	03	0910CST			0	0			Hail (0.75)
Bryan County									
West Portion	03	1000CST 1200CST			0	0	50K		Flood
<p>Numerous thunderstorms occurred across portions of Bryan and Atoka Counties during the early morning of the 3rd. In addition to large hail, between 4 and 5 inches of rain fell across western Bryan County. Two homes in Durant and a nursing home in Colbert were flooded. The southbound lane of Highway 69/75 between the Choctaw Travel Plaza and Calera was also closed due to high water.</p>									
Marshall County									
7 SW Kingston	04	1715CST			0	0			Hail (0.75)
Harper County									
8 SW Laverne	04	2350CST			0	0			Hail (0.88)
Harper County									
7 NE Buffalo	05	0105CST			0	0			Hail (0.75)
Greer County									
Mangum	05	0130CST			0	0	0.10K		Thunderstorm Wind
Woodward County									
Mooreland	05	0140CST			0	0			Thunderstorm Wind (G61)
Woods County									
12 W Alva	05	0215CST			0	0	4K		Thunderstorm Wind
Woodward County									
Mutual	05	0215CST			0	0			Hail (1.00)
Washita County									
Burns Flat	05	0220CST			0	0			Thunderstorm Wind (G52)
Washita County									
Dill City	05	0220CST			0	0	3K		Thunderstorm Wind
Washita County									
5 SW Dill City	05	0220CST			0	0	0.20K		Thunderstorm Wind
Woods County									
7 W Alva	05	0220CST			0	0	0.50K		Thunderstorm Wind
Woodward County									
Belva	05	0230CST			0	0	0.01K		Thunderstorm Wind
Woodward County									
Mooreland	05	0230CST			0	0	8K		Thunderstorm Wind
Alfalfa County									
6 WSW Cherokee to 4.5 N Cherokee	05	0315CST 0322CST	7	200	0	0	60K		Tornado (F1)
Alfalfa County									
Ingersoll	05	0320CST			0	0	15K		Thunderstorm Wind
Major County									
4 N Ames	05	0407CST			0	0	0		Thunderstorm Wind
Major County									
4 NNE Ames	05	0410CST	0.1	25	0	0	0		Tornado (F0)
Alfalfa County									
5 NE Cherokee	05	0415CST			0	0	5K		Thunderstorm Wind
Grant County									
6 W Wakita	05	0420CST			0	0	0.50K		Thunderstorm Wind
Alfalfa County									
Amorita	05	0426CST			0	0	10K		Thunderstorm Wind

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	
OKLAHOMA, Western, Central and Southeast									
Garfield County									
2 N Carrier	05	0430CST	0.1	25	0	0	0		Tornado (F0)
Garfield County									
2 N Carrier	05	0445CST			0	0	0.50K		Thunderstorm Wind
Grant County									
8 SSW Wakita to 5 S Wakita	05	0450CST 0453CST	3	100	0	0	12K		Tornado (F0)
McClain County									
Blanchard	05	0450CST			0	0			Hail (0.75)
Grant County									
7 S Wakita	05	0455CST			0	0	10K		Thunderstorm Wind
McClain County									
10 SW Purcell to 8 W Purcell	05	0503CST 0506CST	3	15	0	0	40K		Tornado (F1)
Grant County									
12 NW Medford	05	0510CST			0	0	5K		Thunderstorm Wind
Garvin County									
1 N Pauls Valley	05	0533CST			0	0			Hail (1.00)
		Hail was reported on Interstate 35.							
Pottawatomie County									
1 SW Mc Loud	05	0545CST			0	0	10K		Thunderstorm Wind
Garvin County									
Wynnewood	05	0550CST			0	0	20K		Thunderstorm Wind
Carter County									
Ardmore	05	0558CST			0	0	10K		Thunderstorm Wind (G58)
Hughes County									
Holdenville	05	0645CST			0	0	40K		Thunderstorm Wind

A long line of thunderstorms moved east across most of western and central Oklahoma during the early morning of the 5th resulting in widespread straight-line damage and 5 tornadoes. Severe thunderstorms first developed in Magnum in Greer County where large tree limbs were blown down. In Woods County trees were downed 12 miles west of Alva near the intersection of Highway 64 and Highway 14. In addition, power poles were snapped; house roofs and barns were damaged, and sheds were blown over. Power lines were also downed 7 miles west of Alva. In Washita County many house roofs were damaged in Dill City, and power lines were downed 5 miles southwest of Dill City. In Woodward County large tree limbs were downed in Belva, while in Mooreland a camper trailer was destroyed; fences and tree limbs were blown down, and numerous vehicles were damaged.

A survey conducted by the National Weather Service concluded that an F1 tornado touched down 6 miles west-southwest of Cherokee in Alfalfa County and tracked northeast for 7 miles before dissipating about 4 miles north of Cherokee. Two hay storage barns and another storage barn at a feedlot were destroyed, and a large irrigation system was destroyed. Also in Alfalfa County a haybarn was destroyed in Ingersoll; the roof was ripped off of a boat house, and another house received minor roof damage. Large power poles were blown down 5 miles northeast of Cherokee, and a barn was blown down in Amorita, also in Alfalfa County. Another tornado was confirmed by a National Weather Service survey 4 miles north-northeast of Ames in Major County. This tornado, rated an F0, touched down in an open field with no known damage. The same thunderstorm that produced this tornado was also responsible for straight-line winds which blew a moving vehicle off the road 4 miles north of Ames.

A tornado also developed 2 miles north of Carrier in Garfield County, but no damage (F0) was observed as it touched down briefly in an open field. Another tornado, 3rd of the day, touched down about 8 miles south-southwest of Wakita in Garfield County and tracked northeast to about 5 miles south of Wakita. One sheet metal/wood frame hay storage barn was destroyed, and another was damaged. A truck was damaged, and tree limbs were blown down. The weak nature of the structures damaged or destroyed by this tornado warranted an F0 intensity rating. In addition to the tornado damage in Garfield County, straight-line wind damage was observed 2 miles north of Carrier where road signs were blown over, 7 miles south of Wakita where a shed was destroyed; a barn was blown over; a truck was damaged, and a few homes suffered roof and window damage, and 12 miles northwest of Medford where a semi was blown over, while in Grant County straight-line winds blew down power lines 6 miles west of Wakita.

As the line of thunderstorms continued to move east across portions of central Oklahoma, another tornado, an F1, developed in McClain County about 1 mile south of the intersection of Highway 59 and Highway 39, and moved northeast for 3 miles before dissipating. The most significant damage occurred near the intersection of Highway 39 and Youth Camp Road where the roof of a medium-sized house was severely damaged; 2 barns were destroyed, and a travel trailer was blown over onto a nearby car. In Pottawatomie County 1 mile southwest of McLoud a gazebo was destroyed, and a metal barn was damaged. Large tree limbs and a chainlink fence were also blown down, while in Wynnewood in Garvin County a barn was destroyed, and the roof of a horse barn was blown off; numerous trees and power poles were downed, and many homes received minor roof and structural damage. Severe

Storm Data and Unusual Weather Phenomena

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Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
thunderstorm winds also damaged a hangar and aircraft at the Ardmore Regional Airport in Ardmore in Carter County, while widespread damage occurred in Holdenville in Hughes County. Three homes received major damage, while 143 other homes received minor damage. Trees, power lines, and a radio tower were blown down, and at least one vehicle was damaged.									
Ellis County									
Shattuck	13	1200CST 1202CST			0	0			Hail (0.75)
Ellis County									
9 NNW Gage	13	1210CST			0	0			Hail (0.75)
Ellis County									
Gage	13	1215CST			0	0			Hail (1.75)
Ellis County									
Fargo	13	1225CST			0	0			Hail (1.75)
Woodward County									
3 W Woodward	13	1230CST			0	0			Hail (1.75)
Woodward County									
7 NW Woodward	13	1235CST			0	0			Hail (1.00)
Woodward County									
Mooreland	13	1253CST			0	0			Hail (1.75)
Woods County									
16 SE Waynoka	13	1305CST			0	0			Hail (0.75)
Woods County									
4 NNE Waynoka	13	1335CST			0	0			Hail (0.75)
Woodward County									
Woodward	13	1335CST			0	0			Hail (0.75)
Garfield County									
Garber	13	1341CST			0	0			Hail (0.88)
Alfalfa County									
Cherokee	13	1430CST			0	0			Hail (0.88)
Major County									
9 NW Orienta	13	1455CST			0	0			Hail (1.75)
Woods County									
18 SE Waynoka	13	1455CST			0	0			Hail (1.75)
Alfalfa County									
Helena	13	1532CST			0	0			Hail (0.75)
Kay County									
Kildare	13	1554CST			0	0			Hail (0.88)
Grant County									
Pond Creek	13	1610CST			0	0			Hail (0.75)
Grant County									
Jefferson	13	1615CST			0	0			Hail (0.75)
Dewey County									
8 N Leedey	13	1713CST			0	0			Hail (0.75)
Dewey County									
8 N Leedey	13	1713CST			0	0			Thunderstorm Wind (G52)
Harmon County									
3 NE Madge	13	1800CST			0	0			Hail (0.75)
Alfalfa County									
North Portion	13	1935CST 2135CST			0	0	50K		Flood
Grant County									
Northwest Portion	13	1948CST 2148CST			0	0	2K		Flood

Numerous thunderstorms developed across portions of northwest and north central Oklahoma during the afternoon and early evening of the 13th. In addition to numerous reports of large hail, flooding was reported across portions of Alfalfa and Grant Counties. Between 3 and 4 inches of rain fell across northern Alfalfa County resulting in flooding and many road closings in and around Cherokee. Highway 64 heading west out of Cherokee was water covered and closed in spots. Highway 64 east of Cherokee

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	
OKLAHOMA, Western, Central and Southeast									
and Highway 11 south of Cherokee became water covered as well, while in Grant county Highway 132 was covered by high water 1 mile south of Manchester.									
Logan County									
Guthrie	14	1550CST			0	0			Hail (1.00)
Logan County									
Meridian	14	1615CST			0	0			Hail (0.75)
OKZ004>007-009>010									
Harper - Woods - Alfalfa - Grant - Ellis - Woodward	14	0900CST 2100CST			0	0	100K		Flood
Between 3 and 6 inches of rain fell across much of northwest and north central Oklahoma during the morning and afternoon of the 14th, resulting in flooding. The worst flooding occurred in northern Alfalfa County near Cherokee, Byron, Driftwood, and Burlington were localized rainfall amounts exceeded 7 inches. Cottonwood Canyon Bridge on N. Grand in Cherokee was flooded, and many rivers and creeks in northern Alfalfa County including Medicine River, Driftwood Creek and Stinky Creek flowed out of their banks. Eagle Chief Creek southwest of Dacoma in Woods County and Willow Creek 3 miles east of Highway 183 in northeast Harper County also overflowed their banks. Also in Harper County, a road north of Selmen and a county road near Willow Creek were closed due to high water. In Woodward County, Highway 132 south of Manchester to Highway 11 was water covered and closed in spots; Highway 81 in Jefferson was impassible due to high water and was closed around 1500 CST; a pond dam near Woodward broke, flooding the intersection of Hank's Trail and Spring Valley Dr; a county road on the east end of Lawsuit Lake was flooded north of Quinlan; Highway 412 west of Mooreland was covered with water, and the Mooreland City Park was flooded.									
Jackson County									
5 SE Elmer	21	1640CST			0	0			Hail (1.00)
Tillman County									
3 SE Tipton	21	1645CST			0	0			Hail (0.88)
Tillman County									
Manitou	21	1658CST			0	0			Hail (1.00)
Alfalfa County									
Goltry	21	1701CST			0	0			Hail (1.00)
Jackson County									
11 NE Altus	21	1704CST			0	0			Hail (0.75)
Grant County									
2 W Medford	21	1709CST			0	0			Hail (0.75)
Kiowa County									
Mountain Park	21	1711CST			0	0			Hail (1.00)
Major County									
4 NNW Ringwood	21	1720CST			0	0			Hail (1.75)
Comanche County									
11 NNW Indianoma	21	1725CST			0	0			Hail (1.00)
Grant County									
Nash	21	1730CST			0	0			Hail (1.00)
Garfield County									
4 WSW Carrier to 4 NE Carrier	21	1745CST 1805CST	8.5	500	0	0	1.5M		Tornado (F2)
Kiowa County									
3 SSE Cooperton	21	1745CST			0	0			Hail (0.75)
Comanche County									
8 N Indianoma	21	1750CST			0	0			Hail (0.75)
Alfalfa County									
Goltry	21	1800CST			0	0			Hail (2.75)
Garfield County									
3 ENE Carrier to 8 NE Carrier	21	1802CST 1815CST			0	0	2K		Thunderstorm Wind
Garfield County									
7 N Enid	21	1810CST			0	0			Hail (1.75)
Garfield County									
1.5 W Kremlin	21	1822CST			0	0			Hail (1.50)

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	
OKLAHOMA, Western, Central and Southeast									
Garfield County									
2 W Kremlin	21	1823CST			0	0	10K		Thunderstorm Wind
Garfield County									
Kremlin	21	1829CST			0	0			Hail (2.75)
Grant County									
2 E Salt Fork	21	1845CST			0	0			Hail (0.75)
Major County									
3 NNE Meno	21	1845CST			0	0			Hail (1.00)
Blaine County									
Canton	21	1857CST			0	0			Hail (1.00)
Garfield County									
1 WNW Vance Afb	21	1858CST	0.1	25	0	0	0.50K		Tornado (F0)
Garfield County									
Hillsdale	21	1900CST			0	0			Hail (0.75)
Grant County									
4 NW Medford	21	1900CST			0	0			Hail (0.75)
Garfield County									
Enid	21	1905CST			0	0	0.50K		Thunderstorm Wind
Garfield County									
Vance Afb	21	1915CST			0	0			Thunderstorm Wind (G72)
Major County									
Ames	21	1917CST			0	0			Hail (1.75)
Garfield County									
Enid	21	1922CST			0	0			Hail (1.75)
Dewey County									
Oakwood	21	1930CST			0	0			Hail (1.00)
Noble County									
Billings	21	1940CST			0	0			Hail (0.75)
Garfield County									
Waukomis	21	1955CST			0	0			Hail (1.00)
Noble County									
1 NE Billings to 6 ENE Billings	21	2007CST 2017CST	5	50	0	1	30K		Tornado (F1)
Kay County									
5 S Tonkawa	21	2013CST			0	0			Hail (0.75)
Hail was reported on Interstate 35 on the Kay/Noble County line.									
Noble County									
4 N Billings	21	2013CST			0	0			Hail (0.75)
Hail was reported on Interstate 35 on the Kay/Noble County line.									
Noble County									
4 WNW Marland	21	2014CST			0	0			Hail (0.75)
Blaine County									
Canton	21	2017CST			0	0			Hail (1.00)
Blaine County									
Southard	21	2020CST			0	0			Hail (0.75)
Kingfisher County									
6 W Lacey	21	2030CST			0	0	2K		Hail (1.75)
Noble County									
Lucien	21	2031CST			0	0			Hail (0.75)
Blaine County									
Canton	21	2036CST			0	0			Hail (1.00)
Kingfisher County									
16 W Hennessey	21	2041CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Western, Central and Southeast									
Noble County									
Perry	21	2041CST			0	0			Hail (0.75)
Kingfisher County									
16 W Hennessey	21	2044CST			0	0	10K		Hail (2.50)
Kingfisher County									
5 WSW Lacey	21	2046CST			0	0			Hail (2.50)
Garfield County									
Hayward	21	2100CST			0	0			Hail (0.75)
Kingfisher County									
7 SW Hennessey	21	2108CST			0	0			Hail (2.75)
Kingfisher County									
3 SSW Hennessey	21	2117CST			0	0			Hail (1.75)
Kingfisher County									
3 SSW Hennessey	21	2117CST			0	0			Thunderstorm Wind (G52)
Kingfisher County									
Hennessey	21	2120CST			0	0	1M		Hail (2.75)
Kingfisher County									
Hennessey	21	2132CST			0	0			Hail (0.75)
Noble County									
Lucien	21	2140CST			0	0			Hail (0.75)
Logan County									
Marshall	21	2146CST			0	0			Hail (0.75)
Kingfisher County									
Hennessey	21	2157CST			0	0			Hail (0.88)
Payne County									
8 NNW Stillwater	21	2214CST			0	0			Hail (1.00)
Payne County									
Stillwater	21	2217CST			0	0			Hail (1.00)
Payne County									
Stillwater	21	2217CST			0	0	5K		Thunderstorm Wind (G78)
Major County									
Isabella	21	2245CST			0	0			Hail (1.75)
Major County									
4 SW Ames	21	2250CST			0	0			Hail (1.75)
Garfield County									
Drummond	21	2320CST			0	0			Hail (0.88)
Grant County									
4 W Medford	22	0205CST			0	0			Hail (1.75)
Grant County									
Wakita	22	0215CST			0	0			Hail (1.00)

Severe thunderstorms affected parts of western and central Oklahoma from late afternoon of the 21st through the early morning of the 22nd. An F2 tornado that struck the town of Carrier in Garfield County received the most attention, however 2 other tornadoes did form, and there were many reports of damaging straight-line winds and large, destructive hail. A team of National Weather Service meteorologists surveyed the damage in and near Carrier and rated the tornado an F2. The tornado developed at 1745 CST approximately 4 miles west-southwest of Carrier. The tornado moved along a path from west-southwest to east-northeast from its starting point to Carrier. The path width was approximately 150 yards wide early in the tornado's life. At a point 2 miles southwest of Carrier F2 damage was observed. A home had its roof ripped off and two walls collapsed. As the tornado began to approach Carrier it widened to approximately 500 yards. Four homes in Carrier lost all of their roofs with all four walls standing. One older abandoned cinder block building collapsed. A school and church on the north side of Carrier suffered only minor roof or window damage. As the storm moved out of Carrier it turned to the northeast and narrowed to 200 yards. At about 2 miles northeast of Carrier one home had significant damage to its roof while another suffered minor roof damage. The tornado was rated F1 at this point. The tornado dissipated at 1805 CST about 4 miles northeast of Carrier. The combination of the tornado and straight-line winds in believed to have been responsible for the majority of damage. After the tornado dissipated, straight-line winds continued to cause some damage for several miles. Significant tree damage was noted 4 miles east northeast of Carrier which was one and a half miles south of the tornado damage path. In total 8 homes and businesses were destroyed; 14 buildings sustained major damage, while 19 others sustained minor damage. Damage is estimated at 1.5 million dollars.

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	

OKLAHOMA, Western, Central and Southeast

Another tornado, an F0, was reported by Garfield County Emergency Management causing minor damage to roofs of 2 homes west-northwest of Vance Air Force Base. The 3rd and last tornado of the day, an F1, touched down about 1 mile northeast of Billings in Noble County and destroyed a barn and 2 outbuildings. In addition trees were blown down and several house windows were blown out; numerous farm animals were killed, and 2 semis were blown over on Interstate 35 near mile marker 207. The driver of one of the trucks was injured by broken glass. In addition to tornadoes, large and destructive hail fell in many areas including Hennessey in Kingfisher County where an unusually large amount of golf ball to baseball-size hail fell several times on the 21st causing extensive damage to vehicles, homes, and wheat crop. At least 900,000 dollars is expected to be paid out by just one insurance company which received nearly 750 claims. Among the list of hail damage reports: a pick-up truck was struck by golf ball-size hail 6 miles west of Lacey in Kingfisher County, and numerous vehicles had their windows broken by tennis ball-size hail 16 miles west of Hennessey, also in Kingfisher County.

Damaging straight-line winds were observed by the Chief of the Kremlin Fire Department in Garfield County who experienced a brief period of 70 to 80 mph winds from the northwest near the intersection of Highway 81 and Great Lakes Road 8 miles south of Kremlin. He also witnessed an old barn being blown over. Power lines were also downed on the north side of Enid in Garfield County. A wind gust of 90 mph was also observed at the Stillwater Regional Airport in Payne County, where many signs were blown down.

Seminole County									
4 N Cromwell	22	1915CST			0	0			Hail (1.00)
Seminole County									
5 E Seminole	22	2007CST			0	0			Hail (0.75)
Greer County									
Willow	24	0915CST			0	0			Hail (1.00)
Washita County									
2 S Rocky	24	0950CST			0	0			Hail (1.00)
Washita County									
2 W Sentinel to 7 W Sentinel	24	1000CST			0	0			Hail (1.00)
Hail was reported to be 3 to 4 inches deep.									
Washita County									
3 SW Dill City	24	1055CST			0	0	75K		Hail (1.75)
Washita County									
Dill City	24	1113CST			0	0			Hail (1.00)
Custer County									
2 S Clinton	24	1220CST			0	0			Hail (1.00)
Washita County									
11 N Cordell	24	1220CST			0	0			Hail (1.00)
Custer County									
Arapaho	24	1224CST			0	0			Hail (1.00)
Custer County									
Clinton	24	1225CST			0	0			Hail (2.75)
Custer County									
5 W Custer City	24	1306CST			0	0			Hail (0.88)
Severe thunderstorms accompanied by lots of large hail developed across portions of the west central and southwest Oklahoma during the late morning and early afternoon of the 24th. Wheat crop was reported to be damaged by golf ball-size hail 3 miles southwest of Dill City in Washita County.									
Seminole County									
Wewoka	26	0750CST			0	0			Hail (0.75)
Grady County									
Tabler	26	1415CST			0	0			Hail (1.00)
Grady County									
Tabler	26	1440CST			0	0			Hail (1.00)
McClain County									
Dibble	26	1445CST			0	0			Hail (0.75)
Grady County									
3 E Middleberg	26	1455CST			0	0			Hail (0.75)

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	
OKLAHOMA, Western, Central and Southeast									
Seminole County									
4 S Sasakwa	26	1505CST			0	0			Hail (1.75)
McClain County									
Goldsby	26	1510CST			0	0			Hail (1.25)
McClain County									
5 NW Purcell	26	1510CST			0	0			Hail (0.88)
McClain County									
3 S Dibble	26	1512CST			0	0			Hail (0.75)
Cleveland County									
3 SE Noble	26	1513CST			0	0			Hail (0.75)
McClain County									
2 SW Blanchard	26	1520CST			0	0			Hail (0.88)
Cleveland County									
Slaughterville	26	1525CST			0	0			Hail (0.88)
Pottawatomie County									
Macomb	26	1548CST			0	0			Hail (0.75)
McClain County									
3 SW Purcell	26	1605CST			0	0			Hail (0.75)
McClain County									
3 W Purcell	26	1620CST			0	0			Hail (0.75)
Cleveland County									
2 S Lexington	26	1635CST			0	0			Hail (1.00)
Seminole County									
4 S Sasakwa	26	1705CST			0	0			Hail (1.75)
Hughes County									
5 SW Atwood	26	1714CST			0	0			Hail (0.75)
Pontotoc County									
2.5 NE Allen	26	1714CST			0	0			Hail (0.75)
Major County									
14 N Chester	26	1736CST			0	0			Hail (0.88)
Blaine County									
8 NNW Watonga	26	1813CST			0	0			Hail (1.75)
Blaine County									
Geary	26	1840CST			0	0			Hail (0.75)
Canadian County									
9 NW Karnes Station	26	1840CST			0	0			Hail (1.25)
Blaine County									
4 S Watonga	26	1841CST			0	0			Hail (0.88)
Blaine County									
4 NE Geary	26	1850CST			0	0			Hail (0.88)
Blaine County									
4 NE Geary	26	1855CST			0	0			Hail (1.00)
Caddo County									
4 N Hinton	26	1902CST			0	0			Hail (1.75)
Caddo County									
4 N Hinton	26	1905CST			0	0			Hail (2.75)
Hail was reported near the intersection of Highway 281 and Interstate 40.									
Canadian County									
6 E Niles	26	1927CST			0	0			Hail (1.00)
Canadian County									
2 E Niles	26	1935CST			0	0			Hail (1.75)
Caddo County									
Cogar	26	1940CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Caddo County									
Cogar	26	1945CST			0	0			Hail (1.75)
Alfalfa County									
2 W Burlington	26	1955CST			0	0			Hail (0.75)
Grady County									
8 N Chickasha	26	2000CST			0	0			Hail (1.25)
Caddo County									
7 ENE Anadarko	26	2005CST			0	0			Hail (1.00)
Grady County									
2 NW Norge	26	2034CST			0	0			Hail (1.00)
Alfalfa County									
9 NE Byron	26	2047CST			0	0			Hail (0.75)
Grady County									
Ninnekah	26	2050CST			0	0			Hail (0.88)
Grady County									
Rush Spgs	26	2105CST			0	0			Hail (1.00)
Grant County									
Medford	26	2110CST			0	0			Hail (0.75)
Greer County									
Hester	20	1600CST			0	0	4K		Dust Devil
Several people watched a dust devil destroy a tent and cause significant damage to a barn roof.									
OKZ004>040-042-044>045-052	Harper - Woods - Alfalfa - Grant - Kay - Ellis - Woodward - Major - Garfield - Noble - Roger Mills - Dewey - Custer - Blaine - Kingfisher - Logan - Payne - Beckham - Washita - Caddo - Canadian - Oklahoma - Lincoln - Grady - McClain - Cleveland - Pottawatomie - Seminole - Hughes - Harmon - Greer - Kiowa - Jackson - Tillman - Comanche - Stephens - Garvin - Pontotoc - Cotton - Jefferson - Bryan								
	14	1700CST			0	0	56.5K		High Wind (G64)
	15	0500CST							
North winds between 40 and 50 mph with gusts over 60 mph affected most of western and central Oklahoma from the evening of the 14th through the early morning of the 15th. Trees were downed and power outages were reported in Buffalo in Harper County. Power outages occurred in Alva in Woods County. Trees were downed in Alfalfa County. Also in Alfalfa County, many house roofs received minor damage, and television antennas were blown down. Tree limbs were blown down, and many house roofs received shingle damage in Erick in Beckham County. Trees were downed 10 miles west of Watonga in Blaine County. A roof was blown off a mobile home and power outages were reported in Vici in Dewey County. Power poles and large tree limbs were downed in Shattuck in Ellis County. A tractor trailer rig was blown over on Interstate 40 just west of Clinton in Custer County. Power lines and large tree limbs were blown down in Roger Mills County. Downed tree limbs and power outages were recorded in Cordell in Washita County. Trees were downed in Woodward County. A house received minor damage, and large tree limbs were downed in Ringwood in Major County. In Kay County, power lines were downed; a baseball stop was blown over; large tree limbs were downed; and roof shingles were missing from many houses. One tree was blown over, and roof shingles were missing from houses in Harmon County. In Greer County, tree limbs were downed, and 40 residents were left without power. Tree limbs were downed in Kiowa County. Trees were downed in Geronimo and Lawton in Comanche County. In Grady County, a tree was blown over onto a mobile home resulting in minor damage; another tree fell across Highway 277 west of US 81; power outages also occurred in some areas for 3 hours. In Caddo County, a power pole was downed in Ceril, and parts of Gracemont were without power for several hours. A tree fell across Chestnut St. on the east side of Duncan in Stephens County at 2000 CST. Parts of Ringling in Jefferson County were left without power. Large tree limbs were downed in Garvin County. Tree limbs were downed, and scattered power outages occurred 5 miles west of Dibble in McClain County. A fence was blown down at 14th and Broadway in Ada in Pontotoc County. Large tree limbs were blown down and fell on a parked van in Calera in Bryan County. One tree fell across a road in Cromwell in Seminole County. Several fences and one tree were blown down in Norman in Cleveland County. Power lines were downed at 2038 CST in Yukon in Canadian County. Large tree limbs were downed in Kingfisher in Kingfisher County. Power lines were downed in Edmond in Oklahoma County leaving 3500 people without power for several hours. Large tree limbs were downed in Guthrie in Logan County, and one tree was downed in Perkins in Payne County.									
Ellis County									
12 NNW Fargo	14	1500CST			0	0	1.5K		Lightning
Woodward County									
Ft Supply	14	1530CST			0	0	2K		Lightning
Lightning struck 3 cattle in far northwest Ellis County killing them, and also a house in Fort Supply in Woodward County causing electrical damage.									
OKZ017									
Blaine									
	05	0900CST			0	0	20K		High Wind
		1700CST							
West winds blew between 30 and 40 mph with gusts over 50 mph during the late morning and afternoon of the 5th. The metal roof									

Storm Data and Unusual Weather Phenomena

April 1999

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

from West Main Auto in Watonga blew off and fell onto many parked vehicles.

