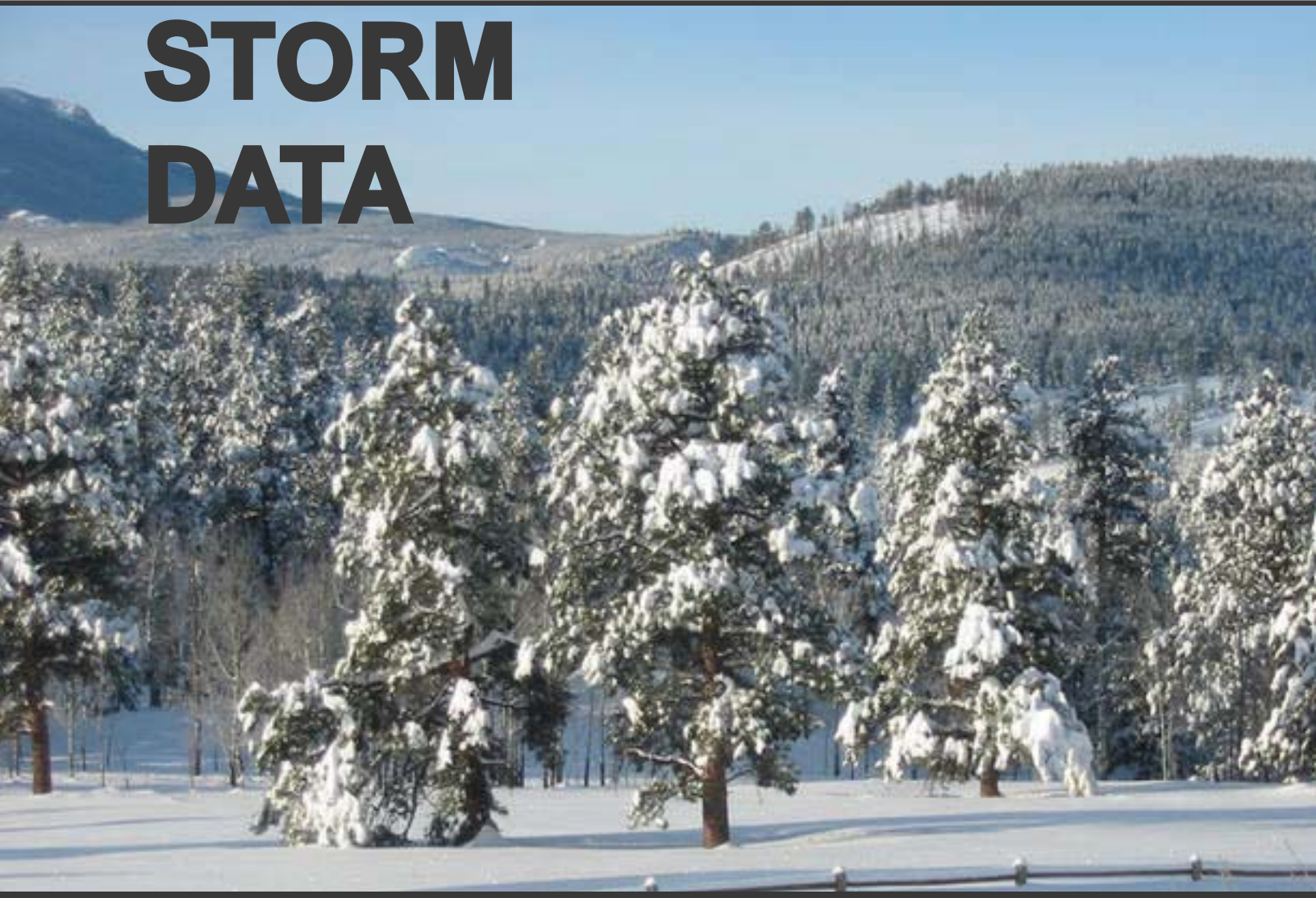


**MARCH 2003  
VOLUME 45  
NUMBER 3**

# **STORM DATA**



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



**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE  
NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NC

Cover: An intense and slow-moving Pacific storm system moved across the four-corners area from March 17 to the 19th which brought an easterly upslope snow event along the Front Range. The heavy wet snow caused roofs of homes and businesses to collapse across the Urban Corridor and avalanches in the mountains. Some snowfall totals ranged from 3 ft. to over 7 ft. (87.5 inches at Fritz Peak)! (Photo courtesy and ©: Mary J. Brodzik, Nederland, CO and Colorado Climate Center.)

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### **STORM DATA**

(ISSN 0039-1972)

National Climatic Data Center

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

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

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

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

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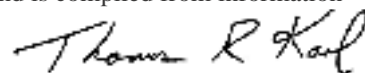
NCDC Subscription Services  
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The editor of **STORM DATA** solicits your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or severe weather events (past or present) for use in the "Outstanding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

Storm Data  
National Climatic Data Center  
151 Patton Avenue  
Asheville, NC 28801  
e-mail: [storm.data@noaa.gov](mailto:storm.data@noaa.gov)

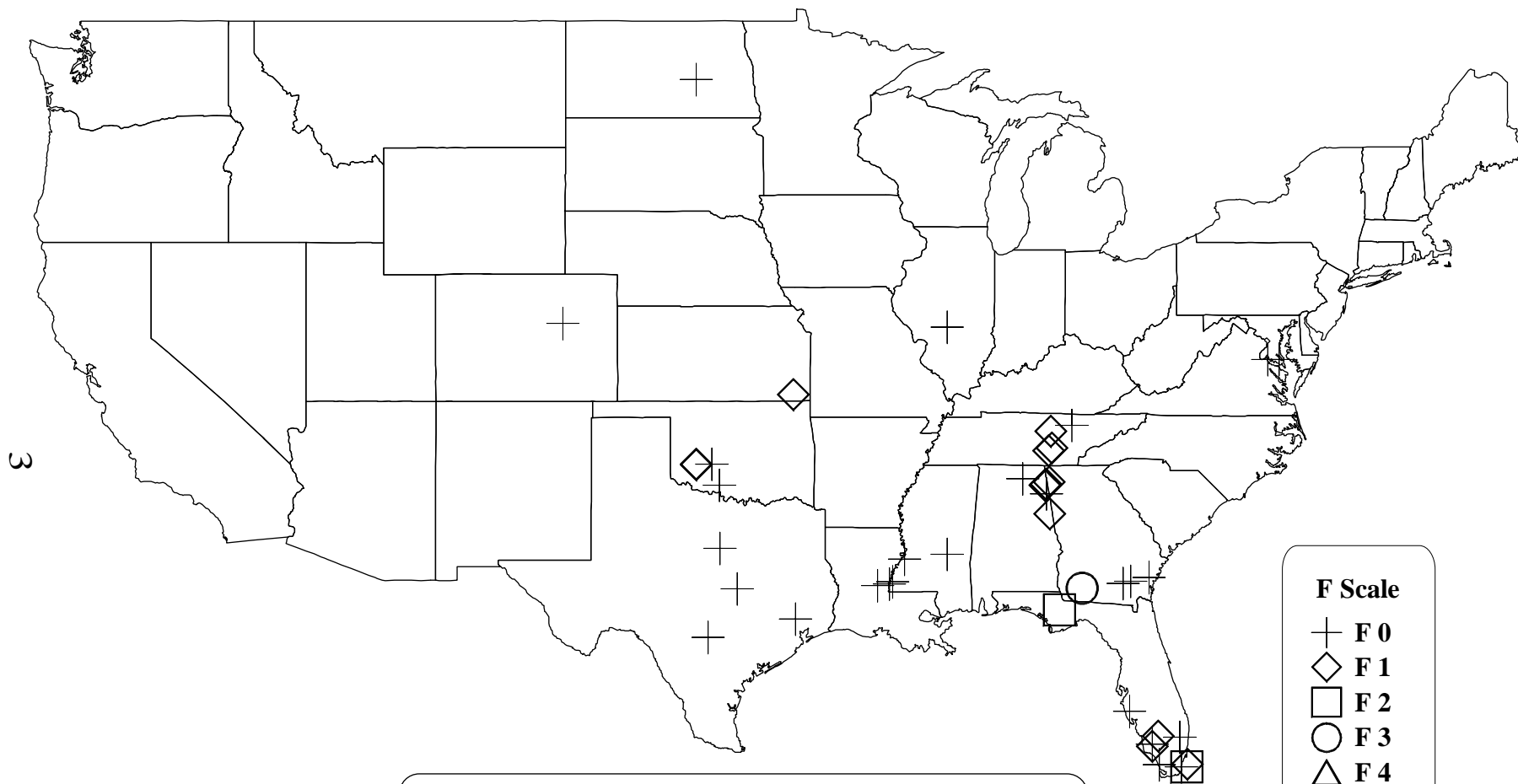
Any such items received by the editor will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials will be returned if requested.

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

# March 2003 Confirmed Tornadoes



F Scale	F0	F1	F2	F3	F4	F5	Total
Number	27	13	2	1	0	0	43

## F Scale

- + F 0
- ◇ F 1
- F 2
- F 3
- △ F 4
- ⊠ F 5

**OUTSTANDING STORMS OF THE MONTH**

**THERE IS NO  
“OUTSTANDING STORM OF THE MONTH”  
FOR THE MONTH OF MARCH 2003.**

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>ALABAMA, Central</b>									
<b>Sumter County</b>									
Geiger	05	1549CST			0	0	0	0	Hail (0.75)
Penny size hail was observed near Geiger.									
<b>Sumter County</b>									
Livingston	05	1832CST			0	0	5K	0	Thunderstorm Wind (G50)
Several trees and power lines were blown down in and around Livingston.									
<b>Bibb County</b>									
2 S Lawley	05	1944CST			0	0	2K	0	Thunderstorm Wind (G50)
Several trees and power lines were blown down near US 82 along the Bibb and Chilton County line.									
<b>Chilton County</b>									
Countywide	05	1950CST 2005CST			0	0	12K	0	Thunderstorm Wind (G55)
Numerous trees and power lines were knocked down across the county. The most concentrated areas of damage were along US 82 north of Maplesville, just north of Isabella, west of Clanton on Highway 22, and near Collins Chapel. Alabama Power estimated that up to 1500 customers were temporarily without power in Chilton County.									
<b>Coosa County</b>									
5 W Weogufka	05	2010CST 2017CST			0	0	2K	0	Thunderstorm Wind (G55)
Several trees and power lines were blown down across western Coosa County. The damage was mainly confined to rural areas.									
<b>Randolph County</b>									
Roanoke	05	2111CST			0	0	0	0	Hail (1.00)
Penny to quarter size hail was reported in and around Roanoke.									
<b>Chambers County</b>									
3 W Welch	05	2112CST			0	0	0	0	Hail (0.75)
Penny size hail was observed in extreme northern Chambers County near US 431.									
<b>Blount County</b>									
Countywide	06	0230CST 0330CST			0	0	8K	0	Flash Flood
Several roadways across the county were temporarily impassable because of flooding conditions. Some roads that were flooded include CR 42 at Murphys Valley, Center Springs Road near Locust Fork, Highway 79 in Cleveland, CR 1 in Cleveland, House Road in Oneonta, and Sibleyville Road in Hayden.									
<b>Calhoun County</b>									
.1 W White Plains to 3.1 ENE White Plains	06	0248CST 0251CST	3.1	250	0	3	200K	0	Tornado (F1)
<b>Cleburne County</b>									
8.3 NW Edwardsville to 4.8 NW Edwardsville	06	0251CST 0257CST	5.9	250	0	0	0	12K	Tornado (F1)

Alabama's second tornado of 2003 touched down in the early morning hours of Thursday, March 6, and affected portions of eastern Calhoun and western Cleburne counties. No deaths and only three minor injuries were reported with this tornado.

The tornado first touched down in the White Plains community of Calhoun County, just west of the intersection of SR-9 and Cottaquilla Road. Damage at this location was light and scattered consisting mainly of downed trees and damaged roofs. From there, the tornado traveled east-northeast across SR-9 and County Road 55, where it caused considerable damage to greenhouses at a nursery business as well as chicken houses and other farm structures.

The tornado then moved through open country for about a mile and a half continuing to uproot trees before destroying a mobile home on Chinch Creek Road. From there, the tornado moved eastward into a wooded area of Cleburne County, across Rattlesnake Mountain, causing sporadic tree damage until it lifted about a half mile east of the Shoal Creek Picnic area.

The tornado destroyed two homes and damaged 21 others according to EMA and Red Cross damage assessments. Alabama Power reported that 250 people were without power.

The tornado was rated an F1, mainly based on the amount of damage done to a mobile home on Chinch Creek Road. The tornado path length was about 8.9 miles. The average damage path width directly associated with the tornado was 100-200 yards, although peripheral damage occurred up to a half mile south of center of the tornado path.

Begin: 33 45.200/ 85 41.468 End: 33 46.290/85 32.700

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property Damage	Crops	Character of Storm
<b>ALABAMA, Central</b>									
<b>Shelby County</b>									
Westover	06	0315CST			0	0	2K	0	Thunderstorm Wind (G50)
			A few trees and power lines were blown down near Westover.						
<b>Shelby County</b>									
Wilsonville	06	0317CST			0	0	0	0	Hail (0.75)
			Penny size hail fell near Wilsonville.						
<b>Shelby County</b>									
1 SE Calera	06	0320CST			0	0	1K	0	Thunderstorm Wind (G50)
			A few trees were blown down on the east side of Interstate 65 near Calera.						
<b>Clay County</b>									
Highland	06	0400CST			0	0	2K	0	Thunderstorm Wind (G50)
			Trees and power lines were blown down in the Highland area.						
<b>Clay County</b>									
3 N Lineville	06	0410CST			0	0	2K	0	Thunderstorm Wind (G50)
			A few trees and power lines were knocked down near Lineville. One tree fell on a roof causing minor damage.						
<b>Elmore County</b>									
Eclectic	06	0545CST			0	0	3K	0	Thunderstorm Wind (G50)
			Trees were knocked down on Pleasant Hill Road and on Colley Road in Eclectic.						
<b>Tallapoosa County</b>									
Reeltown	06	0625CST			0	0	3K	0	Thunderstorm Wind (G50)
			Trees were blown down on Lovelady Road in Reeltown.						
<b>Pike County</b>									
1 W Goshen to 4 E Goshen	09	0430CST 0440CST			0	0	8K	0	Hail (1.75)
			Penny to golf ball size hail pounded areas in and around Goshen. Several locations reported the hail covering the ground. One mobile home suffered minor damage.						
<b>Lowndes County</b>									
4 W Ft Deposit to 2 E Ft Deposit	09	0735CST 0742CST			0	0	5K	0	Hail (1.75)
			Penny to golf ball size hail fell in and near Fort Deposit.						
<b>Montgomery County</b>									
4 SW Ramer	09	0805CST			0	0	0	0	Hail (0.75)
			Penny size hail fell in extreme southern Montgomery County near the Crenshaw and Montgomery County line.						
<b>Lowndes County</b>									
Ft Deposit	09	0836CST			0	0	0	0	Hail (0.75)
			Pea to penny size hail was observed near Fort Deposit.						
<b>Autauga County</b>									
Countywide	13	1450CST			0	0	5K	0	Thunderstorm Wind (G50)
			A few trees and power lines were blown down along US 31. A few more trees were knocked down just north of Prattville.						
<b>Elmore County</b>									
5 E Wetumpka	13	1515CST			0	0	1K	0	Thunderstorm Wind (G50)
			A few trees were blown down near Wetumpka. Pea size hail also fell during the storm.						
<b>Tallapoosa County</b>									
Newsite	13	1527CST			0	0	3K	0	Thunderstorm Wind (G50)
			Several trees were blown down along SR 49. A roof was blown off a shop and windows were broken out of a mobile home in New Site.						
<b>Elmore County</b>									
Tallassee	13	1530CST			0	0	18K	0	Thunderstorm Wind (G55)
			Some large trees were uprooted and a few of the trees landed on vehicles. A tin roof was blown off the old Hammerstone Foods Plant.						
<b>Tallapoosa County</b>									
Dadeville	13	1550CST			0	0	3K	0	Thunderstorm Wind (G50)
			Several trees were knocked down on the south side of Dadeville.						
<b>Pike County</b>									
Goshen	13	1555CST			0	0	0	0	Hail (0.75)
			Three quarter inch diameter size hail was observed in the Goshen area.						
<b>Bullock County</b>									
Union Spgs	13	1605CST			0	0	18K	0	Thunderstorm Wind (G60)
			Several trees were blown down, one storage building was damaged, and part of a building roof was removed in Union Springs.						

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>ALABAMA, Central</u></b>									
<b>Pike County</b>									
Goshen to Brundidge	13	1620CST 1630CST			0	0	2K	0	Hail (1.00)
Marble to quarter size hail fell from Goshen to Brundidge. A few locations reported the hail covering the ground.									
<b>Sumter County</b>									
Cuba	14	1715CST			0	0	0	0	Hail (0.75)
Penny size hail was reported in and near Cuba.									
<b>Tallapoosa County</b>									
Jacksons Gap	14	1745CST			0	0	3K	0	Hail (1.75)
Marble to golf ball size hail fell from near Lake Martin to near Jackson's Gap.									
<b>Tallapoosa County</b>									
Alexander City	14	1800CST			0	0	0	0	Hail (1.00)
Quarter size hail was reported in Alexander City.									
<b>Tallapoosa County</b>									
Newsite	14	1815CST			0	0	0	0	Hail (0.75)
Penny size hail was reported in New Site.									
<b>Tallapoosa County</b>									
6.2 NW Dadeville	14	1756CST			0	0	12K	0	Thunderstorm Wind (G60)
A wind gust with a thunderstorm downed or split several trees on the north side of US 280 about 6.2 miles northwest of Dadeville. Two homes lost shingles and another house had one corner of the metal roof lifted and bent. A cement block storage shed behind one mobile home lost about three-fourths of the metal roofing material. The worst damage occurred to a mobile home that served as an office for a used auto parts business. That mobile home was completely de-roofed and the roof was deposited about 25 feet north of the structure. A storm damage survey revealed no evidence of rotation in this event.									
<b>Russell County</b>									
6 W Pittsview to Cottonton	14	1810CST 1825CST			0	0	5K	0	Hail (1.75)
A supercell thunderstorm produced a swath of golf ball size hail from near the Rutherford community, to Pittsview, to near Cottonton.									
<b>Lee County</b>									
Auburn	14	1830CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported on the southwest side of Auburn.									
<b>Clay County</b>									
Millerville	14	1831CST			0	0	0	0	Hail (0.75)
Penny size hail was observed in Millerville.									
<b>Sumter County</b>									
4 SE Bellamy	14	1836CST			0	0	0	0	Hail (0.75)
Penny size hail fell along the Tombigbee River in southeast Sumter County.									
<b>Marengo County</b>									
4 SW Demopolis to Demopolis	14	1850CST 1905CST			0	0	0	0	Hail (0.75)
Penny size hail was observed along the Tombigbee River southwest of Demopolis up to the western side of the city.									
<b>Autauga County</b>									
Prattville	14	2052CST			0	0	0	0	Hail (0.75)
<b>Autauga County</b>									
Prattville	14	2052CST			0	0	3K	0	Thunderstorm Wind (G50)
Several trees were blown down along US 82 in Prattville. Penny size hail was also reported with this storm.									
<b>Shelby County</b>									
Helena	18	2320CST			0	0	0	0	Hail (0.75)
Penny size hail was reported in Helena.									
<b>Shelby County</b>									
Pelham	18	2320CST			0	0	0	0	Hail (0.75)
Penny size hail was observed in Pelham.									
<b>Jefferson County</b>									
Hoover	18	2329CST			0	0	5K	0	Hail (1.00)
Penny size hail fell across the Hoover area. A few locations reported that the hail covered the ground. A few car windshields were broken near the Galleria where the hail may have been larger.									

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>ALABAMA, Central</u></b>									
<b>Blount County</b>									
Blountsville	19	0914CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported by Alabama State Troopers near Blountsville.									
<b>Blount County</b>									
Royal	19	0920CST			0	0	3K	0	Thunderstorm Wind (G50)
Several trees were snapped off between Royal and Liberty and also on CR 26.									
<b>Etowah County</b>									
Rainbow City	19	1258CST			0	0	0	0	Hail (0.75)
Penny size hail was reported near Rainbow City.									
<b>Etowah County</b>									
2.2 ESE Tabor to 3.1 E Tabor	19	1357CST 1359CST	1.1	50	0	0	0	2K	Tornado (F0)
A tornado touched down in a heavily wooded area near the top of the ridge that forms Lookout Mountain in northeast Etowah County. The tornado was photographed by a person in southwest Cherokee County and observed by several people on the west side of the ridge. Besides trees, no other damage occurred since it was in an extremely remote area. Beg: 34 08.438/85 52.998 End: 34 08.935/85 51.960									
<b>Cherokee County</b>									
Sand Rock	19	1424CST			0	0	8K	0	Hail (1.75)
Golf ball size hail was observed in the Sand Rock area.									
<b>Cherokee County</b>									
Broomtown	19	1440CST			0	0	0	0	Hail (1.00)
Nickel to quarter size hail was reported in Broomtown.									
<b>Talladega County</b>									
Lincoln	19	1454CST			0	0	0	0	Hail (0.75)
Penny size hail fell in the city of Lincoln.									
<b>Tallapoosa County</b>									
Jacksons Gap	19	1504CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported near Jackson's Gap.									
<b>Calhoun County</b>									
Ohatchee	19	1507CST			0	0	2K	0	Hail (1.00)
Quarter size was observed in Ohatchee.									
<b>Talladega County</b>									
3 SW Eastaboga	19	1510CST			0	0	8K	0	Hail (1.75)
Nickel to golf ball size hail was reported near the Talladega Super Speedway.									
<b>Tallapoosa County</b>									
Newsite	19	1529CST			0	0	0	0	Hail (0.75)
Penny size hail was reported in Goldville and also in New Site. A funnel cloud was also observed with this storm.									
<b>Tallapoosa County</b>									
Newsite	19	1536CST			0	0	0	0	Hail (1.00)
Nickel to quarter size hail fell in New Site.									
<b>Calhoun County</b>									
5 W Anniston	19	1530CST			0	0	0	0	Funnel Cloud
A funnel cloud was spotted near the Anniston Army Depot along US 431. Another funnel cloud was observed in Anniston.									
<b>Calhoun County</b>									
Anniston	19	1530CST 1540CST			0	0	0	0	Hail (0.88)
Penny to nickel size hail was reported in and near the city of Anniston.									
<b>Calhoun County</b>									
2.9 W Anniston	19	1530CST			0	0	10K	0	Hail (1.75)
Golf ball size hail was observed in Wellborn.									
<b>Calhoun County</b>									
Saks	19	1542CST			0	0	7K	0	Hail (1.75)
Golf ball size hail was reported in Saks.									
<b>Talladega County</b>									
Talladega	19	1545CST			0	0	0	0	Hail (0.75)
Penny size hail was observed in Talladega.									



# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>ALABAMA, Central</u></b>									
<b>Cherokee County</b>									
Gaylesville	19	1545CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported near Gaylesville.									
<b>Cherokee County</b>									
Ringgold	19	1550CST			0	0	8K	0	Thunderstorm Wind (G50)
Several trees and power lines were blown down near Ringgold on CR 91, CR 56, and on Highway 35 North.									
<b>Tallapoosa County</b>									
Daviston	19	1600CST			0	0	2K	0	Hail (1.00)
Quarter size hail was reported in Daviston.									
<b>Randolph County</b>									
Wadley	19	1615CST			0	0	0	0	Hail (0.88)
Nickel size hail was observed in Wadley.									
<b>Cleburne County</b>									
5 N Fruithurst	19	1623CST			0	0	0	0	Hail (0.75)
Penny size hail fell in the Piney Woods Community.									
<b>Randolph County</b>									
Roanoke	19	1645CST 1705CST			0	0	35K	0	Hail (4.00)
A large hail storm affected southern Randolph County from near Wadley to Roanoke to near the Georgia State Line. Hail ranging from nickel size to grapefruit size was reported. The grapefruit size hail fell in the Friendship Community and collected up to a foot deep.									
<b>Russell County</b>									
5 S Ft Mitchell	19	1700CST			0	0	0	0	Funnel Cloud
A funnel cloud was reported south of Fort Mitchell moving east.									
<b>Russell County</b>									
Ft Mitchell	19	1710CST			0	0	0	0	Hail (0.75)
Penny size hail fell in and around Fort Mitchell.									
<b>Randolph County</b>									
Roanoke	19	1705CST			0	0	7K	0	Hail (1.75)
Golf ball size hail fell in and around the city of Roanoke.									
<b>Russell County</b>									
8 S Phenix City	19	1710CST			0	0	0	0	Hail (0.75)
Penny size hail was reported south of Phenix City.									
<b>Lee County</b>									
Opelika	19	1710CST			0	0	0	0	Hail (0.75)
Pea to penny size hail fell across the Opelika area.									
<b>Chambers County</b>									
Lafayette	19	1745CST			0	0	5K	0	Hail (1.75)
Golf ball size hail was reported in Lafayette.									
<b>Chambers County</b>									
Milltown	19	1847CST			0	0	0	0	Hail (1.00)
Quarter size hail was observed in Milltown.									
<b>Randolph County</b>									
Wedowee	19	2125CST			0	0	0	0	Hail (0.75)
Penny size hail was reported in Wedowee.									
<b>Randolph County</b>									
Woodland	19	2130CST			0	0	0	0	Hail (0.75)
Penny size hail was observed in the Woodland area.									
<b><u>ALABAMA, North</u></b>									
<b>ALZ007-009</b>									
<b>Morgan - Jackson</b>									
	19	0500CST 0800CST			0	0			High Wind (G60)
Two trees blown down.									
<b>Limestone County</b>									
3 E Mooresville to 3 NE Mooresville	19	0830CST 0840CST			0	0			Thunderstorm Wind (G60)
Two trees blown down.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## ALABAMA, North

### Madison County

Huntsville	19	0910CST 0915CST			0	0			Hail (0.75)
Penny size hail reported.									

### Madison County

Hazel Green	19	0915CST 0920CST			0	0			Thunderstorm Wind (G60)
Mobile Home overturned. Two radio towers blown down on July mountain.									

### Madison County

2 NW Hazel Green to 2 NE Hazel Green	19	0920CST 0925CST			0	0			Thunderstorm Wind (G60)
A large street sign and power lines down									

### Madison County

2 N Toney to 3 NE Toney	19	0920CST 0923CST	0.1	50	0	0			Tornado (F0)
Few trees twisted and snapped.									

### Marshall County

Claysville	19	0955CST 0958CST			0	0			Thunderstorm Wind (G60)
Large tree and several limbs blown down.									

### Madison County

New Market	19	1040CST			0	0			Hail (0.75)
penny size hail reported.									

### Madison County

5 NE Huntsville	19	1055CST 1057CST			0	0			Hail (0.75)
penny size hail at Buck Horn High School.									

### Jackson County

Princeton	19	1100CST 1103CST			0	0			Hail (0.75)
penny size hail reported.									

### Madison County

New Market	19	1110CST			0	0			Hail (0.88)
Nickel size hail reported.									

### Jackson County

Hollywood to 1 E Hollywood	19	1120CST 1122CST			0	0			Thunderstorm Wind (G60)
Several trees blown down.									

### Marshall County

Albertville	19	1215CST			0	0			Hail (0.75)
dime to penny size hail reported.									

### Marshall County

2 NE Albertville	19	1227CST			0	0			Hail (0.75)
penny size hail reported.									

### Marshall County

7 NE Albertville to Albertville	19	1238CST			0	0			Hail (0.75)
penny size hail reported.									

### Dekalb County

Grove Oak	19	1245CST			0	0			Hail (1.50)
Ping pong size hail reported.									

### Jackson County

Section to Rosalie	19	1249CST 1300CST	0.5	30	0	0			Tornado (F1)
F1 tornado (80 mph) winds with several trees snapped and two homes with minor roof damage.									

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage Property Crops	Character of Storm
<b><u>ALABAMA, North</u></b>								
<b>Jackson County</b>								
2 NE Dutton to 3 NE Dutton	19	1252CST 1258CST	1	40	0	0	1K	Tornado (F1)
Barn destroyed and several trees twisted and snapped along tornadoes track from along Jackson county road 372 and 47 to Jackson county road 51.								
<b>Dekalb County</b>								
3 S Fairview	19	1350CST			0	0		Hail (0.75)
Penny size hail reported.								
<b>Jackson County</b>								
2 SW Flat Rock to 2 NE Flat Rock	19	1350CST 1405CST	10	50	0	3	300K	Tornado (F1)
F1 tornado (100 mph) winds damaged three mobile homes, 11 homes and four businesses from the Rosalie to Flat Rock communities.								
<b>Dekalb County</b>								
3 SE Collbran	19	1422CST			0	0		Hail (0.75)
Penny size hail reported.								
<b>Dekalb County</b>								
5 S Ft Payne	19	1422CST			0	0		Hail (0.75)
Penny size hail reported.								
<b>Jackson County</b>								
Flat Rock	19	1400CST 1430CST			0	0		Flash Flood
Several inches of water over road.								
<b>Dekalb County</b>								
Ft Payne	19	1520CST			0	0		Hail (0.75)
Penny size hail reported.								
<b><u>ALABAMA, Southeast</u></b>								
<b>Coffee County</b>								
Goodman	09	1055EST			0	0		Hail (0.75)
Dime size hail reported by the Coffee County Sheriff.								
<b>Henry County</b>								
Abbeville	13	1830EST			0	0		Hail (0.75)
Dime size hail reported by the Henry County EMA.								
<b>Coffee County</b>								
4 SW Enterprise Muni A	14	1740EST 1750EST			0	0		Hail (0.88)
Nickel size hail covering the ground. Reported by the Coffee County EMA.								
<b>Geneva County</b>								
2 S Hartford	20	0130EST			0	0	3K	Thunderstorm Wind (G50)
Downed trees and power lines reported by the Geneva County EMA.								
<b><u>ALABAMA, Southwest</u></b>								
<b>Wilcox County</b>								
Camden	09	0711CST 0713CST			0	0		Hail (0.75)
<b>Crenshaw County</b>								
Highland Home	09	0830CST 0832CST			0	0		Hail (1.00)
<b>Escambia County</b>								
Brewton	09	0850CST 0852CST			0	0		Hail (1.00)
<b>Escambia County</b>								
Brewton	09	0925CST 0927CST			0	0		Hail (1.00)
<b>Wilcox County</b>								
Camden	09	0925CST 0927CST			0	0		Hail (0.88)

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<b><u>ALABAMA, Southwest</u></b>									
<b>Covington County</b>									
Libertyville	09	0930CST 0932CST			0	0			Hail (1.00)
<b>Covington County</b>									
Lockhart	09	1005CST 1007CST			0	0			Hail (1.00)
<b>Baldwin County</b>									
Foley	12	1540CST 1542CST			0	0			Hail (0.75)
<b>Baldwin County</b>									
Elberta	12	1600CST 1602CST			0	0			Hail (1.00)
<b>Baldwin County</b>									
Robertsdale	12	1600CST 1602CST			0	0	5K		Thunderstorm Wind (G55)
High winds from a thunderstorm damaged the roof to a barn just south of Robertsdale.									
<b>Baldwin County</b>									
Seminole	13	0240CST 0242CST			0	0			Hail (0.75)
<b>Baldwin County</b>									
Summerdale	13	0240CST 0242CST			0	0	3K		Thunderstorm Wind (G50)
High winds from a thunderstorm blew an awning off a building.									
<b>Clarke County</b>									
Fulton	13	1400CST 1402CST			0	0			Hail (0.75)
<b>Clarke County</b>									
Grove Hill	13	1455CST 1457CST			0	0			Hail (0.75)
<b>Clarke County</b>									
Jackson	13	1500CST 1502CST			0	0			Hail (0.75)
<b>Butler County</b>									
8 NE Greenville to 10 NE Greenville	13	1515CST 1517CST			0	0	1K		Hail (1.75)
Golfball size hail fell across the northeast part of Butler county. A couple of automobile windshields were cracked by the large hail.									
<b>Washington County</b>									
Fruitdale	13	1520CST 1522CST			0	0			Hail (0.75)
<b>Monroe County</b>									
Goodway	13	1520CST 1522CST			0	0			Hail (0.75)
<b>Washington County</b>									
Leroy	13	1535CST 1537CST			0	0			Hail (0.75)
<b>Crenshaw County</b>									
Luverne to Brantley	13	1540CST 1550CST			0	0	4K		Hail (1.75)
Large hail from a thunderstorm broke several automobile windshields between Brantley and Luverne. Several trees also had leaves stripped from them as a result of the large hail. The hail lasted for several minutes.									
<b>Mobile County</b>									
1 W (Mob)Mobile Bates	13	1550CST			0	0			Hail (0.75)
<b>Covington County</b>									
Red Level	13	1640CST 1645CST			0	0			Hail (1.00)
<b>Mobile County</b>									
Saraland	13	1640CST 1642CST			0	0			Hail (0.88)

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b><u>ALABAMA, Southwest</u></b>									
<b>Baldwin County</b>									
Bay Minette	13	1650CST 1700CST			0	0		Hail (1.00)	
<b>Covington County</b>									
5 W Libertyville	13	1710CST 1712CST			0	0		Hail (0.75)	
<b>Baldwin County</b>									
Magnolia Spgs	13	1729CST 1730CST			0	0	5K	Thunderstorm Wind (G50)	
High winds from a thunderstorm blew down several trees near Magnolia Springs.									
<b>Escambia County</b>									
Atmore	14	1720CST 1722CST			0	0	4K	Hail (1.75)	
Golfball size hail from a thunderstorm broke several automobile windshields along I-65 near Atmore. Several trees also had leaves stripped from them as a result of the large hail. The hail lasted for several minutes, and vehicles had to pull off the interstate because of low visibilities.									
<b>Choctaw County</b>									
Butler	14	1730CST 1732CST			0	0		Hail (0.75)	
<b>Conecuh County</b>									
Castleberry	14	1750CST 1752CST			0	0		Hail (0.75)	
<b>Covington County</b>									
Babbie	14	1830CST 1832CST			0	0		Hail (0.75)	
<b>Clarke County</b>									
Grove Hill	18	1955CST 1957CST			0	0	5K	Thunderstorm Wind (G50)	
High winds from a thunderstorm blew down several trees near Grove Hill.									
<b><u>ALASKA, Northern</u></b>									
<b>AKZ216-218&gt;219</b>									
<b>Lower Koyukuk Middle Ykn Vlys - S. Slopes Of Ern Brooks Range - Upper Koyukuk Valley</b>									
01		1400AST			0	0		Heavy Snow	
03		0853AST							
Heavy snow developed along a slow moving warm front as it moved across the Lower, Middle, and Upper Koyukuk Valleys to the Southern Slopes of the Eastern Brooks Range. The heaviest snow fell near Bettles (Zone 219) where 11 inches of new snow was measured by the ASOS Augmenting Observer. The CO-OP Observer at Galena (Zone 216) measured 8 inches and reported via phone that near white out conditions occurred for short periods as the heaviest snow fell. Farther north the Department of Transportation at Chandalar Lake (Zone 218) reported 6 inches had fallen over a 24 hour period.									
<b>AKZ201</b>									
<b>Western Arctic Coast</b>									
05		1855AST			0	0		High Wind (G50)	
High winds occurred along the Western Arctic Coast as a warm front moved across the Chukchi Sea. High pressure ranging of 1044mb extended from the Seward Peninsula to the Northern Yukon Territory of Canada near Old Crow. The combination of the High pressure and approaching warm front, formed a very tight pressure gradient across portions of northwest Alaska. Winds up to 58 mph were recorded at the Cape Lisburne AWOS site as the front passed.									
<b>AKZ204</b>									
<b>Eastern Beaufort Sea Coast</b>									
10		1035AST			0	0		Blizzard	
11		1635AST							
A Cold Front moved east across the Eastern Beaufort Sea Coast causing blizzard conditions, along with strong winds. Wind gusts up to 54 mph were reported by the Barter Island AWOS. Blizzard conditions were not continuous but subsided at times during the event.									
<b>AKZ210</b>									
<b>Nrn &amp; Intr. Seward Peninsula</b>									
21		0500AST 0900AST			0	0		High Wind (G62)	
Very localized high winds occurred at Skookum Pass as cold drainage winds intensified in the narrow pass surrounding the reporting sensor.									
<b>AKZ207-209-213&gt;214</b>									
<b>Chukchi Sea Coast - Baldwin Pen. &amp; Selawik Valley - St Lawrence Is. Bering Strait - Yukon Delta</b>									
27		0315AST			0	0		Blizzard	
28		1926AST							

## Storm Data and Unusual Weather Phenomena

Time Path Path Number of Estimated March 2003

[illegible]

## ALASKA, Northern

## AKZ201-201-213

## Western Arctic Coast - St Lawrence Is. Bering Strait

28	0155AST 1155AST	0	0	High Wind (G56)
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A 995 mb low over the northwest Bering Sea the afternoon of the 27th moved to the Bering Strait on the morning of the 29th and weakened to 1012 mb. the associated weather front moved northeast over the west coast of Alaska through the 28th and produced Blizzard conditions and High Winds across much of this area.

High winds were reported at:

Zone 201: Cape Lisburne AWOS gust to 62 mph.

Zone 213: Gambell AWOS gust to 61 mph; Tin City AWOS gust to 64 mph.

Blizzard conditions were reported at:

Zone 201: Wainwright ASOS.

Zone 207: Kivalina ASOS.

Zone 209: Kotzebue ASOS.

Zone 213: Gambell AWOS; Tin City AWOS.

Zone 214: Emmonak AWOS.

## AKZ213&gt;214

### St Lawrence Is. Bering Strait - Yukon Delta

31	0855AST 1415AST	0	0	Blizzard
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A 984mb low and associated occluded front moved across the Bering Sea producing strong winds and widespread snow across St. Lawrence Island and portions of the Yukon Delta. Wind speeds topped out at 55 mph at Emmonak and Cape Romanzof dropping the visibility at these locations to near zero for several hours in blowing snow. The AWOS sensor at Savoonga also reported blizzard conditions with the winds topping out there at 52 mph.

## ALASKA, Southeast

## AKZ024&gt;025

## Northern Lynn Canal - Juneau Borough-Eastern Chichagof-Admiralty Island

12	1700AST	0	0	25K	High Wind (G59)
13	1500AST				

Severe weather impacted the citizens of Southeast Alaska the second week of March 2003. At first there was an arctic outbreak on March 7-8, that spread the coldest air of the winter season across the entire Panhandle. With this cold air in place, a 959mb Low moved into the North Pacific on Wednesday, March 12. With a 1022mb High centered northwest Canada, a 60+ mb offshore/northeast pressure gradient was centered directly over Southeast Alaska. This helped generate High Winds in the gap flow out of our eastern passes and inlets. Due to a critical layer in mid levels of the atmosphere, a renowned mountain wave High Wind event, the Taku Winds, developed in downtown Juneau and Douglas. These high winds developed by late afternoon on March 12 and continued into the next morning. At the Juneau Federal Building wind gusts maxed out at 55 knots (63 mph), but less than a mile away on South Douglas Island winds measured as high as 62 knots (71 mph). On our mountain tops, the Mount Roberts Tram (1761' ASL) sensor measured a peak gust of 127 kts (146 mph). Some minor damage was reported in both Juneau and Douglas. In the northern Lynn Canal region the winds were more northerly due to the terrain, but just as strong. The Eldred Rock sensor measured a peak wind gust to 59 kts (68 mph) during this time.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## ALASKA, Southeast

AKZ023>027-029

**Cape Decision To Cape Fairweather-Coastal Area - Northern Lynn Canal - Juneau Borough-Eastern Chichagof-Admiralty Island - Inner Channels From Kupreanof Island To Etolin Island - Southern Southeast Alaska Ernest Sound To Dixon Entrance - Misty Fjords**

12	2300AST				0	0	42K		Heavy Snow
13	2200AST								



*Juneau residents had to dig out from 1-2 feet of new snow when they awoke on Friday, March 14, 2003. High winds, bitter cold and dangerous wind chill temperatures occurred in the days leading up to the snow storm.*

Severe weather impacted the citizens of Southeast Alaska the second week of March 2003. After several days with an arctic airmass in place, late Wednesday March 12 into Friday March 14, a heavy overrunning snow storm developed across the Panhandle. Thanks in part to timely and effective winter storm warnings, minimal damage and no injuries nor deaths resulted from this storm. Here is a brief listing of some the warning level snowfall amounts (all occurred in a period of 24 hours or less) that were reported: Pelican 15", Port Alexander 12", Skagway 8", Haines 18", WFO Juneau 15", Juneau airport 14", Montana Creek 22", Downtown Juneau and Douglas 12-15", Eagle Crest Ski Resort 18-24", Petersburg 14", Ketchikan 6", 12 miles north of Ketchikan 12", and Hyder with 18".

## ALASKA, Southern

AKZ181

### **Alaska Peninsula**

02	0200AST				0	0			High Wind (G65)
	0400AST								

A frontal low intensified to 985 millibars as it crossed the Aleutians near Dutch Harbor Saturday evening. The low then moved rapidly through the eastern Bering Sea to Norton Sound by Sunday afternoon...deepening a few more millibars.

Peak winds from the south reached 75 mph briefly at Cold Bay very early Sunday. Reports indicated that King Cove, just to the east, experienced only 50 mph winds.

AKZ131

### **Nern P.W. Snd**

05	1015AST				0	0			High Wind (G67)
06	1235AST								

High pressure building over mainland Alaska and a weak trough over the Gulf of Alaska, produced moderate to strong north-south pressure gradients and locally strong northeasterly winds around Valdez.

AKZ111

### **Matanuska Valley**

06	0000AST				0	0			High Wind (G67)
	1100AST								

Strong northeasterly winds were observed near the Matanuska River drainage, a result of strong high pressure in the interior and a weak trough in Prince William Sound.

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>ALASKA, Southern</u></b>									
<b>AKZ135</b>		<b>Sern P.W. Snd</b>							
	<b>09</b>	<b>1200AST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G65)</b>
	<b>10</b>	<b>1215AST</b>							
Strong northerly winds out of the Copper River drainage likely reached 75+ mph as cold air moved south into the Gulf of Alaska. Blowing dust from the river reached southward past Middleton Island. No direct observations are available from this known area of strong winds.									
<b>AKZ101-111-131</b>		<b>Anchorage Muni To Bird Creek - Matanuska Valley - Nern P.W. Snd</b>							
	<b>12</b>	<b>0000AST</b>			<b>0</b>	<b>2</b>	<b>11.2M</b>		<b>High Wind (G96)</b>
	<b>14</b>	<b>2359AST</b>							
<b>Kenai Peninsula</b>									
<b>Anchor Point</b>									
	<b>12</b>	<b>0000AST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Wildfire</b>
	<b>14</b>	<b>2359AST</b>							
A "Bora" type windstorm hit much of the Matanuska Valley, Anchorage and portions of the Kenai Peninsula.									
Very cold air funneled down the Matanuska Valley, driven by a large high centered over the Chukotsk Peninsula. A combination of strong convergence aloft, a tight surface pressure gradient, and terrain forcing brought hurricane-force winds to the ground over a large portion of greater Anchorage. Damage reports were numerous and included small planes, roofs torn off buildings, car ports caving in and siding blown off. Power outages of 9 hours or more were reported. Communications were also impacted. Lots of broken signs, traffic lights rendered inoperable, partial roof collapses, lost roofing shingles and garbage cans scattered all over west Anchorage and the Palmer area.									
When the 109 mph gust hit the Ted Steven's International Anchorage airport at 10:42 pm, the tower was abandoned and the airport closed to incoming traffic. Just prior to that, an Alaska Airlines flight received clearance to land with winds "three five zero at eight zero knots (92 mph)". Flights right behind it decided to go to Fairbanks and Juneau! In all, around 15 flights were diverted to Fairbanks, which became a parking lot for 747s Thursday.									
Winds gusting close to 60 mph whipped across the western Kenai Peninsula also, creating 'red flag' conditions and spreading small fires into significant ones across the dry ground. Largest reported fire reached 100 acres north of Anchor Point. Scattered power outages were also reported across the area, including one larger one around Fritz Creek (on the outskirts of Homer).									
In the Valdez area, gusts at the airport reached an estimated 100+ mph, ripping roofs off several structures and breaking glass in buildings and cars. Overall, at least 14 vehicles around the Valdez airport were damaged.									
In addition, temperatures around zero combined with the strong winds to produce wind chills near 45 below zero. The cold air, driven into buildings by the strong winds, also froze many water pipes...which then burst, adding to the damage estimates.									
<b>AKZ135</b>		<b>Sern P.W. Snd</b>							
	<b>12</b>	<b>2000AST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G87)</b>
	<b>14</b>	<b>0500AST</b>							
A 1004 mb low just south of Cape Saint Elias, combined with the arctic front in the northern Gulf of Alaska to produce strong outflow winds out of the Copper River Delta. Wind gusts were estimated at 100+ mph. Considerable blowing dust from the Delta was observed on the Middleton Island FAA camera system.									
<b>AKZ181</b>		<b>Alaska Peninsula</b>							
	<b>13</b>	<b>1700AST</b>			<b>0</b>	<b>0</b>			<b>Blizzard</b>
		<b>2245AST</b>							
Blizzard conditions were observed around Cold Bay Thursday evening. North winds reached 54 mph...and visibilities were frequently below 1/4 mile in blowing snow.									
<b>AKZ171</b>		<b>Kodiak Peninsula</b>							
	<b>14</b>	<b>0950AST</b>			<b>0</b>	<b>0</b>			<b>Blizzard</b>
		<b>1940AST</b>							
An intense low moved across Kodiak Island early Friday, reducing visibilities to 1/4 mile or less for more close to 11 hours. Additionally, 9 to 24 inches of new snow was reported. Wind gusts reached 48 mph from the northwest.									
<b><u>AMERICAN SAMOA</u></b>									
<b>Tutuila</b>									
<b>Countywide</b>									
	<b>23</b>	<b>0700SST</b>			<b>0</b>	<b>0</b>			<b>Rip Current</b>
	<b>28</b>	<b>1500SST</b>							
A large and slow moving low pressure area that moved eastward across the southern Pacific off New Zealand generated swell that was responsible for high surf along south shoers of American Samoa for about a week. These high surf greated some strong rip currents at most of the beaches from Nu'uuli to Lau'i'i.									



# Storm Data and Unusual Weather Phenomena

March 2003

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

## ARIZONA, Central and Northeast

### **AZZ006**

#### **Grand Canyon Country**

**04 2000MST**

**0 0**

**Heavy Snow**

**05 0800MST**

A Pacific storm system brought heavy snow to the South Rim of the Grand Canyon. Eleven inches of new snow fell at the South Rim.

### **AZZ015>016-018**

#### **Western Mogollon Rim - Eastern Mogollon Rim - Northern Gila County**

**16 2000MST**

**0 0**

**Heavy Snow**

**17 1600MST**

A slow moving storm brought heavy snow to areas along the southern edge of the Mogollon Rim. Some of the new snowfall totals were: Munds Park 14 inches, Clint's Well 10 inches, Forest Lakes 9 inches, Blue Ridge Ranger Station and Happy Jack 8 inches, and Pine 6 inches.

## ARIZONA, Northwest

NONE REPORTED.

## ARIZONA, South

NONE REPORTED.

## ARIZONA, Southwest

### **Maricopa County**

#### **Chandler**

**16 1340MST**

**0 0**

**Thunderstorm Wind (G57)**

Thunderstorms developed south and west of Sun Lakes and moved rapidly northeast across Chandler. Brief heavy rain accompanied these storms.

## ARKANSAS, Central and North Central

### **Polk County**

#### **6 SE Mena**

**13 0250CST**

**0 0**

**Hail (1.75)**

### **Scott County**

#### **Y City**

**13 0300CST**

**0 0**

**Hail (0.75)**

### **Scott County**

#### **Y City**

**13 0300CST**

**0 0**

**Thunderstorm Wind (G50)**

Thunderstorm winds downed several large trees.

### **Saline County**

#### **4 NW Avilla**

**13 0500CST**

**0 0**

**Thunderstorm Wind (G50)**

The roof of a boat dock was blown off.

### **Ouachita County**

#### **5 NE Camden**

**13 0520CST**

**0 0**

**Hail (0.75)**

### **Jefferson County**

#### **Noble Lake**

**13 0655CST**

**0 0**

**Thunderstorm Wind (G50)**

Thunderstorm winds knocked down some large tree limbs and blew a few sheets of tin off a building.

### **Lincoln County**

#### **Varner**

**13 0715CST**

**0 0**

**Hail (0.75)**

### **Arkansas County**

#### **De Witt**

**13 0720CST**

**0 0**

**Hail (1.00)**

### **Arkansas County**

#### **Deluce**

**13 0725CST**

**0 0**

**Thunderstorm Wind (G50)**

Several trees were blown down.