Pottawatomie County

Mc Loud	12	0800CST			0	0	0.20K		Lightning
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Lightning struck the security fence at the Central Oklahoma Correctional Facility, knocking out power to the fence for a few hours.

Oklahoma County

Oklahoma City	16	1500CST			0	0	2.5K		Lightning
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Lightning struck a home on SW 81st. causing minor damage.

OKZ007>008-012>013-018>020-024>028-030>032-040>043-046>047

Grant - Kay - Garfield - Noble - Kingfisher - Logan - Payne - Canadian - Oklahoma - Lincoln - Grady - McClain - Pottawatomie - Seminole - Hughes - Garvin - Murray - Pontotoc - Coal - Carter - Johnston

	23	2300CST			0	0	932K		Flood
	26	2300CST							

Five to 7 inches of rain fell across portions of central Oklahoma from the 24th through the 26th. Local amounts of rainfall exceeded 10 inches from near Allen in Pontotoc County northeast to near Calvin in Hughes County. The worst damage from flooding occurred in Lincoln and Hughes Counties. Six county bridges were partially eroded during the flooding in Lincoln County where repair costs are estimated at a half million dollars. Bridges known to be damaged include one on SH18 near the Deep Fork River, and the Chuckaho Bridge south of Davenport. At least 2 bridges are known to have been damaged in Hughes County, one north and one south of Holdenville, where repair costs are near 300 thousand dollars. In addition to bridge damage, thousands of tons of gravel were lost and will need to be replaced. Spaulding Rd. west of Holdenville was closed on the 24th, and SH48 was closed when Little Wetumka Creek overflowed its banks. At least 10 roads are known to have been closed in Payne County during the heavy rain. These roads include SH51 west of Stillwater, Sangre Ridge south of 6th, County Club Rd. north of 6th, Western south of 12th Street, 18th St. east of Main, and Husband south of Stillwater. Two families near Stillwater also needed to be rescued by boat from their homes. In Cleveland County, heavy rain flooded the intersection of 24th Ave NE and Franklin Road, where a woman needed to be rescued from her car which was stranded in chest high water. In Ardmore in Carter County numerous cars became stranded in high water on Sam Noble Parkway. In Tonkawa in Kay County Fountain Rd. was closed. In Shawnee in Pottawatomie County Clearpond Road just west of Acme Rd. was closed. In Choctaw in Oklahoma County, portions of NE 23rd were closed, and in Garfield County 4 miles west of Bison a vehicle was flooded out when it encountered high water from Turkey Creek. Several motorists were stranded in high water in Coal County. In Seminole County Highway 9 was reported to be covered by high water from the Salt Creek 6 miles southwest of Bowlegs, and Sportsman Lake Road near Sportsman Lake in Wewoka was also flooded. Magnolia Creek in Seminole overflowed its banks as well flooding Seminole Municipal Park.

Canadian County

Yukon	13	0945CST			0	0	20K		Lightning
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Lightning started a large house fire in the 200 block of Klondike damaging the attic and parts of the roof.

OREGON, Central and East

ORZ019

Northeast Oregon									
	08	1100PST			0	2			Heavy Snow
	09	0600PST							

A late season snow storm moved across Northeast Oregon and caused I-84 to close for several hours. Eight to ten inches of snow fell in Tollgate during the day and overnight. Four to five inches of snow fell in Cove during the day. Four inches of snow fell in Meacham during the afternoon and evening. I-84 was closed from 7 PM to 930 PM due to the weather conditions and numerous vehicles accidents. At least two people were taken to a hospital, treated and released.

OREGON, Northwest

ORZ011

Northern Cascades									
	03	0000PST			0	0			Heavy Snow
		1800PST							

A late season Pacific storm dumped 11 inches of snow at Bennett Pass and 10 inches at Timberline Lodge on Mt Hood. Santiam pass reported 9 inches and Government Camp 7 inches..

OREGON, Southeast

NONE REPORTED.

OREGON, Southwest

ORZ008

Rogue Basin									
	01	1210PST			0	0			Extreme Cold
	02	0800PST							

See below

A Freeze Warning was issued at 1210 PST on 04/01/99 for the Rogue and Umpqua Basins in Southwest Oregon. Two stations in the Rogue Basin verified the Warning (see below), but no verification was obtained in the Umpqua Basin.

Station	Normal Low	Observed Low	Departure
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Storm Data and Unusual Weather Phenomena

April 1999

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

OREGON, Southwest

	Grants Pass		37				25		-12
	Medford		37				26		-11

ORZ015

South Central Oregon

03	1330PST		0	0					Extreme Cold
04	0740PST								

See below

A Freeze Warning was issued for the Southwest Oregon Coast (ORZ003) and South Central Oregon (ORZ015). The warning only verified in South Central Oregon. Verifying observations are listed below.

Station	Normal Low	Observed Low	Departure
Klamath Falls	31	13 (Record low for date)	-18
Paisley	30	15	-15
Sprague River	25	10	-15

PACIFIC

Guam

Tamuning

11	1220SST		1	0					Rip Currents
	1532SST								

On the 11th a man died in strong currents while snorkeling inside the reef near the Shark's Hole, which is north of Tanguisson Beach. The 55 year old Rand R. Rihle of California was snorkeling with a friend when strong currents swept them outside the reef. Rihle's friend made it to shore and called rescue workers, who arrived at 1245. A helicopter spotted Rihle's body floating 200 yards off the reef at 1430. He was pronounced dead at Guam Memorial Hospital at 1532.

Unrelated weather even that occurred across the Guam Area of Responsibility. On the 6th at 1330 Local Guam time a Tropical Cyclone Formation Alert was issued by the Joint Typhoon Warning Center for a circulation north of Yap near 10.2N 134.7E. This circulation developed in Tropical Depression 03W later in the day. Tropical Depression 03W was located near 10.7N 133.2E at 1900 local time. The tropical depression moved west of the Guam Area of Responsibility (130E) by the early morning of the 9th. It eventually became Tropical Storm Jacob. It's movement kept it out over the open ocean and no reports of damage was received.

On the 22nd Tropical Depression 04W formed in the monsoon trough over Mindanao in the Philippines. It became Tropical Storm Kate on the afternoon of the 23rd. It was still west of the Guam Area of Responsibility at this time. The storm's northeast motion eventually caused it to enter into Guam's area on the morning of the 24th while it was near 16.2N 130.3E. It remained in Guam' Area of Responsibility until the morning of the 27th. It exited the Guam area near 21.0N 135.0E. Other than causing some ocean swells across the Marianas Islands, no reports of damage was received. M551W

PENNSYLVANIA, Central

Somerset County

Meyersdale

09	1510EST		0	0					Hail (0.75)
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Winds gusted to 50 mph and dime size hail fell on Mt. Davis 5 miles southwest of Meyersdale. Hail of pea to marble size was also reported in Somerset and Meyersdale along with heavy downpours.

Somerset County

Ogletown

22	0110EST		0	0					Hail (0.75)
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Dime size hail fell in Ogletown.

Cambria County

Johnstown

22	0500EST		0	0	20K				Flash Flood
	0700EST								

Heavy downpours caused rapid flooding of a small portion of Johnstown. Several basements were flooded and roads were briefly closed.

PENNSYLVANIA, East

Bucks County

Doylestown to 1 N Langhorne

11	1715EST		0	0		0			Lightning
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Lightning strikes caused power outages for an hour to about 500 homes and businesses in Doylestown and Middletown Township.

Philadelphia County

Philadelphia

16	1515EST		0	0		0			Lightning
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A lightning strike ignited a fire in the steeple of St. Boniface Church in North Philadelphia around 4:15 p.m. EDT. It began at the top of the spire just below a large cross. It burned downward feeding on dry beams that crisscross inside the steeple and greater than one-hundred-thirty-year old roof decking. It took firefighters two hours to get the blaze under control. No injuries were

Storm Data and Unusual Weather Phenomena

April 1999

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

reported.

PENNSYLVANIA, Northeast

PAZ038

Bradford

16 1540EST 0 0 10K High Wind

A cluster of showers with strong gusty winds moved through the northern tier of Pennsylvania late in the afternoon on the 16th. Across northern Bradford county, wind gusts produced some damage. Emergency management personnel reported that two dairy barns sustained damage in the northeastern corner of the county in Ridgebury and Herrick townships. In Herrick township, large slabs of lumber from the fallen barn were blown across a nearby roadway and had to be cleared.

PENNSYLVANIA, Northwest

NONE REPORTED.

PENNSYLVANIA, West

Allegheny County

Sewickley

09 0900EST 0 0 10K Lightning

Lightning struck a turn-of-the-century barn that served as a plumbing and heating business. Lightning struck the side of the building near a second-floor furnace room and burned through the barn's wood siding. Firefighters were able to save the building from all but minimal damage.

Washington County

Washington

09 1350EST 0 0 2K Thunderstorm Wind (G50)

Thunderstorm winds downed several power lines across the city.

Allegheny County

Sewickley

09 1400EST 0 0 25K Lightning

In the second lightning strike of the day in the town of Sewickley, lightning struck the chimney of a large brick home. The lightning strike caused heavy damage to the roof, prompting one fire official to comment "This is the worst (lightning strike) we've seen in years. It looks like the Air Force bombed it."

Greene County

Ruff Creek

09 1409EST 0 0 Hail (0.88)

Washington County

**Burgettstown to
Hickory**

09 1425EST 0 0 Flash Flood
10 0300EST

Thunderstorm rains produced flash flooding on Route 18 between Burgettstown and Hickory. Minor flooding continued across this area through the early morning hours of the 10th.

Allegheny County

3 S Elizabeth

09 1430EST 0 0 2K Thunderstorm Wind (G50)

Thunderstorm winds downed several trees.

Fayette County

Uniontown

09 1430EST 0 0 10K Thunderstorm Wind (G50)

Thunderstorm winds downed numerous trees around the Uniontown area.

Fayette County

Countywide

09 1434EST 0 0 Flash Flood
1630EST

Heavy thunderstorm rains produced minor road flooding across the county.

Greene County

Waynesburg

09 1434EST 0 0 10K Flash Flood
1630EST

Thunderstorms produced 1.66 inches of rain by the early afternoon hours, forcing Grimes Run to overflow its banks. Minor basement flooding was reported.

**Westmoreland
County**

3 W Stahlstown

09 1442EST 0 0 Hail (0.75)

Allegheny County

**Pittsburgh to
Pleasant Hills**

09 1500EST 0 0 2K Flash Flood
1630EST

Heavy thunderstorm rains produced stream and road flooding in the southern suburbs of Pittsburgh. Flooding was reported at the intersection of Routes 837 and 51 in Pittsburgh's South Side. Minor flooding was also reported on Lewis Run Road in the Pleasant Hills area.

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	
PENNSYLVANIA, West									
Butler County									
Leasureville	09	1525EST 1800EST			0	0			Flash Flood
Heavy thunderstorm rains forced a tributary of Buffalo Creek out of its banks just east of Leasureville.									
Beaver County									
Countywide	09	1530EST 1700EST			0	0	50K		Flash Flood
Over 1.5 inches of rain from thunderstorms produced minor flooding across the county. A portion of Freedom-Crider Road near Park Quarry Road was closed due to a small mudslide. Route 51 near Monaca was restricted to one lane by a mudslide. A mudslide was also reported on Route 68 near the Shippingport Bridge. Street flooding was reported in downtown Beaver. In addition, the Beaver County 911 Center received dozens of calls of flooded basements.									
Westmoreland County									
Countywide	09 10	1530EST 0300EST			0	0	50K		Flash Flood
Thunderstorm rains produced several incidents of flash flooding across the county. Roadway flooding closed Route 136 and Arona Road in Arona Borough. A mud slide occurred in New Stanton on Thermo Village Road. Several roads were closed and mudslides were reported in Rostraver Township, with minor flooding also reported in the Norvelt and Mt. Pleasant areas. Flooding was reported along the Loyalhanna Creek near Latrobe. In addition, many reports of basement flooding were received from across the county.									
Fayette County									
Elliottsville	09 10	1900EST 0300EST			0	0			Flash Flood
Heavy rains from thunderstorms produced minor flooding in Elliottsville near Route 381. Minor flooding was also reported on Little Sandy Creek near Gibbon Glade and Meadow Run Creek along Route 381 north of Farmington.									
Westmoreland County									
1 E Greensburg	11	1330EST			0	0			Hail (0.75)
Mercer County									
2 W Charleston	11	1518EST			0	0			Hail (0.75)
Mercer County									
Grove City	11	1528EST			0	0			Hail (0.75)
PAZ009-014>016-020>023-029>030-032		Forest - Butler - Clarion - Jefferson - Beaver - Allegheny - Armstrong - Indiana - Washington - Westmoreland - Fayette			0	0			High Wind (G56)
	16	1110EST 1500EST			0	0			High Wind (G56)
Southwesterly winds gusted to over 50 knots as a strong area of low pressure passed across the area. Numerous trees and power lines were blown down by the high winds across western Pennsylvania. A wind gust to 56 knots was recorded at the Allegheny County Airport in West Mifflin, and gusts to 50 knots were recorded at both the Beaver County and Washington County Airports.									
Beaver County									
Ambridge	21	2325EST			0	0			Hail (0.75)
Allegheny County									
Sewickley Hgts	21	2340EST			0	0			Hail (1.75)
Allegheny County									
Penn Hills	21	2346EST			0	0			Hail (0.75)
Allegheny County									
Edgeworth to Edgewood	22	0000EST			0	0	3K		Thunderstorm Wind (G50)
Thunderstorm winds downed several large trees.									
Beaver County									
Independence	22	0000EST			0	0	1K		Thunderstorm Wind (G50)
A large tree was blown down by thunderstorm winds.									
Allegheny County									
Pittsburgh to Pittock	22	0030EST 0130EST			0	0			Flash Flood
Heavy thunderstorm rains produced minor road flooding across several Pittsburgh suburbs, including East Liberty, Monroeville, Fox Chapel, Millvale, Shaler and Etna.									

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	
<u>PENNSYLVANIA, West</u>									
Westmoreland County									
Trees Mills	22	0040EST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees.
Greene County									
Waynesburg	23	1245EST			0	0			Hail (2.00)
Fayette County									
Pt Marion	23	1310EST			0	0			Hail (2.00)
<u>PUERTO RICO</u>									
Aguadilla									
San Sebastian	29	1400AST 1700AST			0	0	15K		Flash Flood
									Local Civil Defence indicated that a small stream near near Juncal sector between San Sebastian and Lares flooded three residences damaging the furniture.
<u>RHODE ISLAND</u>									
									NONE REPORTED.
<u>SOUTH CAROLINA, Central</u>									
Mccormick County									
Mc Cormick	08	1707EST			0	0	0	0	Hail (0.75)
									Sheriff reported dime size hail.
Edgefield County									
Edgefield	08	1728EST			0	0	0	0	Hail (0.75)
									Sheriff reported 3/4 inch hail in west Edgefield.
Aiken County									
Aiken	08	1745EST			0	0	0	0	Hail (0.75)
									Sheriff reported dime size hail in Aiken.
Barnwell County									
6 S Barnwell	08	1755EST			0	0		0	Thunderstorm Wind (G50)
									Highway Patrol reported trees down along highway 278.
Barnwell County									
11 SE Barnwell	08	1833EST			0	0	1K		Hail (1.00)
									Spotter and damage survey confirmed hail damage to pickup truck.
Barnwell County									
11 SE Barnwell to 11.1 SE Barnwell	08	1836EST 1837EST	0.5	50	0	0	1K	0	Tornado (F0)
									Spotter and damage survey confirmed an F0 tornado took down trees and powerlines.
Bamberg County									
Olar	08	1915EST			0	0		0	Thunderstorm Wind (G50)
									Highway Patrol reported trees down along highway 321.
Aiken County									
Jackson	15	1648EST			0	0	0	0	Thunderstorm Wind (G50)
									Police reported several large tree branches down.
Aiken County									
Jackson	15	1650EST			0	0	0	0	Hail (0.75)
									Police reported dime size hail.
Barnwell County									
6.5 SSW Williston to 7 S Williston	15	1706EST 1709EST	2	100	0	0	3K	0	Tornado (F1)
									KC4JMV and damage survey confirmed an F1 tornado took down numerous trees and powerlines along a 2 mile path. Minor damage was also done to a home.
Bamberg County									
Midway	15	1733EST 1734EST	0.1	35	0	0	0.50K	0	Tornado (F0)
									Damage survey confirmed an F0 tornado took down some trees and powerlines.

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	
<u>SOUTH CAROLINA, Central</u>									
Barnwell County									
Hilda	15	1720EST 1721EST	0.3	75	0	0	3K	0	Tornado (F0)
An F0 touched down on the east side of Hilda and damaged a small farm. One shed was destroyed, some equipment, and a few trees were down.									
Bamberg County									
Ehrhardt	24	1507EST			0	0		0	Thunderstorm Wind (G50)
Edisto Electric Coop reported trees and powerlines down.									
Newberry County									
1 E Chappells to 1 ESE Chappells	24	1534EST 1537EST			0	0			Hail (1.75)
A supercell spread golfball size hail over southwest Newberry county.									
Newberry County									
1 E Chappells to 1 ESE Chappells	24	1537EST 1539EST	0.7	50	0	0	0	0	Tornado (F0)
Storm survey confirmed an F0 touched down and took some trees down.									
Saluda County									
16 NNW Saluda to Ridge Spg	24	1537EST 1620EST			0	2	2M	2M	Hail (2.75)
A supercell storm moved se through Saluda county and produced hail to baseball size along its entire path. Damage was done to homes, buildings, farm equipment, vehicles, and crops. The damage path was about three miles wide. Two people were injured by the hail when they were caught outside in the middle of plowing their fields.									
Saluda County									
13 NNW Saluda to 6 N Saluda	24	1539EST 1546EST	9	100	0	0		0	Tornado (F0)
An F0 tornado intermittently touched down in wooded areas and fields, narrowly missing some homes. Damage was limited to trees down.									
Aiken County									
Monetta to 10 SW Salley	24	1620EST 1705EST			0	0			Hail (2.50)
A supercell storm moved southeast through Aiken county and produced hail to tennis ball size. Damage was done to homes, buildings, vehicles, and crops.									
Lexington County									
7.5 SE Batesburg	24	1625EST			0	0	0		Hail (0.88)
Sheriff reported nickel size hail at I20 and hwy 178.									
Aiken County									
5 S Monetta	24	1630EST 1635EST			0	0	0	0	Thunderstorm Wind (G50)
NWS Survey found scattered trees down along highway 39.									
Aiken County									
19 NE Aiken	24	1700EST			0	0	0	0	Thunderstorm Wind (G50)
Sheriff reported trees down at hwys 39/391.									
Aiken County									
Kitchings Mill	24	1705EST			0	0	0	0	Thunderstorm Wind (G50)
Sheriff reported a few trees down.									
Barnwell County									
4 NNE Williston to 9 SSE Hilda	24	1705EST 1735EST			0	0			Hail (1.75)
County EOC reported golf ball size hail along path of supercell.									
Bamberg County									
Olar	24	1735EST 1740EST			0	0			Hail (1.75)
Police reported golf ball size hail covering ground.									
Lexington County									
Batesburg	27	1120EST			0	0	0		Hail (0.75)
Police reported dime size hail.									
Richland County									
Columbia	27	1252EST 1257EST			0	0			Hail (1.00)
SKYWARN spotter reported quarter size hail over southeast Columbia.									

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	
<u>SOUTH CAROLINA, Central</u>									
Clarendon County									
1 NE Alcolu	27	1300EST			0	0	0		Hail (0.75)
Post Office reported dime size hail at I95 and hwy 49.									
Richland County									
Eastover	27	1315EST			0	0			Hail (1.75)
Radio station reported golf ball size hail.									
Richland County									
5 W Mc Entire Ang	27	1315EST			0	0			Hail (1.75)
County EOC reported golf ball size hail.									
Sumter County									
5 S Sumter	27	1415EST			0	0	0		Hail (0.75)
County EPD director reported 3/4 inch hail south of Sumter on hwy 521.									
Calhoun County									
Lone Star	27	1420EST			0	0			Hail (0.88)
Spotter and couple of farmers reported nickel size hail in and around Lone Star.									
Orangeburg County									
7 E Bowman	27	1420EST			0	0	0		Hail (0.75)
Post Office reported dime size hail at I26/I95.									
Richland County									
Ft Jackson	27	1905EST			0	0	0	0	Hail (0.75)
Ft. Jackson officials reported dime size hail.									
Sumter County									
Dalzell	27	1930EST			0	0			Hail (0.88)
Sheriff reported nickel size hail.									
Richland County									
Columbia	27	1750EST			0	3	0	0	Lightning
Three people were hit by lightning at River Banks Zoo. The victims were taken to nearby hospitals and released the next day.									
<u>SOUTH CAROLINA, North Coastal</u>									
Florence County									
Effingham	01	1625EST	0.1	15	0	0	6K		Tornado (F0)
Six people witnessed a small funnel cloud descending, moving a double-wide manufactured home off its foundation and damaging a tobacco barn at the corner of Hyman Rd and Friendfield Rd.									
Williamsburg County									
2 W Kingstree to 1 W Kingstree	27	1340EST 1345EST			0	0			Hail (1.00)
Public report of golfball size hail along SC527 west of Kingstree.									
Georgetown County									
Plantersville	27	1400EST 1405EST			0	0			Hail (1.00)
Sheriff reported hail and wind gusts over 60 mph causing a power outage in the area.									
Williamsburg County									
2 W Indiantown to Henry	27	1437EST 1450EST			0	0			Hail (1.75)
An east-moving thunderstorm dropped hail ranging from quarter to golfball size along SC512.									
Horry County									
Conway to 2 N Conway	27	1510EST 1525EST			0	0			Hail (0.75)
Georgetown County									
Andrews	27	1555EST 1600EST			0	0			Hail (1.75)
Sheriff reported hail up to golfball size.									
Georgetown County									
Georgetown	27	1730EST 1735EST			0	0			Hail (1.00)
<u>SOUTH CAROLINA, Northwest</u>									
Oconee County									
Seneca	08	1530EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

April 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, Northwest									
Anderson County									
6 W Pelzer	08	1545EST			0	0			Thunderstorm Wind (G50)
Anderson County									
West Pelzer	08	1550EST			0	1			Thunderstorm Wind (G50)
Abbeville County									
Lowndesville	08	1625EST			0	0			Hail (2.50)
Abbeville County									
Lowndesville	08	1625EST			0	0	50K		Thunderstorm Wind (G50)
Abbeville County									
3 W Abbeville	08	1630EST			0	0			Hail (1.75)
Abbeville County									
Lowndesville	08	1645EST			0	0			Hail (1.75)
Anderson County									
Sandy Spgs	08	1654EST			0	0			Hail (1.75)
Greenwood County									
(Grd)Greenwood Co Ar	08	1800EST			0	0			Hail (0.75)
Greenwood County									
2 E Coronaco	08	1821EST			0	0			Hail (0.75)
<p>A warm front moving north across the Upstate brought a more humid and unstable airmass into the region and provided the focus for strong to severe thunderstorms during the late afternoon and into the early evening. A couple of the storms exhibited supercell characteristics and produced a considerable amount of large hail, ranging in size between golf balls and tennis balls. A dispatcher drove through one of the severe storms just west of Abbeville and had her car damaged by golf ball size hail. Damaging straight line winds were also reported which blew down trees and power lines near Seneca. A mobile home was blown over in West Pelzer and caused a woman to sustain broken ribs and an injured back. Windows were blown out of mobile homes, a steeple blown off a church and trees and power lines downed near Lowndesville.</p>									
Greenville County									
Simpsonville	24	1422EST 1426EST			0	0			Hail (0.75)
Greenville County									
Fountain Inn	24	1428EST			0	0			Hail (0.88)
Laurens County									
Gray Court	24	1444EST			0	0			Hail (0.75)
Laurens County									
1 W Laurens	24	1506EST			0	0			Funnel Cloud
Laurens County									
1 W Laurens	24	1506EST			0	0	50K		Hail (1.75)
Laurens County									
Mountville	24	1528EST			0	0			Hail (2.25)
Laurens County									
Mountville	24	1528EST			0	0	250K		Thunderstorm Wind (G50)
Laurens County									
3 N Cross Hill to 4 SE Cross Hill	24	1530EST			0	0			Thunderstorm Wind (G50)
<p>Strong to severe thunderstorms developed just ahead of a cold front moving south through the Upstate during the afternoon. One particular storm became very severe in the southern part of Greenville county, then moved into Laurens county and caused a considerable amount of damage. Dime size hail was produced near Fountain Inn and Simpsonville, but by the time the storm reached Mountville hail nearly the size of tennis balls was falling. A funnel cloud was spotted near the intersection of US Highway 76 and State Route 252, just west of Laurens. Widespread damage caused by both very large hail and straight line winds then occurred in the Mountville and Cross Hill vicinities, where windows were broken, street lights smashed, vehicles damaged, roofs destroyed and trees downed across roads.</p>									
Pickens County									
Dacusville	27	1710EST			0	0			Thunderstorm Wind (G52)
Pickens County									
1 N Easley	27	1710EST			0	0			Thunderstorm Wind (G50)
Greenville County									
2 S Greenville	27	1728EST			0	0			Thunderstorm Wind (G50)

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	
<u>SOUTH CAROLINA, Northwest</u>									
Greenville County									
5 NW Tigerville	27	1733EST			0	0			Thunderstorm Wind (G50)
Greenville County									
1 N Greer to Gowensville	27	1742EST			0	0			Thunderstorm Wind (G50)
Spartanburg County									
Spartanburg	27	1755EST 1815EST			0	0			Thunderstorm Wind (G50)
Laurens County									
Cross Hill	27	1840EST			0	0			Thunderstorm Wind (G50)
Cherokee County									
Gaffney	27	1852EST			0	0			Hail (0.75)
Union County									
Lockhart	27	1910EST			0	0			Hail (1.75)
Chester County									
Chester	27	1930EST			0	0			Thunderstorm Wind (G50)
Chester County									
Chester	27	1955EST			0	0			Hail (1.50)
Scattered thunderstorms developed in a warm, unstable airmass during the evening. Several storms became severe and produced damaging wind gusts and large hail. One small line of storms produced damaging winds from Pickens county across central and northern Greenville county and into the Spartanburg area. There was a public report of a 60 mph gust near Dacusville, a few trees were downed near Easley - one falling on a car, several trees were downed across Greenville county, and trees and power lines were downed around the city of Spartanburg. One tree fell on a moving car travelling on Reidville Road. Hail ranging in size from dimes to golf balls fell from Gaffney and Lockhart to Chester. Trees and power lines were also downed in the city of Chester.									
<u>SOUTH CAROLINA, South Coastal</u>									
Allendale County									
2 W Allendale to 2 E Ulmers	08	1847EST 1912EST	9	50	0	0	25K		Tornado (F1)
Roof damage to several buildings, numerous trees and powerlines down.									
Allendale County									
2 SW Sycamore	08	1915EST 1917EST			0	0			Hail (0.75)
Hampton County									
.5 E Brunson	08	1925EST 1928EST			0	0			Thunderstorm Wind (G50)
Trees down.									
Hampton County									
Crocketville	08	1925EST 1930EST			0	0			Hail (0.75)
Charleston County									
Adams Run	08	2035EST			0	0			Thunderstorm Wind (G50)
Several trees down.									
Allendale County									
1 NW Ulmers to 1.7 NE Ulmers	15	1058EST 1103EST	3	150	0	0	2K	20K	Tornado (F2)
An F2 tornado destroyed 20 acres of watermelons and rolled over a large tractor several times. Numerous trees and powerlines were down along the track.									
Hampton County									
2 W Garnett	15	1500EST			0	0			Thunderstorm Wind (G50)
Several large tree limbs down.									
Jasper County									
Grays	15	1520EST			0	0			Thunderstorm Wind (G50)
Mobile home damaged.									
Beaufort County									
Yemassee	15	1540EST 1545EST			0	0			Hail (1.00)

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	
<u>SOUTH CAROLINA, South Coastal</u>									
Colleton County									
1 W Ritter to 2 S Ritter	15	1600EST 1610EST	2	80	0	0	10K		Tornado (F1)
									Roof damage occurred to a house and several outdoor buildings, along with several trees uprooted or snapped off 15 to 20 feet above the ground.
Charleston County									
Parkers Ferry	15	1620EST			0	0			Thunderstorm Wind (G50)
									Several trees down.
Jasper County									
Coosawhatchie	15	1625EST 1630EST			0	0			Hail (1.75)
Beaufort County									
2 S Yemassee	15	1650EST			0	0			Thunderstorm Wind (G50)
									Five trees down along 1/8 stretch of highway 33.
Dorchester County									
2 SSE Harleyville	15	1830EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Colleton County									
1 W Williams	24	1510EST 1515EST			0	0			Hail (1.75)
Colleton County									
Islandton	24	1530EST 1534EST			0	0			Hail (1.00)
Colleton County									
Islandton	24	1615EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Beaufort County									
2 E Beaufort	24	1635EST			0	0			Thunderstorm Wind (G50)
									Large tree limbs down.
Allendale County									
3 W Allendale	24	1750EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Hampton County									
Hampton	24	1806EST 1810EST			0	0			Hail (1.75)
Hampton County									
Hampton	24	1810EST 1815EST			0	0			Hail (1.75)
Hampton County									
5 E Hampton to 10 E Hampton	24	1816EST 1820EST			0	0			Hail (1.00)
Beaufort County									
Hilton Head Is	24	1925EST 1930EST			0	0			Hail (1.00)
Beaufort County									
Hilton Head Is	24	1935EST 1939EST			0	0			Hail (1.75)
Dorchester County									
Ridgeville	27	1606EST 1610EST			0	0			Hail (0.75)
Dorchester County									
Harleyville	27	1615EST 1620EST			0	0			Hail (0.75)
Berkeley County									
6 W Goose Creek	27	1710EST 1714EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

April 1999

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

Berkeley County

Shulerville	27	1716EST 1720EST			0	0			Hail (1.25)
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Hail covered the ground for nearly two hours.