### **Searcy County**

#### **Silver Hill**

**25 1508CST**

**0 0**

**Hail (0.88)**

### **Newton County**

#### **Deer**

**25 1512CST**

**0 0**

**Hail (0.75)**

### **Newton County**

#### **Deer**

**25 1515CST**

**0 0**

**Hail (1.00)**

# Storm Data and Unusual Weather Phenomena

March 2003

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

## ARKANSAS, Central and North Central

### Searcy County

Marshall

25	1520CST				0	0			Hail (0.75)
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*In the picture: Hail covered the ground near Marshall (Searcy County) on 03/25/2003. The picture is courtesy of Mr. Ralph Taylor.*

### Van Buren County

Dennard

25	1540CST				0	0			Hail (0.75)
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### Searcy County

2 E Leslie

25	1545CST				0	0			Hail (1.75)
----	---------	--	--	--	---	---	--	--	-------------

### Stone County

Fox

25	1600CST				0	0			Hail (1.00)
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### Stone County

Hanover

25	1610CST				0	0			Hail (0.75)
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# Storm Data and Unusual Weather Phenomena

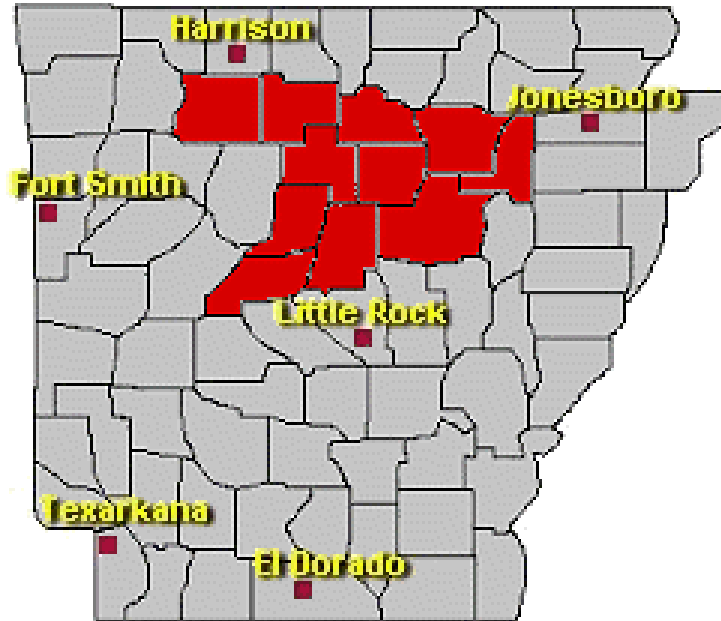
March 2003

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

## ARKANSAS, Central and North Central

### Stone County

4 S Mountain View      25      1630CST      0      0      Hail (0.75)



*In the picture: Stone County was one of at least eleven counties in the Little Rock County Warning Area to receive large hail on 03/25/2003.*

Penny sized hail accumulated up to 4 inches deep.

### Jackson County

Jacksonport      25      1650CST      0      0      Hail (0.75)

### Independence County

Bethesda      25      1650CST      0      0      Hail (0.88)

### Cleburne County

Concord      25      1700CST      0      0      Hail (0.75)

### Independence County

Batesville      25      1705CST      0      0      Hail (0.75)

### Independence County

Thida      25      1715CST      0      0      Hail (0.88)

### Independence County

Sulphur Rock      25      1718CST      0      0      Hail (0.75)

### Conway County

Overcup      25      1725CST      0      0      Hail (0.75)

### Independence County

Cord      25      1726CST      0      0      Hail (0.75)

### White County

Pangburn      25      1738CST      0      0      Hail (0.75)

### Faulkner County

Wooster      25      1751CST      0      0      Hail (0.75)

### Perry County

1 S Nimrod      25      1830CST      0      0      Hail (0.75)

### White County

2 W Beebe      25      1905CST      0      0      Hail (0.88)

## ARKANSAS, East

NONE REPORTED.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## ARKANSAS, Northwest

### Crawford County

Leecreek	13	0135CST			0	0			Hail (1.00)
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### Sebastian County

Rye Hill	13	0225CST			0	0			Hail (1.00)
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### Franklin County

5 SW Ozark	13	0235CST			0	0			Hail (0.75)
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### Madison County

Pettigrew	25	1430CST			0	0			Hail (0.75)
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## ARKANSAS, Southeast

NONE REPORTED.

## ARKANSAS, Southwest

### Little River County

Ashdown	12	1347CST			0	0			Hail (0.75)
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### Howard County

Nashville	13	0330CST			0	0			Hail (0.75)
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### Howard County

Dierks	13	0340CST			0	0			Hail (0.75)
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### Little River County

12 W Ashdown	25	1940CST			0	0			Hail (0.75)
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### Little River County

8 W Ashdown	25	1950CST			0	0			Hail (1.75)
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### Hempstead County

10 S Hope	25	2025CST			0	0			Hail (0.75)
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Hell for for 3 minutes along Highway 29.

### Miller County

Ravanna	25	2130CST			0	0			Hail (1.75)
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### Columbia County

5 S Magnolia	25	2255CST			0	0			Hail (0.75)
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## ATLANTIC OCEAN

### Chesapeake Bay N

### Beach To Drum Pt Md

5 N Cove Pt	13	1930EST			0	0			Marine Tstm Wind
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### Tidal Potomac Indian

### Hd To Cobb Is Md

Dahlgren	13	1940EST			0	0			Marine Tstm Wind
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### Tidal Potomac Key

### Bridge To Indian Hd

### Md

Rnld Reagan Natl Arpt	26	1434EST			0	0			Marine Tstm Wind
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### Tidal Potomac Indian

### Hd To Cobb Is Md

Quantico	26	1500EST			0	0			Marine Tstm Wind
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### Tidal Potomac Key

### Bridge To Indian Hd

### Md

Woodbridge	26	1500EST			0	0			Marine Tstm Wind
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### Chesapeake Bay Drum

### Pt To Smith Pt Va

Patuxent River Nas	26	1555EST			0	0			Marine Tstm Wind
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### Chesapeake Bay N

### Beach To Drum Pt Md

5 N Cove Pt	26	1630EST			0	0			Marine Tstm Wind
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# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>ATLANTIC OCEAN</u></b>									
Tidal Potomac Cobb Is Md To Smith Pt Va									
Lewisetta	26	1630EST			0	0			Marine Tstm Wind
Chesapeake Bay Drum Pt To Smith Pt Va									
17 E Patuxent River Nas	26	1700EST			0	0			Marine Tstm Wind
Chesapeake Bay Drum Pt To Smith Pt Va									
15 E Patuxent River Nas	26	1700EST			0	0			Marine Tstm Wind
Chesapeake Bay Drum Pt To Smith Pt Va									
Point Lookout	26	1700EST			0	0			Marine Tstm Wind
Chesapeake Bay Drum Pt To Smith Pt Va									
Smith Island	26	1700EST			0	0			Marine Tstm Wind
Tidal Potomac Cobb Is Md To Smith Pt Va									
Point Lookout	26	1700EST			0	0			Marine Tstm Wind
Chesapeake Bay N Beach To Drum Pt Md									
Cove Pt	26	1715EST			0	0			Marine Tstm Wind
Tidal Potomac Key Bridge To Indian Hd Md									
3 N Indian Head	31	1500EST			0	0			Marine Tstm Wind
Chesapeake Bay Drum Pt To Smith Pt Va									
Smith Island	31	1700EST			0	0			Marine Tstm Wind
Tidal Potomac Key Bridge To Indian Hd Md									
Rnld Reagan Natl Arpt	31	1738EST			0	0			Marine Tstm Wind

## **CALIFORNIA, Extreme Southeast**

NONE REPORTED.

## **CALIFORNIA, North Central**

NONE REPORTED.

## **CALIFORNIA, Northeast**

CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
12	0610PST				0	0			Dense Fog
Dense fog reduced visibility to less than 500 feet in the Vinton area of Sierra Valley.									
CAZ071-071>072- 072>073-073	Lassen/Eastern Plumas/Eastern Sierra - Greater Lake Tahoe Area - Mono								
13	1547PST 2211PST				0	0			High Wind (G91)
A strong cold front approaching from the Pacific brought strong and gusty southwest winds to the Sierra Nevada and northeast California during the afternoon and evening of March 13th. Typically, strongest gusts were over the Sierra crest where a gust to 105 m.p.h. was reported at the top of Mammoth Mountain. No damage was reported.									

## **CALIFORNIA, Northwest**

CAZ001-003	Redwood Coast - North Coast Interior								
13	0200PST 1900PST				0	0			High Wind (G74)
The maximum wind gust on the coast was 58 knots at Trinidad Head while the 74 knot maximum gust was measured at the Cooskie Mountain RAWS.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **CALIFORNIA, South Central**

### **Fresno County**

**Reedley**      **04**      **1230PST**                **0**      **0**           **Funnel Cloud**  
**1235PST**

Low-topped convection resulted in an unconfirmed report of a funnel cloud in the vicinity of Reedley. HNX WSR-88D reflectivity was in the 45-50 dBz value range with tops 10-15K feet.

### **CAZ096>097**

#### **S Sierra Mtns - Tulare Cty Mtns**

**14**      **1941PST**           **0**      **0**           **Winter Storm**  
**15**      **2100PST**

### **Mariposa County**

**Fish Camp**      **15**      **0300PST**           **0**      **0**           **Heavy Rain**  
**1155PST**

Tuolumne Meadows received 16 inches of new snow, Tamarack Summit 26", and Quaking Aspen 30" from this mid-month storm (after an unseasonable mild start of the month). Significant rain occurred at lower elevations of the Southern Sierra Nevada Mountains with 4 inches of rain reported by the 15th at the 5000-foot elevation at Fish Camp.

### **Kings County**

**Avenal to**      **15**      **0400PST**           **0**      **0**           **Heavy Rain**  
**Hanford**      **2000PST**

### **Tulare County**

**Cutler to**      **15**      **1310PST**           **0**      **0**           **Heavy Rain**  
**Sultana**      **1600PST**

### **Kern County**

**17 E Maricopa to**      **15**      **1930PST**           **0**      **0**           **Heavy Rain**  
**Mettler**      **2100PST**

Heavy rain led to some urban flooding in portions of the Southeast San Joaquin Valley in Tulare County as well as some rural flooding problems from sheet flow in the southernmost areas of the South San Joaquin Valley. Locally heavy rainfall was reported on the west side of the San Joaquin Valley on the 15th in convective activity. Avenal in west Kings County received over 1.1 inches of rain on the 15th. Lemoore had received 3/4-inch of rain by mid-afternoon on the 15th with street flooding reported in Hanford by mid-day with a total of 0.85" during the day. Rain amounts on the east side of the S.J. Valley were generally closer to 1/2" over the period from the 15th through the 18th. There was more convection for storm development on the west side than east side during this period.

### **CAZ089>090-092**

#### **W Central S.J. Valley - E Central S.J. Valley - Se S.J. Valley**

**15**      **1600PST**           **0**      **0**      **14K**      **Strong Wind**  
**18**      **1400PST**

After relatively small amounts of rain in January and February, a mid-March series of Pacific frontal systems brought locally heavy rain showers and gusty wind to the Central and South San Joaquin Valley beginning very early on the 15th and continuing into early on the 18th. Highest wind speeds were commonly reported in excess of 30 MPH for the period from the 15th through the 18th. At one time over 25,000 local utility customers were without power in the Central San Joaquin Valley.

### **CAZ095-098>099**

#### **Kern Cty Mtns - Indian Wells Vly - Se Kern Cty Desert**

**16**      **1933PST**           **0**      **0**      **3K**      **Strong Wind**  
**19**      **0400PST**

Gusty northwest wind plagued the Kern County Mountain and Desert areas consistently during mid-March. Generally winds ranged from 25 MPH upwards to around 50 MPH with isolated gusts higher in the vicinity of Mojave.

### **CAZ099**

#### **Se Kern Cty Desert**

**18**      **1646PST**           **0**      **0**      **1K**      **Strong Wind**  
**19**      **0400PST**

Northwest wind again arose in the Kern County Desert with Mojave gusting to near 60 MPH and nearby Rosamond Peak reporting gusts to 40 knots during March.

### **CAZ098>099**

#### **Indian Wells Vly - Se Kern Cty Desert**

**26**      **1047PST**           **0**      **0**           **High Wind (G79)**  
**27**      **0600PST**

### **CAZ095**

#### **Kern Cty Mtns**

**26**      **2046PST**           **0**      **0**      **1K**      **Strong Wind**  
**27**      **0600PST**

Gusty northwest wind again swept the Kern County Desert. Government Peak reached 79 knots from the north near evening on the 26th. Other reports included 30 knots at Inyokern Airport, 50 knots at Mojave and Edwards AFB Rocket Lab, and 48 knots on Lateral Mountain. In the Kern Mountains wind speeds to around 40 knots were prevalent during the same time period.

## **CALIFORNIA, Southeast**

### **CAZ028**

#### **San Bernardino County Deserts**

**26**      **1858PST**           **0**      **0**      **5K**      **Strong Wind**

A area of low pressure off the California coast brought strong winds to portions of the Mojave Desert. Winds gusting to near 50 mph

# Storm Data and Unusual Weather Phenomena

March 2003

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

## CALIFORNIA, Southeast

blew shingles off several roofs in Twentynine Palms, California.

## CALIFORNIA, Southwest

### Orange County

Countywide	15	0803PST			0	0	200K		Heavy Rain
	16	0244PST							

### CAZ055 San Bernardino County Mountains

	15	0937PST			0	0			Winter Weather/Mix
	17	0300PST							

### San Bernardino County

Ontario to Forest Falls	15	1016PST			0	0	500K		Heavy Rain
	16	0530PST							

### Riverside County

Temecula to Indio	15	1204PST			0	0	400K		Heavy Rain
	16	0551PST							

### San Diego County

Countywide	15	1951PST			0	0	200K		Heavy Rain
	16	0946PST							

### CAZ060 Apple And Yucca Valleys

	16	0130PST			0	0	50K		Flood
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A slow moving cold front, dropped three to seven inches of rain across Southwest California during a 24 hour period. Over 1000 traffic accidents and 6 deaths were attributed to standing water on roads. Some freeways had water 2 to 3 feet deep. Roofs collapsed on two stores in the Inland Empire. In the Apple Valley, the Mojave River overflowed it's banks, flooding several major roads between Hesperia and Apple Valley. Heavy rain in the mountains caused mud and rock slides that closed most highways for several hours. Five to eight inches of snow was reported above 8000 feet. Dense fog in the Cajon Pass, contributed to a 30 car pileup and several injuries. Dense fog along Interstate 15, just south of Hesperia, contributed to a 26 car pileup.

### CAZ042-048-050-057>058 Orange County Coastal Plain - San Bernardino County Valley/The Inland Empire - San Diego County Valleys - Santa Ana Mountains And Foothills - San Diego County Mountains

	28	0330PST			0	0	140K		High Wind (G63)
	29	1051PST							

This two day wind event began with strong northwest winds following a cold front moving across Southwest California. Then as high pressure built over the Great Basin, a Santa Ana wind developed. Most of the wind damage was from trees blowing onto roads, and falling on cars and power lines. A semi-tractor trailer was blown over on Interstate 8 in the San Diego Mountains.

## CALIFORNIA, Upper

### CAZ081-081-081-081 Central Siskiyou County

	13	0745PST			0	0			High Wind (G64)
		1545PST							

The Weed RAWS recorded a sustained wind of 40 mph at 0745 PST and 41 mph at 0845 PST.

A High Wind Warning was issued for California zone CAZ081 at 0519 PST on 03/12 and expired at 2100 PST on 03/13. The above observations verified the warning. In the case of gusts, only the strongest gusts are recorded above.

### CAZ084-084 Northeast Siskiyou And Northwest Modoc Counties

	13	1745PST			0	0			High Wind (G66)
		1830PST							

Siskiyou County Sheriff reported two overturned trucks on Hwy 139 5 miles south of Tulelake.

A High Wind Warning was issued for Oregon zones ORZ029/030/031 and California zones CAZ084/085 at 0523 PST on 03/13 and expired at 1517 PST on 03/13. The Tulelake airport observation listed above verified the warning, but the warning was cancelled too early.

### CAZ081 Central Siskiyou County

	14	0525PST			0	0			High Wind (G40)
	15	0501PST							

See below.

A High Wind Warning was issued for California zone CAZ081 at 0525 PST on 03/14 and expired at 0501 PST on 03/15. Unfortunately, no verifying observations were recorded.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## CALIFORNIA, Upper

CAZ080-082

**Western Siskiyou County - South Central Siskiyou County**

14 0549PST

0 0

Heavy Snow

15 0450PST

See below.

A Heavy Snow Warning was issued for the above locations effective at the above listed times. Sand Flat, at 6750 feet in the mountains east of Mt. Shasta City, recorded 23 inches of snow between 0700 PST on 03/14 and 0500 PST on 03/15. Unfortunately, no verifying reports were received at lower elevations, although it is likely that significant snow fell in these areas above 5000 feet.

CAZ082

**South Central Siskiyou County**

14 0800PST

0 0

Heavy Snow

Mt. Shasta Ski Park recorded 14 to 16 inches of snow in the 24 hours ending at 0800 PST.

A Heavy Snow Warning was issued for California zones CAZ080 above 5000 feet and for CAZ082/083 above 5500 feet at 0539 PST on 03/13. The warning was lowered to 5000 feet for zones CAZ082/083 at 1523 PST on 03/13. The warning was cancelled at 0549 PST on 03/14. The above observation verified the warning for CAZ082.

## CALIFORNIA, West South Central

CAZ039>040

**Santa Barbara County South Coast - Ventura County Coast**

15 0842PST

0 0

Flood

0915PST

A powerful winter storm brought heavy rain and flooding to Santa Barbara and Ventura counties. From the storm, coastal areas received between 1 to 3 inches of rainfall with the foothills and mountains receiving up to 7 inches of rainfall. The heavy rain produced major flooding in Santa Barbara county and resulted in numerous road closures. In Ventura county, urban flooding was reported due to runoff from the heavy rain, including the community of Oakview.

## CALIFORNIA, Western

NONE REPORTED.

## CARIBBEAN SEA AND TROPICAL ATLANTIC

**Flagler Beach To Cocoa**

**Beach Fl Out 20Nm**

5 N Cape Canaveral

07 1435EST

0 0 0

0 Marine Tstm Wind

A NASA weather tower recorded a wind gust to 36 knots from a thunderstorm.

**Flagler Beach To Cocoa**

**Beach Fl Out 20Nm**

Daytona Beach

09 1519EST

0 0 0

0 Marine Tstm Wind

Daytona International Airport recorded a wind gust to 38 knots from a thunderstorm.

**Jupiter Inlet To**

**Deerfield Beach Fl 20**

**To 60Nm**

4 E Jupiter Inlet

12 0936EST

0 0

Waterspout

The U.S. Coast Guard observed a waterspout.

**Jupiter Inlet To**

**Deerfield Beach Fl 20**

**To 60Nm**

6 E Jupiter Inlet

12 0955EST

0 0

Waterspout

The U.S. Coast Guard reported a waterspout.

**Cocoa Beach To**

**Jupiter Inlet Fl Out**

**20Nm**

10 SE St. Lucie Inlet

13 1824EST

0 0 0

0 Waterspout

A waterspout was reported in the coast waters off Martin County near Jupiter Inlet.

**Deerfield Beach To**

**Ocean Reef Fl**

9 S Government Cut

17 0300EST

0 0

Marine Tstm Wind

A convective wind gust of 41 knots was measured at Fowey Rocks Light.



# Storm Data and Unusual Weather Phenomena

March 2003

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

## CARIBBEAN SEA AND TROPICAL ATLANTIC

**Cocoa Beach To  
Jupiter Inlet Fl Out  
20Nm**

Patrick Afb	17	1835EST			0	0	0	0	Marine Tstm Wind
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Patrick AFB recorded a wind gust to 58 knots in a thunderstorm.

**Deerfield Beach To  
Ocean Reef Fl**

2 S Government Cut	17	2030EST			0	0			Marine Tstm Wind
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A thunderstorm wind gust of 46 knots was measured at AOML on Virginia Key.

**S Santee R Sc To  
Savannah Ga 20 To  
40Nm**

35 E Folly Beach	20	1344EST			0	0			Marine Tstm Wind
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**Flagler Beach To Cocoa  
Beach Fl Out 20Nm**

10 N Cape Canaveral	20	1945EST			0	0	0	0	Marine Tstm Wind
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A NASA weather tower recorded a wind gust to 41 knots from a thunderstorm.

**Cocoa Beach To  
Jupiter Inlet Fl Out  
20Nm**

20 SE St. Lucie Inlet	21	1010EST			0	0	0	0	Waterspout
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A waterspout was sighted in the Martin County coastal waters.

**Deerfield Beach To  
Ocean Reef Fl**

12 S Government Cut	22	1750EST 1810EST			0	0			Waterspout
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Two waterspouts were reported south of Key Biscayne.

**Ocracoke Inlet To Cp  
Lookout Nc Out 20Nm**

Ocracoke Inlet	30	0925EST			0	0			Marine Tstm Wind
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53 mph wind gust measured.

**Pamlico Sound**

Cedar Island	30	0925EST			0	0			Marine Tstm Wind
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53 mph wind gust measured from coastal observing station.

**Biscayne Bay**

11 NE Turkey Point to Turkey Point	30	1700EST			2	2			Marine Tstm Wind
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A 17-foot boat was swamped or capsized by strong thunderstorm winds associated with the passage of a cold front. A family of four on board were thrown into Biscayne Bay and remained there overnight for 15 hours before being rescued by the Coast Guard. Two children drowned and the 31-year-old parents were hospitalized for hypothermia.  
M2IW, M3IW

## COLORADO, Central and Northeast

**COZ036 Jefferson & W Douglas Counties Above 6000 Feet / Gilpin / Clear Creek / Ne Park Counties Below 9000 Feet**

01	1500MST	0	0	Heavy Snow
02	0300MST			

Localized areas of heavy snow developed in the foothills of Jefferson County. Storm totals included: 12.5 inches, 4 miles east-northeast of Conifer, 11 inches, 7 miles southwest of Boulder and 10 inches near Gennessee. Snow totals elsewhere generally ranged from 3 to 8 inches.

**COZ033>035-039 S & E Jackson / Larimer / N & Ne Grand / Nw Boulder Counties Above 9000 Feet - S & Se Grand / W Central & Sw Boulder / Gilpin / Clear Creek / Summit / N & W Park Counties Above 9000 Feet - Larimer & Boulder Counties Between 6000 & 9000 Feet - Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County**

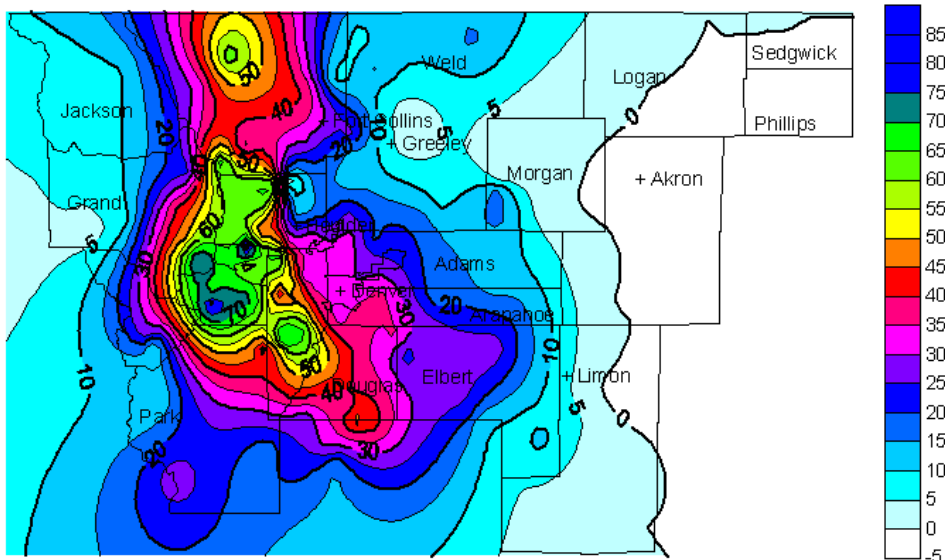
05	2325MST	0	0	0	High Wind (G90)
06	1205MST				

High winds developed in portions of the North-Central Mountains, Front Range Foothills and adjacent plains. Peak wind reports included: 104 mph (90 kts) atop Niwot Ridge and Peak 8 at Breckenridge Ski Area, 85 mph (74kts) at the Gamow Tower on the University of Colorado Campus in Boulder, 83 mph (72 kts) atop Corona Pass, 81 mph (70 kts), 2.5 miles north-northeast of Estes Park and 70 mph (61 kts) at the National Wind Technology Center west of Broomfield.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>COLORADO, Central and Northeast</b>									
<b>Adams County</b>									
5 NE Strasburg	17	1443MST 1445MST	0.1	50	0	0	0	0	Tornado (F0)
The first tornado of the season preceded the second biggest blizzard in Denver weather history. The small landspout touched down briefly but did no damage.									
<b>COZ031-033&gt;036</b>									
West Jackson & West Grand Counties Above 9000 Feet - S & E Jackson / Larimer / N & Ne Grand / Nw Boulder Counties Above 9000 Feet - S & Se Grand / W Central & Sw Boulder / Gilpin / Clear Creek / Summit / N & W Park Counties Above 9000 Feet - Larimer & Boulder Counties Between 6000 & 9000 Feet - Jefferson & W Douglas Counties Above 6000 Feet / Gilpin / Clear Creek / Ne Park Counties Below 9000 Feet									
	17	1800MST			0	0	31M		Winter Storm
	19	1800MST							
<b>COZ038&gt;041-043&gt;045</b>									
Larimer County Below 6000 Feet / Nw Weld County - Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County - N Douglas County Below 6000 Feet / Denver / W Adams & Arapahoe Counties / E Broomfield County - Elbert / C & E Douglas Counties Above 6000 Feet - C & S Weld County - Morgan County - C & E Adams & Arapahoe Counties									
	17	2200MST			0	2	62M		Blizzard
	19	1800MST							



A very moist, intense and slow moving Pacific storm system made its way across the four corners area and into southeastern Colorado from March 17th to the 19th, allowing for a deep easterly upslope flow to form along the Front Range. The storm dumped 31.8 inches of snow at the former Stapleton International Airport, good enough for second place in the Denver weather history record book. The storm also managed to vault March 2003 into first place for the snowiest March in Denver history and fifth place for the wettest March on record. In addition, the storm allowed the month of March to break a streak of 19 consecutive months of below normal precipitation in Denver. The mayor of Denver said, "This is the storm of the century, a backbreaker, a record breaker, a roof breaker." The heavy wet snow caused roofs of homes and businesses to collapse across the Urban Corridor. The snow also downed trees, branches and power lines. Up to 135,000 people lost power at some point during the storms and it took several days, in some areas, to restore power. Avalanches in the mountains and foothills closed many roadways, including Interstate 70 in both directions, stranding hundreds of skiers and travelers. Denver International Airport (D.I.A.) was also closed, stranding approximately 4000 travelers. In all, the estimated cost of the damage to property alone (not including large commercial buildings) was \$93 million, making it easily the costliest snowstorm ever in Colorado. The second costliest snowstorm was the 1997 blizzard where damage totalled \$10.5 million.