Berkeley County

1 S Huger to 1 SE Huger	28	0020EST 0026EST	3	100	0	0	50K		Tornado (F1)
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One home had a large portion of the center of the roof removed, much of the stucco brick peeled off the north wall, and several windows blown out. Damage estimate was near 30 thousand dollars. Another house had minor damage with the tin roof damaged and the back door blown out. Damage estimate was near 20 thousand dollars. Also, there were several large trees uprooted or twisted off along the three mile path.

SOUTH DAKOTA, Central and North

SDZ003-015

Corson - Dewey

01	0900CST 1300CST				0	0			Blizzard
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Two to seven inches of snow combined with strong north winds generated blizzard conditions during the morning and early afternoon hours across western Corson and western Dewey counties. Some schools were closed early as many roads became difficult to travel. Some snowfall amounts included, 2 inches at Eagle Butte, 4 inches at Isabel, and 7 inches at McIntosh.

SDZ006-018

Brown - Spink

01 30	0600CST 2359CST				0	0			Flood
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The James River went above flood stage at Columbia and Stratford in early April and remained above flood stage into May. One mile south of Columbia where flood stage is 13 feet, the James River rose to 15.8 feet on April 11. Eight miles southwest of Stratford where flood stage is 14 feet, the James River rose to 16.3 feet on April 28th. The river flooding mainly affected agricultural land.

Day County

5 SW Webster	07	0315CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds gusting to near 60 mph blew five foot of the roof off of a house, downed many tree branches, and also blew in the barn doors.

SOUTH DAKOTA, Southeast

NONE REPORTED.

SOUTH DAKOTA, West

SDZ001>002-012>014-024>025-028 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Black Hills**

01	0000MST 1600MST				0	0	5K		Winter Storm
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A strong low pressure system moved over the Rocky Mountains onto the Central Plains. The associated cold front brought 6 to 12 inches of snow to portions of the Black Hills as well as areas in northwestern South Dakota. Some people near Sturgis were without power for three hours after power lines snapped from the the ice and gusty winds.

SDZ001>002-025

Harding - Perkins - Northern Foot Hills

02 03	2200MST 1200MST				0	0			Winter Storm
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A storm that developed in Colorado moved out over the Central Plains and brought 6 to 8 inches of snow to areas in northwestern South Dakota.

SDZ024

Northern Black Hills

09 10	2200MST 1200MST				0	0			Winter Storm
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A winter storm moving across the central plains created an upslope snowfall event for the Northern Black Hills. Snowfall amounts were generally 6 to 10 inches with 11 inches reported at Lead.

TENNESSEE, Central

Decatur County

Countywide	03	2217CST 2218CST			0	0			Thunderstorm Wind (G50)
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Several reports of trees down across county.

Benton County

South Portion	03	2224CST 2225CST			0	0			Thunderstorm Wind (G50)
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Sheriff's office reported trees and power lines down along Highway 69.

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	
TENNESSEE, Central									
Davidson County									
Northeast Portion	05	2310CST			0	0			Thunderstorm Wind (G50)
		EMA reported power lines were down.							
Sumner County									
Hendersonville	05	2315CST			0	0			Hail (0.75)
		SKYWARN Spotter reported dime size hail.							
Sumner County									
Gallatin	05	2327CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
Sumner County									
Gallatin	05	2327CST			0	0			Thunderstorm Wind (G52)
		Spotter reported 60 mph wind gust in thunderstorm.							
Sumner County									
1 S Portland	19	1733CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
Sumner County									
1 S Gallatin	19	1745CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
Sumner County									
2 E Gallatin	19	1750CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
Smith County									
Elmwood	19	1833CST			0	0			Hail (0.88)
		Spotter reported nickel size hail.							
Smith County									
Chestnut Mound	19	1943CST			0	0			Hail (0.88)
		Spotter reported nickel size hail.							
Trousdale County									
2.5 N Hartsville	19	2005CST			0	0			Hail (1.75)
		Newspaper account of golf ball size hail.							
Putnam County									
Cookeville	19	2014CST			0	0			Hail (1.00)
		Spotter reported nickel to quarter size hail just west of Cookeville.							
Putnam County									
Cookeville	19	2014CST			0	0			Hail (0.88)
		Spotter reported nickel size hail.							
Putnam County									
Algood	19	2018CST			0	0			Hail (1.75)
		Spotter reported golf ball size hail.							
Putnam County									
4 E Cookeville	19	2021CST			0	0			Hail (1.75)
		Spotter reported golf ball size hail at Buck Mountain.							
Putnam County									
Monterey	19	2025CST			0	0			Hail (1.75)
		Spotter reported golf ball size hail.							
Cheatham County									
Henrietta	19	2117CST			0	0			Hail (1.50)
		Spotter reported walnut size hail.							
Davidson County									
7 NW Nashville	19	2142CST			0	0			Hail (2.75)
		Spotter reported baseball size hail at Whites Creek Pike.							
Davidson County									
Donelson	19	2155CST			0	0			Hail (1.75)
		Spotter reported golf ball size hail near Opryland on Briley Parkway.							
Davidson County									
Hermitage	19	2205CST			0	0			Hail (0.75)
		Public reported dime size hail in north Hermitage.							

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	
<u>TENNESSEE, Central</u>									
Davidson County									
Madison	19	2215CST			0	0			Hail (1.00)
		Spotter reported quarter size hail.							
Putnam County									
Silver Pt	19	2235CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
Van Buren County									
Spencer	19	2300CST			0	0			Hail (0.75)
		Spotter reported dime size hail.							
<u>TENNESSEE, East</u>									
Polk County									
Delano	08	0910EST			0	0			Hail (0.75)
Mcminn County									
Etowah	08	0905EST			0	0			Hail (0.75)
Claiborne County									
Clairfield	11	0220EST			0	0			Hail (0.88)
Sequatchie County									
Dunlap	20	0100EST			0	0			Hail (0.75)
Sevier County									
Sevierville	23	2000EST			0	0			Hail (0.75)
Knox County									
Knoxville	23	1945EST			0	0			Hail (0.75)
Sevier County									
Sevierville	23	2020EST			0	0	7K		Thunderstorm Wind
		Trees down on Boyds Creek Road off Highway 66.							
Jefferson County									
New Market	23	1945EST			0	0			Hail (0.75)
Union County									
Luttrell	23	1930EST			0	0			Hail (1.75)
<u>TENNESSEE, West</u>									
Shelby County									
Memphis	05	1500CST 1505CST			0	0	10K		Tstm Wind/Hail
		A large tree already water logged was knocked down by winds of 25 mph. The tree fell on a car and blocked traffic.							
Lake County									
Tiptonville	05	1615CST 1620CST			0	0	5K		Thunderstorm Wind
		A few trees were blown down. One of the trees fell on a pickup truck.							
Obion County									
Union City	05	1725CST 1730CST			0	0	0.01K		Hail (0.75)
Haywood County									
Brownsville	05	2045CST 2050CST			0	0	50K		Lightning
		A home was destroyed by a fire started by lightning.							
Tipton County									
Garland	03	1855CST 1900CST			0	0	0.05K		Hail (0.88)
Tipton County									
Rialto	03	1855CST 1900CST			0	0	10K		Thunderstorm Wind
		At least a dozen power poles were knocked down.							
Lauderdale County									
Ripley	03	1900CST 1905CST			0	0	25K		Thunderstorm Wind
		A couple of homes were damaged. A few trees and power poles were blown down as well.							

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	
TENNESSEE, West									
Shelby County									
Memphis	03	1905CST 1910CST			0	0	0.75K		Hail (1.75)
Shelby County									
Memphis	03	1907CST 2100CST			0	0	1K		Urban/Sml Stream Fld
A couple of intersections were flooded.									
Shelby County									
Memphis	03	1911CST 1920CST			0	0	1K		Thunderstorm Wind (G53)
One house was damaged.									
Shelby County									
Memphis	03	1918CST 1920CST			0	0	1K		Lightning
One house was damaged by a lightning strike.									
Hardeman County									
Middleton	03	1950CST 1955CST			0	0	25K		Thunderstorm Wind
Several homes and businesses were damaged. Some trees were knocked down.									
Madison County									
Bemis	03	2010CST 2025CST			0	0	750K		Thunderstorm Wind
A Walmart lost part of its roof. One trailer was overturned. At least 50 other homes and buildings were damaged.									
Dyer County									
Dyersburg Muni Arpt	03	2015CST 2020CST			0	0	0		Thunderstorm Wind (G59)
A 65 mph wind was measured at the Dyersburg airport.									
Mcnairy County									
Ramer	03	2030CST 2035CST			0	0	5K		Thunderstorm Wind
A few power lines were knocked down.									
Mcnairy County									
Ramer	03	2035CST 2040CST			0	0	0.05K		Hail (0.88)
Mcnairy County									
Selmer	03	2047CST 2055CST			0	0	10K		Thunderstorm Wind
Several large trees and large signs were blown down.									
Hardin County									
Pickwick Dam	03	2100CST 2105CST			0	0	5K		Thunderstorm Wind
Some trees and street lights were knocked down.									
Henderson County									
Middle Fork	03	2100CST 2105CST			0	0	5K		Thunderstorm Wind
A few large trees were blown down.									
Weakley County									
Martin to Mt Pelia	10	1800CST 1810CST			0	0	0.25K		Hail (1.50)
Hail ranged in size from quarters in Martin to walnuts in Mt. Pelia.									
Weakley County									
Martin to Mt Pelia	10	1800CST 1810CST			0	0	50K		Thunderstorm Wind
A home was destroyed in Martin. Several trees were knocked down between Martin and Mt. Pelia.									
TN2003>004-020>021-050>052-054									
	14	2100CST			1	0	170K		High Wind
	15	0200CST							
Several counties in West Tennessee were affected by high winds behind a line of thunderstorms. The winds were not associated with the thunderstorms. Numerous trees were knocked down across the area. One tree fell on a mobile home in Alamo in Crockett									

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	

TENNESSEE, West

county killing one of the occupants. A marina on Kentucky Lake in Henry county was affected with at least 30 boats damaged. F30MH

Henry County

Paris	08	2000CST			0	0	25K		Thunderstorm Wind
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A large building under construction was knocked down. Half the roof of one of the grandstands at the Henry County Fairgrounds were peeled back.

TEXAS, Central

Fisher County

9 SW Roby	02	2315CST			0	0			Hail (0.88)
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Menard County

5 N Ft Mckavett	03	0415CST			0	0			Hail (0.75)
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Menard County

6 N Menard	03	0530CST			0	0			Hail (0.75)
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Mitchell County

2 SW Colorado City	13	1835CST			0	0			Hail (1.75)
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Mitchell County

Loraine	13	1900CST			0	0			Hail (1.75)
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Mitchell County

Colorado City	13	1905CST			0	0			Hail (1.75)
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Nolan County

Roscoe	13	1920CST			0	0			Hail (2.00)
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Tennis ball size hail.

Fisher County

1 W Rotan	13	1930CST	0.1	10	0	0			Tornado (F0)
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Brief tornado touchdown.

Nolan County

Sweetwater	13	1930CST			0	0			Hail (2.75)
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Baseball size hail.

Fisher County

Sylvester	13	1935CST			0	0			Hail (1.00)
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Mitchell County

Colorado City	13	1955CST			0	0			Hail (1.75)
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The Mitchell County Sheriffs office had windows broken out of their office by hail up to the size of golf balls.

Jones County

Hawley	13	2020CST			0	0			Hail (1.75)
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Nolan County

Sweetwater	13	2030CST			0	0			Hail (1.00)
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Nolan County

Sweetwater	13	2030CST			0	0			Thunderstorm Wind (G61)
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Wind gusts estimated at 70 mph.

Nolan County

12 E Sweetwater	13	2054CST			0	0			Hail (1.00)
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Coke County

Bronte	13	2105CST			0	0			Hail (0.75)
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Coke County

4 SW Robert Lee	13	2105CST			0	0			Hail (1.00)
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Coke County

12 S Robert Lee	13	2115CST			0	0			Hail (1.75)
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Taylor County

Trent	13	2115CST			0	0			Hail (1.00)
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Tom Green County

14 N San Angelo	13	2115CST			0	0			Hail (1.75)
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Jones County

8 N Abilene	13	2125CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Coke County									
12 S Robert Lee	13	2130CST			0	0			Hail (1.75)
Tom Green County									
14 N San Angelo	13	2130CST			0	0			Hail (1.75)
Tom Green County									
5 SW San Angelo	13	2135CST			0	0			Hail (0.75)
Throckmorton County									
Throckmorton	13	2151CST			0	0			Hail (2.00)
Tennis ball size hail.									
Runnels County									
Winters	13	2200CST			0	0	1.5K		Thunderstorm Wind
High winds toppled several large trees and downed power lines.									
Brown County									
Brownwood									
	13	2330CST			0	0			Hail (0.75)
Severe thunderstorms that first developed across the Permian Basin moved into the western sections of the Big Country by early evening. One storm tracked along Interstate-20, dropping golf ball to baseball size hail from Colorado City to Sweetwater. Other severe storms then quickly developed across the remainder of the Big Country and the northern Concho Valley. Hail up to the size of tennis balls was reported in Throckmorton, with wind damage reported in Winters.									
Irion County									
7 E Barnhart	25	1815CST			0	0			Hail (1.75)
Irion County									
Mertzon	26	0145CST			0	0			Hail (0.75)
Tom Green County									
Central Portion									
	26	0155CST 0400CST			0	0			Flash Flood
Low water crossings flooded and impassable.									
Crockett County									
Ozona	26	0205CST			0	0			Hail (1.75)
Crockett County									
Ozona									
	26	0205CST			0	0	5K		Thunderstorm Wind
High winds pulled a metal roof off of a mobile home in Ozona. Several signs around town were also damaged or destroyed.									
Crockett County									
Countywide									
	26	0300CST 0500CST			0	0			Flash Flood
Many low water crossings across Crockett County reported flooded and impassable. A low water crossing along Johnston Draw in Ozona was covered by 10 feet of flood waters.									
Runnels County									
Ballinger									
	26	0300CST 0500CST			0	0			Flash Flood
Several city streets in Ballinger were flooded and impassable.									
Irion County									
Southeast Portion									
	26	0330CST 0530CST			0	0			Flash Flood
Highway 915 south of Mertzon was closed due to flooding. One motorist had to be rescued when their car stalled in swiftly flowing flood waters.									
Coleman County									
Coleman									
	26	0345CST 0545CST			0	0			Flash Flood
Low water crossings were reported flooded across the city. Two cars were stalled as minor street flooding was also reported.									
Sutton County									
Countywide									
	26	0415CST 0615CST			0	0			Flash Flood
Several roads had to be closed when flood waters covered low water crossings.									
Brown County									
Brownwood									
	26	0500CST 0700CST			0	0			Flash Flood
A street intersection in the city of Brownwood became flooded and impassable.									

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	

TEXAS, Central

Severe thunderstorms that produced hail up to the size of golf balls at Ozona quickly turned into torrential rain producers across the Concho Valley, Northern Edwards Plateau, and the Heartland. Low water crossings and other low lying city streets were closed as swiftly flowing waters covered the roadways. At least one motorist had to be rescued when her car stalled in a low water crossing and was swept downstream.

TEXAS, Central Southeast

Walker County

New Waverly 03 1525CST 0 0 15K Hail (1.00)

Walker County

4 N New Waverly 03 1542CST 0.3 25 0 0 25K Tornado (F0)
Tornado 4 miles north of New Waverly. Trees down along US 75 and the highway was closed.

San Jacinto County

Pointblank 03 1615CST 0 0 25K Thunderstorm Wind
Trees down

Montgomery County

Willis 03 1617CST 0 0 10K Hail (0.75)

Montgomery County

Willis 03 1617CST 0.3 25 0 0 30K Tornado (F0)
Tornado near Willis. Trees down in area and mobile home damaged in Walnut Creek subdivision.

Polk County

Corrigan 03 1641CST 0 0 10K Hail (0.75)

Polk County

Countywide 03 1734CST 0 0 150K Flash Flood
04 0230CST

Significant flooding throughout the county. People evacuated from neighborhood around Choates Creek in Livingston. Water up to 3 feet high reported in some homes along 1st and 2nd Streets and McCardell Lane in Livingston. Pickup truck flipped over in same area. Several feet of water reported on US 59. Rain total of 8.45" in less than 4 hours at Lake Livingston Dam.

San Jacinto County

Countywide 03 1734CST 0 0 100K Flash Flood
04 0230CST

Significant flooding throughout the county including in the Shepherd area at Red Road, and in the Drews Landing, Regency Forest, Sherwood Forest and Cherry Creek areas. Rainfall totals include 8.5" at Camilla, 6.5" at Shepherd, 3.6" at Pointblank, and 3.5" at Evergreen. Some roads washed out in the county.

Montgomery County

Conroe 14 0745CST 0.3 50 0 0 250K Tornado (F0)
Tornado along US 75 (Frazier Street) near the intersection of SH 336 in Conroe. Most damage confined to 4 businesses in the Wood Creek shopping center.

Montgomery County

Conroe 14 0810CST 0 0 50K Thunderstorm Wind
Roof damage to auto/truck repair shop along SH 336 just west of I-45 and north of Loop 105 in Conroe.

Brazos County

Bryan 26 0855CST 0 0 12K Hail (0.88)

Brazos County

Bryan 26 0855CST 0 0 15K Thunderstorm Wind
Trees down along FM 1179 near Carter Rd., Old Reliance Rd., Carrabba Rd., and Grassbur Rd.

Brazos County

College Station 26 0855CST 0 0 10K Hail (0.75)
Hail also reported at Wixon Valley

Burleson County

12 SW Somerville 26 0920CST 0 0 25K Hail (1.75)

Washington County

Brenham 26 0920CST 0 0 12K Hail (0.75)

TEXAS, Extreme West

NONE REPORTED.

TEXAS, Mid - South

Goliad County

Goliad 26 2315CST 0 0 Flash Flood
Sheriff reports of numerous roads covered by water throughout the city.

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	
TEXAS, Mid - South									
Bee County									
Beeville	26	2335CST			0	0			Flash Flood
Sheriff report of water covering portions of U.S. highway 181, as well as surrounding county roadways.									
TEXAS, North									
Tarrant County									
Watauga	03	0440CST			0	0			Hail (0.75)
Collin County									
Celina	03	0511CST			0	0			Hail (1.00)
Denton County									
Corinth	03	0520CST			0	0			Hail (0.75)
Denton County									
Sanger	03	0520CST			0	0			Thunderstorm Wind (G57)
Denton County									
Little Elm	03	0535CST			0	0			Hail (0.75)
Fannin County									
5 N Bonham	03	0538CST			0	0			Thunderstorm Wind (G61)
Fannin County Emergency Manager reported 65 to 75 mph winds associated with thunderstorms.									
Denton County									
Pilot Pt	03	0540CST			0	0			Hail (0.75)
Grayson County									
Van Alstyne	03	0550CST			0	0			Thunderstorm Wind (G56)
A trained spotter reported 60 to 70 mph winds associated with thunderstorms.									
Grayson County									
Van Alstyne	03	0557CST			0	0			Hail (0.75)
Mills County									
Goldthwaite	03	0609CST			0	0			Hail (0.75)
Hamilton County									
Hamilton	03	0702CST			0	0			Hail (1.75)
Parker County									
Weatherford	03	0730CST			0	0	0.50K		Thunderstorm Wind
Falling trees and limbs brought down power lines during a severe thunderstorm.									
Tarrant County									
Ft Worth	03	0730CST			0	0			Hail (0.75)
Tarrant County									
Ft Worth	03	0745CST			0	0			Thunderstorm Wind (G52)
Erath County									
Dublin	03	0750CST			0	0			Hail (0.75)
Denton County									
Aubrey	03	0812CST			0	0			Hail (0.75)
Denton County									
4 E Denton	03	0840CST			0	0			Flash Flood
Thunderstorm rains brought six to eight inches of water over a bridge near Highway 720 and 380.									
Johnson County									
Alvarado	03	0927CST			0	0			Hail (0.75)
Ellis County									
Midlothian	03	0948CST			0	0			Hail (0.75)
Grayson County									
Denison	03	0957CST			0	0			Flash Flood
Thunderstorm rains brought water over a bridge at Airport Road. Numerous road closings were reported around the county.									
Ellis County									
Waxahachie	03	0958CST			0	0			Hail (0.75)
Milam County									
8 NE Cameron	04	1215CST			0	0			Hail (0.88)
Mclennan County									
Lacy Lakeview	04	1229CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Falls County									
3 N Rosebud	04	1240CST			0	0			Hail (0.75)
Mclennan County									
5 N Waco	04	1240CST			0	0			Hail (1.00)
Robertson County									
1 S Bremond	04	1252CST			0	0			Hail (1.75)
Limestone County									
Kosse	04	1320CST			0	0			Hail (0.88)
Falls County									
Marlin	04	1330CST			0	0			Hail (0.75)
Limestone County									
1 N Kosse	04	1345CST			0	0			Hail (0.88)
Limestone County									
Thornton	04	1405CST			0	0			Hail (1.75)
Limestone County									
Grosbeck	04	1410CST			0	0			Flash Flood
			Flash flooding was reported in Grosbeck.						
Tarrant County									
Arlington	04	1430CST			0	0			Hail (0.75)
Tarrant County									
Eules	04	1450CST			0	0			Hail (0.75)
Freestone County									
Cotton Gin	04	1452CST			0	0			Hail (0.75)
Leon County									
12 E Centerville	04	1500CST			0	0			Hail (0.75)
Hopkins County									
Sulphur Bluff	04	1505CST			0	0			Hail (1.75)
Anderson County									
Palestine	04	1515CST			0	0			Hail (1.00)
Delta County									
Kensing	04	1515CST			0	0			Hail (1.75)
Denton County									
Aubrey	04	1515CST			0	0			Hail (1.75)
Lamar County									
Reno	04	1515CST			0	0			Hail (0.75)
Anderson County									
2 N Palestine	04	1530CST			0	0	0.50K		Thunderstorm Wind
			Thunderstorms blew down several trees.						
Lamar County									
Deport	04	1530CST			0	0			Hail (0.75)
Anderson County									
1 E Slocum	04	1625CST			0	0			Hail (1.25)
Mills County									
Mullin	05	0420CST			0	0			Hail (1.00)
Young County									
South Bend	13	2305CST			0	0	5K		Thunderstorm Wind
			Thunderstorm winds unroofed a barn and blew down power lines. A portable feeder weighing 16,000 pounds was blown into a ravine.						
Falls County									
Marlin	13	2323CST			0	0	2K		Thunderstorm Wind
			The facing was blown off the front of a store by thunderstorm winds.						
Comanche County									
Mercers Gap	13	2335CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North									
Palo Pinto County									
Possum Kingdom Lake	13	2350CST			0	0	10K		Thunderstorm Wind
A house was unroofed on the east side of the lake. Trees two feet in diameter were blown down by thunderstorm winds.									
Wise County									
2 S Decatur	14	0020CST			0	0	1K		Thunderstorm Wind
A large tree was blown down onto a fence.									
Grayson County									
3 S Collinsville	14	0330CST			0	0	25K		Thunderstorm Wind
A mobile home was blown over and destroyed by thunderstorm winds.									
Grayson County									
Pottsboro	14	0350CST			0	0			Hail (1.00)
Stephens County									
2 S Breckenridge	14	1115CST			0	0	5K		Thunderstorm Wind
An airport terminal was destroyed by high thunderstorm winds.									
Stephens County									
7 NE Breckenridge	14	1115CST			0	0	30K		Thunderstorm Wind
A shed was blown down and a travel trailer was destroyed by high thunderstorm winds. Several trees were blown down and two barns were destroyed.									
Eastland County									
Gorman	26	0410CST			0	0			Hail (1.00)
Mills County									
Goldthwaite	26	0430CST	0.1	.1	0	0	5K		Tornado (F0)
Large trees were uprooted and small buildings were destroyed by a brief tornado.									
Erath County									
Lingleville	26	0530CST			0	0			Thunderstorm Wind (G61)
Coryell County									
Gatesville	26	0612CST			0	0	0.10K		Thunderstorm Wind
Thunderstorm winds blew down several trees.									
Coryell County									
Turnersville	26	0612CST			0	0	3K		Thunderstorm Wind
Large trees were blown onto houses.									
Mclennan County									
Mc Gregor	26	0630CST			0	0	25K		Thunderstorm Wind (G69)
Trees were blown down and a fence was blown down. Trees also fell onto two houses.									
Tarrant County									
Arlington	26	0656CST			0	0	0.50K		Thunderstorm Wind
Trees and fences were blown down and a construction trailer was blown over by thunderstorm winds.									
Ellis County									
Red Oak	26	0700CST			0	0	5K		Thunderstorm Wind
A food mart was damaged by thunderstorm winds.									
Hill County									
3 S Hillsboro	26	0700CST			0	0	25K		Thunderstorm Wind
Thunderstorm winds damaged two barns, destroyed a carport, blew two trucks off the road, and caused damage to a house.									
Ellis County									
2 N Waxahachie	26	0715CST			0	0	15K		Thunderstorm Wind
A barn was destroyed and a house was damaged by thunderstorm winds.									
Ellis County									
Waxahachie	26	0715CST			0	0	100K		Thunderstorm Wind
A school cafeteria was destroyed by thunderstorm winds.									
Denton County									
Krum	26	0719CST			0	0	2K		Thunderstorm Wind
Several outbuildings were blown across the street. Railroad crossing barriers were broken off by the wind.									
Lamar County									
1 W Paris	26	0720CST			0	0	25K		Thunderstorm Wind
A mobile home was destroyed by thunderstorm winds.									

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
TEXAS, North							
Mclennan County							
Gholson	26	0720CST			0 0	0.10K	Thunderstorm Wind (G61) Thunderstorm winds blew down trees.
Dallas County							
Farmers Branch	26	0730CST			0 2	10K	Thunderstorm Wind A partially constructed roof collapsed due to thunderstorm winds.
Denton County							
5 NW Denton	26	0730CST			0 0		Thunderstorm Wind (G76)
Mclennan County							
Ross	26	0730CST			0 0	10K	Thunderstorm Wind (G61) A barn was destroyed and a travel trailer was blown over.
Ellis County							
Palmer	26	0732CST			0 0	30K	Thunderstorm Wind An eighteen wheeler was blown over by thunderstorm winds. Wind damage was reported at many homes. A mobile home was also destroyed.
Mclennan County							
Waco	26	0734CST			0 0	10K	Thunderstorm Wind Numerous buildings lost shingles and a garage collapsed due to thunderstorm winds. A fence was knocked down by a trampoline.
Navarro County							
Frost	26	0735CST			0 0	0.10K	Thunderstorm Wind Trees were blown down by thunderstorm winds.
Navarro County							
Rice	26	0735CST			0 0	3K	Thunderstorm Wind (G61) A trailer was unroofed by thunderstorm winds.
Dallas County							
Dallas	26	0736CST			0 0		Thunderstorm Wind (G52)
Dallas County							
Highland Park	26	0737CST			0 0		Thunderstorm Wind (G52)
Limestone County							
Mexia	26	0741CST			0 0		Thunderstorm Wind (G65) Power lines and large trees were blown down by thunderstorm winds.
Dallas County							
Dallas	26	0745CST			0 0		Flash Flood High water, from thunderstorm rains, was reported at Gaston and Garland Roads.
Dallas County							
2 E Dallas	26	0745CST			0 0	1K	Thunderstorm Wind Trees were uprooted, by thunderstorm winds, 2 miles east of downtown.
Dallas County							
Farmers Branch	26	0745CST			0 0	0.20K	Thunderstorm Wind Trees and power lines were downed by thunderstorm winds.
Mclennan County							
Waco Connally Arpt	26	0753CST			0 0		Thunderstorm Wind (G60) Wind gust recorded at airport.
Collin County							
Plano	26	0800CST			0 0	0.10K	Thunderstorm Wind Thunderstorm winds blew down several trees.
Dallas County							
Garland	26	0800CST			0 0	5K	Thunderstorm Wind Thunderstorms winds blew down several trees. A tree was blown onto the roof of a house and chimneys were blown off several roofs.
Dallas County							
Seagoville	26	0800CST			0 0	0.20K	Thunderstorm Wind Trees were blown down by thunderstorm winds.
Kaufman County							
Peeltown	26	0800CST			0 0	25K	Thunderstorm Wind A mobile home, in the southwest part of the county, was destroyed by thunderstorm winds.

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TEXAS, North									
Rockwall County									
Rockwall	26	0800CST			0	0	0.10K		Thunderstorm Wind
	Several trees were blown down by thunderstorm winds.								
Kaufman County									
Kaufman	26	0805CST			0	0	10K		Thunderstorm Wind
	Numerous trees were blown down in Kaufman and in the southwest part of the county. A tree fell onto a van and a carport was destroyed when a tree fell.								
Kaufman County									
Kaufman	26	0810CST			0	0	2K		Thunderstorm Wind
	Thunderstorm winds destroyed a maintenance building at the state hospital.								
Kaufman County									
Terrell	26	0810CST			0	0	10K		Thunderstorm Wind (G64)
	Numerous trees were blown down and a business was unroofed.								
Van Zandt County									
2 N Wills Pt	26	0815CST			0	0	5K		Thunderstorm Wind
	Two mobile homes were unroofed by thunderstorm winds.								
Anderson County									
Tennessee Colony	26	0820CST			0	0	0.10K		Thunderstorm Wind
	Numerous trees were blown down and an eighteen wheeler was blown off the road by thunderstorm winds.								
Denton County									
Denton	26	0820CST			0	0	0.10K		Thunderstorm Wind
	Trees were blown down by thunderstorm winds.								
Fannin County									
Leonard	26	0820CST			0	0	0.50K		Thunderstorm Wind
	Thunderstorms blew down several trees.								
Hunt County									
Caddo Mills	26	0820CST			0	0	2K		Thunderstorm Wind (G52)
	Thunderstorm winds blew the roof off a barn.								
Rains County									
Point	26	0825CST			0	0	1K		Thunderstorm Wind
	A large industrial building was unroofed by high thunderstorm winds.								
Anderson County									
Tennessee Colony	26	0835CST 0900CST	1	.1	0	1	30K		Tornado (F0)
	A tornado touched down three times on County Road 2202. Trees were blown down and a barn was destroyed. An eighteen wheeler was turned over and the driver was injured.								
Hunt County									
Greenville	26	0838CST			0	0	5K		Thunderstorm Wind
	Trees and power lines were blown down by thunderstorm winds. A church was also damaged.								
Anderson County									
5 W Palestine	26	0840CST	0.1	.1	0	0	5K		Tornado (F0)
	Numerous trees and outbuildings were destroyed by a brief tornado in Broyles Chapel.								
Delta County									
Charleston	26	0840CST			0	0	0.10K		Thunderstorm Wind
	Trees and power lines were knocked down by thunderstorm winds.								
Delta County									
Cooper	26	0840CST			0	0	0.10K		Thunderstorm Wind
	Trees were blown down by thunderstorm winds.								
Delta County									
Pecan Gap	26	0840CST			0	0	0.10K		Thunderstorm Wind
	Thunderstorm winds knocked trees and power lines down.								
Fannin County									
Bonham	26	0840CST			0	0			Thunderstorm Wind (G52)
	Trees were blown down and cars were blown off the road by thunderstorm winds.								
Henderson County									
Athens	26	0840CST			0	0	0.50K		Thunderstorm Wind
	A tree was blown through the window of a house.								

Storm Data and Unusual Weather Phenomena

April 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</u>									
Fannin County									
Trenton	26	0842CST	0.2	.1	0	0	40K		Tornado (F1) A house was destroyed by a brief tornado. No injuries were reported.
Fannin County									
Trenton	26	0845CST			0	0	20K		Thunderstorm Wind A mobile home was destroyed by high winds.
Van Zandt County									
Canton	26	0845CST			0	0	0.10K		Thunderstorm Wind Thunderstorm winds blew down trees.
Van Zandt County									
Primrose	26	0845CST			0	0	0.30K		Thunderstorm Wind Numerous trees were blown down across the southeast part of the county.
Lamar County									
3 N Paris	26	0850CST			0	0	0.20K		Thunderstorm Wind Trees and power lines were blown down by thunderstorm winds.
Fannin County									
Honey Grove	26	0905CST			0	0	2K		Thunderstorm Wind Two buildings were destroyed by high thunderstorm winds.
Hopkins County									
Weaver	26	0920CST			0	0	0.10K		Thunderstorm Wind Thunderstorms blew down several trees.
Lamar County									
Paris	26	0925CST			0	0	35K		Thunderstorm Wind Three houses were unroofed and a night club with a metal roof was unroofed by thunderstorm winds.
Rains County									
Point	26	0931CST	0.1	.1	0	0			Tornado (F0) A brief tornado touched down in point. No reports of damage or injuries was received.
<u>TEXAS, North Panhandle</u>									
Deaf Smith County									
17 NW Hereford	28	1615CST			0	0	5K		Thunderstorm Wind (G65) A developing low pressure system in the upper atmosphere over Nevada intensified over the Great Basin region during the night. One disturbance from this upper low interacted with the moisture over the panhandles to allow thunderstorms to develop. The severe thunderstorm over the southwestern Texas panhandle produced high winds which blew a metal house trailer about five feet and also lifted the roof off a well house.
Randall County									
6 SW Amarillo	29	0122CST			0	0	35K		Lightning A thunderstorm over southwest Amarillo shortly after midnight produced lightning which set a house on fire. There were no deaths or injuries reported. There was damage to the roof and smoke damage inside the house.
Ochiltree County									
Perryton	26	2005CST			0	0			Hail (0.88) An isolated severe thunderstorm developed over the northern Texas panhandle during the evening hours and produced some hail.
Moore County									
Dumas	04	2021CST			0	0			Hail (0.88)
Moore County									
Masterson	04	2100CST			0	0			Hail (0.75)
Moore County									
3 E Four Way	04	2110CST			0	0			Hail (0.75)
Hutchinson County									
Stinnett	04	2140CST			0	0			Hail (0.75)
Potter County									
1 N Bushland	04	2205CST			0	0			Hail (0.75)
Ochiltree County									
6 S Perryton	04	2239CST			0	0			Hail (1.00)
Ochiltree County									
10 SE Perryton	04	2253CST			0	0			Hail (1.00)

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 Damage	Crops	
TEXAS, North Panhandle									
Lipscomb County									
5 W Darrouzett	04	2315CST			0	0			Hail (1.00)
A strong low pressure system in the upper atmosphere over Arizona and an associated cold front moved east and approached the Texas panhandle during the evening hours. The severe thunderstorms which developed ahead of the cold front across the northern half of the Texas panhandle produced hail.									
Collingsworth County									
5 SE Wellington	02	1730CST			0	0			Hail (1.00)
Wheeler County									
2 S Briscoe	02	1857CST			0	0			Hail (1.75)
Hemphill County									
3 WNW Gageby	02	1900CST			0	0			Hail (1.75)
Hemphill County									
3 WNW Gageby	02	1925CST			0	0			Hail (1.75)
Wheeler County									
Allison	02	1930CST			0	0			Hail (2.75)
Donley County									
Clarendon	02	2035CST			0	0			Thunderstorm Wind (G52)
Gray County									
Lefors	02	2035CST			0	0			Hail (0.88)
Collingsworth County									
4 W Wellington	02	2115CST			0	0			Hail (0.75)
A retreating dryline across the extreme southern Texas panhandle in combination with a strong low pressure system in the upper atmosphere moving northeast across Colorado helped trigger severe thunderstorms during the evening hours over the eastern Texas panhandle. Mainly large hail and high winds occurred from the storms.									
Donley County									
1 N Clarendon	07	2137CST			0	0			Hail (1.00)
Donley County									
Hedley	07	2209CST			0	0			Hail (0.75)
Gray County									
3 W Alanreed to 4 W Alanreed	07	2212CST			0	0			Hail (0.75)
Wheeler County									
Briscoe	07	2305CST			0	0	5K		Thunderstorm Wind (G52)
A dryline across the western Texas and Oklahoma panhandles moving eastward along with a strong low pressure system in the upper atmosphere moving into Colorado during the late evening hours produced severe thunderstorms with hail and damaging winds across the southeastern Texas panhandle. The high winds caused shingles to be peeled from the roof of a house.									
Moore County									
Dumas	14	0700CST 1100CST			0	0			Flash Flood
TXZ004>005									
Ochiltree - Lipscomb									
14	1447CST				0	0			Flood
15	2246CST								
A low pressure system in the upper atmosphere over the southern Rockies and abundant low-level moisture combined to trigger heavy rain producing thunderstorms over the central and northeast Texas panhandle. Several roads and highways across Moore county were closed due to the flooding. The heavy rainfall caused Wolf Creek to overflow its banks from Lake Fryer in east-central Ochiltree county downstream to the Oklahoma state line. There were no reports of damage or injuries from the flooding.									
TXZ001-006									
Dallam - Hartley									
14	1213CST				0	0			High Wind (G52)
A surface low pressure system moved east to the Red River between Oklahoma and North Texas during the afternoon and early evening hours. The pressure gradient was sufficient for the production of locally high winds over the northwest Texas panhandle.									
TXZ001>002- 006>007-012-017									
Dallam - Sherman - Hartley - Moore - Potter - Randall									
08	0700CST 1100CST				0	0			High Wind (G36)
Surface low pressure over the central Plains states deepened during the day, resulting in a tight pressure gradient across the central and northwest Texas panhandle.									

Storm Data and Unusual Weather Phenomena

April 1999

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

Hutchinson County

Stinnett 13 0945CST 0 0 Hail (1.00)

Ochiltree County

15 SW Perryton 13 1034CST 0 0 Hail (0.88)
Reported ten miles west of Highway 281 and Highway 70.

Ochiltree County

5 S Perryton 13 1120CST 0 0 Hail (0.88)

Lipscomb County

Lipscomb 13 1128CST 0 0 Hail (0.75)

Potter County

22 NW Amarillo 13 1355CST 0 0 Hail (1.75)

Potter County

Bushland 13 1412CST 0 0 Hail (0.75)

Randall County

Amarillo 13 1428CST 0 0 Hail (0.75)

Potter County

22 NW Amarillo 13 1430CST 0 0 Hail (1.00)

Randall County

Canyon 13 1433CST 0 0 Hail (0.75)

Potter County

Amarillo 13 1435CST 0 0 Hail (1.50)

Potter County

Amarillo 13 1436CST 0 0 Hail (1.00)

Potter County

Amarillo Intl Arpt 13 1445CST 0 0 Hail (1.00)

Randall County

Canyon 13 1448CST 0 0 Hail (0.75)

Carson County

8 S Pantex 13 1455CST 0 0 Hail (1.75)
Reported from Interstate 40 just inside the Carson county line.

Carson County

2 S Panhandle 13 1515CST 0 0 1K Hail (2.75)
Texas Department of Public Safety trooper's car windshield was broken by the hail.

Gray County

Pampa 13 1605CST 0 0 Hail (0.75)

Collingsworth County

Wellington 13 1725CST 0 0 Hail (0.75)

Collingsworth County

Wellington 13 1800CST 0 0 300K Thunderstorm Wind (G70)

There was extensive damage all across the town of Wellington by downburst winds. A strong low pressure system in the upper atmosphere moved into east-central New Mexico during the afternoon as a dryline developed and moved east across the southern Texas panhandle. Scattered to numerous severe thunderstorms with large hail and damaging winds developed and moved across most of the Texas panhandle.

TEXAS, Northeast

Shelby County

2.3 SE Joaquin to 3 W Joaquin 03 1551CST 2.8 50 0 0 15K Tornado (F2)
1555CST

Minor roof damage to a few homes and outbuildings. Damage largely confined to trees uprooted or snapped. This is a continuation of the DeSoto Parish, Louisiana tornado.

Cherokee County

2 SW Maydelle to 2.5 NE Maydelle 04 1740CST 4.5 50 0 0 15K Tornado (F2)
1747CST

Abandoned chicken coop collapsed, large oaks (3 feet in diameter) uprooted otherwise minor damage to vehicles and about 10 homes.

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	
<u>TEXAS, Northeast</u>									
Panola County									
1.2 W Carthage to 2.5 N Carthage	26	1230CST 1234CST	3	100	0	0	30K		Tornado (F1)
North to south oriented multi-cellular squall line moving east at 40 mph across the county. Minor damage to homes with trees and powerlines snapped.									
Harrison County									
5.3 WSW Marshall to .7 N Marshall	26	1234CST 1236CST			0	0	250K		Thunderstorm Wind (G100)
North to south oriented multi-cellular squall line produced a significant microburst with damage to light to moderate damage homes and businesses. Numerous large trees toppled and snapped crushing cars and damaging roofs. One eye witness described as everything suddenly went horizontal, rain and debris.									
Nacogdoches County									
2.2 NW Nacogdoches to 4.4 NE Nacogdoches	26	1212CST 1220CST	5.4	100	0	0	190K		Tornado (F1)
North to south oriented multi-cellular squall line moving east at 40 mph. A few mobile homes demolished. Minor to moderate damage to frame and brick homes. Numerous trees and powerlines snapped.									
Wood County									
Quitman	03	1238CST			0	0			Thunderstorm Wind (G60)
Numerous trees down along FM 69 on the north side of town.									
Wood County									
Winnsboro	03	1250CST			0	0			Thunderstorm Wind (G60)
Numerous trees down in town.									
Smith County									
Tyler	03	1413CST			0	0			Urban/Sml Stream Fld
Localized street flooding in town. The intersection of Hwy 271 and Martin Luther King closed.									
Rusk County									
Overton	03	1455CST			0	0			Hail (0.75)
Smith County									
Whitehouse	04	1425CST			0	0			Hail (1.00)
Rusk County									
Henderson	04	1755CST			0	0	2K		Flash Flood
Flooding took place near the water treatment plant for the town of Henderson.									
Rusk County									
Henderson	04	1800CST			0	0			Thunderstorm Wind (G70)
Numerous trees down across the area.									
Harrison County									
Marshall	04	1838CST			0	0			Thunderstorm Wind (G65)
Several large trees down across town.									
Cherokee County									
Rusk	04	1700CST			0	0			Flash Flood
Several roads closed from excessive high water.									
Harrison County									
Waskom	04	2015CST			0	0			Flash Flood
Interstate 20 closed from flash flooding.									
Gregg County									
Kilgore	04	1415CST			0	0			Thunderstorm Wind (G60)
Several large trees and powerlines down.									
Cherokee County									
Jacksonville	04	1540CST			0	0			Hail (0.88)
Cass County									
10 N Linden	25	1515CST			0	0			Thunderstorm Wind (G70)
Numerous trees down across CR 2340 and along CR 2229.									
Bowie County									
4 W Nash	25	1540CST			0	0			Thunderstorm Wind (G60)
Franklin County									
5 E Mt Vernon	26	0945CST			0	0			Thunderstorm Wind (G60)
Numerous trees down.									

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	
<u>TEXAS, Northeast</u>									
Nacogdoches County									
Nacogdoches	26	1010CST			0	0			Thunderstorm Wind (G60)
			Several large trees down along Austin Street.						
Smith County									
Whitehouse	26	0920CST			0	0	10K		Thunderstorm Wind (G65)
			Wind blew off a portion of the post office roof.						
Wood County									
Mineola	26	0920CST			0	0	30K		Thunderstorm Wind (G60)
			Several trees down. One tree fell on a house and a barn as damaged from the wind.						
Upshur County									
Midway	26	0940CST			0	0			Thunderstorm Wind (G60)
			Powerlines were toppled along Hwy 271.						
Franklin County									
Mt Vernon	26	0942CST			0	0	20K		Thunderstorm Wind (G60)
			Trees and powerlines toppled.						
Franklin County									
Mt Vernon	26	0952CST			0	0	60K		Thunderstorm Wind (G60)
			Winds damaged a doctors office on Hwy 37 and an 18 wheeler was blown over on I-30.						
Panola County									
1 W Fairplay	26	1045CST			0	0			Thunderstorm Wind (G60)
Harrison County									
9 N Marshall	26	1045CST			0	0			Thunderstorm Wind (G65)
			Numerous trees down.						
Harrison County									
Marshall	26	1035CST			0	0	40K		Thunderstorm Wind (G100)
			Numerous trees and powerlines were toppled. A home lost its roof.						
Harrison County									
Marshall	26	1045CST			0	0	30K		Thunderstorm Wind (G75)
			Winds blew the roof off a business on the west side of town along Hwy 80.						
Bowie County									
Maud	26	1050CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
Bowie County									
Leary	26	1100CST			0	0			Thunderstorm Wind (G60)
			Trees toppled near a school along Hwy 67.						
Camp County									
5 S Pittsburg	26	0930CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
Shelby County									
2 N Center	26	1100CST			0	0			Thunderstorm Wind (G60)
			Trees down along Hwy 87.						
Bowie County									
7 N Texarkana	26	1110CST			0	0	60K		Thunderstorm Wind (G70)
			Several trees down including a tree across a home. Several mobile homes were also damaged.						
Harrison County									
Waskom	26	1115CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
Cass County									
Linden	26	1100CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
Marion County									
Jefferson	26	1100CST			0	0			Thunderstorm Wind (G60)
			Several large trees down.						
<u>TEXAS, South</u>									
Kenedy County									
7 SE Norias	26	1520CST			0	0			Hail (1.50)

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	
<u>TEXAS, South</u>									
Willacy County									
5 NW Port Mansfield	26	1600CST			0	0			Hail (0.75)
Willacy County									
2 E San Perlita	26	1606CST			0	0			Hail (2.75)
Willacy County									
2.6 WSW Santa Monica to 4.8 SW Santa Monica	26	1621CST 1625CST	2.9	30	0	0	5K	4K	Tornado (F0)
Cameron County									
6.4 NE Combes to 5.6 ENE Combes	26	1635CST 1645CST	1.8	30	0	0	0	2K	Tornado (F0)
Cameron County									
Harlingen	26	1645CST			0	0			Hail (1.75)
Cameron County									
2.5 NW Olmito	26	1725CST			0	0			Hail (1.75)
Cameron County									
.5 N Brownsville	26	1731CST			0	0			Hail (1.75)
Cameron County									
Brownsville	26	1735CST 1740CST			0	0			Hail (0.75)
Thunderstorms produced several areas of hail from Kenedy to Cameron County. A tornado touched down 2.6 miles west southwest of Santa Monica in Willacy County damaging out buildings. The tornado moved south southwest into Cameron County through sorghum and cotton fields before lifting 5.6 miles east northeast of Combes.									
<u>TEXAS, South Central</u>									
Val Verde County									
Del Rio	24	1055CST 1100CST			0	0	0	0	Hail (1.50)
Val Verde County									
Del Rio	24	1100CST 1230CST			0	0	3K	0	Flash Flood
Brief street flooding was reported by Del Rio Police Department across the city due to 3 inch rainfall in just over 2 hours.									
Bexar County									
San Antonio	25	0420CST 0425CST			0	0	50K	0	Thunderstorm Wind
NWS off-duty employee reports trees down and large limbs off trees. Power lines blown down with power out to much of northern San Antonio.									
Edwards County									
East Portion	25	0930CST 1200CST			0	0	10K	0	Flash Flood
Real County									
West Portion	25	0930CST 1200CST			0	0	40K	0	Flash Flood
Flash flooding was reported over eastern Edwards County and western Real Counties due to general 2-3 inch rainfall with up to 5 inches maximum amounts. The worst flooding took place near Camp Wood and the Barksdale area, where flash flooding was knee-deep in some places. Nearly all of the damage was to roads and streets.									
Uvalde County									
Utopia	25	1030CST 1050CST			0	0	8K	0	Thunderstorm Wind
A trained spotter reported trees blown down and large limbs were knocked off trees.									
Maverick County									
Eagle Pass	25	2340CST 2350CST			0	0	0	0	Hail (0.88)
<u>TEXAS, South Panhandle</u>									
Crosby County									
Ralls	02	2127CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Motley County									
Flomot	02	2135CST			0	0			Hail (0.75)
Floyd County									
8 E Floydada	02	2141CST			0	0			Hail (1.00)
Hockley County									
Ropesville	04	2135CST			0	0			Hail (0.75)
Lubbock County									
Shallowater	04	2146CST			0	0			Hail (0.75)
Briscoe County									
Quitaque	04	2300CST			0	0			Thunderstorm Wind (G60)
		Strong wind blew down large tree limbs.							
Motley County									
Whiteflat	04	2325CST			0	0			Hail (0.75)
Motley County									
Northfield	04	2345CST			0	0	15K		Thunderstorm Wind (G70)
		Strong wind blew windows out of a truck and farm equipment, blew down trees, destroyed an antenna, blew the roof off a storage shed, damaged the roof of a cottage, and damaged a box car. NWS storm survey estimated winds to have been about 80 mph.							
Childress County									
2 E Childress	05	0050CST			0	0	5K		Thunderstorm Wind
		Strong wind blew a 50 foot roof off of a barn, and damaged several hog pens at the highschool's farm. Large trees were damaged near the farm on U.S. Highway 287. In Childress, power poles, trees and power lines were blown down.							
Lubbock County									
9 W Slaton	07	2105CST			0	0			Hail (0.75)
Floyd County									
Floydada	07	2200CST			0	0	50K		Lightning
		Lightning struck a house and started a fire that resulted in considerable damage.							
Hall County									
Brice	07	2200CST			0	0			Hail (0.75)
Bailey County									
Enochs	13	1345CST			0	0			Hail (0.75)
Lamb County									
Littlefield	13	1415CST			0	0	15K		Thunderstorm Wind
		Strong wind blew the roof off a business.							
Lamb County									
Littlefield	13	1420CST			0	0			Hail (0.75)
Garza County									
4 SW Post	13	1620CST			0	0			Hail (1.75)
Hockley County									
Levelland	28	1650CST			0	0	5K		Thunderstorm Wind
		Strong wind blew the doors out of a shop and blew a window out of a truck.							
Castro County									
Dimmitt	28	1830CST 2000CST			0	0			Flash Flood
		Several roads were flooded in the eastern part of the county including Highway 194 and Highway 86.							
Dickens County									
Spur	28	1838CST			0	0			Hail (1.00)
		Quarter size hail covered the ground.							
Dickens County									
2 E Afton	28	1955CST			0	0			Hail (1.75)
Floyd County									
1 S Dougherty	28	2045CST			0	0	3K		Thunderstorm Wind
		Strong wind snapped several power poles.							
Floyd County									
Dougherty	28	2045CST			0	0	15K		Thunderstorm Wind
		Strong wind removed numerous shingles from one roof and caused extensive damage to another.							