The areas hardest hit by heavy snow were the northern mountains east of the Continental Divide, the Front Range Foothills and Palmer Divide, where snowfall totals ranged from 3 ft. to over 7 ft. Some of the most impressive storm totals included: 87.5 inches at Fritz Peak and Rollinsville, 83 inches at Cabin Creek, 74 inches, 3 miles southwest of Bergen Park, 73 inches, at A-Basin and 8 miles northwest of Evergreen, 72 inches at Coal Creek Canyon, 70 inches at Georgetown, 67 inches at Allenspark, 66 inches, 10 miles west-northwest of Idaho Springs, 65 inches at Bear Lake in Rocky Mountain National Park, 63 inches, 3 miles west of Jamestown, 62 inches at Loveland Ski Area, 60 inches, 3 miles north of Blackhawk 55 inches at Eldora Ski Area, 54 inches, 8 miles west of Sedalia

# Storm Data and Unusual Weather Phenomena

March 2003

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

and 53 inches at Copper Mountain. At Eldora Ski Area, 270 skiers were stranded at the resort when an avalanche closed the main access road. After the storm ended, a military helicopter had to ferry food to the resort until the road could be cleared. Along I-70, an avalanche released by the Department of Transportation, blocked the interstate in both directions for several hours. In addition, several residences between Bakerville and Silver Plume were evacuated because of the high avalanche danger. As a result of the heavy snow, thousands of residents in the foothills of Jefferson County were trapped in their homes for several days. Some schools remained closed well into the next week. Two homes burned to the ground because fire crews could not reach the residences.

In the Urban Corridor and adjacent plains snow amounts ranged from 1 to 3 feet. Some of the snowfall totals included: 37 inches, 6 miles east of Parker and Buckley AFB, 35 inches in southwest Denver, 34 inches at Louisville, 32 inches in Arvada and Denver, 31 inches in Broomfield and Westminster, 25 inches near Loveland, 22.5 inches in Boulder, 17 inches south of Wiggins and 16 inches, 4 miles south of Bennett. In Denver alone, at least 258 structures were damaged. Two people were injured when their roofs collapsed. Two people died in Aurora from heart attacks after shoveling snow. In Arvada, a roof collapse at West Gate Stables killed a horse. Several travelers were stranded along I-70 east of Gun Club Road. The National Guard sent 40 soldiers and 20 heavy duty vehicles to rescue those that were stranded. As mentioned earlier, the heavy snow also forced the closure of D.I.A. which stranded 4000 travelers. The weight of the snow also caused a 40 ft. gash in a portion of the tent roof, forcing the evacuation of that section of the terminal. At the state capitol, lawmakers called their first "snow day", closing for the first such time ever.

## COLORADO, East Central

COZ091

**Kit Carson County**

27 0807MST 0 0 High Wind (G56)

Strong gradient winds behind low pressure in eastern Kansas brought sustained winds of 35 to 40 mph with a measured gust to 64 mph in Flagler Colorado.

## COLORADO, South Central and Southeast

COZ077-079>082-085-087

**West / Central Fremont County Below 8500 Ft - Wet Mountains Between 8500 And 10000 Ft - Wet Mountains Above 10000 Ft - Teller County / Rampart Range Above 7500 Ft / Pikes Peak Between 7500 & 11000 Ft - Pikes Peak Above 11000 Ft - Colorado Springs Vicinity / Southern El Paso County / Rampart Range Below 7500 Ft - Walsenburg Vicinity / Upper Huerfano River Basin Below 7500 Ft**

01 1600MST 0 0 Heavy Snow

02 0400MST

An upper level disturbance produced some heavy snow accumulations across the region. Some of the higher snow totals include...6 to 8 inches in and around Coaldale in Fremont county...Colorado Springs in El Paso county...Divide in Teller county... La Veta in Huerfano county...and Beulah in Pueblo county. Ten to 12 inches of snow was noted in Rye in Pueblo county and in Manitou Springs and higher elevations in western Colorado Springs in El Paso county.

COZ068

**Eastern San Juan Mountains Above 10000 Ft**

16 1200MST 0 0 Heavy Snow  
1700MST

5 inches of snow was noted at Wolf Creek Pass during the afternoon.

COZ058>088-094

**Eastern Lake County / Western Mosquito Range Above 11000 Ft - Leadville Vicinity / Lake County Below 11000 Ft - Eastern Sawatch Mountains Above 11000 Ft - Western Chaffee County Between 9000 & 11000 Ft - Central Chaffee County Below 9000 Ft - Eastern Chaffee County / Western Mosquito Range Above 9000 Ft - Saguache County West Of Continental Divide Below 10000 Ft - Saguache County East Of Continental Divide Below 10000 Ft - La Garita Mountains Above 10000 Ft - Upper Rio Grande Valley / Eastern San Juan Mountains Below 10000 Ft - Eastern San Juan Mountains Above 10000 Ft - Del Norte Vicinity / Northern San Luis Valley Below 8500 Ft - Alamosa Vicinity / Central San Luis Valley Below 8500 Ft - Southern San Luis Valley - Northern Sangre De Cristo Mountains Between 8500 & 11000 Ft - Northern Sangre De Cristo Mountains Above 11000 Ft - Southern Sangre De Cristo Mountains Between 7500 & 11000 Ft - Southern Sangre De Cristo Mountains Above 11000 Ft - Northwest Fremont County Above 8500 Ft - West / Central Fremont County Below 8500 Ft - Westcliffe Vicinity / Wet Mountain Valley Below 8500 Ft - Wet Mountains Between 8500 And 10000 Ft - Wet Mountains Above 10000 Ft - Teller County / Rampart Range Above 7500 Ft / Pikes Peak Between 7500 & 11000 Ft - Pikes Peak Above 11000 Ft - Canon City Vicinity / Eastern Fremont County - Northern El Paso County / Monument Ridge / Rampart Range Below 7500 Ft - Colorado Springs Vicinity / Southern El Paso County / Rampart Range Below 7500 Ft - Pueblo Vicinity / Pueblo County Below 6300 Ft - Walsenburg Vicinity / Upper Huerfano River Basin Below 7500 Ft - Trinidad Vicinity / Lower Huerfano River Basin & Western Las Animas County Below 7500 Ft - Eastern Las Animas County**

17 1700MST 0 0 Winter Storm

20 0500MST

A large, slow moving, moist system set up over the southern Great Plains on the 17th and brought persistent rain and snow to southern Colorado from the evening of the 17th to the morning of the 20th. Most of the accumulating snow fell above 6000 feet, which included the central and southeast mountains and high valleys...as well as the adjacent plains. Areas hardest hit by snow on the plains were the

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## COLORADO, South Central and Southeast

northern half of El Paso county and from southern Pueblo county to the New Mexico state line. Snow amounts just north of Colorado Springs reached above 3 feet, while the official reading at the airport was just 1.7 inches. Many areas around Trinidad in Las Animas county received over 1 foot of snow with Huerfano county snow amounts close to the mountains ranging from 1 1/2 feet to nearly 4 feet. In addition, sustained winds of 20 to 40 mph caused considerable blowing and drifting of snow, and blizzard conditions at times, closing several highways and portions of Interstate 25. Snow drifts of 4 to 10 feet were common across portions of northern El Paso county, north of Colorado Springs.

Heavy snow accumulations pushed over the Sangre de Cristo mountains into the San Luis Valley and into the Upper Arkansas River Valley in Chaffee and Lake counties. Snow amounts topped two feet in many locations in those areas.

The greatest snow amounts occurred in or near the appropriately named "Wet Mountains" in Pueblo and Custer counties. Unstable, moist air flowed into the Wet Mountains through the period allowing large amounts of snow to fall. Snow amounts were around 5 feet in Custer county northeast of Westcliffe. However, even higher snow amounts were measured and estimated on the east slopes of the Wet Mountains...on the Pueblo/Custer county line between 8700 and 9000 feet. Just north of San Isabel Lake in Custer county on highway 165, a very accurate measurement of 74 inches of snow was made. In that same area, an estimate of around 84 inches was reported on the shore of San Isabel Lake. Similar estimates of 6 feet were confirmed a few miles north of San Isabel Lake.

Many of the SNOTEL sites high in the southeast mountains reported between 2 and 4 feet of new snow with this storm, which equated to an increase of snow water equivalent (SWE) of anywhere from 1 to almost 5 inches.

COZ081-085

**Teller County / Rampart Range Above 7500 Ft / Pikes Peak Between 7500 & 11000 Ft - Colorado Springs Vicinity / Southern El Paso County / Rampart Range Below 7500 Ft**

26	2023MST	0	0	High Wind (G67)
	2045MST			

A fairly localized high wind event took place on the southwest side of Colorado Springs and in the Rampart Range immediately to the west. While winds were strong across the eastern mountains and adjacent plains due to swift mid level winds coming to the surface, in the above mentioned area, winds gusted over 70 mph for 2 to 3 hours. Winds were clocked at 77 mph atop Cheyenne Mountain, and in the 65 to 75 mph range over the Broadmoor and Skyway area in southwest Colorado Springs. No major damage was reported.

COZ074>075-079>080

**Southern Sangre De Cristo Mountains Between 7500 & 11000 Ft - Southern Sangre De Cristo Mountains Above 11000 Ft - Wet Mountains Between 8500 And 10000 Ft - Wet Mountains Above 10000 Ft**

27	1400MST	0	0	Heavy Snow
	2345MST			

An upper level disturbance in combination with upslope flow produced a small area of heavy accumulations of snow with minimal water content over the southern Sangre de Cristo and Wet Mountains in southeast Colorado during the evening. Rye, in Pueblo county, received approximately 17 inches of snow in 10 hours with a water equivalent of only 0.65 inches. Other snow amounts reported with this system were 8 inches at Beulah in Pueblo county...12 inches in the vicinity of Cuchara in Huerfano county, and 13 inches 1 mile to the north of San Isabel in Custer county.

## COLORADO, West

COZ001>014-017>023

**Lower Yampa River Basin - Central Yampa River Basin - Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Upper Yampa River Basin - Grand Valley - Debeque To Silt Corridor - Central Colorado River Basin - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Central Gunnison And Uncompahgre River Basin - West Elk And Sawatch Mountains - Flattop Mountains - Upper Gunnison River Valley - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Paradox Valley / Lower Dolores River Basin - Four Corners / Upper Dolores River Basin - Animas River Basin - San Juan River Basin**

01	0000MST	0	0	Drought
31	2359MST			

Despite many significant snowfall events in the mountains and some northern valleys of western Colorado, extreme drought conditions persisted throughout western Colorado. Please see the April 2003 Storm Data publication for a continuation of this drought saga.

COZ006

**Grand Valley**

01	0500MST	0	0	Winter Weather/Mix
	0930MST			

An upper level disturbance moved across western Colorado and produced 2 to 4 inches of snow in the Grand Valley. Moderate to heavy snow occurred at the Grand Junction ASOS for about 50 minutes.

COZ009-017>019

**Grand And Battlement Mesas - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

01	0630MST	0	0	Winter Weather/Mix
	1950MST			

An upper level disturbance moved across western Colorado and produced significant snowfall across the central and southern mountains. SNOTEL and spotter reports of new snow ranged from 5 to 7 inches.

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<b><u>COLORADO, West</u></b>									
<b>COZ004-013</b>			<b>Elkhead And Park Mountains - Flattop Mountains</b>						
	03	0900MST			0	0			Heavy Snow
<b>COZ009</b>	05	0400MST							
	A storm system moved across western Colorado and produced widespread snowfall amounts from 10 to 16 inches across the Elkhead and Park Mountains, as well as the Flat Tops. Local amounts up to 21 inches occurred above 10,000 feet.								
<b>COZ018&gt;019</b>			<b>Grand And Battlement Mesas</b>						
	03	0900MST			0	0			Heavy Snow
<b>COZ018&gt;019</b>	05	0400MST							
	A storm system produced heavy snow across the Grand and Battlement Mesas of west central Colorado. Spotter and SNOTEL information indicated widespread accumulations of 1 to 2 feet.								
<b>COZ003-010-012-017</b>			<b>Northwestern San Juan Mountains - Southwestern San Juan Mountains</b>						
	03	0900MST			0	0			Winter Weather/Mix
<b>COZ003-010-012-017</b>	05	0400MST							
	A storm system produced snowfall amounts ranging from 6 to 11 inches above 9,000 feet in the western San Juan Mountains.								
<b>COZ002-005</b>			<b>Roan And Tavaputs Plateaus - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Uncompahgre Plateau And Dallas Divide</b>						
	03	0900MST			0	0			Winter Weather/Mix
<b>COZ002-005</b>	05	0400MST							
	A storm system produced widespread snowfall amounts ranging from 8 to 13 inches across the central mountains of western Colorado. Local accumulations of 18 to 20 inches were measured across portions of the Gore and Elk Mountains, as well as the West Elk and Sawatch Mountains.								
<b>COZ004-013</b>			<b>Central Yampa River Basin - Upper Yampa River Basin</b>						
	03	0900MST			0	0			Winter Weather/Mix
<b>COZ004-013</b>	05	0400MST							
	Significant snow accumulations occurred across the high valleys of northwest Colorado as a storm system moved through the area. Spotter reports and automated sensor data indicated widespread amounts ranging from 4 to 8 inches.								
<b>COZ004-013</b>			<b>Elkhead And Park Mountains - Flattop Mountains</b>						
	06	1000MST			0	0			Winter Weather/Mix
<b>COZ019</b>	07	0400MST							
	A strong northwest flow produced 6 to 9 inches of snowfall across the mountains of northwest Colorado.								
<b>COZ019</b>			<b>Southwestern San Juan Mountains</b>						
	15	1100MST			0	0			Winter Storm
<b>COZ009-012-017&gt;018</b>	17	1500MST							
	A winter storm produced heavy snow and winds to 50 MPH across the mountains of southwest Colorado. Widespread snowfall amounts ranged from 11 to 15 inches with local amounts up to 20 inches.								
<b>COZ009-012-017&gt;018</b>			<b>Grand And Battlement Mesas - West Elk And Sawatch Mountains - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains</b>						
	16	0600MST			0	0			Winter Storm
<b>COZ001</b>	18	1500MST							
	A winter storm produced widespread heavy snow and winds to 40 MPH across the central mountains of western Colorado. Snowfall amounts ranged from 11 to 18 inches.								
<b>COZ001</b>			<b>Lower Yampa River Basin</b>						
	17	1800MST			0	0			Winter Weather/Mix
<b>COZ003</b>	18	0400MST							
	A storm system produced widespread significant snowfall across the lower Yampa River Basin. Accumulations from 3 to 4 inches were reported.								
<b>COZ003</b>			<b>Roan And Tavaputs Plateaus</b>						
	17	1800MST			0	0			Winter Storm
<b>COZ010</b>	18	1500MST							
	A winter storm produced widespread snow accumulations of 1 to 2 feet and strong winds across the plateaus of west central Colorado. Drifts from 6 to 7 feet high were reported along Highway 139 at Douglas Pass.								
<b>COZ004-013</b>			<b>Gore And Elk Mountains/Central Mountain Valleys</b>						
	17	1800MST			0	0			Heavy Snow
<b>COZ004-013</b>	18	1500MST							
	A storm system produced 10 to 15 inches of snow across the area.								
<b>COZ004-013</b>			<b>Elkhead And Park Mountains - Flattop Mountains</b>						
	17	2100MST			0	0			Heavy Snow
<b>COZ004-013</b>	18	1500MST							

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## **COLORADO, West**

A storm system moved across the area and produced widespread snow accumulations of 7 to 12 inches across the northern mountains of western Colorado. Reports were obtained from spotters and SNOTEL data.

### **COZ019**

#### **Southwestern San Juan Mountains**

22 1300MST 1 0 5K Avalanche  
1305MST

Nine people were driving snowmobiles just below the 12,000 foot level in the La Plata Mountains when one of the snowmobiles got stuck at a location behind the others. Another snowmobiler who came back to help triggered the avalanche which came down from a higher elevation of the mountain and engulfed the stuck snowmobiler. The victim was not recovered in time to be revived. The location of the avalanche was about 14 miles south of Rico on Burro Mountain. The avalanche was 700 feet wide and fell 800 vertical feet. M22OU

### **COZ018**

#### **Northwestern San Juan Mountains**

23 1400MST 0 1 Avalanche  
1405MST

A back country skier at the 12,600 foot level just east of the Telluride Ski Area was hit by an avalanche, swept over a cliff, and fell about 800 feet. The skier miraculously survived the ordeal and was rescued by a helicopter.

### **COZ004-013**

#### **Elkhead And Park Mountains - Flattop Mountains**

24 0100MST 0 0 Winter Weather/Mix  
1400MST

A fast moving storm system produced significant snowfall across the northern mountains of western Colorado. SNOTEL and ski resort data indicated widespread accumulations of 5 to 9 inches. One exception was at the Tower SNOTEL site in the Park Mountains where 14 inches fell.

### **COZ004-009>010-012>013**

#### **Elkhead And Park Mountains - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains**

26 1600MST 0 0 Winter Storm  
27 1800MST

A winter storm produced strong winds and widespread snowfall amounts that ranged from 10 to 14 inches across the central and northern mountains of western Colorado. Heavier amounts included 17 inches at the Snowmass Ski Area in the Elk Mountains and 20 inches at the Tower SNOTEL in the Park Mountains.

### **COZ001>003**

#### **Lower Yampa River Basin - Central Yampa River Basin - Roan And Tavaputs Plateaus**

26 1700MST 0 0 High Wind (G65)  
2300MST

A fast moving cold front produced strong winds across areas of western Colorado, with gusts mostly in the 45 to 55 knot range.

### **COZ003**

#### **Roan And Tavaputs Plateaus**

26 1800MST 0 0 Winter Weather/Mix  
27 1800MST

A storm system produced strong winds and widespread snowfall amounts from 4 to 8 inches across the Roan and Tavaputs Plateau. A wind gust of 75 mph was recorded at the Demaree RAWS.

### **COZ018**

#### **Northwestern San Juan Mountains**

26 1800MST 0 0 Winter Weather/Mix  
28 0300MST

A storm system produced strong winds and widespread snow accumulations of 6 to 10 inches across the northwest San Juan Mountains. A wind gust of 71 mph was recorded at the Telluride Ski Area. US Highway 550 on the north side of Red Mountain Pass was closed for almost nine hours beginning late on the night of the 27th.

### **COZ008**

#### **Central Colorado River Basin**

26 1935MST 0 0 High Wind (G50)  
2035MST

Microbursts from towering cumulus clouds combined with gradient winds to produce wind gusts to 50 knots. At the Eagle Airport, a peak gust of 106 knots was measured by the KEGE AWOS, although there was some question as to the validity of the wind gust data since no damage was reported at or near the airport.

### **COZ006-011**

#### **Grand Valley - Central Gunnison And Uncompahgre River Basin**

28 2028MST 0 0 Frost/Freeze  
29 0700MST

After an early start to the growing season, a cold airmass settled over western Colorado allowing overnight temperatures to fall well below freezing across the central lower valleys. Minimum temperatures ranged from 15 to 25 degrees. Peaches and apricots sustained significant damage. The damage to other fruits was minimal, and was actually considered beneficial since it naturally thinned the crop to a desired level. The total dollar estimate of damage to the peach and apricot crop can be found in the April 4, 2003 event posted in the April 2003 Storm Data Report.

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## CONNECTICUT, Northeast

**CTZ002>004**

**Hartford - Tolland - Windham**

**06 1000EST 0 0 150K Winter Storm**  
**2000EST**

A fast moving winter storm passing south of New England brought heavy snow to northern Connecticut, where totals of 6 to 12 inches were common. Dozens of minor accidents were reported as a result of poor visibility and slippery roads, but the overall impact of this late season storm was minimal in Hartford, Tolland, and Windham Counties.

Officially, 8.0 inches of snow was reported at Bradley International Airport in Windsor Locks. Other snowfall totals as reported by trained spotters included 11 inches in Woodstock; 10 inches in West Hartford and Thompson; 9 inches in Manchester, Bristol, Glastonbury, Ellington, and Ashford; 8 inches in East Hartford, Granby, and West Stafford; and 7 inches in Canton, Enfield, Unionville, Andover, and Storrs.

## CONNECTICUT, Northwest

**CTZ001**

**Northern Litchfield**

**06 1100EST 0 0 Winter Storm**  
**1600EST**

On March 6, a low pressure area moved across Virginia and out to sea. A large Canadian high pressure area over James Bay funneled in enough cold air to insure all snow. A swath of heavy snow fell across Litchfield County. Thundersnow was reported just south of New Preston. Snowfall totals included 9.0 inches at both Thomaston Dam and New Preston while 8.5 inches of snow fell at Bakersville. The snow brought the usual vehicular accidents as well as some school closings.

**CTZ001-001**

**Northern Litchfield**

**21 0730EST 0 0 25K Flood**  
**23 1000EST**

The season's first Bermuda high became established off the Atlantic coast from March 17 through 19. Across northwest Connecticut, temperatures climbed well above the freezing mark, allowing the unusually deep winter snow pack to begin to melt in earnest. A weak cold front then dropped south from eastern Canada, cooling temperatures down by the 20th. However, this front lifted right back north as a warm front loaded with moisture on March 20 and 21. This warm front brought 1 to 2 inches of rainfall over the region. The rain further accelerated the snowmelt and resultant runoff. The runoff produced minor flooding on the Housatonic on the 21st. The river gage at Gaylordsville crested at 9.46 feet, nearly a foot and a half above flood stage. Further downstream, the gage at Stevenson crested at 11.86 feet, nearly a foot above flood level. Some property damage was reported along the Housatonic.

## CONNECTICUT, Southern

**CTZ005>012**

**Northern Fairfield - Northern New Haven - Northern Middlesex - Northern New London - Southern Fairfield - Southern New Haven - Southern Middlesex - Southern New London**

**06 1400EST 0 0 Heavy Snow**  
**1900EST**

A weak low pressure system formed over the Ohio River Valley along a pre-existing and nearly stationary frontal boundary on Wednesday, March 5th. That night this storm started to move east, and passed just south of Connecticut on Thursday, March 6th. Meanwhile, an area of strengthening High Pressure started to build down from southern Canada. This created a north to northeast flow, which allowed rain and sleet at the onset of precipitation to quickly turn to snow, which remained the precipitation type for the duration of the storm. Snowfall amounts for this late winter storm were as follows:

Fairfield County: 6 to 9 inches, including 7.0 in Bridgeport and 7.7 in Danbury.

New Haven County: 5 to 8 inches, including 7.0 in New Haven.

Middlesex County: 6 to 9 inches.

New London County: 6 to 8 inches, including 8.0 in Norwich.