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	
TEXAS, South Panhandle									
Motley County									
Flomot	28	2055CST			0	0			Hail (0.75)
Motley County									
Matador	28	2055CST			0	0			Hail (0.75)
Lubbock County									
Lubbock	28	2100CST			0	0	470K		Lightning
Lightning struck a house in the Lakeridge subdivision and started a fire that resulted in extensive damage.									
Dickens County									
Dickens	28	2208CST			0	0			Hail (0.75)
Crosby County									
Crosbyton	29	0330CST			0	0			Hail (1.75)
Lubbock County									
Lubbock Intl Arpt	29	0330CST			0	0			Hail (0.75)
Crosby County									
Ralls	29	0332CST			0	0			Hail (1.75)
Crosby County									
4 E Crosbyton	29	0350CST			0	0			Hail (1.75)
Kent County									
10 W Girard	29	0400CST			0	0			Hail (1.75)
Yoakum County									
6 E Plains	30	1704CST 1705CST	0.1	30	0	0			Tornado (F0)
A brief tornado touchdown in open country was reported by law enforcement officials and by storm spotters. No survey was conducted.									
Castro County									
Dimmitt	30	1718CST 1900CST			0	0			Flash Flood
Several roads were reported flooded throughout the county.									
Lamb County									
Olton	30	1735CST 2030CST			0	0			Flash Flood
Highway 70 was reported flooded.									
Yoakum County									
8 NE Plains	30	1738CST 1739CST	0.1	30	0	0			Tornado (F0)
A brief tornado in open country was reported by a storm spotter. No survey was conducted.									
Yoakum County									
Plains	30	1800CST 1950CST			0	0			Flash Flood
Roads were reported flooded throughout the county.									
Castro County									
Hart	30	1915CST 2125CST			0	0			Flash Flood
Highway 168 and Highway 194 were reported flooded.									
Hale County									
Halfway	30	1930CST 2130CST			0	0			Flash Flood
Farm-to-Market Road 179 was flooded with two feet of water covering the road north of town.									
Terry County									
6 S Foster	30	1955CST			0	0			Hail (0.75)
Swisher County									
Kress	30	2100CST 2345CST			0	0			Flash Flood
Interstate 27 was reported flooded near Kress and several Farm-to-Market roads were also flooded.									
Crosby County									
1 W Ralls	30	2205CST 2330CST			0	0			Flash Flood
Highway 82 was reported flooded west 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	
<u>TEXAS, South Panhandle</u>									
Floyd County									
Floydada	30	2230CST 2333CST			0	0			Flash Flood
Several Farm-to-Market roads were flooded.									
Stonewall County									
4 ENE Aspermont	02	1715CST	0.1	30	0	0	0	0	Tornado (F0)
An experienced storm chaser reported a very brief, weak tornado east-northeast of Aspermont. It remained over open country and did not cause any damage. It lasted one minute or less.									
TXZ021>044									
Parmer - Castro - Swisher - Briscoe - Hall - Childress - Bailey - Lamb - Hale - Floyd - Motley - Cottle - Cochran - Hockley - Lubbock - Crosby - Dickens - King - Yoakum - Terry - Lynn - Garza - Kent - Stonewall									
14		1400CST 1900CST			0	0	20K		High Wind (G52)
A strong upper level storm system moved out of the Southern Rockies and into the Southern Plains on the 14th. In response, low pressure rapidly deepened over Oklahoma during the day. A strong pressure gradient developed over the South Plains, the Southern Panhandle and the Low Rolling Plains with sustained surface winds of around 40 mph persisting for several hours. Wind gusts to 60 mph were recorded between 1445CST and 1600CST at the Lubbock International Airport and in Hart in Castro County. The strong wind removed the roof from a mobile home, snapped several power poles, blew down power lines, and uprooted several trees in Lubbock County. Large quantities of dust were lifted into the air reducing visibilities to less than one mile at times.									
<u>TEXAS, Southeast</u>									
Tyler County									
Woodville	03 04	1900CST 1300CST			0	0	200K		Flood
Nearly ten inches of rain fell over Tyler County. On US Highway 69 south near the Woodville city limits, over two feet of water was reported in several homes and businesses. Several families were rescued by boat on Highway 287 near Kirkland Springs. Four people were rescued from a convenience store in Woodville. Another five people, six dogs, and a cat were evacuated in the Harmony Road area. One elderly woman was trapped in rising waters in her car, but two men rescued her.									
Tyler County									
Woodville	03	1720CST			0	0			Hail (0.75)
Newton County									
Newton	03 04	2200CST 1300CST			0	0	50K		Flood
Over eight inches of rain fell across Newton County, causing numerous road closures, including Highways 363 and 1414.									
Newton County									
Burkeville	04	1358CST			0	0			Hail (0.75)
<u>TEXAS, West</u>									
Ector County									
4 W Odessa	02	2034CST			0	0			Hail (1.00)
Ector County									
4 N Odessa	02	2040CST			0	0			Hail (1.75)
Southern end of a cell before the line became continuous.									
Dawson County									
Lamesa	02	2047CST			0	0			Hail (0.75)
Upton County									
Rankin	02	2148CST			0	0			Hail (1.00)
Part of continuous line of storms where a mesocyclone was able to form briefly when over Rankin. The mesocyclone was much stronger when the storm moved northeast of Rankin, but no reports were received.									
Scurry County									
3 S Snyder	02	2240CST			0	0	10K		Thunderstorm Wind
Outflow winds from a bowing part of the line took down 10 utility poles along State Highway 208. The poles took down lines of another company and one vehicle sustains light damage from falling debris.									
Very intriguing situation with a quiet evening until the receding dryline slammed into an eastward moving pacific cold front. The joining of the two boundaries was along a line from near Andrews to Monahans. About 30 minutes after the collision, deep convection began to fire at several points along the line. The front quickly filled with continuous convection by time it reached Midland.									
Brewster County									
11 NE Study Butte	12	1715CST			0	0			Hail (1.75)
Single cell severe crossing Terlingua Ranch.									

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	
TEXAS, West									
Brewster County									
Castolon	12	1829CST			0	0			Hail (0.75)
Brewster County									
17 SE Panther Junction	12	1944CST 1955CST			0	0	40K		Hail (2.50)
This storm crossed the Rio Grande moving northeast over Castolon. The storm then turned right and displayed supercell characteristics. By the time the storm reached Rio Grande Village tennis ball size hail was falling as the storm proceeded straight east. The storm soon crossed into Mexico.									
Brewster County									
Southeast Portion	12	1950CST 2100CST			0	0			Flash Flood
This supercell also dumped copious amounts of rain that caused flash flooding on Blue Creek. One water crossing on the park road to Castolon briefly had 3 feet of water crossing it.									
Reeves County									
Saragosa	12	2020CST			0	0			Hail (1.00)
Single cell storm crossed the Davis Mountains and was briefly severe near Saragosa.									
Gaines County									
Seminole	12	2359CST			0	0			Hail (0.75)
The extreme eastern cell of a multicell cluster that moved northeast out of New Mexico. Most deep convection on this day started in a mountain range. The big storms that pounded the Big Bend formed in Chihuahua and crossed into southern Brewster County. The only storm that appeared to be a supercell was the one that tracked straight east across Big Bend National Park.									
Crane County									
Crane	25	2343CST			0	0			Hail (1.00)
A short line of thunderstorms developed along the dryline with one of the strongest cells moving over the city of Crane.									
Terrell County									
North Portion	26	0230CST 0330CST			0	0			Flash Flood
Two thunderstorms tracked over northern Terrell county causing flooding on both State Highway 349 and Ranch Road 2400.									
Andrews County									
8 E Andrews	28	1853CST			0	0			Hail (0.75)
This small single cell storm was briefly severe.									
Andrews County									
Andrews	28	2043CST 2048CST			0	0	5M		Hail (1.75)
A multicell cluster of thunderstorms moved into Andrews County from Winkler County. A new cell developed on the south end of the cluster and dropped the large hail on parts of Andrews. Numerous cars were damaged along with some roofs. This was the worst hail storm in Andrews since June 4, 1995. Initial firing of storms was mostly along the dryline on this day.									
Reeves County									
5 W Orla	29	1930CST 2000CST			0	0			Hail (0.88)
Right-split of a cell that developed in northeastern Culberson County. This storm moved very little over a 2 hour period, while its pair moved quickly north into Eddy County, NM. This storm showed very strong rotation on doppler radar. The hail sampling was approximately 3-5 miles east of the updraft.									
Loving County									
West Portion	29	2100CST 2300CST			0	0			Flash Flood
Flash flooding occurred on FM 652. Part of a fence was washed onto the road.									
Reeves County									
12 SE Orla	30	1030CST 1040CST	1	170	0	0			Tornado (F2)
This tornado formed from a very young cell that became a small classic supercell very quickly. The cell was on the southern end of a small cluster of cells. The tornado formed near the Pecos River in extreme eastern Reeves County and crossed into western Loving County. As the tornado crossed the river the largest vegetation in the area, lines of Salt Cedar trees were snapped or uprooted. Many of these trees were well established and approximately 25-30 feet tall. The funnel exhibited a condensation funnel to the ground for much of its life.									
Loving County									
7 NW Mentone to 13 NW Mentone	30	1040CST 1055CST	6	170	0	0	20K		Tornado (F2)
The Reeves County tornado crossed the Pecos River and headed north across open country. Soon after it crossed the river, the									

Storm Data and Unusual Weather Phenomena

April 1999

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

tornado hit some oil field supplies and caused some damage. The only oil pumpjack in the path was overturned. Engineers at a pumpjack manufacturer estimated winds in the range of 110-130 mph to knock over this large piece of equipment. Vegetation mainly consisted of brush less than 4 feet tall with disturbances ranging from snapped or flattened to bent more than 45 degrees. The small foliage on these plants was generally still present, but wind-torn.

Reeves County

4 NNE Orla

30 1130CST 0 0 Hail (1.00)

This storm was the strongest cell in a cluster that formed to the west of the tornadic cell. This report came from the shore of Red Bluff Reservoir. The previously tornadic cell merged with this cluster in southern Eddy County, NM.

Loving County

10 ENE Red Bluff Res

30 1140CST 0 0 Hail (1.75)

Hail fell on the New Mexico state line.

Gaines County

Seminole

30 1730CST 0 0 8M Hail (2.00)

A multicell cluster of severe storms that crossed into New Mexico from Reeves and Loving Counties, TX just before 1pm CDT emerged from Lea County, NM at around 6pm. The city of Seminole was pounded by large hail, high winds and flooding rains.

Gaines County

Seminole

30 1800CST 0 0 40K Thunderstorm Wind

Thunderstorm outflow winds blew down signs in town and blew one roof off a house just east of town.

Gaines County

Seminole

30 1818CST 0 0 Hail (0.75)

A cell that formed on the south flank of the previous storm. This cell was the second of numerous training cells that passed over Seminole and points northeast and east.

Gaines County

Countywide

30 1825CST 0 0 2M Flash Flood
2200CST

Training of numerous cells over Seminole and areas to the east and northeast caused widespread and extensive flooding. The KMAF 88D Storm Total Precipitation measured a strip of 20 by 8 miles that received in excess of 5 inches of rain. Readings from within the swath confirmed this estimation. Residences were flooded in Seminole and cars on FM 1429 east of Seminole were stranded in high water. One new mobile home east of the city became flooded and started to float in the water, only to break apart shortly thereafter. Several people were rescued from vehicles standing in 4-5 feet of water. Numerous animals died in the event, including five horses on a farm that died from hypothermia after being stranded for hours in deep, hail-chilled waters.

Gaines County

7 N Cedar Lake

30 1950CST 0 0 Hail (0.88)

Storms were forming into an MCS.

Dawson County

Countywide

30 2200CST 0 0 Flash Flood
2330CST

By the time the storms moved into Dawson County the large hail and high winds had diminish and heavy rains flooded the countryside. Several vehicles were stranded on State Highway 137 between Lamesa and Welch. A few rural roads were closed in various parts of the county.

A classic severe weather setup was taking place on this day and would continue into the next day. A strong upper level low pressure system was centered near Las Vegas, NV and was moving slowly eastward toward the area. Surface winds were backed to the southeast with rich moisture.

One item of interest was the early start time of the storms with the first tornado by 1130 am CDT...only about 10 am local sun time. With the mid-level flow blowing parallel to the orientation of multicell complexes were oriented, training of storms was common over several parts of the region. In the evening tornadoes and hail events subsided and flash flooding began to take control.

Brewster County

Marathon

30 1215CST 0 0 Hail (0.88)

A multicell severe storm that formed in central Brewster County. The storm slowly declined as it moved away to the northeast.

Andrews County

25 WNW Andrews

30 1433CST 0 0 Thunderstorm Wind (G59)

Wind speed measured at a radioactive waste site. This storm produced a tornado just east of Eunice, NM., moved NNE across the northwest corner of Andrews County, then into Gaines County.

Gaines County

20 NW Seminole

30 1540CST 1 100 0 0 Tornado (F0)
1543CST

Tornado spotted by Lubbock TV Chase Crew.

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	

TEXAS, West

TXZ045>048-050>052-057>063-067>070-074>075-079>082

Gaines - Dawson - Borden - Scurry - Andrews - Martin - Howard - Van Horn/Guadalupe Mountains Area - Reeves County And Upper Trans Pecos - Loving - Winkler - Ector - Midland - Glasscock - Ward - Crane - Upton - Reagan - Davis Mountains - Pecos - Presidio Valley - Marfa Plateau - Big Bend Area - Terrell

01	0000CST			0	0		Drought
29	0600CST						

The long and devastating drought is finally being closed out. Although the lands in the region will take a long time to recover (and most agricultural experts would agree that their drought had not ended), meteorologically the weather pattern began a drastic change by April 29. Droughts are much more sluggish than this summary might convey, however, when restricted to an exact time for an end, April 29th seemed like a good choice.

On the morning of the 29th, the first in a series of upper level low pressure systems was dropping southward into southern California. For more than a year this situation had been a very rare occurrence, however, beginning on April 29th, low pressure centers dropping into the Desert Southwest became common.

Once again the countryside in West Texas became green.

Midland County

4 W Midland	13	1615CST			0	0		Hail (0.88)
		1630CST						

Midland County

Midland	13	1630CST			0	0		Hail (1.75)
		1640CST						

Midland County

5.5 S Midland	13	1640CST			0	0	8M	Hail (1.75)
		1650CST						

Midland County

5.5 S Midland	13	1640CST			0	0	3M	Thunderstorm Wind (G70)
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Howard County

East Portion	13	1645CST			0	0		Flash Flood
		1745CST						

Flooding on FM 821 south of I-20 required its closing.

Midland County

7.5 SE Midland	13	1645CST	0.5	150	0	0	20K	Tornado (F1)
		1647CST						

Eyewitness account of this tornado. Although many people in the area considered all the damage to have been from a tornado, actually most of the damage was from the wind-driven hail (north of the tornado path). In the tornado path winds were more intense than in the hail area as demonstrated by the total demolition of one trailer that was spread into the field. All trailers in the hail area were still standing.

Midland County

Greenwood	13	1700CST			0	0		Hail (1.00)
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Glasscock County

18 W Lees	13	1730CST			0	0		Hail (1.75)
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Midland County

8 E Greenwood	13	1730CST			0	0		Hail (1.75)
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Howard County

7 S Big Spring	13	1738CST			0	0		Hail (0.75)
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Howard County

Coahoma	13	1825CST			0	0		Hail (1.00)
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This convection developed along the dryline near the Ector/Crane County Line and slowly evolved at first, but suddenly intensified as it approached the city of Midland. The storm's updraft passed south of Midland, so the city only received hail on the extreme south side of town. The storm then spun up rotation while south of the city and became a classic supercell.

As the storm approached State Highway 349 damaging winds and hail combined with battering effects. A two mile wide area of wind-driven hail pounded residences and farm equipment for about a 5 mile stretch at least as far as State Highway 158. Hail grew up to about golfball size and winds peaked at approximately 80 mph. The wind-driven hail broke windows in houses and blasted paint off the wooden siding. The strong winds took roofs off several mobile homes and at least one single-family house. Utility crews stated that a total of 27 poles were downed by the winds.

The American Red Cross determined that 324 units were affected with 18 mobile homes 4 houses destroyed. About 50-60 families were at least temporarily displaced. Only about 10% of the property was insured. Of the 6 injuries, one person was

Storm Data and Unusual Weather Phenomena

April 1999

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

admitted to the hospital with a broken arm.

This wind-driven hail area was on the north side of the mesocyclone with a brief tornado causing damage south of this area. The tornado formation was near the intersection of FM 1213 and County Road 160.

TXZ080

Marfa Plateau

13	1400CST				0	0			High Wind (G50)
	1500CST								

High winds gusted in the high terrain west of Marfa.

Upton County

**5 N Mc Camey to
8 NE Mc Camey**

13	1600CST	3	100		0	0			Tornado (F0)
	1620CST								

This event is based solely on reports from Law Enforcement. No path was found nor were any further details available.

Martin County

Lenorah

13	1630CST				0	0			Thunderstorm Wind (G58)
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Scurry County

Knapp

13	1755CST				0	0			Hail (1.75)
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Storm Chasers estimated outflow winds at 55-60 knots along State Highway 137 from this multicell area that proceeded across rural Borden County and into Scurry County where Knapp was struck.

Pecos County

Sheffield

13	2020CST				0	0			Hail (1.75)
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This storm formed southeast of Fort Stockton and moved over open country until coming to Sheffield.

TEXAS, Western North

Knox County

Knox City

02	1800CST				0	0			Hail (0.75)
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Knox County

7 W Vera

02	1915CST				0	0			Hail (0.75)
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Wilbarger County

Vernon

03	0005CST				0	0	0.50K		Thunderstorm Wind
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Several traffic lights were downed by thunderstorm winds in downtown Vernon.

Wichita County

Wichita Falls

14	0030CST				0	0	60K		Flood
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High water from heavy rain flooded several homes at the corner of Stevens and Featherston Avenues. Several people had to be rescued by boat.

Foard County

Crowell

29	0030CST				0	0	3K		Thunderstorm Wind
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Foard County

4 E Crowell

29	0035CST				0	0			Hail (1.00)
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A severe thunderstorm produced quarter-size hail 4 miles east of Crowell and minor roof damage to a lumberyard in Crowell.

TXZ083>090

Hardeman - Foard - Wilbarger - Wichita - Knox - Baylor - Archer - Clay

14	1700CST				0	0	6.5K		High Wind
15	0500CST								

Northwest winds between 40 and 50 mph with gusts over 60 mph affected much of western north Texas from the evening of the 14th through the early morning of the 15th. Two sheds were blown over, and large tree limbs were downed in Hardeman County. Minor roof damage was also reported in Hardeman County. In Archer County, a tree fell on a house in Archer City. Large tree limbs were downed in Knox County. Large tree limbs were also downed in Wilbarger County resulting in scattered power outages between 1900 CST and 2200 CST on the 14th.

Archer County

Lake Kickapoo

12	2315CST				0	0	15K		Thunderstorm Wind
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Winds from a severe thunderstorm partially ripped the roof off a garage and house.

UTAH, North, Central and South

UTZ001>008

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80

01	0000MST				0	35	170K	0	Winter Storm
02	1200MST								

A major winter-like storm that actually began the evening of March 31st continued through the 2nd of April, bringing heavy snow

Storm Data and Unusual Weather Phenomena

April 1999

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

to the Northern Mountains and Valleys of the state. The heaviest snow was along the Wasatch Front, and southeast of the Great Salt Lake, as the lake effect kicked in. Heavy snow made I-15 impassable between Fillmore and Cove Fort, causing drivers to check fill the nearby motels. Fillmore was forced to open a National Guard Armory to shelter the nearly 100 overflowing travellers. Numerous accidents were reported, mainly along the Wasatch Front, with many minor injuries. Snowfall amounts were generally 1-2 feet in the mountains, 6-14 inches along the benches, and 4-10 inches in the valleys.

UTZ003>005 Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Great Salt Lake Desert And Mountains/Wendover/Snowville

03	0000MST	0	0	0	Heavy Snow
	1800MST				

As very cold air aloft settled into the Salt Lake Valley, the Great Salt Lake kicked in with bands of lake-effect snow lasting through the early evening. Snowbasin got 7 inches of snow, Alta and Brighton picked up 6 inches, SLC Avenues had 4 inches, with Park City, East Millcreek, and the Hogle Zoo receiving 3 inches.

UTZ013>014-017>018-020 San Rafael Swell/Greene River/Hanksville - Sanpete/Sevier Valleys - Central And Southwest Mountains - Southeast Mountains/Canyonlands - South Central Utah/Kanab/Escalante

04	1200MST	0	0	0	Heavy Snow
05	1200MST				

Southern Utah got into the act as a storm dove into the Southwestern U.S. Heavy snow fell for awhile in much of the area, with Escalante reporting 13 new inches, Bryce Canyon 11 inches, Brian Head 9 inches, Monticello 8 inches, and Ferron 6 inches.

UTZ002>004-006>008 Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80

07	1500MST	0	0	0	Winter Storm
08	1100MST				

A very wet Pacific Storm brought heavy snow to the Wasatch Front. Snowfall in the mountains ranged from 8-15 inches, with 4-10 inches along the benches and 2-6 inches in the valleys. The snow was very wet, with water content from early rain and the snow well over an inch at Farmington Canyon (1.50), Ben Lomond (1.50), Sundance (1.42), Orem (1.30), Alpine (1.26) and Centerville(1.07).

UTZ019 Utah'S Dixie And Zion National Park

01	1800MST	0	0	0	100K Extreme Cold
03	1800MST				

Extremely cold temperatures in Washington County the nights of April 1-3 destroyed much of the 1999 fruit crop. With the mercury dipping as low as 18 degrees, as much as 33,000 pounds of peaches were lost, along with damage to apricot, apple, and cherry tree crops.

UTZ001>008-014-017-019 Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Sanpete/Sevier Valleys - Central And Southwest Mountains - Utah'S Dixie And Zion National Park

08	2100MST	0	19	10K	Winter Storm
10	2100MST				

Another vigorous storm brought great powder to all of Utah's mountains, with heavy snow also in the northern valleys. Gusty winds also blew ahead of the front. The storm was even cold enough to bring the first April snowfall in 72 years to St. George, where a light dusting of about half an inch was reported. The storm caused a school bus accident near Cedar City the morning of the 9th, with 19 students treated for minor injuries at a local hospital. Some of the stronger wind gusts ahead of the storm were 69 mph (60 kts) at Snowbasin and Sundance, 67 mph (58 kts) in St. George, 62 mph (54 kts) at Vernon Hill, and 58 mph (50 kts) in Wendover. The storm dumped 1-2 feet of fresh powder on the ski resorts, with Snowbird getting 26 inches, Alta and Brian Head 25 inches, and The Canyons 16 inches. The benches along the Wasatch Front picked up 6-12 inches, with 4-8 inches common in the northern valleys. Lighter amounts fell over the south half of the state.

UTZ002>003 Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys

22	2100MST	0	0	11.1M	110K High Wind
23	1200MST				

An upper-level low centered over Southern Utah (easterly flow aloft), combined with surface pressure gradient over the north (strong surface high pressure over Southwest Wyoming), produced a major east (downslope) wind event along the Northern Wasatch Front from the late evening hours of the 22nd through the morning of the 23rd. In what was the strongest wind event here in over 15 years, wind gusts in excess of 100 mph were clocked in several locations in Weber and Box Elder counties, with Davis and Northern Salt Lake counties also receiving significant wind gusts. A new Utah state record was set on the 23rd at around 1:00 AM for a gust at a valley location. A wind gust of 113 mph was recorded at the Brigham City Airport to establish that new record. The old record was 104 mph at Hill AFB on April 4, 1983. The winds toppled planes and damaged hangers at the Brigham City Airport, causing an estimated 750,000 dollars damage. The most damage was to homes along the Northern Wasatch Front, with hundreds of houses and some businesses losing shingles, fences, trees, siding, and in some cases roofs. Estimated damage to the

Storm Data and Unusual Weather Phenomena

April 1999

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

UTAH, North, Central and South

homes and properties was 9.6 million dollars. The ferocious winds also toppled 20 semi-tractor trailers on I-15 between Brigham City and Centerville, twisted a large construction crane and toppled the attached 500 pound ball onto the Municipal Building in Ogden, blew out windows and toppled trees at Weber State University, snapped power poles and knocked out power to 10,000 people, and shut down I-15 and US89 from Brigham City to Centerville. Amazingly, no serious injuries were reported during this major wind event. Beside the 113 mph wind gust at Brigham City, other gusts included 110 mph at Weber State, 102 mph at the Brigham City AWOS, 101 mph at Taylor Canyon in East Ogden, 87 mph in Centerville, 74 mph in North Salt Lake, and 66 mph at Hill AFB.

UTZ007

Wasatch Mountains I80 North

23	0600MST								
	2300MST	0	0	0	0	0	0	0	Heavy Snow

The same conditions that brought damaging downslope winds to the Wasatch Front, produced an upslope snow event along the eastern slopes and at some ski resorts. Alta picked up a fluffy 20 inches, with Snowbird reporting 17 inches. Other snow amounts included 12 inches at Tony Grove, 10 inches at Monte Cristo, 7 inches in Randolph and Hatch, and 6 inches in Laketown.

Davis County

Kaysville

26	2321MST								
		0	0	50K	0	0	0	0	Lightning

Lightning blew a 4 X 6 foot hole in the roof of a 100-year-old Kaysville home at around 11:21 PM. The owners were home at the time, but were not injured. The strike caused an estimated \$50,000 damage.

Box Elder County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Cache County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Davis County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Morgan County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Rich County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Salt Lake County

Countywide

27	1200MST								
30	1200MST	0	0	0	0	0	0	0	Heavy Rain

Several days of soaking rain added to the ever swelling monthly rainfall over much of Northern Utah. The rains caused the Blacksmith Fork to reach or exceed bankfull on the 29th, producing some minor flooding in a trailer park south of the Country Manor Subdivision. Some of the higher rainfall amounts included 2.15 inches at Snowbird, 1.97 at Alta, 1.91 at Pineview Dam, 1.74 in Morgan, 1.64 in Bountiful, 1.55 in South Ogden, and 1.51 inches in Layton.

UTAH, Northeast

NONE REPORTED.

VERMONT, North and Central

NONE REPORTED.

VERMONT, South

VTZ013>014

Bennington - Windham

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

Rainfall fell well short of normal across southern Vermont during the month of April. Ball Mountain Lake reported only 0.97 inches of rainfall for the entire month, which was 2.93 inches below normal. Pownal had 1.15 and Sunderland only 0.88 inches. The combination of low rainfall, along with frequent gusty winds, turned the underbrush into tinder. This scenario led to some brush fires during the month across both Bennington and Windham counties.

Storm Data and Unusual Weather Phenomena

April 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>VIRGIN ISLANDS</u>									
St. John County									
St. John	03	1000AST 1015AST			0	0			Waterspout
			Virgin Islands Radio indicated that a boater observed several waterspouts two miles north of Virgin Gorda Sound.						
St. Thomas County									
St. Thomas	14	1910AST 1925AST			0	0			Waterspout
			Virgin Islands Radio indicated that a boater observed a waterspout northwest of St. Thomas about five miles north of Cricket and Cockroach islands.						
<u>VIRGINIA, East</u>									
Goochland County									
Hadensville	09	1750EST			0	0	1K		Thunderstorm Wind
			Large tree down.						
Hanover County									
Hanover	09	1800EST 1810EST			0	0	2K		Thunderstorm Wind
			Several trees down.						
Caroline County									
Ladysmith	09	1810EST			0	0	10K		Thunderstorm Wind
			Roof damage to 3 homes. Trees down.						
Powhatan County									
Trenholm	09	1815EST			0	0	2K		Thunderstorm Wind
			Several trees down.						
Henrico County									
1 W Short Pump	09	1820EST			0	0			Thunderstorm Wind (G50)
			Wind gust of 58 mph reported by spotter.						
Essex County									
Countywide	09	1830EST			0	0	2K		Thunderstorm Wind
			Trees down across county.						
King William County									
Enfield	09	1830EST			0	0	2K		Thunderstorm Wind
			Trees down on Route 604.						
Richmond (C)									
Richmond	09	1830EST			0	0	3K		Thunderstorm Wind
			Trees down and power outages.						
King And Queen County									
3 E St Stephens Church	09	1835EST			0	0	1K		Thunderstorm Wind
			Large branches and one tree down on Route 621.						
Charles City (C)									
Charles City	09	1840EST			0	0	2K		Thunderstorm Wind
			Trees down and power outages.						
Amelia County									
Amelia to Mannboro	09	1845EST 1900EST			0	0	2K		Thunderstorm Wind
			Trees down.						
New Kent County									
Countywide	09	1845EST			0	0	2K		Thunderstorm Wind
			Trees down and power outages.						
Richmond County									
Countywide	09	1845EST			0	0	2K		Thunderstorm Wind
			Trees down and power outages.						
Westmoreland County									
Westmoreland	09	1845EST			0	0	1K		Thunderstorm Wind
			Trees down across a road in the Sandy Point area.						

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	
<u>VIRGINIA, East</u>									
Lunenburg County									
Victoria	09	1850EST			0	0			Hail (1.75)
Lancaster County									
Countywide	09	1852EST			0	0	5K		Thunderstorm Wind
Large trees down across roads and power lines down. Roof damage to homes and damage to trailers.									
Middlesex County									
Church View	09	1855EST			0	0	2K		Thunderstorm Wind
Trees and power lines down.									
Dinwiddie County									
Sutherland	09	1900EST			0	0	2K		Thunderstorm Wind
Signs were twisted, 55 gallon drums were blown about. Ticket booths blown down near the Virginia Motorsports Park.									
Hopewell (C)									
Hopewell	09	1901EST			0	0	1K		Thunderstorm Wind
Power lines down.									
James City County									
Countywide	09	1905EST 1915EST			0	0	2K		Thunderstorm Wind
Trees down.									
Gloucester County									
Gloucester	09	1915EST			0	0	10K		Thunderstorm Wind
Large section of roof was blown off a building near the courthouse. Power lines down near Route 17.									
Mathews County									
Countywide	09	1915EST			0	0	2K		Thunderstorm Wind
Trees and power line down.									
Brunswick County									
Meredithville	09	1920EST			0	0			Hail (1.75)
Emporia County									
Emporia	09	1940EST			0	0			Hail (1.75)
Accomack County									
Onley to Painter	09	1950EST 2000EST			0	0	10K		Thunderstorm Wind
A farm was damaged and cars were moved. One dump truck was overturned. Debris was evident up to one-quarter mile from damage site.									
Chesapeake (C)									
Chesapeake	09	2050EST			0	0	2K		Thunderstorm Wind
Telephone pole down and wires down.									
Westmoreland County									
Kinsale	04	1615EST	0.3	50	0	0	25K		Tornado (F0)
Trees down. Roofs and chimneys damaged.									
Amelia County									
3 N Chula	23	1629EST			0	0			Hail (1.00)
Fluvanna County									
Palmyra	23	1630EST			0	0	2K		Thunderstorm Wind
Large trees down.									
Chesterfield County									
Chesterfield	23	1640EST			0	0	2K		Thunderstorm Wind
Trees down on power lines.									
Louisa County									
Louisa	23	1645EST			0	0			Hail (1.00)
Louisa County									
Louisa	23	1700EST			0	0	2K		Thunderstorm Wind
Trees down.									
Goochland County									
4 NW Hadensville	23	1710EST			0	0			Hail (2.00)
New Kent County									
Quinton	23	1710EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VIRGINIA, East</u>									
New Kent County									
Barhamsville	23	1715EST			0	0	2K		Thunderstorm Wind
									Large trees down.
Louisa County									
Bumpass	23	1720EST			0	0			Hail (1.75)
Goochland County									
Goochland	23	1730EST			0	0			Hail (0.75)
Louisa County									
Bumpass	23	1730EST			0	0	5K		Thunderstorm Wind
									Citizen reported top of silo blown off. Large tree down on shed.
Hanover County									
Countywide	23	1742EST			0	0	2K		Thunderstorm Wind
									Trees down countywide.
Gloucester County									
Countywide	23	1750EST			0	0	2K		Thunderstorm Wind
									Trees down countywide.
Hanover County									
Studley	23	1750EST			0	0			Hail (0.75)
Henrico County									
Short Pump	23	1750EST			0	0			Hail (1.00)
Richmond (C)									
Richmond	23	1750EST			0	0			Hail (1.00)
Williamsburg (C)									
Williamsburg	23	1820EST			0	0	2K		Thunderstorm Wind
									Trees down.
New Kent County									
Countywide	23	1821EST			0	0	2K		Thunderstorm Wind
									Trees down countywide.
James City County									
2 W Grove	23	1825EST			0	0	25K		Thunderstorm Wind
									Large tree down on house in Kingsmill area.
York County									
Poquoson	23	1855EST			0	0			Hail (1.75)
York County									
Seaford	23	1857EST			0	0			Hail (0.75)
Newport News (C)									
Newport News	23	1900EST			0	0	1K		Thunderstorm Wind
									Large tree down.
Virginia Beach (C)									
Cape Henry	23	1915EST			0	0			Thunderstorm Wind (G76)
									Cape Henry Tower reported wind gust of 76 knots (87 mph).
Virginia Beach (C)									
Virginia Beach	23	1920EST			0	0	5K		Thunderstorm Wind
									Windows blown in at an Inn on Shore Drive.
Mecklenburg County									
Clarksville to 1.5 E Finchley	23	2040EST 2045EST			0	0	2K		Thunderstorm Wind
									Trees down just east of Finchley. Power lines down in Clarksville.

VIRGINIA, Extreme Southwest

NONE REPORTED.

VIRGINIA, North

Culpeper County

Jeffersonton

04 1500EST

1

0

Lightning

Man struck by lightning on golf course

Around 4:00 PM EDT, a 37-year-old man was struck by lightning on the South Wales Golf Course near Jeffersonton in extreme

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	

VIRGINIA, North

northern Culpeper County. A line of thunderstorms producing heavy downpours crossed Northern Virginia during the afternoon and was responsible for the fatal bolt of lightning. The victim was standing under a cedar tree on the 17th hold to take refuge from the thunderstorm when the lightning struck. The bolt hit the tree first, then hit the victim in the head and stopped his heart. A witness said the lightning apparently exited the tree near the base, citing burn marks visible on the trunk inches from the surface and around 5 1/2 feet above the ground. The victim was discovered around 4:10 PM by golfers returning to the course. Emergency medical personnel reached the victim around 4:20 PM EDT and were able to restore vital signs, but the victim died around 11:00 PM EDT after his heart failed for a second time. This was Virginia's first known April lightning fatality. M37UT

Orange County

Mine Run	09	1710EST 1715EST			0	0	10K		Thunderstorm Wind
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Trees Downed

Spotsylvania County

West Portion	09	1715EST 1725EST			0	0	10K		Thunderstorm Wind
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Trees Downed and Minor Damage to Roofs

Spotsylvania County

1 NE Paytes to 2.5 SE Paytes	09	1717EST 1723EST	3.5	100	0	0	20K		Tornado (F1)
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Several sheds destroyed, Trees Downed, Minor Damage to Homes

Fredericksburg (C)

Fredericksburg	09	1800EST			0	0	2K		Thunderstorm Wind
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Trees and Power Lines Downed

Between 6:10 PM and 6:25 PM EDT, a line of thunderstorms moved east from Orange County into Spotsylvania County. Strong winds associated with the gust front ahead of the storms produced scattered tree damage in Eastern Orange County and Western Spotsylvania County. Areas affected include Gold Dale, Mine Run, Paytes, Granite Springs, and Porters. Over 100 trees were damaged; some were uprooted, some were snapped, and others lost large branches. The strong winds also bent several home antennas and blew off several roof shingles. A small tornado developed with one of the storms near Mine Run. The tornado first touched down around 6:17 PM EDT on the Orange/Spotsylvania County line in a small community 1 mile north of Paytes. The tornado travelled southeast about 3 1/2 miles and lifted just east of Mastins Corner around 6:23 PM EDT. The average path width was about 100 yards. Much of the damage was rated F0 for 40 to 70 mph winds, but some locations received 70 to 90 mph winds and F1 damage. The F1 damage occurred around 2 miles east of Paytes through a densely wooded area where numerous large trees, both pines and hardwoods, were uprooted or snapped. The hardwoods did not have leaves at the time, so a stronger wind was required to damage them. Eight homes along the path of the tornado sustained minor damage, and seven sheds were damaged or destroyed. Most of the structural damage occurred in a residential community 1 mile northeast of Paytes. The same storm system was also responsible for downing trees and power lines as it passed through the Fredericksburg area. The storm hit Fredericksburg around 7:00 PM EDT and left about 5,000 customers without power.

Frederick County

Hayfield	23	1440EST			0	0	50K		Hail (1.75)
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Frederick County

1 W Winchester Arpt	23	1445EST			0	0	1.5M		Hail (1.75)
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Frederick County

5 NW Winchester Arpt	23	1445EST			0	0	3K		Thunderstorm Wind
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Narrow Path of Uprooted and Snapped Trees and Damage to Trim on Home

Frederick County

Stephens City	23	1446EST			0	0	50K		Hail (1.75)
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Winchester (C)

Winchester	23	1450EST			0	0	2.5M		Hail (2.75)
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Frederick County

1 E Winchester Arpt	23	1452EST			0	0	3M		Hail (3.50)
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Clarke County

Berryville	23	1454EST			0	0	1M		Hail (1.75)
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Clarke County

Boyce	23	1500EST			0	0	50K		Hail (1.50)
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Clarke County

Boyce to 4 E Boyce	23	1500EST 1505EST			0	0	50K		Thunderstorm Wind
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Trees Snapped and Uprooted from Boyce to the Shenandoah River

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	
<u>VIRGINIA, North</u>									
Stafford County									
5 NW Stafford	23	1500EST			0	0	1M		Hail (1.75)
Clarke County									
4 SE Boyce	23	1515EST			0	0	1M		Hail (1.75)
Hail Fell at Mt. Weather on the border of Clarke and Loudoun County									
Fauquier County									
Upperville	23	1520EST			0	0	1M		Hail (1.50)
Hail Size Estimated by Damage									
Loudoun County									
Middleburg	23	1520EST			0	0	2M		Hail (2.75)
Loudoun County									
Aldie	23	1522EST			0	0	2M		Hail (1.50)
Hail Size Estimated by Damage									
Loudoun County									
2 S Arcola	23	1525EST			0	0	3M		Hail (1.75)
Many Cars and Homes Damaged by Hail in South Riding Community									
Prince William County									
9 N Haymarket	23	1525EST			0	0	1M		Hail (1.75)
Fairfax County									
Clifton	23	1530EST			0	0	2M		Hail (1.75)
Fairfax County									
Chantilly	23	1533EST			0	0	2M		Hail (1.25)
Manassas (C)									
Manassas	23	1535EST			0	0	2M		Hail (1.25)
Hail Size Estimated by Damage									
Prince William County									
Woodbridge	23	1540EST			0	0	1M		Hail (1.00)
Fairfax County									
Centreville	23	1542EST			0	0	3M		Hail (1.75)
Fairfax (C)									
Fairfax	23	1543EST			0	0	2M		Hail (1.00)
Fairfax County									
Springfield	23	1545EST			0	0	1M		Hail (1.75)
Fairfax County									
Clifton	23	1547EST			0	0			Funnel Cloud
Fairfax County									
Lorton	23	1550EST			0	0	2M		Hail (2.75)
Fairfax County									
Burke	23	1555EST			0	0	3M		Hail (1.25)
Fairfax County									
2 SW Springfield	23	1600EST			0	0	1M		Hail (2.50)
Fairfax County									
Ft Belvoir	23	1602EST			0	0	1M		Hail (1.25)
<p>A line of thunderstorms developed in West Virginia during the early afternoon and moved rapidly southeast across Northern Virginia. These storms produced very large hail in a 10 mile wide strip from Winchester in Frederick County to Woodbridge in Prince William County from 3:30 PM EDT to 5:00 PM EDT. Winds over 55 MPH also downed trees and power lines in Frederick and Clarke County between 3:30 PM EDT and 4:15 PM EDT. Frederick County spotters reported between 1 3/4 to 3 1/2 inch diameter hail. The rubber membrane roof of the War Memorial Building in Winchester was punctured by hail the size of golf balls, allowing heavy rain to fall inside the structure and cause significant water damage. Numerous cars were damaged by hail, averaging \$1300 in repairs. Winchester city police reported damage to 15 cruisers, and automobile dealers on Valley Avenue reported damage to over 150 cars. Hundreds of other privately owned vehicles received dents and broken windshields. Property owners also reported damage to roofs, siding, windows, and landscaping from the 10 minute deluge. Northwest of Winchester, strong winds left behind a narrow path of uprooted or snapped trees and minor trim damage to a home. Clarke County was the next location in the path of the storm. Hail of up to 1 3/4 inch in diameter tore leaves from trees, damaged siding and shingles on homes, and dented automobiles. Strong winds also snapped or uprooted between Beacon and the Shenandoah River. Next,</p>									

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	

VIRGINIA, North

Southern Loudoun County bore the brunt of the storm. Golfball to baseball sized hail broke store windows and damaged several vehicles in Middleburg. One resident reported the hail fell with such force it broke through fiberglass panels on a shed. Prince William County suffered damage from hail between 1 and 1 3/4 inch in diameter, resulting in damage to cars, roofs, and siding. Much of Western and Southern Fairfax County also received significant damage. Hail up to 2 3/4 inch in diameter was reported around Lorton. Hundreds of cars were dented, several windows and skylights were broken, trees and bushes were stripped of their leaves, siding and shutters were damaged, and roof shingles were chipped. Also, a funnel cloud was reported in Clifton near Highway 28 at 4:47 PM EDT. Damage across Northern Virginia from this storm system was expected to total around \$50 million.

Highland County

North Portion Charlottesville (C)	23	1600EST			0	0			Hail (1.00)
1 N Charlottesville Charlottesville (C)	23	1645EST			0	0			Hail (1.00)
Charlottesville	23	1650EST			0	0	5K		Thunderstorm Wind

Trees Snapped and Power Lines Downed

A thunderstorm formed in East Central West Virginia and moved into Highland County. One half to one inch diameter hail fell across the northern part of the county around 5:00 PM EDT. The storm moved southeast across Northern Augusta County and into Albemarle County by early evening. In Albemarle County the storm produced winds in excess of 55 MPH and 1 inch diameter hail. The wind snapped several trees and knocked down power lines near Charlottesville, leading to power outages for 4,200 customers.

Nelson County

Afton	02 03	1430EST 0600EST			0	0	2K	5K	Wild/Forest Fire
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Fire on Afton Mountain burned over 400 acres

A fire ignited on the base of Afton Mountain in extreme Northern Nelson County around 3:30 PM EDT on the 2nd. It quickly spread up the face of the mountain, driven by strong west winds. Dead vegetation from a winter ice storm and less than normal precipitation led to very dry conditions and this helped to fuel the fire. Nearly 200 firefighters, 5 bulldozers, a hummer, and two helicopters worked through the night to stop the progress of the blaze which threatened several homes on the top of the mountain. The team was able to bring the fire under control by daybreak on the 3rd, and keep all but one roof of a home from catching fire. The fire burned over 400 acres before being extinguished.

VIRGINIA, Northwest

NONE REPORTED.

VIRGINIA, Southwest

Craig County

6 SW New Castle	23	1515EST			0	0			Hail (0.88)
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Thunderstorms on the 23rd produced hail up to nickel size.

Charlotte County

Keysville	09	1835EST			0	0	0		Thunderstorm Wind
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Halifax County

2 WNW Scottsburg	09	1835EST			0	0	0		Thunderstorm Wind
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Halifax County

Scottsburg	09	1840EST			0	0	2K		Thunderstorm Wind
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Halifax County

Clover to 1.5 SE Clover	09	1920EST			0	0	2K		Thunderstorm Wind
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Charlotte County

Charlotte Court Hous	09	1925EST			0	0			Hail (0.75)
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Halifax County

Cluster Spgs	09	1928EST			0	0			Hail (0.75)
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Halifax County

Halifax	09	1928EST			0	0			Hail (0.75)
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Thunderstorms on the evening of the 9th produced damaging winds and hail up to 0.75 inches in diameter.

Thunderstorm winds downed trees in Keysville, and power lines and trees from Clover to 1 1/2 miles southeast of Clover, blocking traffic on Route 360.

Thunderstorm winds downed trees and power lines in Scottsburg, and 2 miles west northwest of Scottsburg, blocking Route 360.

Storm Data and Unusual Weather Phenomena

April 1999

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

VIRGINIA, Southwest

Tazewell County

Richlands 23 1635EST 0 0 **Hail (0.75)**

Tazewell County

Richlands 23 1650EST 0 0 **Hail (1.00)**
Thunderstorms on the afternoon of the 23rd produced hail up to 1 inch in diameter.

Smyth County

Atkins 23 1730EST 0 0 0 **Thunderstorm Wind**
Thunderstorm winds on the evening of the 23rd downed 2 trees in Smyth County.

Alleghany County

Jordan Mines 23 1815EST 0 0 **Hail (0.75)**

Botetourt County

Buchanan 23 1830EST 0 0 **Hail (0.88)**

Bedford County

1.5 SE Forest 23 1845EST 0 0 0 **Thunderstorm Wind**

Lynchburg (C)

Lynchburg 23 1900EST 0 0 0 **Thunderstorm Wind**

Campbell County

Rustburg 23 1930EST 0 0 0 **Thunderstorm Wind**

Halifax County

3.5 SE Nathalie to Nathalie 23 1945EST 0 0 **Hail (0.75)**

Halifax County

North Portion 23 2010EST
2025EST 0 0 12K **Thunderstorm Wind**

Charlotte County

Red Oak 23 2025EST 0 0 2K **Thunderstorm Wind**
Thunderstorms the evening of the 23rd produced hail up to 0.88 inches in diameter and damaging winds.

Thunderstorm winds downed trees 1 1/2 miles southeast of Forest, trees and power lines in Lynchburg, trees onto Route 24 in Rustburg, and trees and power lines in Red Oak.

Thunderstorm winds downed numerous trees and power lines across northern Halifax County leaving over two thousand homes without power. Downed trees blocked parts of Route 720 and crushed an automobile. Significant wind damage was done to a mobile home in Clover.

VAZ016-032-032>033 Carroll - Patrick - Franklin

12 0600EST
1100EST 0 0 14K **High Wind**

High winds during the morning of the 12th blew over a tractor trailer truck on Route 58 in The Meadows of Dan, and a mobile home in Cruzes Store, both in Patrick County. High winds blew over two tractor trailer trucks 5 miles south of Fancy Gap on Interstate Route 77 in Carroll County, and trees and power lines across Franklin County, blocking some roads.

WASHINGTON, Northeast

WAZ031-037>038 Northeast Blue Mountains - Northeast Mountains - Okanogan Highlands

04 0200PST 0 0 **Heavy Snow**
09 1200PST

There were several reports of heavy snow in the mountains of extreme eastern Washington, specifically on the 4th and the 9th where 4-10 inches of snow were reported in a 12 hour period in each event. The locations of the heavy snow included near Chewelah and Republic along with a portion of the Blue Mountains.

Spokane County

5 W Mead 27 1330PST
1340PST 0.1 .1 0 0 0 0 **Tornado (F0)**

A weak, cold core tornado touched down briefly in a farm field on the outskirts of Mead.

Spokane County

4 S Freeman 27 1735PST
1740PST 0 0 0 0 **Funnel Cloud**

A cold core funnel cloud was spotted over a farm field outside of Freeman.

Storm Data and Unusual Weather Phenomena

April 1999

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

NONE REPORTED.

WASHINGTON, Southeast

NONE REPORTED.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

Grant County

Bayard	11	1352EST		0	0			Hail (1.00)
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Moist air in place across the Eastern Panhandle in combination with warm temperatures led to the development of thunderstorms during the early afternoon. These thunderstorms produced heavy downpours, lightning, and gusty winds. One of the strongest thunderstorms moved across Grant County and produced one inch diameter hail in Bayard at 2:52 PM EDT.

Mineral County

Keyser	23	1358EST		0	0		Hail (0.88)
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Mineral County

Headsville	23	1405EST		0	0		Hail (0.75)
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Hampshire County

Capon Bridge	23	1425EST		0	0		Hail (1.50)
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Hampshire County

Romney	23	1425EST		0	0		Hail (1.50)
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Hampshire County

Augusta	23	1430EST		0	0		Hail (1.25)
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Hampshire County

Augusta	23	1430EST		0	0	0.50K	Thunderstorm Wind
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Tree Downed Across Route 50

Pendleton County

Upper Track	23	1430EST		0	0	0.50K	Thunderstorm Wind
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Tree Downed Across Reeds Creek Road

Hampshire County

Capon Bridge	23	1435EST		0	0		Hail (2.75)
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A severe thunderstorm developed in the Appalachian Mountains of North Central West Virginia during the early afternoon and moved rapidly eastward into the Eastern Panhandle. This supercell storm produced large hail in a 10 mile wide strip from Keyser in Mineral County to Capon Bridge in Hampshire County from 2:55 PM to 3:35 PM EDT. Near Romney, the hail broke off small limbs and pelted shrubs. In Hampshire County, winds over 55 MPH pushed a tree over onto U.S. Route 50 near Augusta and blew over an electric service pole near a mobile home. The wind also downed large branches and snapped trees near Hanging Rock. A separate thunderstorm with strong winds also downed trees on Reeds Creek Road near Upper Track in Pendleton County around 3:30 PM EDT.

WEST VIRGINIA, North

Ohio County

Wheeling	09	1329EST 1339EST		0	0	30K	Thunderstorm Wind (G50)
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Strong thunderstorm winds blew through Wheeling, with one wind gust to 50 knots recorded at the Wheeling Airport. The strong winds blew the roof off of one business in downtown Wheeling, and partially ripped the facade off of another. Power outages were reported across much of the city, with the Fulton, Woodsdale and Elm Grove sections of Wheeling especially hard hit.

Marshall County

Fairview	09	1330EST		0	0		Thunderstorm Wind (G50)
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A spotter estimated a 50 knot thunderstorm wind gust.

Marshall County

Moundsville	09	1335EST		0	1	3K	Thunderstorm Wind (G50)
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Thunderstorm winds blew in a window in a classroom at Moundsville Junior High School, injuring a teacher. The teacher received cuts to her hands and face, but was not seriously injured.

Ohio County

Wheeling	09	1335EST		0	0		Hail (1.00)
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Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>WEST VIRGINIA, North</u>									
Brooke County									
Wellsburg	09	1400EST			0	0	5K		Thunderstorm Wind (G50)
									Thunderstorm winds downed several trees and power lines.
Preston County									
Macomber	11	1305EST			0	0			Hail (0.88)
WVZ002>003-021>023									
	16	1110EST 1500EST			0	0	30K		High Wind (G51)
									Southwesterly winds gusted to over 50 knots as a strong area of low pressure passed across the area. Numerous trees and power lines were blown down by the high winds across portions of northern West Virginia. A wind gust to 51 knots was recorded at the Wheeling Airport in Ohio County. In Fairmont, Marion County, the winds blew a large tree onto a car, trapping two people for an hour. There were no injuries reported.
Marshall County									
Glendale	23	1210EST			0	0			Hail (1.75)
Marshall County									
Moundsville	23	1218EST			0	0			Hail (2.00)
Monongalia County									
Tyrone	23	1310EST			0	0			Hail (1.00)
Preston County									
Bruceeton Mills	23	1325EST			0	0			Hail (1.00)
Tucker County									
Red Creek	23	1420EST			0	0			Hail (1.00)
<u>WEST VIRGINIA, Southeast</u>									
Summers County									
5 SE Hinton	23	1440EST			0	0			Hail (0.75)
Monroe County									
Greenville	23	1450EST			0	0			Hail (0.75)
Mercer County									
Bluefield	23	1453EST			0	0			Hail (0.75)
Greenbrier County									
Lewisburg	23	1740EST			0	0			Thunderstorm Wind (G50)
Mercer County									
Bluefield	23	1849EST 1859EST			0	0			Hail (0.75)
									Thunderstorms during the afternoon of the 23rd produced hail up to 0.75 inches in diameter and a wind gust to 58 mph.
<u>WEST VIRGINIA, West</u>									
Mingo County									
Varney	08	1555EST			0	0			Hail (0.75)
Mingo County									
Varney	08	1605EST			0	0	2K		Thunderstorm Wind
									Large tree branches were knocked down.
Mingo County									
Gilbert	08	1615EST			0	1	5K		Thunderstorm Wind
									High winds blew the roof off a baseball field dugout, then caused the cinder block wall to fall. The visiting female coach of the Williamson High School girls softball team was injured. She broke some ribs and had a punctured lung. The girls in the dugout were not hurt.
Wood County									
Parkersburg Arpt	09	1312EST			0	0			Thunderstorm Wind (G52)
Jackson County									
Cottageville	09	1352EST			0	0	3K		Thunderstorm Wind
									Numerous trees were downed along Route 33.

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	
WEST VIRGINIA, West									
Cabell County									
Lesage	09	1355EST			0	0	2K		Thunderstorm Wind
									Several trees were blown down along Route 2.
Ritchie County									
Pike to Petroleum	09	1400EST			0	0	2K		Thunderstorm Wind
									Trees were downed along Route 16 and County Route 11.
Wirt County									
Palestine to Munday	09	1400EST 1405EST			0	0	5K		Thunderstorm Wind
Kanawha County									
Handley	09	1425EST			0	0	2K		Thunderstorm Wind
Taylor County									
Countywide	09	1445EST			0	0	5K		Thunderstorm Wind
									Trees or large branches were blown down in scattered locations throughout the county.
Barbour County									
Philippi to Belington	09	1455EST			0	0	5K		Thunderstorm Wind
									Trees and power poles were knocked down.
Pocahontas County									
4 NW Mill Pt	09	1600EST			0	0	1K		Thunderstorm Wind (G61)
									A 70 mph wind gust was measured at the Cranberry Glade Nature Center. The facility is located at an elevation of 3600 feet.
WVZ005>011-013>020-024>040-046>047									
	16	1300EST 1700EST			0	0			Wind Wind gusts of 35 to 45 mph were common as a low pressure storm system lifted northeast, through northern Indiana. Huntington measured 44 mph, Charleston and Parkersburg had 43 mph, Beckley 42 mph, and Clarksburg saw 40 mph.
Doddridge County									
West Union	23	1300EST			0	0			Hail (0.88)
Tyler County									
Shirley	23	1305EST			0	0	5K		Hail (1.75)
Harrison County									
Clarksburg	23	1315EST			0	0			Hail (0.75)
Harrison County									
Clarksburg	23	1328EST			0	0			Hail (1.00)
Harrison County									
Bridgeport	23	1330EST			0	0			Hail (1.50)
									Hail accumulated to a depth of 3 inches.
Mingo County									
Naugatuck	23	1330EST			0	0	5K		Thunderstorm Wind
									Large tree branches were blown down.
Barbour County									
Philippi to Belington	23	1335EST 1350EST			0	0	2M		Hail (1.50)

The county emergency manager reported 172 residences were damaged, mostly from the hail. A few locations had street flooding from the downpour and gusty winds. The Belington Industrial Park sustained damage. The most concentrated damage was around Calhoun, Corley, and Mount Liberty. Estimated of hail damage to upwards of 500 vehicles were received. Over 100 of these vehicles were located at the Philippi Barbour High School. A few windows were also broken at the high school.