## DELAWARE

**DEZ001**

**New Castle**

**06 1315EST 0 0 0 Flood**  
**1555EST**

The combination of precipitation that fell on the second, fifth and sixth and snow melt helped cause minor flooding along the Christina River during the afternoon of the 6th. The Christina River at Coochs Bridge was above its 9 foot flood stage from 115 p.m. through 355 p.m. EST on the 6th. It crested at 9.15 feet at 245 p.m. EST on the 6th.

**DEZ001**

**New Castle**

**20 1731EST 0 0 Flood**  
**21 0338EST**

A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico produced heavy rain during the second half of the day on the 20th across New Castle County. Soil conditions remained moist due the combination of above normal precipitation and snow melt earlier in the month. The combination produced flooding along the Christina River on the 20th and 21st. The Christina River at Coochs Bridge was above its 9 foot flood stage from 531 p.m. EST on the 20th through 338 a.m. EST on the 21st. It crested at 11.41

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## DELAWARE

feet at 945 p.m. EST on the 20th. Storm totals included 2.32 inches in Wilmington, 2.09 inches in Newark and 1.96 inches at the New Castle County Airport. The low pressure system moved from Oklahoma the morning of the 19th, to Missouri the morning of the 20th and into the Great Lakes the morning of the 21st. Its associated warm front moved from the Gulf Coast States the morning of the 20th into New Jersey and Pennsylvania the morning of the 21st. The heavy rain preceded this feature.

### DEZ001

#### New Castle

20	2300EST	0	0	0	Astronomical High Tide
21	0300EST				

The combination of southeast winds up Delaware Bay and runoff from heavy rain helped produce minor tidal flooding around the time of the overnight high tide (20th into the 21st) in the Delaware River and tidal sections of its tributaries. High tide at Reedy Island reached 7.65 feet above mean lower low water. Minor tidal flooding begins at 7.2 feet above mean lower low water.

## DISTRICT OF COLUMBIA

### DCZ001

#### District Of Columbia

20	1415EST	0	0	Flood
	1800EST			

Between 2 and 2.25 inches of rain fell on the 20th. The heavy rainfall caused flooding on a handful of roads across the city.

## FLORIDA, East Central

### Seminole County

Sanford	07	1330EST	0	0	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down power lines and a large tree branch in Sanford. Sanford airport reported a wind gust to 54 mph.

### Volusia County

Deltona	07	1357EST	0	0	1K	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down numerous trees and power lines in Deltona.

### Okeechobee County

4 SE Ft Drum	12	1450EST	0	0	0	0	Hail (0.75)
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### St. Lucie County

18 W Ft Pierce to 15 W Ft Pierce	12	1450EST	0	0	0	0	Hail (0.75)
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### Martin County

Hobe Sound	12	1615EST	0	0	0	0	Hail (1.00)
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### Martin County

Stuart	13	1824EST	0	0	0	0	Hail (1.75)
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### Okeechobee County

Okeechobee	14	1920EST	0	0	0	0	Hail (1.00)
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### Osceola County

10 S St Cloud	14	2027EST	0	0	0	0	Hail (1.00)
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### Osceola County

5 S St Cloud	14	2105EST	0	0	2K	0	Thunderstorm Wind (G50)
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Severe thunderstorm winds broke off the tops of trees and damaged a carport in the Deer Run area.

### Orange County

4 SE Orlando	14	2132EST	0	0	0	0	Hail (1.00)
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### Orange County

Orlando	14	2210EST	0	0	0	0	Hail (0.75)
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### Seminole County

Goldentod	14	2220EST	0	0	0	0	Hail (1.00)
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### Volusia County

Deltona	14	2300EST	0	0	0	0	Hail (0.75)
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### Martin County

Stuart	16	1610EST	0	0	1K	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down trees and power lines and broke windows in Stuart.

### St. Lucie County

Port St Lucie	16	1650EST	0	0	1K	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down trees and power lines and broke windows in Port Saint Lucie.

### Osceola County

6 N Kenansville	16	1730EST	0	0	0	0	Hail (1.00)
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### Orange County

Orlando	17	1602EST	0	0	0	0	Hail (1.75)
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## FLORIDA, East Central

### Brevard County

Malabar 17 1610EST 0 0 0 0 Hail (1.00)

### Brevard County

Palm Bay 17 1615EST 0 0 0 0 Hail (0.75)

### Orange County

Orlando 17 1616EST 0 0 0 0 Hail (1.00)

Golf ball to dime size hail was reported over much of the Orlando metropolitan area.

### Brevard County

5 S Melbourne Beach 17 1630EST 0 0 0 0 Hail (2.50)

### Brevard County

Valkaria 17 1645EST 0 0 0 0 Hail (1.00)

### Lake County

Altoona 17 1648EST 0 0 0 0 Hail (1.00)

### Brevard County

Mims 17 1728EST 0 0 0 0 Hail (0.75)

### Brevard County

Palm Bay 17 1755EST 0 0 0 0 Hail (0.75)

### St. Lucie County

Ft Pierce 18 1615EST 0 0 1K 0 Thunderstorm Wind (G50)

Thunderstorm winds blew down a few trees and power lines in Fort Pierce.

### Martin County

5 S Stuart 18 1703EST 0 0 2K 0 Thunderstorm Wind (G50)

Thunderstorm winds damaged a carport, fence and metal shed, and blew down large tree limbs near Stuart.

### Volusia County

Deltona 19 1835EST 0 0 0 0 Hail (1.00)

### Volusia County

Deltona 19 1840EST 0 0 100K 0 Thunderstorm Wind (G80)

Strong thunderstorm winds swept across the Deltona area blowing down dozens of trees that damaged houses and vehicles.

### Brevard County

Scottsmoor 19 1955EST 0 0 0 0 Hail (0.88)

## FLORIDA, Extreme Southern

NONE REPORTED.

## FLORIDA, Northeastern

### Alachua County

Gainesville North 01 0700EST 0 0 Hail (2.00)

NW 43rd Street and US 441 in NW Gainesville.

### Gilchrist County

3 E Trenton 01 0755EST 0 0 Hail (1.00)

### Alachua County

Alachua 01 0800EST 0 0 Hail (0.75)

### Alachua County

Alachua 01 0800EST Thunderstorm Wind (G60)

### Clay County

Keystone Hgts 01 0810EST 0 0 Hail (1.00)

### Alachua County

Alachua 01 0810EST 0 0 Hail (1.00)

Reported to have knocked out windshields on Interstate 75.

### Alachua County

6 W Waldo 01 0815EST 0 0 Hail (1.75)

Damaged cars and homes. Covered ground. Dollar amount for damage unknown.

### Clay County

Penney Farms 01 0830EST 0 0 Hail (1.00)

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>FLORIDA, Northeastern</u></b>									
<b>Clay County</b>									
10 N Green Cove Spgs	01	0830EST			0	0			Hail (0.88)
<b>Alachua County</b>									
2 NW Waldo	01	0833EST			0	0			Hail (1.50)
Reported they could hear the hail coming.									
<b>Clay County</b>									
Orange Park	01	0836EST			0	0			Hail (0.75)
Along State Road 220.									
<b>Clay County</b>									
5 S Orange Park	01	0836EST			0	0			Hail (1.00)
Quarter sized hail reported in Eagle Harbor.									
<b>Clay County</b>									
5 S Orange Park	01	0840EST			0	0			Hail (1.00)
<b>Bradford County</b>									
Brooker	01	0845EST			0	0			Hail (1.50)
Reported as ping pong ball sized hail.									
<b>Suwannee County</b>									
Live Oak	01	0850EST			0	0			Thunderstorm Wind (G60)
Large trees down on power lines, near 808 Darrow Ave.									
<b>Bradford County</b>									
Hampton	01	0856EST			0	0			Hail (4.50)
<b>Clay County</b>									
Belmore	01	0920EST			0	0			Hail (1.75)
Hail covered the ground.									
<b>Clay County</b>									
4 S Orange Park	01	0940EST			0	0			Hail (0.75)
<b>St. Johns County</b>									
Fruit Cove	01	1000EST			0	0			Hail (0.75)
<b>Hamilton County</b>									
Jennings	01	1245EST			0	0			Thunderstorm Wind (G60)
Trees blown down onto highway 141.									
<b>Suwannee County</b>									
Countywide	01	2200EST 2359EST			0	0			Flash Flood
Numerous roads covered with water and closed. Bulb Farm Road washed out.									
<b>Columbia County</b>									
Countywide	09	1000EST 1230EST			0	0			Flash Flood
30 roads flooded. Pond View Mobile Home Park evacuated in Lake City when nearby dike broke. Interstate 10 eastbound closed for about an hour between Interstate 75 and U.S. 441. Water 5 feet deep with cars flooded on Old Country Club Road.									
<b>Suwannee County</b>									
Countywide	09	1000EST 1230EST			0	0			Flash Flood
Numerous flooded roadways. All dirt secondary roads reported as impassable. Several homes and mobile homes flooded in various portions of the county including Live Oak and Wellborn.									
<b>Baker County</b>									
Countywide	09	1100EST 1300EST			0	0			Flash Flood
Widespread flooding of low lying areas. All dirt secondary roads reported as impassable. Three homes reported to have flooding occurring in their lower levels.									
<b>Union County</b>									
Countywide	09	1100EST 1300EST			0	0			Flash Flood
Widespread flooding of low lying areas. 27 roads and streets flooded and impassable. 4 homes flooded and evacuated in Raiford.									
<b>Putnam County</b>									
Bostwick	13	0640EST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>FLORIDA, Northeastern</u></b>									
<b>St. Johns County</b>									
Bakersville	13	0715EST			0	0			Hail (0.75)
<b>St. Johns County</b>									
Sampson	13	0740EST			0	0			Hail (0.75)
<b>St. Johns County</b>									
2 SW St Augustine	13	0745EST			0	0			Hail (0.88)
Reported by construction crew at State Road 207 and U.S. Highway 1.									
<b>St. Johns County</b>									
Ponte Vedra Beach	13	0808EST			0	0			Hail (0.75)
<b>Duval County</b>									
Pickettville	13	1205EST			0	0			Hail (0.75)
Corner of Imeson Rd and Pickettville Rd.									
<b>Duval County</b>									
5 S (Jax)Jacksonville Int	13	1215EST			0	0			Hail (1.75)
Hail reported at Highlands on Trout River, additional report of one inch hail occurred at the same time.									
<b>Duval County</b>									
2 NE Marietta	13	1216EST			0	0			Hail (0.75)
Reported at interchange with Commonwealth Blvd and Interstate 295.									
<b>Baker County</b>									
Glen St Mary	13	1220EST			0	0			Hail (0.88)
Reported by teachers at Baker County High School.									
<b>Duval County</b>									
4 SW (Jax)Jacksonville Int	13	1220EST			0	0			Hail (0.88)
Reported on Dunn Ave and Interstate 295.									
<b>Duval County</b>									
2 SE Chaseville	13	1233EST			0	0			Hail (1.00)
Fort Caroline Rd and Rogero Rd.									
<b>Duval County</b>									
Jacksonville	13	1245EST			0	0			Hail (1.00)
On Myrtle Ave.									
<b>Clay County</b>									
4 E Doctors Inlet	13	1250EST			0	0	40K		Thunderstorm Wind (G60)
Large oak tree blown down onto house at 1670 Cinimmon Fern Ct. compromising the roof.									
<b>Clay County</b>									
Orange Park	13	1256EST			0	0			Funnel Cloud
Near Clay Hill Elementary School.									
<b>Duval County</b>									
2 NE Sunbeam	13	1300EST			0	0			Hail (0.75)
Southside Blvd and Belle Rive.									
<b>Duval County</b>									
Cedar Hills	13	1300EST			0	0			Hail (1.75)
Golf ball sized hail reported in several portions of the Jacksonville Westside, including W. Edgewood Ave., Walbash St., Deason St., and Suffolk Ave.									
<b>Duval County</b>									
2 SE Bowden	13	1305EST			0	0			Hail (1.00)
Interchange of Baymeadows Rd. and Interstate 95.									
<b>Clay County</b>									
Kingsley Lake to Penney Farms	13	1400EST 1430EST			0	0			Hail (1.00)
Originally reported as the size of large gum balls.									
<b>St. Johns County</b>									
Dupont Centre	13	1500EST			0	0			Hail (0.75)
Hail covering ground at State Road 206 and U.S. Highway 1.									
<b>St. Johns County</b>									
4 SW Dupont Centre	13	1510EST			0	0			Hail (1.75)
Golfball sized hail damaging cars on Interstate 95 4 miles north of Flagler County Line. Reported by Flagler County EMA.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>FLORIDA, Northeastern</u></b>									
<b>Hamilton County</b>									
5 SE Jennings	17	1630EST			0	0			Hail (0.88)
<b>Duval County</b>									
2 SE Southside Estates	17	1845EST			0	0			Hail (0.75)
At TV-47 Studios.									
<b>Clay County</b>									
Keystone Hgts	19	1800EST			0	0			Thunderstorm Wind (G60)
1815EST									
Large trees and power lines downed.									
<b>Putnam County</b>									
2 E Florahome	19	1820EST			0	0			Thunderstorm Wind (G60)
Truck blown off highway and into a ditch.									
<b>St. Johns County</b>									
St Augustine	19	1930EST			0	0			Hail (0.88)
<b>Marion County</b>									
Countywide	27	1200EST			0	0			Heavy Rain
1500EST									
In Ocala 5 blocks south of Magnolia Square Mall water half way up cars with several stalled vehicles.									
<b>Alachua County</b>									
10 W (Gnv)Gainesville A	27	1251EST			0	0			Hail (0.88)
County road 222 and Interstate 75.									
<b>Marion County</b>									
13 NW Ocala	27	1317EST			0	0			Hail (0.88)
1335EST									
Between Blitchton and the county line along U.S. highway 27.									
<b>Alachua County</b>									
5 W (Gnv)Gainesville A	27	1329EST			0	0			Hail (1.00)
Reported by FAA Employee.									
<b>Marion County</b>									
10 N Ocala	27	1334EST			0	0			Hail (0.75)
<b>Marion County</b>									
Lowell	27	1345EST			0	0			Funnel Cloud
<b>Alachua County</b>									
10 W (Gnv)Gainesville A	27	1357EST			0	0			Thunderstorm Wind (G60)
Large trees downed on 39th Avenue two blocks east of 34th Street.									
<b>Marion County</b>									
5 S Ocala	27	1450EST			0	0			Thunderstorm Wind (G60)
Numerous trees down along County Road 75.									
<b>Marion County</b>									
Lake Weir	27	1505EST			0	8			Thunderstorm Wind (G60)
8 persons injured when a 30 by 60 foot hospitality tent was blown over at The Villages retirement communities Nancy Lopez Golf Course. One person suffered serious facial injuries requiring transfer to a hospital in Orlando. Two dozen persons were trapped beneath the tent. Report supplemented from AP and CNN Reports.									
<b><u>FLORIDA, Northwest</u></b>									
<b>FLZ015-017-026&gt;029 Franklin - Leon - Liberty - Wakulla - Taylor - Lafayette</b>									
04	0600EST				0	0	1M		Flood
09	1800EST								
Periods of heavy rainfall, which ranged from three to six inches in Leon County to 14 inches in Taylor County, flooded many roads, homes and poor drainage areas. Residents along Munson Slough in northern Wakulla County were forced to evacuate as floodwaters seeped into their homes. Widespread flooding forced many families in Taylor County to evacuate to motels, while others were isolated by the rising floodwaters. Many septic tanks and water wells were damaged. Some residents along the swollen Apalachicola and Ocklockonee rivers in Liberty County experienced minor flooding. Minor to moderate flooding occurred near the Aucilla and Suwannee river basins. Floodwaters seeping into homes in Steinhatchee Springs forced residents to evacuate to higher ground. Local state of emergencies were declared in Leon, Wakulla, Taylor, Liberty and Lafayette counties.									
<b>Walton County</b>									
Choctaw Beach	20	0020EST			0	0	10K		Thunderstorm Wind (G50)
A tree was blown down onto a mobile home. Reported by the Walton County EMA.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
FLORIDA, Northwest									
Bay County									
Fountain	20	0317EST			0	0	50K	Thunderstorm Wind (G60)	
Straight-line winds damaged three homes and downed power lines. Reported by the Bay County EMA.									
Jackson County									
2 W Grand Ridge to 5 N Sneads	20	0350EST 0405EST	8	300	0	3	500K	Tornado (F2)	
A tornado touched down in Cypress, just west of Grand Ridge, and traveled northeast before lifting to the north of Sneads. Two mobile homes and a single-family home were destroyed. 15 single-family and mobile homes were damaged. Numerous trees and power lines were down. One person was seriously injured and two sustained minor injuries. Reported by the Jackson County EMA and CAP/NWS aerial survey team.									
Bay County									
Panama City	20	0500EST 0600EST			0	0	25K	Flash Flood	
Five inches of rain in three hours caused significant flooding of streets, intersections, and low-lying areas. Several cars were stranded along a flooded stretch of U.S. Highway 98. Reported by a TV meteorologist.									
Jefferson County									
5 W Monticello	20	2055EST			0	0	1K	Thunderstorm Wind (G50)	
Some trees down on Old Lloyd Creek Road and along U.S. Highway 90. Reported by the Jefferson County EMA.									
FLORIDA, Southern									
FLZ068-072-074									
Coastal Palm Beach - Coastal Broward - Coastal Dade									
01		1400EST			0	0		Excessive Heat	
23		1400EST							
During the 25-day period from February 27 through March 23 eighteen daily heat records were set in southeast Florida. These were more heat records than during any other 25-day period in southeast Florida at any time of year and at any time in history. Other notable heat records set during this time were the warmest temperature ever in March at both Miami and Fort Lauderdale with the a reading of 93 degrees on the 22nd. At Miami there was the earliest 90 degree temperature in the season on the 2nd and the warmest March minimum temperature of 80 degrees on the 20th.									
The entire month of March was the warmest on record at West Palm Beach, Fort Lauderdale and Miami. The average temperature of 78.8 degrees at Miami was only 0.3 degrees below the warmest average temperature for any month of April.									
Palm Beach County									
Jupiter	13	1845EST 1900EST			0	0		Hail (1.75)	
Palm Beach County									
Jupiter	13	1845EST 1900EST			0	0		Thunderstorm Wind (G60)	
A severe thunderstorm that formed near the intersection of a frontal boundary and the sea breeze front produced wind gusts of 60 mph and hail ranging from penny to golf ball in size.									
Doppler radar indicated localized maximum storm total rainfall amounts near 10 inches while a South Florida Water Management District rain gauge measured 2.73 inches of rain. Street flooding occurred on Military Trail between 45th Street and North Lake Boulevard. Excessive lightning caused numerous tree fires and power was knocked out to about 7000 customers.									
Broward County									
Coral Spgs	13	2340EST			0	0		Thunderstorm Wind (G65)	
A severe thunderstorm with wind gusts estimated at 65 mph blew down a 20-foot tall tree at 4643 University Drive.									
Glades County									
Ortona	14	2055EST			0	0		Thunderstorm Wind (G52)	
Trees and power lines were blown down.									
Broward County									
Deerfield Beach	15	1705EST			0	0		Thunderstorm Wind (G70)	
Several trees were blown down.									
Miami - Dade County									
Kendall	15	1835EST			0	0		Hail (0.75)	
A SKYWARN spotter reported 3/4 inch hail.									
Broward County									
Ft Lauderdale	16	1330EST			0	0	1.5K	Lightning	
Lightning struck the roof of a house and caused an estimated \$1500 damage.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
FLORIDA, Southern									
Broward County									
Sunrise Golf Vlg	16	1340EST 1350EST			0	0			Hail (1.00)
The Police Department reported hail 3/4 to 1 inch in diameter.									
Miami - Dade County									
25 WSW Florida City	17	0200EST			0	0			Thunderstorm Wind (G55)
Large branches were blown down and tents were blown away at a campground in Everglades National Park.									
Broward County									
Miramar	17	0330EST			0	0			Thunderstorm Wind (G55)
Broward County									
Pembroke Pines	17	0330EST			0	0			Thunderstorm Wind (G55)
Trees and power lines were blown down in areas from Pembroke Pines to Miramar.									
Broward County									
Hollywood	17	1500EST 1515EST			0	0			Hail (1.25)
Hail covered the ground in many areas from Hollywood to Pembroke Park and ranged in diameter from penny to golf ball-size.									
Miami - Dade County									
Kendall	17	1520EST 1530EST			0	0			Hail (0.88)
Hail ranging in diameter from penny to nickel-size fell in areas from West Kendall to Westchester.									
Broward County									
Miramar	17	1535EST			0	0			Hail (0.75)
Hail averaging 3/4 inch in diameter fell.									
Palm Beach County									
Palm Beach Gardens	17	1540EST			0	0			Hail (1.00)
A SKYWARN spotter saw quarter-size hail.									
Miami - Dade County									
Coral Gables	17	1558EST			0	0			Hail (1.00)
A SKYWARN spotter saw quarter-size hail.									
Miami - Dade County									
Hialeah	17	2020EST			0	0			Hail (0.75)
Quarter-size hail fell.									
Miami - Dade County									
Miami Beach	17	2028EST			0	0			Thunderstorm Wind (G70)
Thunderstorms produced wind gusts on south Miami Beach estimated at 80 mph.									
Broward County									
Pompano Beach	17	2030EST			0	0	25K		Thunderstorm Wind (G80)
Severe thunderstorm winds damaged docks, blew boats off of docks and uprooted trees.									
Collier County									
2 N Naples Muni Arpt to 2 NE Naples Muni Arpt	27	1420EST 1425EST	1	50	0	0	50K		Tornado (F1)
A tornado touched down in the Poinciana Village Subdivision. Several house roofs sustained damage to shingles and wood. Trees were also blown down.									
Collier County									
Ochopee	27	1500EST	0.5	20	0	0			Tornado (F0)
A fire chief photographed a tornado near the intersection of U.S. 41 and SR 29. The tornado did no known damage.									
Hendry County									
Devils Garden	27	1501EST	1	30	0	0			Tornado (F1)
A tornado was sighted southeast of Devils Garden moving east. No casualties or damage reported.									
Palm Beach County									
Belle Glade	27	1515EST 1520EST	0.5	25	0	0			Tornado (F0)
Sugar cane workers sighted a tornado. No casualties or damage were reported.									
Miami - Dade County									
12 W Sweet Water	27	1530EST	0.2	20	0	0			Tornado (F0)
A tornado was reported near the Miccosukee Indian Reservation. No casualties or damage was reported.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<u>FLORIDA, Southern</u>									
<b>Palm Beach County</b>									
Belle Glade	27	1625EST			0	0		Thunderstorm Wind (G50)	
		A tree was blown down.							
<b>Palm Beach County</b>									
Palm Beach Gardens	27	1640EST			0	0		Funnel Cloud	
		Funnel clouds were reported in Palm Beach Gardens and Wellington.							
<b>Palm Beach County</b>									
8 W Palm Beach Arpt	27	1650EST			0	0		Thunderstorm Wind (G50)	
		A power pole was blown down in Royal Palm Beach.							
<b>Miami - Dade County</b>									
North Miami Beach	27	1715EST 1720EST	1.8	300	0	0	75K	Tornado (F1)	
<b>Broward County</b>									
Hallandale	27	1720EST 1722EST	0.2	100	0	0	5K	Tornado (F0)	
		A tornado touched down near the southeast corner of the Presidential Golf Course and traveled northeast before lifting in Hallandale Beach. The maximum intensity occurred between NE 17th and 19th Avenues from 196th to 200th Streets where several house roofs and screened porches were damaged.							
<b>Miami - Dade County</b>									
Miami	27	1746EST 1751EST	6	600	1	14	8M	Tornado (F2)	
		The tornado initially touched down in East Hialeah, near NE 2nd Street and E 4th Avenue causing F0 damage to foliage. The tornado strengthened to F1 intensity as it moved east across E 9th Avenue. It achieved a maximum intensity of F2 with a maximum width of one third mile in an area from NW 37th to 27th Avenues in the Brownsville area. The intensity decreased to F1 as it moved east through Liberty City. The intensity further decreased to F0 as the tornado turned northeast and lifted just before entering Biscayne Bay near NE 70th Street.							
		F1 to F2 damage began in an industrial area where several warehouse roofs were damaged. One large free-span roof was nearly completely torn off. Several semi-tractor trailers, apparently empty, were toppled, one of which fell onto two cars, crushing them. The tornado moved through a residential area known as Brownsville, heavily damaging 60 houses. At one of the homes, a 65-year old male who was sitting in this house was killed when debris penetrated the structure. His wife who took shelter in the bathroom was uninjured. A total of 343 other structures sustained damage, mostly to roofs and windows. Several vehicles were rolled over. Numerous utility poles were broken, large trees were uprooted and signs were downed.							
		M65PH							
<u>FLORIDA, West Central</u>									
<b>Hernando County</b>									
2 NNW Brooksville to 2 NE Brooksville	09	1553EST 1558EST			0	0	15K	10K	Thunderstorm Wind (G52)
		Trees and power lines were down along the north side of Brooksville.							
<b>Hernando County</b>									
Nobleton	09	1603EST			0	0	50K	30K	Thunderstorm Wind (G52)
		Emergency Management performed a survey of the damage and determined the damage was caused by straight line winds. Many trees were down near Nobleton and power was off to 955 homes.							
<b>Sumter County</b>									
8 WSW Bushnell	09	1608EST			0	0		10K	Thunderstorm Wind (G52)
		Emergency Management reported multiple trees down due to strong winds.							
<b>Polk County</b>									
Haines City	09	1830EST			0	0	15K		Thunderstorm Wind (G52)
		Power lines were down along Avenue North.							
<b>Sarasota County</b>									
3.3 NNW Sarasota to 3.2 NNE Sarasota	10	1944EST 1950EST	3	50	0	0	150K		Tornado (F0)
		The National Weather Service storm survey found tornado and straight line wind damage with maximum winds estimated at 65 to 70 mph. The tornado damage began along 47th street near North Water Park and continued east to the Windmill Village North mobile home park. Seven permanent homes and 10 mobiles homes had shingle, carport, tree, and lanai damage.							
<b>Hillsborough County</b>									
Riverview	14	1530EST			0	0			Hail (0.75)
<b>Highlands County</b>									
Sebring	14	1740EST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<b>FLORIDA, West Central</b>									
<b>Highlands County</b>									
Avon Park	14	1900EST			0	0	5K		Thunderstorm Wind (G40)
A stationary thunderstorm blew the roof off a gabled section of a roof-over of a mobile home									
<b>Polk County</b>									
Cypress Gardens	16	1737EST			0	0			Hail (0.75)
<b>Hillsborough County</b>									
Riverview to 4 SE Riverview	17	0030EST			0	0	10K	5K	Thunderstorm Wind (G52)
The wind caused minor house damage and blew down 120 feet of fence near the corner of Balm Riverview and Rhodine. A tree fell on a mobile home in Riverview and multiple trees were down along State Highway 301.									
<b>Manatee County</b>									
Palmetto	17	1600EST			0	0	5K		Thunderstorm Wind (G52)
The storm caused roof damage with debris landing on State Road 70.									
<b>Sarasota County</b>									
Sarasota to 4 E Sarasota	17	1605EST			0	0	10K	5K	Thunderstorm Wind (G52)
Strong winds downed trees along Fruitville road in Sarasota and caused damage to the roof of a home 4 miles to the east of Sarasota.									
<b>Charlotte County</b>									
2 S Punta Gorda	27	1050EST 1105EST			0	0			Hail (0.75)
<b>Lee County</b>									
7 N Captiva	27	1250EST 1300EST			0	0	4K		Thunderstorm Wind (G52)
One fence and one tree were knocked down as well as several large limbs. Damage to trees and fences suggest a north to south wind event.									
<b>Levy County</b>									
Morrison	27	1254EST			0	0			Hail (0.75)
<b>Hillsborough County</b>									
2 S Temple Terrace to 4 NE Temple Terrace	27	1301EST 1315EST			0	0			Hail (1.75)
<b>Hillsborough County</b>									
4 NE Temple Terrace	27	1316EST 1320EST			0	0			Hail (1.75)
Numerous reports of dime to golf ball size hail was reported within several miles of the University of Southern Florida campus.									
<b>Pasco County</b>									
Wesley Chapel	27	1330EST			0	0	50K		Hail (1.75)
Cars were dinged at and near a strip mall while moderate winds (less than 50 knots) downed a tree onto a car and downed a power line that cut off power to 1,375 homes.									
<b>Citrus County</b>									
Crystal River to 2 N Crystal River	27	1400EST 1406EST			0	0			Hail (0.75)
<b>Citrus County</b>									
Crystal River	27	1400EST			0	0	20K		Thunderstorm Wind (G50)
Emergency management reported power lines downed by falling trees near SE 7th Avenue and minor building damage at the airport off of US Highway 19.									
<b>Hernando County</b>									
2 SE Brooksville to Brooksville	27	1408EST 1424EST			0	0			Hail (1.00)
<b>Citrus County</b>									
5 SE Inverness	27	1418EST			0	0			Hail (0.75)
<b>Pasco County</b>									
Land O Lakes	27	1421EST			0	0			Hail (1.00)
<b>Pasco County</b>									
Port Richey to Hudson	27	1503EST			0	0			Hail (0.75)



# Storm Data and Unusual Weather Phenomena

March 2003

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

## FLORIDA, West Central

### Pasco County

Land O Lakes	27	1507EST			0	0			Funnel Cloud
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A large rotating funnel cloud was reported by the public. Emergency management looked for signs it touched down but could not find any wind damage.

### Pasco County

Land O Lakes	27	1640EST			0	0			Thunderstorm Wind (G50)
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Trees downed power lines and knocked out power to 1,800 homes.

### Lee County

1.5 SSE Bonita Spgs to 4 E Bonita Spgs	27	1430EST	5	40	0	0			Tornado (F0)
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A weak tornado crossed Interstate 75 between mile marker 120-123 which is just north of the Lee/Collier county line. The tornado was caught on film and played on several local and national networks. Minimal debris was associated with the tornado as it passed through uninhabited areas of Lee county.

## FLORIDA, West Panhandle

### Escambia County

Myrtle Grove	12	1630CST 1632CST			0	0			Hail (0.75)
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### Escambia County

Pensacola	12	1700CST 1702CST			0	0			Hail (0.88)
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### Santa Rosa County

Gulf Breeze	12	1720CST 1722CST			0	0			Hail (1.00)
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### Escambia County

Pensacola Beach	12	1733CST 1735CST			0	0			Hail (0.75)
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### Santa Rosa County

Navarre	12	1745CST 1747CST			0	0			Hail (0.75)
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### Escambia County

Century	14	1620CST 1622CST			0	0			Hail (0.75)
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### Escambia County

Pensacola Beach	17	1035CST			0	1			Rip Current
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A sixteen year old female had to be pulled from rough surf at Pensacola Beach. She was transported to a local hospital where she was kept for observation for several hours and then released. She was swimming in an unguarded area of the beach when she became caught in a rip current and almost drowned.

### Okaloosa County

Destin to Ft Walton Beach	18	1300CST 1500CST			0	2			Rip Current
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Several people had to be rescued from the waters between Fort Walton Beach to east of Destin because of high surf and rip currents. Nine people had to be pulled from the water. Two required medical treatment and were transported to a local hospital. They were kept for several hours and later released. The rescues were not confined to one spot but were scattered at different locations along the beach.

### Escambia County

Pensacola Beach	27	1440CST			1	0			Rip Current
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A nineteen year old male from the local area drowned after being swept into the gulf by a strong rip current. He was swimming with two other youths when they were pulled seaward. Two of the youths were able to get out of the rip current and swim to shore. The young men were swimming in an unguarded area of the beach. Several beach-goers tried to rescue the drowning victim, but almost drowned themselves while attempting the rescue. Yellow flags warning of dangerous rip currents were flying at the time of the drowning.

M19IW

## GEORGIA, East Central

### Burke County

Waynesboro to Gough	19	2320EST 2345EST			0	0	25K	0	Hail (1.00)
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Public called and reported 3/4 to 1 inch hail. Several cars had been damaged.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<b><u>GEORGIA, Lower</u></b>									
<b>Echols County</b>									
Mayday	01	1300EST			0	0	5K		Thunderstorm Wind (G60)
			Large trees down on power lines.						
<b>Appling County</b>									
Countywide	07	1015EST 1415EST			0	0			Flash Flood
			Numerous roads flooded and dirt roads washed out. Reported by Ga. Area Coordinator.						
<b>Atkinson County</b>									
Countywide	07	1015EST 1415EST			0	0			Flash Flood
			Numerous roads flooded and dirt roads washed out. Report by Ga. Area Coordinator.						
<b>Bacon County</b>									
Countywide	07	1015EST 1415EST			0	0			Flash Flood
			Numerous roads flooded and dirt roads washed out. Report from Ga. Area Coordinator.						
<b>Coffee County</b>									
Countywide	07	1015EST 1415EST			0	0			Flash Flood
			Numerous roads flooded and dirt roads washed out. Report by Ga. Area Coordinator.						
<b>Jeff Davis County</b>									
Countywide	07	1015EST 1415EST			0	0			Flash Flood
			County Emergency Management Agency reports flooded roads and washed out dirt roads.						
<b>Ware County</b>									
North Portion	07	1015EST 1415EST			0	0			Flash Flood
			County Emergency Management Agency reported flooded roads and dirt roads washed out.						
<b>Clinch County</b>									
Argyle	13	1015EST			0	0			Thunderstorm Wind (G60)
			Large trees blown down on power lines.						
<b>Ware County</b>									
Waycross	13	1039EST			0	0			Hail (0.88)
			Reported by NWS employee working on equipment in Waycross.						
<b>Brantley County</b>									
Hickox	13	1045EST			0	0			Thunderstorm Wind (G60)
			Large trees down on power lines. Reported by Regional Electric Authority.						
<b>Charlton County</b>									
6 SW Folkston	13	1115EST			0	0			Thunderstorm Wind (G60)
			Large trees blown down on power lines along State Road 121 in Okefenokee National Wildlife Refuge.						
<b>Camden County</b>									
1 E St Marys	13	1200EST			0	0			Thunderstorm Wind (G60)
			Large trees and power lines blown down on Point Peter Causeway. Event reported by both the St. Marys Police Dept. and Camden County Fire Rescue.						
<b>Clinch County</b>									
2 N Dupont	17	1800EST			0	0			Hail (0.75)
<b>Coffee County</b>									
10 NW Douglas	19	1800EST			0	0			Hail (0.75)
<b>Coffee County</b>									
10 NW Douglas	19	1800EST			0	0			Thunderstorm Wind (G60)
			Satilla REMC employees reported large trees and power lines down.						
<b>Jeff Davis County</b>									
6 SE Denton	19	1900EST			0	0			Hail (0.75)
<b>Appling County</b>									
Baxley	19	1915EST 1930EST			0	0			Hail (1.25)
			Marble to half dollar sized hail.						
<b>Coffee County</b>									
Broxton	19	1915EST			0	0			Funnel Cloud

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>GEORGIA, Lower</u></b>									
<b>Appling County</b>									
Baxley	19	2000EST			0	0			Hail (1.00)
Satilla REMC employee report.									
<b>Wayne County</b>									
Odum	19	2015EST			0	0			Thunderstorm Wind (G60)
Satilla REMC report. A few large trees and power lines downed.									
<b>Appling County</b>									
Countywide	20	0900EST 1600EST			0	0			Heavy Rain
Excessive rainfall made dirt roads impassable and washed out some dirt roads. 10 County roads closed. School cancelled for next day.									
<b>Wayne County</b>									
Countywide	20	0900EST 1600EST			0	0			Heavy Rain
Estimated 3 to 7 inch rainfall caused dirt roads to become impassable and washed out some dirt roads.									
<b>Bacon County</b>									
Countywide	20	0900EST 1600EST			0	0			Heavy Rain
Dirt roads rendered impassable by mud and pooling of water, a few washed out. County roads experienced some flooding.									
<b>Atkinson County</b>									
Pearson	20	0942EST			0	0			Hail (0.75)
<b>Atkinson County</b>									
Willacoochee	20	1240EST			0	0			Hail (0.88)
<b>Coffee County</b>									
4 SE Douglas	20	1250EST			0	0			Hail (0.88)
Call sign KF4WSK.									
<b>Coffee County</b>									
15 SE Douglas	20	1300EST			0	0			Hail (2.75)
Reported as baseball sized.									
<b>Coffee County</b>									
Nicholls	20	1315EST			0	0			Hail (0.75)
Reported by county road crew.									
<b>Bacon County</b>									
1 N Alma	20	1325EST	0.1	.1	0	0			Tornado (F0)
Spotted by Emergency Management Director. Brief touchdown no significant damage.									
<b>Bacon County</b>									
Alma	20	1330EST			0	0			Hail (2.75)
Reported by emergency manager as baseball sized.									
<b>Wayne County</b>									
2 W Madray Spgs	20	1330EST			0	0			Hail (1.00)
Reported by pastor of Piney Grove Baptist Church.									
<b>Wayne County</b>									
Madray Spgs	20	1335EST	0.1	.1	0	0			Tornado (F0)
Brief touchdown near Madray Springs. Minor damage.									
<b>Appling County</b>									
12 S Baxley	20	1355EST			0	0			Hail (1.00)
<b>Atkinson County</b>									
4 E Willacoochee	20	1400EST			0	0			Hail (0.75)
<b>Wayne County</b>									
Odum	20	1410EST			0	0			Hail (0.88)
<b>Coffee County</b>									
Nicholls	20	1410EST 1420EST			0	0			Hail (1.25)
Hail put dings in a vehicle.									
<b>Atkinson County</b>									
Mora	20	1415EST	0.1	.1	0	0			Tornado (F0)
Brief touchdown. Abandoned chicken house near State Road 135 and Bee Scott Rd. destroyed.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>GEORGIA, Lower</u></b>									
<b>Coffee County</b>									
3 SE Douglas	20	1415	EST		0	0			Hail (1.25)
<b>Coffee County</b>									
3 SE Douglas	20	1415	EST		0	0			Thunderstorm Wind (G60)
Sheriffs Office reports large trees down on McKinnon Road.									
<b>Atkinson County</b>									
Kirkland	20	1420	EST		0	0			Thunderstorm Wind (G60)
Utility company reports several trees down in a straight line									
<b>Bacon County</b>									
2 W Alma	20	1430	EST		0	0			Hail (1.00)
<b>Coffee County</b>									
2 S Douglas Muni Arpt	20	1430	EST		0	0			Hail (2.75)
Reported as baseball sized.									
<b>Coffee County</b>									
Nicholls	20	1430	EST		0	0			Hail (0.88)
<b>Ware County</b>									
Countywide	20	1535	EST		0	0			Thunderstorm Wind (G60)
1550EST									
Trees and power lines blown down across the county. Marble sized hail also reported.									
<b>Bacon County</b>									
North Portion	20	1600	EST		0	0			Flash Flood
2130EST									
Numerous roads flooded and dirt roads washed out. Mobile homes threatened with flooding and evacuated.									
<b>Wayne County</b>									
Gardi	20	2015	EST		0	0			Hail (0.88)
<b>Wayne County</b>									
2 S Jesup to 3 S Jesup	20	2017	EST		0	0			Hail (0.88)
<b><u>GEORGIA, North and Central</u></b>									
<b>Banks County</b>									
2 NW Homer	05	2151	EST		0	0			Hail (1.75)
The Banks county 911 center reported golf ball size hail.									
<b>Heard County</b>									
Centralhatchee	05	2205	EST		0	0			Hail (1.00)
The Heard county 911 center reported quarter size hail.									
<b>Douglas County</b>									
5 SE Douglasville	05	2220	EST		0	0			Hail (0.75)
An off duty National Weather Service employee reported penny size hail on Georgia Highway 92 near the Fulton county line.									
<b>Fulton County</b>									
Campbellton	05	2220	EST		0	0			Hail (0.75)
An off duty National Weather Service employee reported penny size hail on Georgia Highway 92 near the Douglas county line.									
<b>Coweta County</b>									
Sharpsburg	05	2230	EST		0	0	0.50K		Thunderstorm Wind (G50)
The Coweta county 911 center reported that a few trees were down.									
<b>Troup County</b>									
La Grange	05	2230	EST		0	0			Hail (0.88)
The public reported nickel size hail.									
<b>Meriwether County</b>									
8 SW Luthersville to 2 S Luthersville	05	2300	EST		0	0			Hail (0.88)
2315EST									
The Meriwether county 911 center reported nickel size hail.									
<b>Meriwether County</b>									
2 S Luthersville	05	2300	EST		0	0	1K		Thunderstorm Wind (G50)
The Meriwether county 911 center reported that trees were down in the Primrose Circle area.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
GEORGIA, North and Central									
Pike County									
Hollonville	05	2300EST			0	0	20K		Thunderstorm Wind (G60)
A Pike county citizen reported that around 75 trees were blown down just north of Georgia Highway 362 at Hollonville. The same citizen also reported roof damage to his house. The Pike county 911 center also reported that two power poles were down in the same general area.									
Troup County									
Hogansville to 3 ENE Hogansville	05	2300EST			0	0			Hail (0.88)
The Meriwether county 911 center relayed reports of nickel size hail from Hogansville to near the Meriwether county line.									
Troup County									
La Grange	05	2300EST			0	0	1K		Thunderstorm Wind (G50)
The Troup county 911 center reported that a few trees were blown down.									
Spalding County									
3 W Griffin to Griffin	05	2310EST 2313EST			0	0			Hail (0.88)
The Spalding county 911 center reported penny size hail west of Griffin. The public reported penny to nickel size hail in Griffin.									
Butts County									
Jackson	05	2330EST			0	0			Hail (0.88)
The public reported penny to nickel size hail, while the Butts county 911 center reported penny size hail. A few tree limbs were also blown down as well.									
Floyd County									
Countywide	06	0330EST 0445EST			0	0			Flash Flood
The Floyd county 911 center reported that numerous roads were flooded all across the county from very heavy rain. The heavy rain was caused by thunderstorms that persisted over the county for several hours. Although the rain subsided, flooding from runoff continued and several people had to be evacuated from their homes later in the morning. Rainfall of two to four inches fell between 4 am and 7 am EST.									
Bartow County									
Countywide	06	0445EST 0724EST			0	0			Flash Flood
The Bartow county Emergency Management Director reported that heavy rain from thunderstorms that persisted over the county for several hours resulted in extensive flooding to roads. Even a mud slide was reported on Oak Grove road. In addition, several creeks near Adairsville rose out of their banks and caused flooding to four homes in the area. Pettit Creek also rose out of its banks flooding several roads and low lying areas.									
Cherokee County									
Woodstock	06	0449EST 0700EST			0	0			Flash Flood
The Cherokee county 911 center reported that several roads were flooded in and near the Woodstock area. Rainfall of three to four inches in a three to four hour period was common throughout the county.									
Forsyth County									
Cumming	06	0450EST 0700EST			0	0			Flash Flood
The Forsyth county 911 center reported that heavy rain resulted in the flooding of several roads in the Cumming area. Rainfall of three to four inches in a three to four hour period was common throughout the county.									
Hall County									
Countywide	06	0550EST 0700EST			0	0			Flash Flood
The Hall county 911 center reported that persistent heavy rain resulted in the flooding of several roads across the county. On Jim Hall road in Gainesville, a law enforcement officer reported that the creek below had risen to within inches of the bridge surface.									
GAZ019									
Floyd	06	0615EST 1200EST			0	0			Flood
The Floyd county 911 center reported that flooding continued in several areas around the county, although the rain had ended earlier in the morning. Flooding of creeks, low-lying areas, and some roads continued until mid-day. Several people were forced to be evacuated from their homes in the Rome area because of flooding.									
Bibb County									
Lizella	06	0845EST			0	0	2K		Thunderstorm Wind (G50)
The Bibb county Emergency Management Director reported that several trees were down in the western part of the county as a result of thunderstorm winds.									

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
GEORGIA, North and Central									
Forsyth County									
Cumming	06	1000EST 1200EST			0	0			Flash Flood
The Forsyth county 911 center reported that flooding of roads and low lying areas continued as a result of persistent heavy rain in the area. Nicholson and Old Federal Roads were flooded in Cumming.									
Polk County									
Cedartown	06	1000EST 1200EST			0	0	25K		Flash Flood
The Polk county Emergency Management Director and the county fire chief reported that a trailer park along Georgia Highway 27 at Georgia Avenue in Cedartown was flooded as a result of Big Cedar Creek. The creek overflowed its banks and crested over one foot above flood stage. Water from one to two feet deep was reported in some of the homes in the trailer park. Consequently, several people had to be evacuated from their homes. Rainfall of 3 inches or more was common throughout the area in a 3 to 4 hour period during the morning.									
Montgomery County									
Higgston	06	1700EST			0	0			Hail (0.75)
The public reported penny size hail.									
Muscogee County									
Columbus	13	1805EST 1834EST			0	0	225K		Thunderstorm Wind (G50)
The Muscogee county 911 center reported that over 17 reports of trees blown down were received from residents in the city of Columbus. The Columbus-Ledger Inquirer newspaper reported that one home in the historic district of Columbus was destroyed by a large tree that fell on the structure. Most of the homes damaged were on Schomberg Road, Mayo Drive, and Oates Avenue in Columbus. In addition, traffic lights and several power lines were also blown down. Other damage reports from the public included a tree down on a house causing damage and the side blown off a mobile home. Winds on the Columbus airport observation were measured at 39 knots, but most of the damage occurred in the city which is southeast of the airport. At least 3000 homes were left without power during the event.									
Webster County									
Preston	13	1835EST			0	0	2K		Thunderstorm Wind (G50)
The Webster county 911 center reported that several trees were down.									
Catoosa County									
Ringgold	19	1025EST			0	0	3K		Thunderstorm Wind (G50)
The Catoosa county 911 center reported that several trees and power lines were blown down along Interstate 75. Several barrels were also blown off the interstate in this area.									
Walker County									
Fairview	19	1050EST			0	0			Hail (0.88)
The Walker county 911 center reported that they had received several reports of penny to nickel size hail.									
Catoosa County									
5 NW Ringgold	19	1102EST			0	0	1K		Thunderstorm Wind (G50)
The Catoosa county 911 center reported that several trees were blown down.									
Dade County									
Morganville	19	1510EST			0	0	0.25K		Thunderstorm Wind (G35)
The Dade county 911 center reported that a tree was blown down at Old Hales Gap.									
Chattooga County									
Lyerly to 4 W Lyerly	19	1555EST 1600EST			0	0	5K		Hail (1.75)
The Summerville Post Office reported that a person experienced golf ball size hail while driving on Georgia Highway 42 between Summerville and Menlo. The hail caused damage to the vehicle. The Chattooga county 911 center reported quarter size hail in Lyerly.									
Chattooga County									
6 E Trion to Summerville	19	1617EST 1630EST			0	0			Hail (1.00)
The public reported penny size hail east of Trion near the city of New. The Summerville News reported quarter size hail in Summerville.									
Whitfield County									
5 NW Dalton to Dawnville	19	1708EST 1715EST			0	0			Hail (0.88)
Amateur radio operators relayed reports of penny to nickel size hail along and near Interstate 75 from northwest of Dalton at the Rocky Face exit into Dalton. The public reported penny size hail at Praetor's Mill near Dawnville.									

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated			
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Damage	Property	Crops	Character of Storm
<b><u>GEORGIA, North and Central</u></b>										
<b>Murray County</b>										
5 E Eton	19	1709EST			0	0				<b>Thunderstorm Wind (G50)</b>
An amateur radio operator relayed a report from the Murray County Emergency Operations Center of a 55 to 60 mph wind gust measured on their local weather station.										
<b>Chattooga County</b>										
Lyerly	19	1710EST			0	0				<b>Hail (1.00)</b>
The Lyerly police reported quarter size hail.										
<b>Polk County</b>										
Cedartown	19	1800EST			0	0				<b>Hail (1.00)</b>
The Polk county Emergency Operations Center reported quarter size hail.										
<b>Heard County</b>										
Glenn to Franklin	19	1810EST 1830EST			0	0				<b>Hail (0.88)</b>
The Heard county sheriff reported penny to nickel size hail in Glenn. A cooperative observer for the National Weather Service reported penny size hail in Franklin.										
<b>Haralson County</b>										
Felton	19	1815EST			0	0				<b>Hail (0.88)</b>
The public reported penny to nickel size hail.										
<b>Polk County</b>										
Cedartown	19	1820EST			0	0				<b>Hail (0.75)</b>
A local Cedartown radio station reported penny size hail.										
<b>Troup County</b>										
La Grange	19	1845EST 1850EST			0	0				<b>Hail (0.88)</b>
The public reported nickel size hail, while the Troup county 911 center reported penny size hail.										
<b>Marion County</b>										
Five Pts	19	1855EST			0	0	25K			<b>Thunderstorm Wind (G50)</b>
The public reported that strong thunderstorm winds blew part of a roof off a barn, blew over a grain auger, and knocked over one tree.										
<b>Coweta County</b>										
2 NE Grantville to 3 E Newnan	19	1900EST 1915EST			0	0				<b>Hail (0.75)</b>
The Coweta county 911 center received reports of penny size hail from just northeast of Grantville to east of Newnan in the Thomas Crossroads area.										
<b>Heard County</b>										
Corinth	19	1900EST			0	0				<b>Hail (0.75)</b>
The Coweta county 911 center relayed a report of penny size hail.										
<b>Coweta County</b>										
Raymond	19	1910EST			0	0	1K			<b>Thunderstorm Wind (G50)</b>
The Coweta county 911 center reported that trees had blown down.										
<b>Coweta County</b>										
Newnan to 2 N Moreland	19	1918EST 1927EST			0	0				<b>Hail (0.75)</b>
The public reported penny size hail in Newnan and an amateur radio operator reported penny size hail just northeast of Moreland.										
<b>Taylor County</b>										
2 N Butler to Butler	19	1920EST 1933EST			0	0				<b>Hail (0.75)</b>
The Taylor county 911 center reported penny size hail north of Butler and penny size hail was observed at a local grocery store in Butler.										
<b>Taylor County</b>										
Charing	19	1920EST			0	0	1K			<b>Thunderstorm Wind (G45)</b>
The Macon Telegraph reported that a large tree fell across Georgia Highway 137 near Charing. Several thousand customers were also left without power across the county.										
<b>Crawford County</b>										
Knoxville to 9 NE Knoxville	19	1949EST			0	0				<b>Hail (0.75)</b>
Amateur radio operators reported penny size hail.										