Storm Data and Unusual Weather Phenomena

April 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>									
Mingo County									
Williamson	23	1344EST			0	0			Hail (1.75)
Wyoming County									
Hanover	23	1400EST			0	0	100K		Hail (1.75)
Vehicles, mobile homes, and recreational vehicles were dented.									
Randolph County									
3 N Elkins	23	1410EST			0	0			Hail (1.75)
Mcdowell County									
Davy	23	1430EST			0	0			Hail (0.75)
Randolph County									
Gilman	23	1455EST			0	0	75K		Thunderstorm Wind
A roof was blown off a barn, while trees fell in the vicinity.									
Barbour County									
4 NE Moatsville	23	1645EST			0	0			Hail (0.75)
Two separate thunderstorm complexes with large hail developed ahead of a strong cold front. One complex was across the north central counties, while the other was along the southern border counties. The most damage occurred in Barbour County.									
<u>WISCONSIN, Extreme Southwest</u>									
NOT RECEIVED.									
<u>WISCONSIN, Northeast</u>									
Waushara County									
3.8 W Wautoma	10	2330CST			0	0	3K		Lightning
Waushara County									
Wautoma	10	2330CST			0	0	75K		Lightning
Lightning struck a tree at Camp Phillip, then traveled to a nearby outbuilding and house, causing damage to a fuse box and outlets. The channel in the ground was 3 feet wide, 18 inches deep and 100 yards long. At about the same time, lightning caused serious damage to equipment at a cable television company.									
Vilas County									
Boulder Jet	03	0130CST			0	0	75K		Lightning
Outagamie County									
Kimberly	03	0705CST			0	1	0.75K		Lightning
A nearly stationary front across Wisconsin and an upper atmospheric system combined with unstable air, resulting in an area of showers and thunderstorms that moved across the state on the morning of April 3rd. In Boulder Junction, Vilas county, lightning struck a 125 foot pine tree causing its trunk to explode. The lightning created a track several inches deep as it traveled through the ground to an attached garage. When it reached the garage it blew the phone and power line connections off the wall and started the electrical wiring on fire in the garage attic. The phone and electrical wiring in the house were so charged they scorched the walls around them. Natural gas lines leading to the house were destroyed. In Kimberly, Outagamie county, a man was cut by glass shards and wood splinters when lightning blew apart a tree next to the house in which he was sleeping.									
Marathon County									
7 S Stratford	05	2114CST			0	0	1K		Lightning
Lightning struck a storage shed in the town of Day, Marathon county, causing a fire that destroyed the shed.									
<u>WISCONSIN, Northwest</u>									
NONE REPORTED.									
<u>WISCONSIN, Southeast</u>									
Dane County									
3 N Mt Horeb to Mt Horeb	03	0400CST 0800CST			0	0			Urban/Sml Stream Fld
Kenosha County									
Countywide	03	0400CST 0800CST			0	0			Urban/Sml Stream Fld
Milwaukee County									
Wauwatosa	03	0400CST 0800CST			0	0			Urban/Sml Stream Fld

Storm Data and Unusual Weather Phenomena

April 1999

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

Lander of 29 inches on the 22nd. Storm total at Lander was 53 inches, which was also a record. More than 4 feet of snow fell in Sinks Canyon west of Lander. Other storm totals included 23 inches in Hudson and 22 inches in Riverton. Many roads were closed due to poor visibility caused by falling and blowing snow. Downed power lines and power outages were widespread.

Fremont County

8 E Shoshoni to 9 E Shoshoni	28	1615MST 1620MST	1	100	0	0			Tornado (F0)
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Weak tornado on the ground for 3 to 5 minutes over open country. Path length and width are estimated.

Fremont County

1 N Moneta	28	1650MST 1651MST	0.1	50	0	0			Tornado (F0)
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Brief tornado near Moneta.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

WYZ098>099 Northeast Bighorn Mountains - Sheridan Foothills

01		0000MST 1800MST			0	0			Heavy Snow
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A cold front dropped south through Montana and Northern Wyoming on the afternoon of March 31. That evening a strong low pressure system crossed the Great Basin and moved into the Northern Plains. This system spread wrap around moisture which produced heavy snowfall on the morning of April 1 as it produced strong upslope in North Central Wyoming while overriding the cold air at the lower levels. Burgess junction received 18 inches of new snow with this system. At lower elevations in Sheridan County the Sheridan Airport picked up 9 inches of snowfall. Story received 10 inches while 6 inches fell at Dayton.

WYZ098 Northeast Bighorn Mountains

09		1900MST			0	0			Blizzard
10		1400MST							

WYZ099 Sheridan Foothills

10		0400MST 0600MST			0	0			High Wind (G45)
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A low pressure system developed over Utah during the afternoon of April 9 and moved into Wyoming that evening. This system crossed Wyoming overnight then moved into South Dakota. The storm produced between 18 and 36 inches of new snow in the Burgess Junction area. The heavy snow combined with northerly winds between 25 and 50 mph to produce blizzard conditions in the northeast Big Horn Mountains. This system also produced northwest winds sustained at 40 mph twice during the morning of April 10 at the Sheridan airport.

WYZ098 Northeast Bighorn Mountains

22		1500MST			0	0			Heavy Snow
23		0700MST							

Moisture rotating around an upper low in the Great Basin brought heavy snowfall to the Northeast Big Horn Mountains of North Central Wyoming. From 18 to 24 inches of new snow was reported at Lake Sibley, and 8 inches of new snow fell at Burgess Junction.

Sheridan County

12 SE Sheridan	28	1741MST			0	0			Hail (1.75)
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Golf ball sized hail was reported between Sheridan and Ucross

WYOMING, Northeast

WYZ054>057 Gillette - South Campbell - Moorcroft - Wyoming Black Hills

01		0000MST 1400MST			0	0			Winter Storm
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A strong low pressure system over the Rocky Mountains moved out over the Central Plains. The associated cold front brought 6 to 12 inches of snow over portions of northeastern Wyoming

WYZ054 Gillette

02		2000MST			0	0			Winter Storm
03		1200MST							

A storm that developed in Colorado moved out over the Central Plains bringing with it 6 inches of new snow to areas in northeastern Wyoming.

WYOMING, Southeast

WYZ060-063>064-068 Niobrara - Snowy Range - North Laramie Range - Goshen

01		0345MST			0	0			Winter Storm
02		2145MST							

Storm Data and Unusual Weather Phenomena

April 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

Heavy snow fell over portions of east central Wyoming and the southeastern mountains of Wyoming. 11-13 inches of snow fell in the Lusk vicinity with 6 to 8 inches in Torrington, Wy. 5 to 6 inches were reported in the southeastern mountains.

WYZ059>060-062-064>070 **Converse - Niobrara - North Carbon - North Laramie Range - Laramie Valley - Laramie Range - Platte - Goshen - Cheyenne Foothills - Pine Bluffs**

08 **0430MST** **0** **0** **10K** **High Wind**
1800MST

High winds were reported across much of southeastern Wyoming. Wind speeds of 40 to 60 mph were common, with gusts to 69 mph reported in Cheyenne, and gusts to 74 mph at Buford, in the foothills west of Cheyenne.

WYZ066-068>070 **Laramie Range - Goshen - Cheyenne Foothills - Pine Bluffs**

10 **0440MST** **0** **0** **High Wind (G58)**
1800MST

High winds blew across southeast Wyoming during the day with winds of 40 to 55 mph common. Gusts to 65 mph were reported at Cheyenne with gusts to near 80 mph reported in the foothills west of Cheyenne.

WYZ061 **Southwest Carbon**

16 **1300MST** **0** **0** **Heavy Snow**
1800MST

Heavy snow fell over parts of the Snowy Range mountains. 6 to 8 inches fell in just a couple of hours 20 miles southeast of Saratoga, Wy.

WYZ061-063>064-066 **Southwest Carbon - Snowy Range - North Laramie Range - Laramie Range**

22 **0430MST** **0** **0** **Winter Storm**
23 **1100MST**

Heavy snow fell over parts of south central and southeast Wyoming. Snowfall of 12 to 18 inches was reported in the mountains with Rawlins, Wyoming receiving 8 to 10 inches.

WYZ063-066-069 **Snowy Range - Laramie Range - Cheyenne Foothills**

25 **0800MST** **0** **0** **Heavy Snow**
1330MST

Heavy snow fell over the higher elevations of southeast Wyoming. Cheyenne recorded from 6 to 8 inches of snow with around 10 inches reported in the Laramie range west of Cheyenne.

WYZ066-069 **Laramie Range - Cheyenne Foothills**

29 **0930MST** **0** **0** **20K** **Flood**
30 **2200MST**

Minor flooding occurred in parts of the Laramie range into the Cheyenne foothills as a result of snowmelt and around 2 inches of rainfall. Flooding was reported along parts of Crow Creek in south Cheyenne with other minor flooding reported along Lodgepole Creek northwest of Cheyenne.

Storm Data and Unusual Weather Phenomena

April 1998

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

TENNESSEE, Central

Wayne County

11 S Clifton to 10.7 SE Waynesboro	16	1550CST 1615CST	23	1760	3	6	4M		Tornado (F4)
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The tornado killed 3 people in Wayne county. 2 females, their ages 75 and 57, were killed in a modular home on Lay Creek Rd. Another female, age 69, was killed on Lay Creek Road in a wooden frame home. The tornado left nothing but the foundation. A lumber yard was destroyed. Many trees were down in the path of the tornado. Many houses and mobile homes were destroyed. 34 homes were completely destroyed, 14 homes had major damage and 22 had minor damage. . F75MH, F57MH, F69PH

Lawrence County

5.8 WSW Deerfield to 5.3 E Summertown	16	1615CST 1705CST	22.7	1760	0	21	4M		Tornado (F5)
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Many fine homes, some even brick, were completely leveled. Trees were uprooted or blown down, power lines were down, 75 utility poles were blown down around the county. People who were at their homes went to the basement, or in a closet, or in a bathroom. The EMA report of a one ton Dodge flatbed truck, which weighs almost 5000 pounds, being hurled 20 miles, could not be confirmed. Therefore this account should be discounted. However, the EMA director verified a sedan being carried 1/2 mile. A tree was debarked by the flying debris. A 200 yard wide path of pasture land had grass pulled out. Clumps of dirt was pulled up from the ground. Several livestock was killed.

Giles County

5.8 W Yokley to 2.1 NNE Yokley	16	1705CST 1710CST	6.9	800	0	1	1M		Tornado (F4)
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The most extensive damage was north of Yokley. There were downed trees and power lines, a ruptured gas tank, cars overturned, and homes damaged. 5 homes and 8 mobile homes were destroyed in Giles county.

Maury County

6.8 SW Culleoka to 6.3 NE Culleoka	16	1710CST 1730CST	16.8	800	0	8	4M		Tornado (F3)
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The heaviest damage was in the Culleola-Tice Town area. An 18 wheeler was blown over. Many homes were damaged, trees and power lines were down. Several trailers were destroyed or damaged.

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Faribault County

Elmore	15	1325CST			0	0	10M		Thunderstorm Wind (G60)
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20 to 40 homes damaged. Estimated windspeed. Damage estimate for entire county.

Faribault County

Frost	15	1327CST			0	0			Thunderstorm Wind (G65)
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Doors blown in at fire station. Estimated windspeed.

Martin County

3 SW Fairmont	15	1330CST			0	0	1M		Thunderstorm Wind (G55)
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Grain bin blown over. Estimated windspeed. Vehicle damage due to hail.

Faribault County

1 S Blue Earth	15	1335CST			0	0			Hail (0.75)
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Faribault County

Blue Earth	15	1400CST			0	0			Hail (0.75)
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Blue Earth County

Beauford	15	1401CST			0	0			Hail (0.75)
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Strong winds also blew four semitrailers off road.

Faribault County

Blue Earth	15	1410CST	0.1	50	0	0			Tornado (F1)
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Brief touchdown tore roof off metal structure at canning plant.

Nicollet County

North Mankato	15	1410CST			0	0	500K		Thunderstorm Wind (G55)
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Trees and power lines blown over. Estimated windspeed. Vehicle damage from wind-driven hail.

Blue Earth County

3 E St Clair	15	1415CST			0	0			Thunderstorm Wind (G61)
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Barn flattened. Machine shed and grain bin destroyed. Estimated windspeed.

Blue Earth County

3 WSW St Clair	15	1415CST			0	0			Thunderstorm Wind (G61)
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Garage destroyed. Significant damage to outbuildings. Debris scattered up to a mile northeast of damage site. Estimated windspeed.

Nicollet County

Lafayette	15	1415CST			0	0			Thunderstorm Wind (G55)
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Trees blown onto cars. Estimated windspeed.

Blue Earth County

Mankato	15	1425CST			0	1			Thunderstorm Wind (G61)
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Measured at law enforcement center. Extensive tree damage. Windows blown out. Semitrailer blown over on highway 14 injuring one person.

Blue Earth County

1 NE Mankato	15	1425CST			0	0	20M		Thunderstorm Wind (G61)
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Trees down. Roof damage. Estimated windspeed. Damage estimate for entire county.

Le Sueur County

5 S Le Center	15	1450CST			0	0			Thunderstorm Wind (G61)
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Trees down. Estimated windspeed.

Le Sueur County

Montgomery	15	1500CST			0	0			Thunderstorm Wind (G61)
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Trees down. Windows blown out. Estimated windspeed.

Scott County

1 E New Prague	15	1503CST			0	0			Hail (0.88)
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Le Sueur County

5 W New Prague	15	1504CST			0	0	20M		Hail (0.88)
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Numerous houses and vehicles damaged by wind-driven hail. Damage estimate for entire county.

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Sibley County

9 ESE Green Isle to Green Isle	15	1505CST			0	0			Thunderstorm Wind (G61)
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2.5 foot diameter trees blown down. Estimated windspeed.

Mcleod County

4.5 N Silver Lake	15	1510CST 1512CST	0.1	50	0	0	500K		Tornado (F1)
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Brief tornado touchdown destroying 6 farm buildings and damaged homestead. Debris hurled over nearby Butternut Lake. Posts driven 2 feet into the ground.

Carver County

Cologne	15	1513CST			0	0			Hail (1.00)
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Carver County

Cologne	15	1513CST			0	0			Thunderstorm Wind (G52)
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Scott County

Prior Lake	15	1517CST			0	0			Hail (2.00)
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Carver County

Waconia	15	1520CST			0	0			Thunderstorm Wind (G61)
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Large trees blown over. Estimated windspeed.

Meeker County

Cedar Mills	15	1520CST			0	0			Thunderstorm Wind (G55)
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Trees blown down. Estimated windspeed.

Wright County

Howard Lake	15	1520CST			0	0			Thunderstorm Wind (G55)
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Trees and power lines down. Estimated windspeed.

Dakota County

Burnsville	15	1521CST			0	0			Thunderstorm Wind (G61)
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Windows blown in. Estimated windspeed.

Scott County

Savage	15	1521CST			0	0	170M		Thunderstorm Wind (G61)
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Large hail propelled by strong winds resulted in widespread roof and house damage. Windows at public works blown out. Roof damage to library and schools. Damage estimate for entire county.

Hennepin County

Eden Prairie	15	1522CST			0	0			Thunderstorm Wind (G52)
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Measured at Flying Cloud Airport.

Scott County

Savage	15	1523CST			0	0			Hail (0.75)
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Dakota County

Farmington	15	1524CST			0	0			Thunderstorm Wind (G61)
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Scott County

Savage	15	1524CST			0	0			Hail (1.75)
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Hennepin County

Bloomington	15	1525CST			0	0	450M		Hail (0.75)
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Severe damage to automobile dealership. Damage estimate for entire county.

Hennepin County

Eden Prairie	15	1525CST			0	0			Hail (0.75)
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Measured at Flying Cloud Airport.

Meeker County

3 W Dassel	15	1525CST			0	0	100K		Thunderstorm Wind (G65)
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Semitrailer blown off highway 12. Estimated windspeed.

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Dakota County

Eagan 15 1527CST 0 0 Hail (0.75)

Scott County

Shakopee 15 1527CST 0 0 Hail (0.75)

Dakota County

Burnsville 15 1529CST 0 0 100M Hail (1.00)
Widespread damage to houses and vehicles by wind driven hail. Damage estimate for entire county.

Carver County

Victoria 15 1530CST 0 0 5M Thunderstorm Wind (G60)
Windows broken. Trees blown down. Partial structural damage to building. Scattered areas damaged to wind driven hail. Estimated windspeed. Damage estimate for entire county.

Dakota County

3 S Lakeville 15 1530CST 0 0 Thunderstorm Wind (G55)
2 foot diameter trees blown down. Estimated windspeed.

Hennepin County

Eden Prairie 15 1530CST 0 0 Hail (1.00)

Hennepin County

Edina 15 1530CST 0 0 Hail (1.25)
5 foot diameter trees also blown down in possible microburst. Some trees snapped in half.

Hennepin County

Long Lake 15 1530CST 0 0 Thunderstorm Wind (G55)
1 foot diameter trees blown down. Estimated windspeed.

Hennepin County

Minneapolis 15 1530CST 0 0 Hail (1.50)

Hennepin County

Minneapolis 15 1530CST 0 0 Thunderstorm Wind (G54)
Measured at Minneapolis/St. Paul International Airport.

Hennepin County

Mound 15 1530CST 0 0 Thunderstorm Wind (G55)

Stearns County

10 S St Cloud 15 1530CST 0 0 Thunderstorm Wind (G55)
1 foot diameter trees blown down. Estimated windspeed.

Stearns County

10 SW St Cloud 15 1530CST 0 0 1M Thunderstorm Wind (G60)
Roof damage. Trees down. Estimated windspeed.

Hennepin County

Minnetonka 15 1532CST 0 0 Hail (0.75)
Strong winds also knocked down trees.

Hennepin County

Hopkins 15 1533CST 0 0 Hail (1.00)

Wright County

Annandale 15 1533CST 0 0 Thunderstorm Wind (G55)
Trees and power lines down. Estimated windspeed.

Hennepin County

Wayzata 15 1535CST 0 0 Thunderstorm Wind (G61)
Hundreds of trees blown down. Damage to homes and garages. Estimated windspeed.

Ramsey County

St Paul 15 1535CST 0 0 Hail (1.00)

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Hennepin County

Minneapolis	15	1536CST			0	0			Hail (1.25) Damage to airplanes at Minneapolis/St. Paul International Airport.
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Hennepin County

Corcoran	15	1538CST			0	0			Thunderstorm Wind (G65) Roof blown off business. Police trailer toppled.
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Ramsey County

St Paul	15	1538CST			0	0			Thunderstorm Wind (G61) Trees down at Snelling and Interstate 94. Estimated windspeed.
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Ramsey County

St Paul	15	1539CST			0	0			Thunderstorm Wind (G61) Measured at Regents Hospital.
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Anoka County

Fridley	15	1540CST			0	0	1M		Hail (1.00) Scattered damage from wind driven hail.
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Anoka County

Spring Lake Park	15	1540CST			0	0	600K		Thunderstorm Wind (G65) Roof ripped off apartment building.
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Hennepin County

Golden Vly	15	1540CST			0	0			Thunderstorm Wind (G60) Trees down. Estimated windspeed.
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Ramsey County

Roseville to North Oaks	15	1540CST 1550CST	7	350	0	0	150M		Tornado (F1) Tornado touched down in Roseville, and travelled straight north through Shoreview, North Oaks, Lino Lakes, eventually lifting off in Blaine in Anoka County. 7 houses destroyed, 102 severely damaged. Damaged estimate for entire county including widespread wind driven hail.
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Stearns County

Albany to 1.5 NE St Francis	15	1540CST 1546CST	9	33	1	30	3M		Tornado (F1) Tornado struck outdoor flea market in Albany, blowing numerous recreational vehicles over. One man was killed when a recreational vehicle was blown on top of him. 30 others were injured. A farmstead was severely damaged northeast of St. Francis just before liftoff of the tornado. M78OU
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Wright County

South Haven	15	1542CST			0	0			Thunderstorm Wind (G55) Power lines down. Estimated windspeed.
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Wright County

Buffalo	15	1545CST			0	0			Thunderstorm Wind (G60) Airplane flipped over. Trees knocked down. Estimated windspeed.
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Wright County

St Michael	15	1547CST			0	0	2M		Thunderstorm Wind (G60) Trailer office blown over. Trees also blown over. Estimated windspeed. Damage estimate for entire county.
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Anoka County

Lino Lakes to Blaine	15	1550CST 1555CST	5	350	0	0	1M		Tornado (F1) See narrative for Ramsey County.
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Anoka County

Ramsey	15	1550CST			0	0			Lightning House struck by lightning.
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Sherburne County

Elk River	15	1555CST			0	0	3M		Thunderstorm Wind (G60)
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Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Meeker County

1 SW Cedar Mills 18 1747CST 0 0 **Hail (0.75)**
Hail damage to crops. Estimated hail size.

Redwood County

1 N Morgan 18 1750CST 0 0 **Thunderstorm Wind (G56)**
Roof off hog farm.

Meeker County

Kingston 18 1802CST 0 0 **Hail (0.75)**

Meeker County

Dassel 18 1805CST 0 0 **Thunderstorm Wind (G52)**

Redwood County

Morgan 18 1805CST 0 0 **Thunderstorm Wind (G56)**
Bridge plank blown into LP tank, knocking the valve off the LP tank. Vapors forced the evacuation of 2 city blocks.

Wright County

Cokato 18 1809CST 0 0 **Thunderstorm Wind (G56)**

Mcleod County

6 NW Hutchinson 18 1810CST 0 0 **Hail (0.75)**

Renville County

Hector 18 1830CST 0 0 **Hail (0.75)**

Hennepin County

Shorewood 18 1851CST 0 0 **Funnel Cloud**

Wright County

Howard Lake 18 1905CST 0 0 **Thunderstorm Wind (G52)**

Hennepin County

Minnetonka 18 1910CST 0 0 **Funnel Cloud**

Mcleod County

Winsted 18 1915CST 0 0 **Thunderstorm Wind (G70)**

Todd County

Burtrum 18 1915CST 0 0 **Hail (0.75)**

Kandiyohi County

Lake Lillian 18 1920CST 0 0 **Hail (1.75)**

Wright County

South Haven 18 1923CST 0 0 **Thunderstorm Wind (G50)**
Trees down. Estimated windspeed.

Stearns County

Richmond 18 1930CST 0 0 **Hail (0.75)**

Stearns County

3 S Albany 18 1945CST 0 0 **Hail (0.88)**

Brown County

New Ulm 18 2005CST 0 0 **Hail (1.75)**

Nicollet County

Courtland 18 2020CST 0 0 **Hail (1.75)**

Stearns County

Rockville 18 2023CST 0 0 **Hail (0.75)**

Blue Earth County

2 S Cambria 18 2030CST 0 0 **Hail (1.75)**

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Blue Earth County									
2 S Cambria	18	2030CST			0	0			Hail (1.75)
Dakota County									
Mendota Hgts	18	2030CST			0	0			Hail (1.00)
Blue Earth County									
Judson	18	2040CST			0	0			Hail (1.75)
Goodhue County									
5 SW Goodhue	18	2050CST			0	0			Thunderstorm Wind (G50)
		Estimated wind.							
Goodhue County									
Cannon Falls	18	2055CST			0	0			Thunderstorm Wind (G55)
		Trees blown down. Estimated windspeed.							
Goodhue County									
5 SE Goodhue	18	2055CST			0	0			Thunderstorm Wind (G55)
		Power lines down. Estimated windspeed.							
Nicollet County									
5 NW North Mankato	18	2055CST			0	0			Hail (0.88)
Scott County									
5 E Jordan	18	2055CST			0	0			Hail (0.75)
Nicollet County									
5 NW North Mankato	18	2100CST			0	0			Hail (1.75)
Nicollet County									
North Mankato	18	2105CST			0	0			Hail (1.75)
		Occurred at television station.							
Waseca County									
5 N Janesville	18	2247CST			0	0			Hail (0.75)
Stearns County									
Avon	30	1705CST			0	0			Hail (1.00)
Stearns County									
St Joseph	30	1715CST			0	0			Hail (1.25)
Stearns County									
Sartell	30	1725CST			0	0			Hail (1.75)
Benton County									
1 N Sauk Rapids	30	1730CST			0	0			Hail (0.75)
Mille Lacs County									
4 NW Princeton	30	1810CST			0	0			Hail (0.75)
Isanti County									
Dalbo	30	1825CST			0	0			Hail (0.75)
Kandiyohi County									
6 W New London	30	1843CST			0	0			Hail (0.75)
Lac Qui Parle County									
2 SW Madison	30	1845CST			0	0			Hail (1.75)
Lac Qui Parle County									
4 W Madison	30	1850CST			0	0			Hail (1.75)
Kandiyohi County									
Spicer	30	1854CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

May 1998

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

ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Isanti County

4 N Cambridge 30 1855CST 0 0 **Hail (0.75)**

Stearns County

2 NE Belgrade 30 1900CST 0 0 **Hail (0.88)**

Lac Qui Parle County

5 E Dawson 30 1910CST 0 0 **Hail (1.75)**

Lac Qui Parle County

1 NE Dawson 30 1910CST 0 0 **Hail (2.75)**

Stearns County

Avon 30 1930CST 0 0 **Hail (1.25)**

Lac Qui Parle County

Dawson 30 1933CST 0 0 **Hail (1.25)**

Many cars damaged at automobile lots. Roof, siding and shed damage.

Chippewa County

1 N Montevideo 30 1936CST 0 0 **Hail (1.75)**

Benton County

Rice 30 1940CST 0 0 **Hail (1.75)**

Stearns County

St Stephen 30 1942CST 0 0 **Hail (1.75)**

Stearns County

2 S St Stephen 30 1945CST 0 0 **Hail (1.00)**

Benton County

4 SE Rice 30 1950CST 0 0 **Hail (1.25)**

Yellow Medicine

County

Canby 30 2015CST 0 0 **Thunderstorm Wind (G65)**

Trees and powerlines blown down. Barns destroyed. Minor damage to high school. Grain bin also blown down in Porter. Estimated windspeed.

Yellow Medicine

County

Granite Falls 30 2015CST 0 0 **Hail (0.75)**

Kandiyohi County

4 SW Willmar 30 2020CST 0 0 **Hail (0.75)**

Redwood County

Belview 30 2020CST 0 0 **Thunderstorm Wind (G55)**

Power lines down. Estimated windspeed.

Brown County

Essig 30 2030CST 0 0 **Thunderstorm Wind (G65)**

Roof damage. Estimated windspeed.

McLeod County

7 E Fernando 30 2107CST 0 0 **Thunderstorm Wind (G60)**

Barn blown down. Damage to house. Estimated windspeed.

McLeod County

Glencoe 30 2110CST 0 0 **Thunderstorm Wind (G60)**

Trees down. Roofs ripped off homes. Barns and sheds blown down in vicinity. Semitrailer blown on its side. Estimated windspeed.

Watonwan County

St James 30 2110CST 0 0 **Thunderstorm Wind (G65)**

Roof off apartment building. Estimated windspeed.

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Sibley County

2 NE Gaylord 30 2114CST 0 0 **Thunderstorm Wind (G60)**
Large tree blown over. Estimated windspeed.

Brown County

New Ulm Arpt 30 2116CST 0 0 **Thunderstorm Wind (G56)**

Mcleod County

Plato 30 2116CST 0 0 **Thunderstorm Wind (G60)**
Power lines blown down. Roof blown off baseball pavillion. Estimated windspeed.

Sibley County

Green Isle 30 2117CST 0 0 **Thunderstorm Wind (G70)**
Garage and machine shed destroyed. Severe barn damage. Estimated windspeed.

Carver County

Hamburg 30 2118CST 0 0 **Thunderstorm Wind (G60)**
Trees down. Damage to houses. Estimated windspeed.

Carver County

Norwood 30 2120CST 0 0 **Thunderstorm Wind (G63)**
Major damage to houses. One house completely destroyed on Elm St. Large trees uprooted. Estimated windspeed.

Carver County

Waconia 30 2125CST 0 0 **Thunderstorm Wind (G61)**
15 inch tree blown down. Golf dome deflated. Power poles blown down. Estimated windspeed.

Scott County

Belle Plaine 30 2125CST 0 0 **Thunderstorm Wind (G65)**
Large trees blown down. Roof damage in rural areas. Estimated windspeed.

Carver County

Carver 30 2127CST 0 0 **Thunderstorm Wind (G65)**
Grandstand and dugout at baseball park destroyed. Construction trailer knocked over. Roof ripped off apartment building. Major damage to house. Estimated windspeed.

Carver County

Chaska 30 2130CST 0 2 9.2M **Thunderstorm Wind (G61)**
Roof torn off building injuring 2. South wall of building center blown out. Damage estimate for entire county. Estimated windspeed.

Carver County

Chanhassen 30 2132CST 0 0 **Thunderstorm Wind (G55)**
Measured at NWS office.

Scott County

3 SW Shakopee 30 2135CST 0 0 **Thunderstorm Wind (G60)**
Semitrailer blown over. Car trapped under downed power lines. Estimated windspeed.

Hennepin County

Mnnetonka 30 2136CST 0 0 **Thunderstorm Wind (G61)**

Hennepin County

Flying Cloud Arpt 30 2137CST 0 0 **Thunderstorm Wind (G63)**

Scott County

Prior Lake 30 2138CST 0 0 17.6M **Thunderstorm Wind (G85)**
2500 trees lost. 100 boats, lifts and docks damaged. 28 homes sustained major damage. Damage estimate for entire county.

Hennepin County

Eden Prairie 30 2139CST 0 0 **Thunderstorm Wind (G70)**
200 trees knocked over.

Hennepin County

Eden Prairie 30 2141CST 0 0 **Thunderstorm Wind (G70)**
Camper trailer flipped at intersection of Highways 5 and 62. Estimated windspeed.

Storm Data and Unusual Weather Phenomena

May 1998

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

MINNESOTA, Central and South Central

Scott County

Savage	30	2142CST			0	0			Thunderstorm Wind (G85)
Many homes damaged. 7 homes destroyed. Estimated windspeed.									

Hennepin County

Bloomington	30	2143CST			0	0	3M		Thunderstorm Wind (G70)
Thousands of trees down. Several houses received major damage. Estimated windspeed.									

Carver County

Chanhassen	30	2145CST			0	0			Thunderstorm Wind (G60)
Tree blown down. Estimated windspeed.									

Hennepin County

Richfield	30	2145CST			0	0			Thunderstorm Wind (G65)
Trees blown down. Estimated windspeed.									

Hennepin County

Minneapolis/St Paul	30	2146CST			0	0			Thunderstorm Wind (G56)
Measured at MSP International airport.									

Scott County

New Market	30	2146CST			0	0			Thunderstorm Wind (G65)
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Dakota County

Burnsville	30	2149CST			0	7	140M		Thunderstorm Wind (G80)
Brick wall blown in at retail center. 2000 trees blown down. Indoor mall sustained \$1 million in damage. 3 homes destroyed. Numerous trees down. Damage estimate for entire county. Estimated windspeed.									

Hennepin County

Minneapolis	30	2150CST			0	0			Thunderstorm Wind (G65)
Large trees blown down at intersection of I-35 and Diamond Lake Rd. About 3000 trees blown over. Nearly 500,000 homes without power. Estimated windspeed.									

Dakota County

Apple Vly	30	2152CST			0	0	10.2M		Thunderstorm Wind (G65)
2000 trees blown over. 1500 homes damaged. Estimated windspeed.									

Dakota County

Eagan	30	2152CST			0	1	24M		Thunderstorm Wind (G75)
10 homes with major structural damage. 1500 trees blown over. Estimated windspeed.									

Rice County

Northfield	30	2153CST			0	0			Thunderstorm Wind (G55)
Large tree uprooted. Estimated windspeed.									

Dakota County

Farmington	30	2154CST			0	0			Thunderstorm Wind (G70)
Measured at intersection of Pilot Knob Rd and 193rd Street.									

Dakota County

West St Paul	30	2154CST			0	0			Thunderstorm Wind (G70)
600 trees blown over. Roof off apartment building. Estimated windspeed.									

Dakota County

Inver Grove Heights	30	2155CST			0	0			Thunderstorm Wind (G75)
2000 trees blown over. 20 homes damaged. Estimated windspeed.									

Dakota County

Lakeville	30	2155CST			0	0			Thunderstorm Wind (G80)
Large trees blown down. Structural damage to homes. Estimated windspeed.									

Dakota County

Rosemount	30	2155CST			0	0			Thunderstorm Wind (G70)
Power knocked out to local refinery. Damage to apartment building. Estimated windspeed.									

Storm Data and Unusual Weather Phenomena

May 1998

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

NORTH CAROLINA, Southwest

Catawba County									
2.5 SE Claremont	26	1840EST			0	1			Thunderstorm Wind (G50)
Iredell County									
Troutman to Mooreville	26	1850EST 1905EST			0	0			Hail (1.50)
Iredell County									
Troutman to Mooreville	26	1850EST 1905EST			0	0			Thunderstorm Wind (G50)
Rutherford County									
Gilkey	26	1855EST			0	0			Hail (1.75)
Rutherford County									
Gilkey	26	1855EST			0	0			Thunderstorm Wind (G50)
Rutherford County									
Union Mills	26	1905EST			0	0			Hail (1.75)
Rutherford County									
Union Mills	26	1905EST			0	0			Thunderstorm Wind (G50)
Iredell County									
Troutman	26	1910EST			0	0			Thunderstorm Wind (G60)
Rowan County									
8 W China Grove	26	1910EST 1925EST			0	0			Hail (1.00)
Rowan County									
8 W China Grove	26	1910EST 1925EST			0	0			Thunderstorm Wind (G70)
Rowan County									
2 N China Grove	26	1915EST			0	0	100K		Thunderstorm Wind (G80)
Rowan County									
Salisbury to 5 E Salisbury	26	1935EST 1945EST			0	0			Thunderstorm Wind (G70)

Multi-cell thunderstorms developed in a hot and humid airmass just ahead of a cold front sagging south across North Carolina during the evening of the 26th. Several storms became severe and produced widespread hail and wind damage. Hail and wind lasted 15-20 minutes at some locations. Numerous trees and power lines were downed, some on homes, and numerous power outages occurred. In Marion, downed trees severely damaged a mobile home. In the town of Catawba, a shed was blown apart and siding taken off a garage. A 5 year old girl was injured in her mobile home when a tree struck it.

The southern half of Iredell county and much of Rowan county seemed to be hardest hit with large swaths of damage from winds, at times as high as 70 to 90 mph. Power poles were downed along Interstate 77. Boats and docks were damaged along Lake Norman. A roof was blown off a mobile home and a deck was destroyed in Troutman. Trees were downed on homes and outbuildings near China Grove and in Salisbury, with a damage path of trees and power lines down all the way to High Rock Lake. A car was crushed by a tree and a roof was blown off a supply store north of China Grove. Funnel cloud sightings were common with the passage of the storms in these areas.

In the town of Gilkey, in Rutherford county, a storage building was blown into the woods. Four homes were damaged by fallen trees in Union Mills and windows were blown out.

Storm Data and Unusual Weather Phenomena

June 1998

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

GEORGIA, Northeast

Elbert County

Fortsonia	16	1740EST			0	0			Hail (1.25)
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NEW YORK, Central

Chenango County

3.5 S New Berlin	26	1810EST 1811EST	0.1	20	0	0	1K		Tornado (F0)
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A severe thunderstorm produced a brief tornado around 7:10 p.m EDT which uprooted some trees near the Riverbend golf course along Route 8. The tornado was first spotted, and subsequently photographed, looking east from the Norwich Fairgrounds where several eyewitnesses spotted a funnel cloud during the Bluegrass Festival around 7 p. m. EDT. The apparent tornado was tracked moving east-northeast crossing Routes 23 and 8 to the south of New Berlin. After it's brief touchdown, the tornado gradually lifted as it moved toward Otsego County with no further reports of touchdowns or damage.

Storm Data and Unusual Weather Phenomena

October 1998

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

PACIFIC

Guam

Apra Harbor	10	1700SST 1730SST			0	0			Waterspout
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GUZ002

Micronesia

Yap	11	0300SST 1800SST			0	0	50K		Tropical Storm
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GUZ008

Rota

11		0400SST 1400SST			0	0			Tropical Storm
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Saipan

Central Portion	11	1000SST 1500SST			0	2			Rip Currents
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GUZ002

Micronesia

Chuuk	26	1320SST 1830SST			0	0	25K		High Wind
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A little less than 10 percent of the banana trees around the east to southeast exposures of the island was damaged

On the 26th strong winds moved across Chuuk State. Winds started picking up at the National Weather Service Office on the island of Weno at around 1320 and died down by 1830. A peak wind of 54 mph occurred at 1632 at the Weather Service Office. Island power went off at 1518 and was restored by 1740. A little less than 10 percent of the banana trees around the east to southeast exposures of the island was damaged. Low level wind convergence aided by upper level divergence helped to produce showers across the region. these showers produced the strong and gusty winds across Chuuk State.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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December 1998

ADDITIONS/CORRECTIONS

PACIFIC

Guam

Ritidian Point	24	1105SST 1330SST			0	0			Rip Currents
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Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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March 1999

ADDITIONS/CORRECTIONS

MICHIGAN, West

MIZ037>040-043>046 Mason - Lake - Osceola - Clare - Oceana - Newaygo - Mecosta - Isabella

02	1400EST								
03	0400EST				0	0			Snow

A weak low pressure system moved through the Great Lakes region, causing a band of snow to break out ahead of it. Once this system moved by, snow still continued due to some lingering moisture, and some added lake enhancement. The heaviest snow fell across northeast Newaygo County and Osceola County, where 6 inches of snow was reported. 4 to 5 inches of snow fell across Lake and Clare counties. 2 to 4 inches of snow fell across Mecosta County, and 1 to 2 inches of snow was reported across Oceana, Mason, and Isabella counties.

MIZ037>040-043>046-050>052-056>059-064>067-071>074 Mason - Lake - Osceola - Clare - Oceana - Newaygo - Mecosta - Isabella - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson

04	2200EST								
06	1600EST				0	0			Snow

A low pressure system moved into southern Missouri during the evening hours of the 5th. Out ahead of it, light to moderate snow developed across southern lower Michigan, accompanied by northeast winds of 15 to 25 mph, that produced some blowing and drifting of snow. The heaviest snow fell during the afternoon and evening hours of the 5th, into the early morning hours of the 6th. By 7 am on the 6th, the low pressure system had moved up into Ohio. With west to northwest winds behind the system, a little bit of lake effect snow continued on the 6th, though additional accumulations were light before the snow ended.

The following is a list of final storm total snowfall amounts, broken down by county, for the 4th through the 6th:

8 - 10 inches in Eaton County; 6 - 10 inches in Ingham County; 8 - 9 inches in Barry and Calhoun counties; 6 - 9 inches in Allegan and Ionia counties; 8 inches across Jackson County; 7 - 8 inches across Kalamazoo and Montcalm counties; 6 - 8 inches across Clinton, Gratiot, Kent, Lake, and Osceola counties; 5 - 8 inches across Van Buren County; 6 - 7 inches across Muskegon County; 5 - 7 inches across Newaygo County; 6 inches across Isabella County; 5 inches across Mecosta County; 4 inches across Ottawa County; 3 inches across Clare County; and 2 - 3 inches across Mason and Oceana counties.

MIZ037>040-043>046-050>052-056>059-064>067-071>074 Mason - Lake - Osceola - Clare - Oceana - Newaygo - Mecosta - Isabella - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson

08	2200EST								
10	0100EST				0	0			Snow

A low pressure system deepened and moved into Ohio on the 9th, producing a band of light to moderate snow across southern lower Michigan.

The following is a list of snowfall totals for the 8th through the 10th, broken down by county:

7 - 8 inches in Clinton County; 6 inches across Ionia, Montcalm, Mecosta, Osceola, and Ottawa counties; 5 - 6 inches across Eaton, Gratiot, and Jackson counties; 5 inches across Allegan, Calhoun, Kalamazoo, and Kent counties; 4 - 5 inches across Barry, Ingham, Isabella, Muskegon, Newaygo and Van Buren counties; 3 - 4 inches across Lake and Oceana counties; and 2 - 3 inches across Clare and Mason counties.

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the G indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

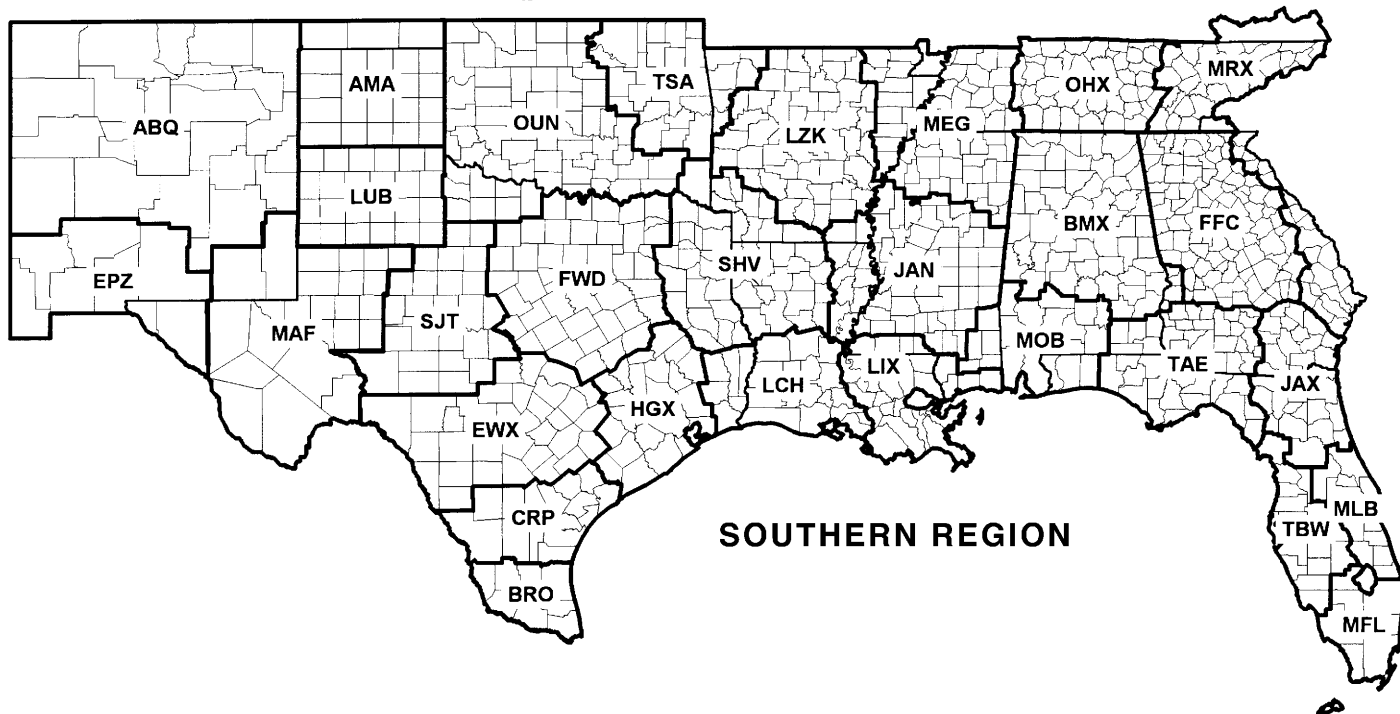


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

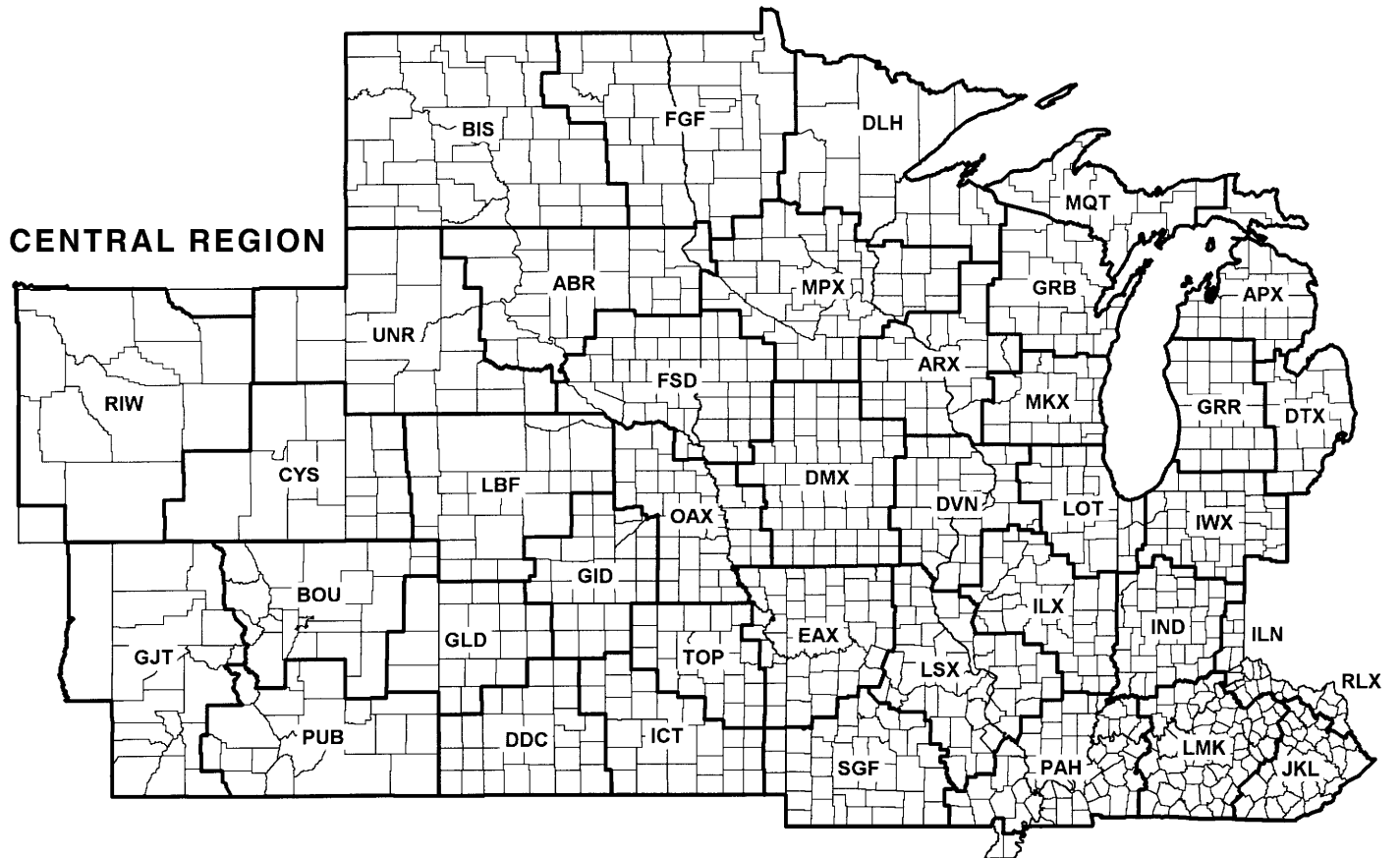
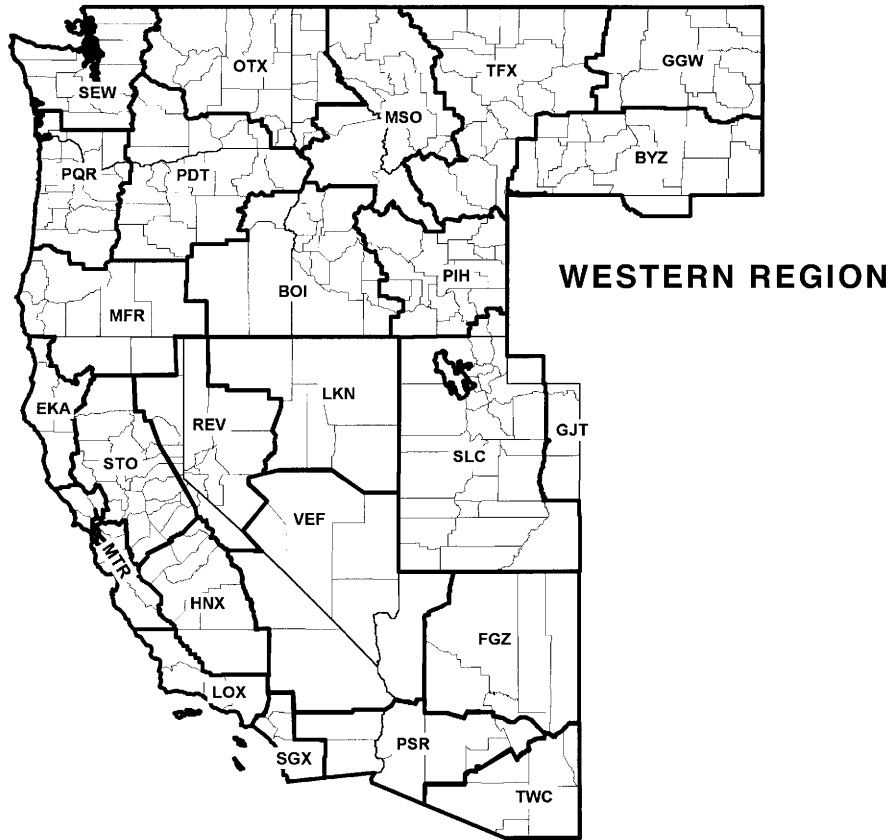


EASTERN REGION

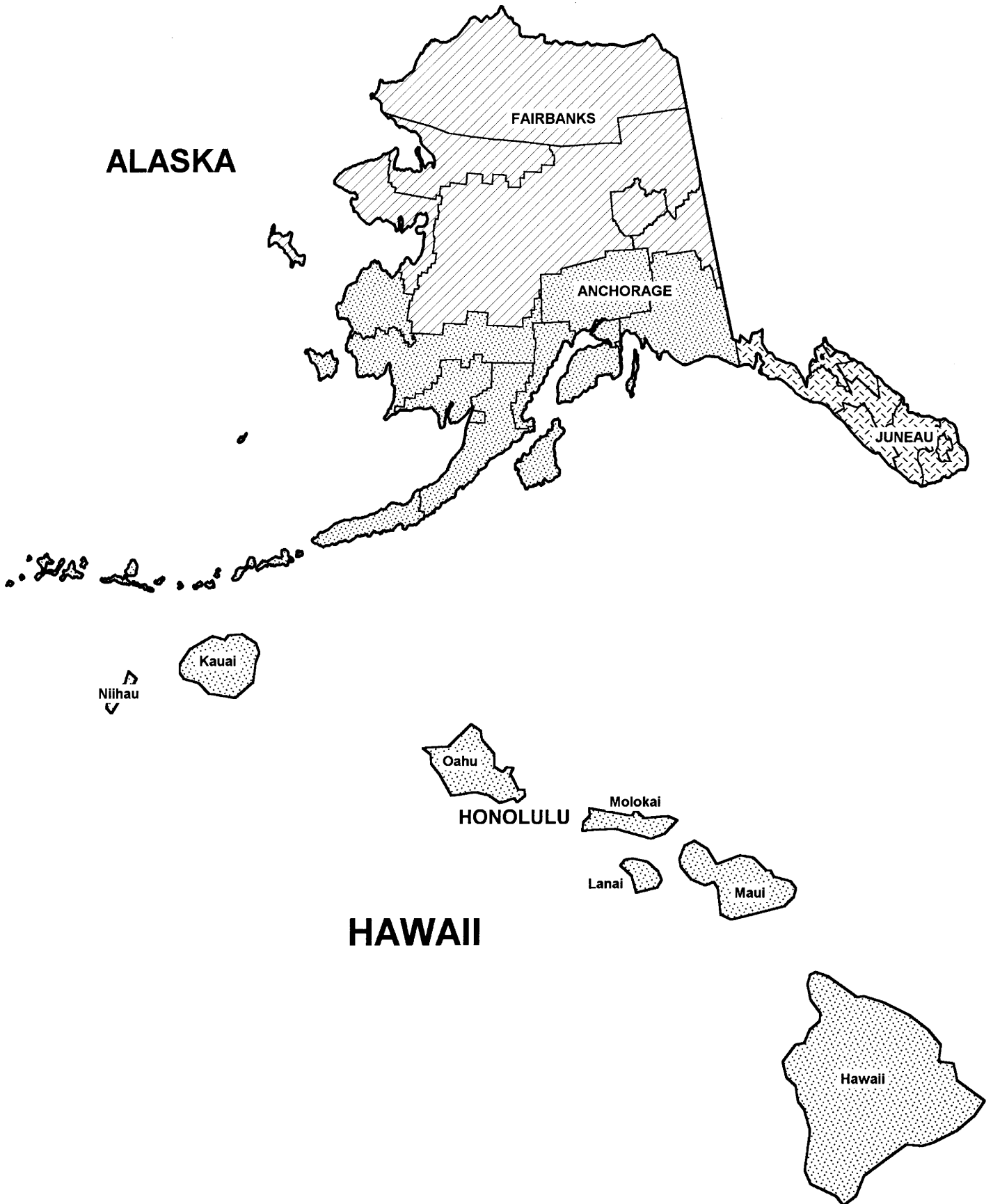


SOUTHERN REGION

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



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*Inquiries/Comments Call: (828) 271-4800 (Voice)
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