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<b><u>GEORGIA, North and Central</u></b>									
<b>Bibb County</b>									
Lizella	19	1950EST 2002EST			0	0			Hail (1.00)
									Amateur radio operators reported quarter size hail.
<b>Taylor County</b>									
Reynolds	19	1950EST			0	0			Hail (1.75)
									The Taylor county 911 center reported golf ball size hail.
<b>Crawford County</b>									
3 E Roberta	19	2010EST			0	0	25K		Thunderstorm Wind (G52)
									The Crawford county 911 center reported that several trees were blown down on automobiles.
<b>Peach County</b>									
Ft Vly to Byron	19	2015EST 2026EST			0	0			Hail (1.00)
									Several reports of quarter size hail were received from Byron, with penny size hail in the Fort Valley area.
<b>Peach County</b>									
6 NE Ft Vly	19	2019EST			0	0	10K		Thunderstorm Wind (G52)
									The Peach Emergency Management Director reported that a 60 foot by 60 foot pole barn, enclosed on three sides, was completely destroyed. This structure was located about halfway between Fort Valley and Byron.
<b>Bibb County</b>									
Macon	19	2020EST			0	0			Hail (0.75)
									The public reported penny size hail.
<b>Twiggs County</b>									
Huber	19	2025EST			0	0			Hail (0.88)
									An amateur radio operator reported nickel size hail.
<b>Wilkinson County</b>									
Mc Intyre	19	2039EST			0	0			Hail (0.75)
									The public reported penny size hail.
<b>Houston County</b>									
Warner Robins	19	2040EST 2050EST			0	0			Hail (2.50)
									Numerous reports of hail, ranging in size from penny to quarter to golf ball hail, were received from the public in the Warner Robins area. There was one report of tennis ball size hail.
<b>Baldwin County</b>									
Hardwick	19	2050EST			0	0			Hail (0.75)
									The public reported penny size hail.
<b>Twiggs County</b>									
Bullard	19	2050EST			0	0			Hail (1.75)
									The Twiggs county 911 center reported golf ball size hail.
<b>Houston County</b>									
(Wrb)Warner Robins A t Warner Robbins Arpt	19	2059EST			0	0			Thunderstorm Wind (G54)
									The Warner Robins airport METAR observation indicated a wind gust of 54 knots or 62 mph.
<b>Henry County</b>									
Hampton	19	2113EST			0	0			Hail (0.75)
									An amateur radio operator reported penny size hail.
<b>Wilkinson County</b>									
Irwinton	19	2135EST			0	0			Hail (0.75)
									The Wilkinson county 911 center reported penny size hail.
<b>Wilkinson County</b>									
Toombsboro	19	2200EST			0	0			Hail (0.75)
									The U.S. Post Office in Toombsboro relayed a report of penny size hail.
<b>Washington County</b>									
Oconee	19	2205EST			0	0			Hail (0.75)
									The U.S. Post Office in Oconee relayed a report of penny size hail in Oconee. Most of the hail was less than dime size.



# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
GEORGIA, North and Central									
Jefferson County									
Louisville	19	2320EST			0	0		Hail (0.75)	
The Jefferson county 911 center and the public both reported penny size hail.									
Coweta County									
Newnan to Sharpsburg	19	2336EST			0	0		Hail (1.00)	
Several reports were received from the public, including one report from an off duty National Weather Service employee, of hail ranging in size from pennies to quarters were reported from Newnan to the Thomas Crossroads area east of Newnan to Sharpsburg.									
Barrow County									
Bethlehem	19	2345EST			0	0		Hail (0.88)	
	20	0003EST							
The public reported penny to nickel size hail.									
Walton County									
Loganville	19	2350EST			0	0		Hail (0.75)	
The public reported penny size hail.									
Gwinnett County									
Centerville to Grayson	20	0000EST			0	0		Hail (1.25)	
Numerous reports of penny to nickel size hail were received from the cities of Centerville, Snellville, and Grayson. One report of quarter size hail and another report of quarter to half-dollar size hail were received from Grayson.									
Gwinnett County									
Snellville	20	0015EST			0	0		Heavy Rain	
The public reported that some streets were flooded because of very heavy rain. In excess of three inches of rain fell across much of the county between midnight and 3 am.									
Meriwether County									
Durand	20	0015EST			0	0		Hail (0.88)	
The Meriwether county 911 center reported penny to nickel size hail.									
Fulton County									
College Park	20	0025EST			0	0	2K	Thunderstorm Wind (G50)	
The Fulton county Emergency Management Director reported that some power lines were blown down.									
Troup County									
La Grange	20	0050EST			0	0		Hail (0.75)	
The Troup county 911 center reported penny size hail.									
Clayton County									
Countywide	20	0200EST 0600EST			0	0		Flash Flood	
The Clayton county 911 center reported that excessive rainfall across the county in a 2-4 hour time period resulted in the flooding of many roads across the county. Upper Riverdale Road, Homestead Road, and Minnor Drive were all flooded and had to be closed. Numerous other roads around the county had standing water and minor flooding as well.									
Fayette County									
Countywide	20	0200EST 0300EST			0	0		Flash Flood	
The Fayette county 911 center reported that several roadways were flooded from heavy rain during a 2-3 hour period. Roads included Georgia Highway 54/McDonough Road east of Fayetteville, Georgia Highway 74 at Tyrone Road, Adams Road at Sandy Creek Road, and parts of Rising Starr Road. The flooding was limited to about a one-hour period and no road closures were reported.									
Henry County									
Countywide	20	0200EST 0600EST			0	0		Flash Flood	
The Henry county 911 center reported that excessive rainfall resulted in the flooding of several roads. Several roads had to be closed, including Pinehurst Road between Valley Road and Old Conyers Road, and Georgia Highway 20 at Interstate 75.									
Banks County									
South Portion	20	0300EST 0700EST			0	0		Flash Flood	
The Banks county 911 center reported that excessive rainfall resulted in the flooding of several roads in the south part of the county near the Jackson county border. U.S. Highway 441 had to be closed for several hours because of flooding.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>GEORGIA, North and Central</u></b>									
<b>Coweta County</b>									
3 E Newnan	20	0300EST 0800EST			0	0	8.5K		Flash Flood
An off duty National Weather Service employee reported that flash flooding caused extensive damage to his home in the Thomas Crossroads area east of Newnan.									
<b>Barrow County</b>									
Countywide	20	0305EST 0900EST			0	0			Flash Flood
The Barrow county 911 center reported that excessive rainfall resulted in the flooding of several roads in the county including Moon Bridge Road, Chicken Lyle Road, Bill Rutledge Road, Georgia Highway 53N, City Pond Road, and Hale-Jackson Road. Parts of all of these roads had to be closed for several hours.									
<b>Jackson County</b>									
Countywide	20	0311EST 0900EST			0	0			Flash Flood
The Jackson county Emergency Management Director reported extensive flooding of roads caused by excessive rainfall. At least five county roads were closed because of flooding and there was a dam emergency declared at a spillway on Jeff Roberts Road. In addition, seventeen people were trapped inside a recreational vehicle (RV) park near Commerce when the RV park was flooded. All of the campers were rescued safely.									
<b>Walton County</b>									
Countywide	20	0400EST 1000EST			0	0			Flash Flood
The Walton county 911 center reported that excessive rainfall resulted in the flooding of several roads. Two roads in Monroe, Grady Smith and Bold Springs , had to be closed because of flooding.									
<b>Houston County</b>									
Warner Robins to Centerville	20	0700EST 0900EST			0	0	60K		Flash Flood
The Georgia Emergency Management Agency, as well as the Houston Home Journal of Perry, reported that excessive rainfall caused considerable flooding across the county. The flooding resulted in the closure of three roads and damage to three residences near Bay Gall Creek in the Warner Robbins and Centerville areas.									
<b>Dooly County</b>									
Countywide	20	0730EST 1000EST			0	0			Flash Flood
The Dooly county 911 center reported that excessive rainfall caused a number of roads to be flooded across the county. However, no road closures were reported.									
<b>Bleckley County</b>									
Countywide	20	0800EST 1000EST			0	0			Flash Flood
The Bleckley county 911 center reported that excessive rainfall caused numerous roads across the county to become flooded. A couple of roads had to be closed briefly.									
<b>Dodge County</b>									
Countywide	20	0830EST 1030EST			0	0			Flash Flood
The Dodge county 911 center reported that excessive rainfall caused numerous roads around the county to become flooded. However, no road closures were reported.									
<b>Crisp County</b>									
Countywide	20	0845EST 1100EST			0	0	5K		Flash Flood
The Crisp county 911 center reported that excessive rainfall resulted in the flooding of many roads across the county. In addition, a house in Cordele was flooded.									
<b>Laurens County</b>									
Countywide	20	0845EST 1045EST			0	0	40K		Flash Flood
The Laurens county Emergency Management Director reported that excessive rainfall during the early morning hours resulted in the extensive flooding of roads countywide, ten of which were washed out. Thirty roads had to be closed because of flooding, including U.S. Highway 441/Georgia Highway 19 south of Dublin. Six of these roads remained closed for more than 24 hours so that emergency repairs could be made. Three residences had to be evacuated because of rising runoff waters and two vehicles were abandoned in rising flood waters. However, no rescues had to be made. The rainfall and runoff stopped just short of causing major damage to roads in the county, thus repair costs were minimal. The county schools had to be released early on the 20th because of the extensive flooding and road closures in progress across the county.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
<b><u>GEORGIA, North and Central</u></b>										
<b>Pulaski County</b>										
Countywide	20	0900EST 1100EST			0	0	25K			Flash Flood
The Pulaski county 911 center reported that excessive rainfall caused extensive flooding to roads in the county. Some of the major roads flooded included U.S. Highway 341, U.S. Highway 129, and Georgia Highway 26. A number of roads were washed out.										
<b>Barrow County</b>										
5 N Statham	20 21	0948EST 1545EST			0	0				Flash Flood
National Weather Service automated river gages indicated that because of excessive rainfall on the order of 3 to 5 inches in 6-hours or less, the Middle Oconee River on the Jackson/Barrow county line rose from 5 feet or less to flood stage of 16 feet in less than six hours. The river then continued to rise and crested at 19.7 feet around 7 pm in the evening. Moderate flooding begins at 18 feet and major flooding occurs at 22 feet.. Residents in the area reported that the river was higher than they had seen in years.										
<b>Jackson County</b>										
3 S Arcade	20	0948EST 1545EST			0	0				Flash Flood
National Weather Service automated river gages indicated that because of excessive rainfall on the order of 3 to 5 inches in 6-hours or less, the Middle Oconee River on the Jackson/Barrow county line rose from 5 feet or less to flood stage of 16 feet in less than six hours. The river then continued to rise and crested at 19.7 feet around 7 pm in the evening. Moderate flooding begins at 18 feet and major flooding occurs at 22 feet.. Residents in the area reported that the river was higher than they had seen in years.										
<b>Treutlen County</b>										
Soperton	20	1415EST			0	0				Hail (1.75)
The Treutlen county 911 center reported golf ball size hail.										
<b>Emanuel County</b>										
Twin City	20	1440EST			0	0				Hail (0.75)
The Emanuel county 911 center reported penny size hail.										
<b>Emanuel County</b>										
3 SE Twin City	20	1455EST			0	0				Hail (1.75)
The George L. Smith State Park reported golf ball size hail.										
<b>Telfair County</b>										
3 WSW Cobbsville	20	1505EST			0	0				Hail (1.00)
The Jacksonville Post Office relayed a report of quarter size hail. The hail lasted up to 15 minutes.										
<b>Walker County</b>										
Chickamauga	20	1550EST			0	0				Hail (0.75)
The Walker county 911 center reported penny size hail.										
<b>GAZ056</b>										
<b>Spalding</b>										
	30	0925EST			1	0	10K			Strong Wind
Strong northwest winds of 35 to 40 mph associated with a late season winter cold front blew a large red oak tree onto a 71-year old man's car while traveling westbound on College Street. It took nearly an hour to pull the man's body from the wreckage. The man was pronounced dead at the scene and was determined to have died from a broken neck. Wind gusts of 39 mph were measured at Atlanta's Hartsfield International Airport, some 40 miles to the northwest of the incident location.										
M71VE										
<b><u>GEORGIA, Northeast</u></b>										
<b>Habersham County</b>										
2 N Clarkesville	06	0145EST			0	0	0.50K			Thunderstorm Wind (G50)
A privacy fence was blown down at a residence.										
<b>Franklin County</b>										
Royston	06	0210EST			0	0	1K			Thunderstorm Wind (G55)
Several cars were blown off of roads and power lines were blown down.										
<b>Hart County</b>										
12 NNW Hartwell	06	0230EST			0	0	5K			Thunderstorm Wind (G65)
Winds estimated at 80 mph blew several tractor trailer trucks off of I-85 near the South Carolina border.										
<b>Elbert County</b>										
Dewey Rose	19	2110EST			0	0				Hail (0.88)
<b>Elbert County</b>										
Elberton	19	2125EST			0	0				Hail (0.88)

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated	March 2003	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<b><u>GEORGIA, Northeast</u></b>									
<b>Stephens County</b>									
Countywide	20	0130EST 0400EST			0	0			Flash Flood
Several low bridges flooded throughout the county shortly after midnight, and some small streams began overflowing their banks before sunrise.									
<b><u>GEORGIA, Southeast</u></b>									
<b>Long County</b>									
7 W Ludowici	19	2040EST 2043EST			0	0			Hail (1.75)
<b>Liberty County</b>									
Gum Branch	19	2055EST 2058EST			0	0			Hail (1.00)
<b>Liberty County</b>									
Hinesville	19	2107EST 2110EST			0	0			Hail (1.00)
<b>Chatham County</b>									
4 SE Burroughs	19	2108EST 2110EST			0	0			Hail (1.00)
<b>Liberty County</b>									
3 NE Hinesville	19	2113EST 2115EST			0	0			Hail (1.00)
<b>Long County</b>									
5 NE Ludowici	19	2222EST 2225EST			0	0			Hail (1.00)
<b>Liberty County</b>									
Walthourville	20	1400EST			0	0			Hail (0.75)
<b>Mcintosh County</b>									
10 E South Newport	20	1624EST			0	0			Thunderstorm Wind (G52)
<b>Liberty County</b>									
Allenhurst	20	1406EST 1410EST			0	0			Hail (1.75)
<b>Liberty County</b>									
Allenhurst	20	1406EST			0	0			Thunderstorm Wind (G52)
<b>Bryan County</b>									
Richmond Hill	20	1430EST			0	0			Hail (1.75)
<b>Long County</b>									
Ludowici	20	1435EST			0	0			Hail (0.88)
<b>Long County</b>									
Ludowici	20	1436EST 1440EST			0	0			Hail (1.75)
<b>Chatham County</b>									
1 S Savannah	20	1454EST			0	0			Hail (0.88)
<b>Liberty County</b>									
Riceboro	20	1615EST			0	0			Hail (0.88)
<b>Bulloch County</b>									
5 NE Portal	20	1505EST			0	0			Thunderstorm Wind (G50)
Several trees were down.									
<b>Screven County</b>									
8 SE Woodcliff	20	1535EST 1540EST			0	0			Hail (1.25)
<b>Effingham County</b>									
4 S Guyton	20	2020EST			0	0			Hail (0.75)
<b>Effingham County</b>									
Springfield	20	2020EST			0	0			Hail (1.00)
<b>Bulloch County</b>									
Hopeulikit	20	2253EST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>GEORGIA, Southwest</u></b>									
<b>Thomas County</b>									
Boston	13	0805EST			0	0			Hail (0.75)
Dime size hail reported by the Thomas County Sheriff.									
<b>Lanier County</b>									
5 E Lakeland	13	0930EST			0	0	1K		Thunderstorm Wind (G50)
Several downed trees reported by the Lanier County Sheriff.									
<b>Terrell County</b>									
Dawson	13	1900EST			0	0			Hail (0.88)
Nickel size hail reported by the Terrell County EMA.									
<b>Lowndes County</b>									
Valdosta	17	1607EST 1620EST			0	0	5K		Thunderstorm Wind (G50)
Several downed trees and power lines reported by Lowndes County 911.									
<b>Cook County</b>									
Countywide	17	1640EST 1645EST			0	0	10K		Thunderstorm Wind (G50)
Some downed trees and power lines reported by the Cook County EMA.									
<b>Berrien County</b>									
5 W Nashville	17	1650EST			0	0	2K		Thunderstorm Wind (G50)
A few downed trees and power lines reported by the Berrien County Sheriff.									
<b>Seminole County</b>									
Reynoldsville	20	0415EST			0	0	200K		Thunderstorm Wind (G60)
Straight-line winds damaged several homes, with numerous trees and power lines down. Reported by the Seminole County EMA.									
<b>Decatur County</b>									
Mt Pleasant	20	0445EST			0	0	100K		Thunderstorm Wind (G60)
Straight-line winds damaged a few homes and a church. Numerous trees and power lines were toppled. Reported by the Decatur County EMA.									
<b>Mitchell County</b>									
5 SW Camilla to 6 N Sale City	20	0505EST	19	600	4	200	6M		Tornado (F3)
An F2 tornado touched down near Branchville, and traveled northeast. Its path was similar to the February 14, 2000 tornado. The tornado intensified to F3 as it passed just south of Camilla, then weakened as it neared the Mitchell-Worth County line. The tornado destroyed 66 homes, and damaged 200 homes and businesses. Numerous trees and power lines were down. At least three dozen roads were closed by debris. The tornado claimed four lives and injured 200. The hardest hit area was in the Goodson Road area of Camilla. A state of emergency was declared for Mitchell County. Reported by the Mitchell County EMA and CAP/NWS aerial survey team. M1MH, M8MH, F40MH, M42MH									
<b>Worth County</b>									
4 SW Bridgeboro to 2 E Bridgeboro	20	0530EST	6	400	2	0	750K		Tornado (F2)
The F2 tornado traveled northeast from northeast Mitchell County into southwest Worth County. It damaged a few dozen homes and destroyed several others. Two persons were killed when their mobile home was destroyed. Numerous trees and power lines were down. A state of emergency was declared for Worth County. Reported by the Worth County EMA and CAP/NWS aerial survey team. F77MH, M50MH									
<b>Ben Hill County</b>									
Fitzgerald	20	0600EST			0	0	150K		Thunderstorm Wind (G50)
Straight-line winds damaged an elementary school and a church. A roof was blown off a house. Reported by a contract observer.									
<b><u>GULF OF MEXICO</u></b>									
<b>Pascagoula Ms To Sw Pass Of Ms R Out 20Nm</b>									
22 SSE Biloxi	06	2122CST			0	0			Marine Tstm Wind
<b>Pascagoula Ms To Sw Pass Of Ms R Out 20Nm</b>									
22 SSE Biloxi	07	0337CST			0	0			Marine Tstm Wind

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
GULF OF MEXICO									
Pensacola Fl To Pascagoula Ms Out 20Nm									
20 S Dauphin Island	12	1603CST 1604CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
10 S Dauphin Island	12	1825CST 1826CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
30 S Dauphin Island	12	1825CST 1826CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
10 S Dauphin Island	12	1835CST 1837CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl 20 To 60Nm									
30 S Pensacola Beach	12	2155CST 2157CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl Out 20Nm									
15 S Pensacola Beach	12	2159CST 2201CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
30 S Perdido Key	12	2159CST 2201CST			0	0			Marine Tstm Wind
Mobile Bay									
Pinto Island	13	0153CST 0155CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island	13	0215CST 0216CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl Out 20Nm									
Navarre	13	0251CST 0252CST			0	0			Marine Tstm Wind
Lake Ponchartrain And Lake Maurepas									
Lkfrnt Arpt New Pascagoula Ms To Sw Pass Of Ms R Out 20Nm	13	1454CST			0	0			Marine Tstm Wind
Biloxi Pascagoula Ms To Sw Pass Of Ms R Out 20Nm	13	1541CST			0	0			Marine Tstm Wind
22 SSE Biloxi	13	1612CST			0	0			Marine Tstm Wind

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>GULF OF MEXICO</u></b>									
<b>Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm</b>									
Grand Isle	13	1620CST			0	0			Marine Tstm Wind
<b>Mobile Bay</b>									
Pinto Island	13	1653CST 1654CST			0	0			Marine Tstm Wind
<b>Pensacola Fl To Pascagoula Ms Out 20Nm</b>									
Perdido Key	13	1753CST 1754CST			0	0			Marine Tstm Wind
<b>Pascagoula Ms To Sw Pass Of Ms R 20 To 60Nm</b>									
45 E Venice	13	1803CST			0	0			Marine Tstm Wind
<b>Key W To Dry Tortugas Waters</b>									
7 SW Key West	16	2248EST			0	0			Marine Tstm Wind
Wind gust 35 knots (40 mph) measured at Sand Key CMAN Station.									
<b>Gulf Side Of The Lower Keys Out 20Nm</b>									
Key West	16	2300EST			0	0			Marine Tstm Wind
<b>W End Of The 7 Mile Bridge To Key W Out 20Nm</b>									
Key West	16	2300EST			0	0			Marine Tstm Wind
Wind gust 34 knots (39 mph) measured at Key West International Airport.									
<b>Craig Key To The W End Of The 7 Mile Bridge Out 20Nm</b>									
7 S Marathon	17	0128EST			0	0			Marine Tstm Wind
Wind gust 36 knots (41 mph) measured at Sombrero Key CMAN station.									
<b>Ocean Reef To Craig Key Fl Out 20Nm</b>									
7 SE Key Largo	17	0158EST			0	0			Marine Tstm Wind
Wind gust 35 knots (40 mph) measured at Molasses Reef CMAN station.									
<b>Florida Bay</b>									
7 NE Duck Key	17	0158EST			0	0			Marine Tstm Wind
Wind gust 35 knots (40 mph) measured at Long Key CMAN station.									
<b>Mobile Bay</b>									
Point Clear	17	0236CST 0237CST			0	0			Marine Tstm Wind
<b>Pensacola Fl To Pascagoula Ms Out 20Nm</b>									
Gulf Shores	17	0236CST 0237CST			0	0			Marine Tstm Wind
<b>Pensacola Fl To Pascagoula Ms 20 To 60Nm</b>									
30 S Gulf Shores	17	0236CST 0237CST			0	0			Marine Tstm Wind
<b>Craig Key To The W End Of The 7 Mile Bridge Out 20Nm</b>									
7 S Marathon	17	1205EST			0	0			Marine Tstm Wind

# Storm Data and Unusual Weather Phenomena

March 2003

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

## GULF OF MEXICO

Wind gust 39 knots (45 mph) measured at Sombrero Key CMAN station at 158 foot elevation.

### Englewood To Tarpon Springs Fl Out 20Nm

5 ESE Longboat Key to Longboat Key Tampa Bay	17	1552EST			0	0			Marine Tstm Wind
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Lower Tampa Bay Tampa Bay	17	1600EST			0	0			Marine Tstm Wind
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Old Tampa Bay Matagorda Bay	17	1624EST			0	0			Marine Tstm Wind
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East Matagorda	18	1224CST			0	0			Marine Tstm Wind
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Wind gust measured in East Matagorda Bay (TCOON 060).

### High Is To Freeport Tx Out 20Nm

9 SW Galveston	18	1301CST			0	0			Marine Tstm Wind
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Measured at Jamaica Beach observation site.

### High Is To Freeport Tx Out 20Nm

Galveston	18	1321CST			0	0			Marine Tstm Wind
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Measured at KGLS.

Tampa Bay Old Tampa Bay	21	0954EST			0	0			Marine Tstm Wind
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Key W To Dry Tortugas Waters	23	1618EST			0	0			Marine Tstm Wind
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Wind gust 34 knots (39 mph) measured at Sand Key CMAN station.

Key W To Dry Tortugas Waters	24	0606EST			0	0			Marine Tstm Wind
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Wind gust 38 knots (44 mph) measured at Sand Key CMAN station.

Corpus Christi To Baffin Bay	26	0100CST			0	0			Marine Tstm Wind
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South Bird Island Pt Aransas To Baffin Bay Tx Out 20Nm	26	0100CST			0	0			Marine Tstm Wind
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Bob Hall Pier Pt O'Connor To Aransas Pass	26	0100CST			0	0			Marine Tstm Wind
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Port Aransas Corpus Christi To Baffin Bay	26	0124CST			0	0			Marine Tstm Wind
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South Bird Island Pt Aransas To Baffin Bay Tx 20 To 60Nm	26	0230CST			0	0			Marine Tstm Wind
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45 SE Baffin Bay Pt Aransas To Baffin Bay Tx Out 20Nm	26	0300CST			0	0			Marine Tstm Wind
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Bob Hall Pier Bonita Beach To Englewood Fl Out 20Nm	26	0300CST			0	0			Marine Tstm Wind
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6 N Captiva Pass to Captiva Pass	27	1245EST 1255EST			0	0			Marine Tstm Wind
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Bonita Beach To Englewood Fl Out 20Nm	27	1257EST			0	0			Waterspout
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6 NW Captiva Pass	27	1257EST			0	0			Waterspout
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# Storm Data and Unusual Weather Phenomena

March 2003

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

## GULF OF MEXICO

### Key W To Dry Tortugas Waters

7 SW Key West 27 1651EST 0 0 Marine Tstm Wind  
Wind gust 34 knots (39 mph) measured at Sand Key CMAN station.

### Key W To Dry Tortugas Waters

7 SW Key West 27 1709EST 0 0 Marine Tstm Wind  
Wind gust 36 knots (41 mph) measured at Sand Key CMAN station.

### Gulf Side Of The Lower Keys Out 20Nm

6 E Key West 27 1710EST 0 0 Marine Tstm Wind  
Wind gust 36 knots (41 mph) recorded at Key West Naval Air Station on Boca Chica Key.

### W End Of The 7 Mile Bridge To Key W Out 20Nm

6 E Key West 27 1710EST 0 0 Marine Tstm Wind  
Wind gust 36 knots (41 mph) recorded at Key West Naval Air Station on Boca Chica Key.

## HAWAII

### Kauai County

Lihue to Hanapepe 06 1140HST 0 0 Heavy Rain  
1440HST  
Heavy showers produced stream and drainage ditch flooding, and ponding of roadways over southeast and south central parts of Kauai. There were no reports of serious injuries or property damage.

### HIZ001>003-005>007 Kauai - Oahu - Maui - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona

13 0500HST 0 0 Heavy Surf/High Surf

14 1600HST

A storm low far northwest of the state generated surf of 10 to 20 feet along the northwest-facing shores Kauai, Oahu, Molokai, Lanai, and Maui; and 5 to 10 feet along the west- and northwest-facing shores of the Big Island of Hawaii. However, no serious property damage or injuries were reported.

### Kauai County

Anahola to 5 SW Lihue 30 0045HST 0 0 Heavy Rain  
0345HST  
Heavy showers and rain produced ponding of roadways, and drainage ditch and stream flooding in eastern parts of the Garden Isle of Kauai. No serious injuries or property damage were reported, however.

### Kauai County

Kapaa to Hanapepe 30 1255HST 0 0 Heavy Rain  
1455HST  
Heavy showers and rain caused stream and drainage ditch flooding, and ponding of roadways in eastern and southern parts of Kauai. However, no serious property damage or injuries were reported.

### Kauai County

6 E Hanapepe to 13 NNW Waimea 30 2210HST 0 0 Heavy Rain  
31 0110HST  
Heavy rain and showers produced stream and drainage ditch flooding, and ponding of roadways in southern and western parts of Kauai. There were no reports of serious injuries or property damage.

## HAWAII WATERS

### Channels Between The Islands

8 S Kaena Point 09 1130HST 0 0 Waterspout  
1245HST

Several waterspouts--the number was not specified--were spotted west of Makaha, off the west coast of Oahu, by an airplane pilot. The waterspouts were drifting slowly eastward, did not disrupt air traffic, and apparently dissipated before being able to cause any injuries or property damage to mariners or beachgoers.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## HAWAII WATERS

### Channels Between The Islands

2 SE Kaunakakai	29	1430HST 1530HST			0	0			Waterspout
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Two or three waterspouts were spotted by an airplane pilot in the Kalohi Channel just south of Molokai. He did not specify the exact number or in which direction they were moving. The waterspouts did not disrupt air traffic, and there were no reports that they caused any injuries or property damage.

## IDAHO, Extreme Southeast

NONE REPORTED.

## IDAHO, North

### IDZ007

#### Orofino / Grangeville Region

03	0000PST 1100PST			0	0			Heavy Snow
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Heavy snow of 7 to 11 inches fell on the Camas Prairie region near the town of Grangeville during the night and early morning hours. Snow fell at a rate of 1-2 inches an hour with mainly rain below 3000 feet.

### IDZ005>006-009>010

#### Northern Clearwater Mountains - Southern Clearwater Mountains - Western Lemhi County - Eastern Lemhi County

05	1200MST			0	0			Heavy Snow
08	1700MST							

A long duration snow event brought heavy snow to north central Idaho from March 5 through March 8. A series of Pacific storm systems dropped enough snow to be measured in feet rather than inches across the region. Total accumulations ranged from 1-3 feet across the Clearwater Mountain Region with the extremes of 41 inches at Dixie and 42 inches at Pierce, and 1-2 feet in the mountains of Lemhi County. Power outages and schools were closed in Clearwater County on March 7 due to heavy snow and downed trees.

### IDZ005>006

#### Northern Clearwater Mountains - Southern Clearwater Mountains

08	1600MST			0	0			Heavy Snow
09	0400MST							

Another Pacific storm system, the last of a stormy week brought more heavy snow across areas of north central Idaho. An additional 6 inches of snow was reported at Headquarters and Dixie during this event.

### IDZ007

#### Orofino / Grangeville Region

09	0800MST			0	0	5K		Flood
10	1700MST							

The combination of rapid snowmelt and rain caused flooding in portions of the town of Cottonwood. The Cottonwood Bowl building was closed due to flood waters that had worked under the floors and into the bowling lanes.

## IDAHO, Northwest

### IDZ027

#### Lewis And Southern Nez Perce

03	1200PST 2100PST			0	0			Heavy Snow
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5 inches of snow fell at Winchester.

### IDZ001-004

#### Northern Panhandle - Central Panhandle Mountains

04	0700PST			0	0			Heavy Snow
07	1000PST							

A strong and moist Pacific storm system dumped heavy snow over a 3 day period in the mountains of northern Idaho. In the Northern Panhandle Schweitzer ski resort reported 6 inches of snow while Bear Mountain received 13 inches. In the Central Panhandle Mountains spotters reported 7 to 12 inches of snow near Deary. At higher elevations Humboldt Gulch received 11 inches, Silver Mountain ski resort 8 inches, Lookout ski resort 26 inches and Lost Lake received 47 inches of new snow.

### IDZ003-026

#### Idaho Palouse - Lewiston Area

06	2300PST			0	0			Heavy Snow
07	1000PST							

A late season snow storm caused numerous auto accidents and scattered power outages over Latah and Nez Perce Counties. Troy reported 9 inches of snow accumulation with 6 to 10 inches in the Moscow area. Six inches of snow fell at Nez Perce.

### IDZ001-004

#### Northern Panhandle - Central Panhandle Mountains

08	2200PST			0	0			Heavy Snow
09	1700PST							

A Pacific storm system dumped heavy snow over the Idaho panhandle. In the Northern Panhandle zone 5 inches fell at Priest River and Sagle, 6 inches at Bonners Ferry and 8 inches at Schweitzer ski resort. In the Central Panhandle Mountains zone Lookout Pass ski resort reported 12 inches.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>IDAHO, Northwest</u></b>									
<b>IDZ027</b>		<b>Lewis And Southern Nez Perce</b>							
<b>18</b>	<b>0100PST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>1000PST</b>								
Five inches of snow fell overnight at Winchester.									
<b><u>IDAHO, Southeast</u></b>									
<b>IDZ018&gt;019-023-031</b>		<b>Sawtooth Mountains - Upper Snake Highlands - Caribou Highlands - Big And Little Wood River Region</b>							
<b>05</b>	<b>1000MST</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>07</b>	<b>2300MST</b>								
A long period of strong westerly flow aloft brought extensive pacific moisture into the region and produced strong winds and heavy snow at high elevations. Most of the heavy snow fell above 7000 feet with one foot recorded at Galena Lodge, 6 inches at Macks Inn, and up to 16 inches between 8 and 9 thousand feet. Strong winds on the 6th also reduced visibilities a quarter mile or less frequently as was reported by National Weather Service employees driving through the Upper Snake Highlands on the afternoon of the 6th.									
<b>IDZ017-020&gt;021</b>		<b>Eastern Magic Valley - Upper Snake River Plain - Lower Snake River Plain</b>							
<b>06</b>	<b>1000MST</b>				<b>0</b>	<b>0</b>			<b>High Wind (G47)</b>
	<b>1900MST</b>								
Strong westerly flow through several thousand feet of the atmosphere brought high winds to the valleys of southeastern Idaho. On the afternoon of the 6th, Mesonet sites showed sustained winds were 40 to 50 mph throughout the eastern magic valley and Snake River Plain with gusts of 60 mph. One roof was torn off a house in Shelley. No other major damage reports were received.									
<b>IDZ018&gt;019-031</b>		<b>Sawtooth Mountains - Upper Snake Highlands - Big And Little Wood River Region</b>							
<b>25</b>	<b>1600MST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
<b>26</b>	<b>1600MST</b>								
Heavy snow fell in high elevations of the central mountains with 10 inches reported at Vienna Mine and Galena Lodge with up to 16 inches at 9000 feet. Generally 6 to 16 inches of snow fell above 7000 feet.									
<b><u>IDAHO, Southwest</u></b>									
<b>IDZ011</b>		<b>West Central Mountains</b>							
<b>05</b>	<b>2100MST</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>06</b>	<b>0400MST</b>								
A winter storm brought 4 to 9 inches of snow to the central mountains of Idaho.									
<b>IDZ013</b>		<b>Boise Mountains</b>							
<b>05</b>	<b>2200MST</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>06</b>	<b>0500MST</b>								
A winter storm brought 4 to 9 inches of snow to the central mountains of Idaho.									
<b>IDZ011</b>		<b>West Central Mountains</b>							
<b>07</b>	<b>0100MST</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>0600MST</b>								
A winter strom brought 3 to 10 inches of snow to the central moutnains of Idaho.									
<b><u>ILLINOIS, Central</u></b>									
<b>Sangamon County</b>									
<b>1 S Pawnee</b>	<b>19</b>	<b>1325CST</b>	<b>0.1</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Tornado (F0)</b>
A tornado briefly touched down in a field one mile south of Pawnee. No damage or injuries were reported.									
<b>Piatt County</b>									
<b>Monticello</b>	<b>19</b>	<b>1550CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
<b>Sangamon County</b>									
<b>Auburn</b>	<b>19</b>	<b>1640CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (1.75)</b>
<b>Piatt County</b>									
<b>Cerro Gordo</b>	<b>19</b>	<b>1800CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
<b>Sangamon County</b>									
<b>1 SE Springfield</b>	<b>19</b>	<b>1858CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
<b>Logan County</b>									
<b>3 SW Lincoln</b>	<b>19</b>	<b>1945CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
<b>Jasper County</b>									
<b>1 W Newton</b>	<b>20</b>	<b>1506CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G52)</b>
<b>Effingham County</b>									
<b>2 E Mason</b>	<b>25</b>	<b>0902CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>

# Storm Data and Unusual Weather Phenomena

March 2003

											March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm		
<b>ILLINOIS, Northeast</b>											
<b>ILZ003&gt;006-008-010&gt;014-019&gt;020-022</b>	<b>Winnebago - Boone - McHenry - Lake - Ogle - Lee - De Kalb - Kane - Du Page - Cook - La Salle - Kendall - Will</b>										
	<b>04</b>	<b>2200CST</b>			<b>0</b>	<b>0</b>				<b>Winter Storm</b>	
	<b>05</b>	<b>0400CST</b>									
	A winter storm moved from the southern plains Monday night March 4th across the Ohio Valley Tuesday morning, March 5th. A large area of snow overspread northern Illinois. Storm total snowfall amounts generally ranged from 5 to 7 inches along and north of Interstate 80. Chicago Ohare Airport reported 6.1 inches, but the highest total was 7.3 inches in Cary in McHenry county.										
<b>ILZ014</b>	<b>Cook</b>										
	<b>09</b>	<b>1200CST</b>			<b>1</b>	<b>0</b>				<b>Extreme Cold/Wind Chill</b>	
	A 48 year old man was found frozen to death outside a home in Chicago on March 9th. The low temperature at Chicago Ohare Airport on the morning of March 9th was 6 degrees and the high temperature was only 13 degrees later that afternoon. M48OU										
<b>Will County</b>											
<b>Joliet</b>	<b>19</b>	<b>1450CST</b>			<b>0</b>	<b>0</b>				<b>Hail (0.88)</b>	
	Reported at Patterson and Noel Roads.										
<b>Grundy County</b>											
<b>3.5 S Mazon</b>	<b>19</b>	<b>1744CST</b>			<b>0</b>	<b>0</b>				<b>Hail (0.88)</b>	
	Reported at Gardener Road and Route 47.										
<b>Kankakee County</b>											
<b>Kankakee</b>	<b>19</b>	<b>1825CST</b>			<b>0</b>	<b>0</b>				<b>Hail (1.50)</b>	
<b>Kankakee County</b>											
<b>Kankakee</b>	<b>19</b>	<b>1844CST</b>			<b>0</b>	<b>0</b>				<b>Hail (0.75)</b>	
<b>McHenry County</b>											
<b>Marengo</b>	<b>19</b>	<b>2015CST</b>			<b>0</b>	<b>0</b>				<b>Hail (0.75)</b>	
<b>ILLINOIS, Northwest</b>											
<b>ILZ001&gt;002-007-009-015&gt;018-024&gt;026</b>	<b>Jo Daviess - Stephenson - Carroll - Whiteside - Rock Island - Henry - Bureau - Putnam - Mercer - Henderson - Warren</b>										
	<b>04</b>	<b>1300CST</b>			<b>0</b>	<b>0</b>				<b>Winter Storm</b>	
	<b>05</b>	<b>0100CST</b>									
	A late season winter storm developed over the Southern Plains and lifted across the Lower Mississippi Valley spreading significant snowfall over much of Northwest and West Central Illinois. Snowfall amounts generally ranged from 3 to 7 inches.										
<b>ILLINOIS, South</b>											
<b>ILZ087-090&gt;094</b>	<b>Gallatin - Pope - Hardin - Alexander - Pulaski - Massac</b>										
	<b>01</b>	<b>0001CST</b>			<b>0</b>	<b>0</b>				<b>Flood</b>	
	<b>11</b>	<b>1800CST</b>									
	The Ohio River remained above flood stage from late February. Below the confluence with the Tennessee River, the river had already crested in February. Above the Tennessee River at Paducah, including Golconda and Shawneetown, the river crested on March 2. The crest was exactly 10 feet above the 33-foot flood stage at Shawneetown, and about 4 feet above the 40-foot flood stage at Golconda. This resulted in extensive flooding of low-lying woods and fields. Some rural county roads were closed. Very few if any structures were directly affected. The river fell back below flood stage by March 11.										
<b>ILZ084</b>	<b>Jackson</b>										
	<b>01</b>	<b>0001CST</b>			<b>0</b>	<b>0</b>				<b>Flood</b>	
	<b>03</b>	<b>1700CST</b>									
	The Big Muddy River remained above flood stage from late February. The crest occurred in late February, and the river was back below flood stage at Murphysboro on March 3.										
<b>ILZ083</b>	<b>White</b>										
	<b>01</b>	<b>0001CST</b>			<b>0</b>	<b>0</b>				<b>Flood</b>	
	<b>04</b>	<b>1300CST</b>									
	The Little Wabash River remained above flood stage from late February. The river crested at Carmi in late February, and fell back below flood stage on March 4.										
<b>Jackson County</b>											
<b>Murphysboro</b>	<b>13</b>	<b>0315CST</b>			<b>0</b>	<b>0</b>				<b>Hail (0.75)</b>	
<b>ILLINOIS, Southwest</b>											
<b>ILZ095&gt;096</b>	<b>Adams - Brown</b>										
	<b>04</b>	<b>1800CST</b>			<b>0</b>	<b>0</b>				<b>Winter Storm</b>	
	<b>05</b>	<b>0600CST</b>									
	A mix of freezing rain and sleet started during the evening of March 4. By Midnight, the precipitation had changed to snow and eventually accumulated to 8 to 6 inches across the area.										

# Storm Data and Unusual Weather Phenomena

March 2003

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

### **Pike County**

**Griggsville** 12 2158CST 0 0 **Hail (0.75)**  
The Pike County Sheriff reported 3/4 inch hail in Griggsville.

### **Macoupin County**

**3 E Bunker Hill** 13 0023CST 0 0 **Hail (1.75)**

### **Macoupin County**

**3 E Bunker Hill** 13 0046CST 0 0 **Hail (0.75)**  
A storm spotter reported hail up to golf ball size east of Bunker Hill.

## INDIANA, Central

### **Marion County**

**Indianapolis** 08 2000EST 0 0 **Hail (1.75)**  
Golfball size hail reported by State Police and Indianapolis Police Department

### **Boone County**

**Zionsville** 20 1405EST 0 0 **Hail (0.75)**

### **Hamilton County**

**Sheridan** 20 1428EST 0 0 **Hail (0.88)**

### **Boone County**

**9 E Lebanon** 20 1430EST 0 0 **Hail (1.75)**

### **Tipton County**

**4 N Tipton** 20 1435EST 0 0 **Hail (0.75)**

### **Tipton County**

**Sharpsville** 20 1447EST 0 0 **Hail (1.50)**

### **Marion County**

**3 WNW Castleton** 20 1528EST 0 0 **Hail (0.75)**

### **Hamilton County**

**Carmel** 20 1535EST 0 0 **Hail (1.50)**  
1546EST

### **Delaware County**

**Muncie** 20 1559EST 0 0 **Hail (0.75)**

### **Hamilton County**

**2 W Noblesville** 20 1559EST 0 0 **Hail (1.00)**  
1604EST

### **Marion County**

**Southport** 20 1617EST 0 0 **Hail (0.75)**

### **Marion County**

**2 E Southport** 20 1638EST 0 0 **Hail (0.75)**

### **Henry County**

**Middletown** 20 1653EST 0 0 **Hail (0.75)**

### **Knox County**

**Vincennes** 20 1730EST 0 0 **5K Thunderstorm Wind (G60)**

Several storms produced hail of 0.75 to 1.00 inches. The largest hail reported was 1.75 inches in Boone County. There was also hail more than an inch in diameter in Hamilton County. Several spotter reports of rotating wall clouds were received from Delaware and Marion Counties, but there was nothing supporting these on radar. No TORs were issued and evidently no tornadoes were reported. During the morning, thunderstorms developed over the west central part of the CWA. These storms moved north of the CWA, but early in the afternoon more storms developed over our northwest CWA. More cells developed further south in our CWA later in the day and tracked northeast. By 6:00pm, storms did weaken below severe limits and warning were not longer required. Regarding the high winds in Vincennes, in Knox County, there was barn damage. The farmer also reported part of his roof blown off of his house.

## INDIANA, Northeast

### **Kosciusko County**

**4 E Leesburg to** 20 1325EST 0 0 **Hail (0.88)**  
**North Webster** 1332EST

Dime size hail was reported between Leesburg and North Webster, with the storm then producing nickel size hail in the town of North Webster.

### **St. Joseph County**

**South Bend to** 20 1330EST 0 0 **Hail (0.75)**  
**2 ESE Mishawaka** 1343EST

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property    Crops	Character of Storm
<b><u>INDIANA, Northeast</u></b>									
<b>Whitley County</b>									
1 N Larwill	20	1340EST			0	0			Hail (0.75)
<b>Noble County</b>									
3 NE Cromwell	20	1350EST			0	0			Hail (0.75)
<b>Huntington County</b>									
Huntington to 5 N Huntington	20	1433EST 1442EST			0	0			Hail (0.75)
<b>Noble County</b>									
Wolcottville	20	1440EST			0	0			Hail (0.75)
Dime size hail was reported just inside the Noble county. Wolcottville is located on the Lagrange/Noble county line.									
<b>Noble County</b>									
8 S Albion	20	1523EST			0	0			Hail (0.75)
<b>Huntington County</b>									
1 N Huntington	20	1528EST			0	0			Hail (0.75)
<b>Whitley County</b>									
3 SE Laud	20	1528EST			0	0			Hail (0.75)
<b>Allen County</b>									
1 NW Huntertown	20	1535EST			0	0			Hail (0.88)
<b>Steuben County</b>									
6 W Angola	20	1544EST			0	0			Hail (0.75)
<b>De Kalb County</b>									
Butler	20	1545EST			0	0			Hail (0.75)
<b>Allen County</b>									
Ft Wayne	20	1548EST 1600EST			0	0			Hail (0.75)
Several reports of dime size hail were received from in and around Fort Wayne.									
<b>Noble County</b>									
8 S Albion	20	1600EST			0	0			Hail (0.75)
<b>Steuben County</b>									
Fremont	20	1615EST			0	0			Hail (1.50)
<b>Wells County</b>									
2 ENE Uniondale	20	1621EST			0	0			Hail (0.75)
<b>Blackford County</b>									
Hartford City	20	1628EST			0	0			Hail (0.75)
<b>De Kalb County</b>									
Auburn	28	1556EST			0	0	0		Thunderstorm Wind (G50)
Tree was blown onto power lines.									
<b>Steuben County</b>									
1 E Angola	28	1602EST			0	0	0		Thunderstorm Wind (G52)
Large tree limbs were blown onto US-20 east of Angola.									
<b><u>INDIANA, Northwest</u></b>									
<b>INZ001&gt;002</b>									
<b>Lake - Porter</b>									
04		2200CST			0	0			Winter Storm
05		0400CST							
A winter storm moved out of the southern plains Monday night March 4th and across the Ohio Valley Tuesday morning, March 5th. This storm spread snow across far Northwest Indiana where snowfall amounts ranged from 5 to 7 inches across Lake and Porter counties.									
<b>Benton County</b>									
Boswell	19	1433CST			0	0			Hail (0.88)
<b>Newton County</b>									
Roselawn	20	1616CST			0	0			Hail (0.75)
<b><u>INDIANA, South Central</u></b>									

NONE REPORTED.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## INDIANA, Southeast

**INZ050**

**Wayne**

**13 1100EST**

**0**

**0**

**Flood**

**1130EST**

Heavy rain caused minor flooding of roadways in the Richmond vicinity.

## INDIANA, Southwest

**INZ085-087>088**

**Posey - Warrick - Spencer**

**01 0001CST**

**0**

**0**

**Flood**

**07 2200CST**

The Ohio River began the month above flood stage at Mount Vernon and Newburgh. The river crested about 6 feet above flood stage at both locations during the early morning hours of March 1. The river fell back below flood stage by March 7. Flooding of agricultural land was fairly extensive, and some roads were flooded west and southwest of Mount Vernon. No permanent structures were known to be flooded.

**INZ081**

**Gibson**

**01 0800CST**

**0**

**0**

**Flood**

**05 1900CST**

The Patoka River went slightly above flood stage at Princeton on March 1 and fell back below flood stage on March 5. The crest was only a few inches above flood stage. The flooding was minor and affected low-lying woods and fields near the river.

**INZ081>082**

**Gibson - Pike**

**13 2200CST**

**0**

**0**

**Flood**

**16 1800CST**

The White River was above flood stage at Petersburg and Hazleton for a couple of days. The flooding was minor. The river crested no more than a half foot above the 16-foot flood stage at both locations.

## IOWA, Central

**IAZ025>028-034>039-044>048-062-074>075-085>086**

**Wright - Franklin - Butler - Bremer - Calhoun - Webster - Hamilton - Hardin - Grundy - Black Hawk - Crawford - Carroll - Greene - Boone - Story - Poweshiek - Marion - Mahaska - Monroe - Wapello**

**04 1000CST**

**0**

**0**

**20K**

**Heavy Snow**

**05 0100CST**

A cold front dropped southeast across the state during the evening of the 3rd and early morning of the 4th. The front stalled to the south of Iowa across central Missouri. A very strong baroclinic zone set up across the frontal boundary with temperatures in the teens to low 20s north of the front, and in the 40s and 50s to the south of it. An upper level vorticity maximum moved across the state during the day on the 4th. In addition, very strong frontogenetic forcing was in place. The heavy snow fell in two bands. The northern band was about 20 miles wide and extended from near Denison in Crawford County, through southern Webster County, then through Bremer County. The snow in this band was caused by very strong mid level forcing. The heaviest snow fell in Franklin, Butler and Bremer Counties. Twelve inches of snow fell in Waverly in Bremer County, 11 inches fell in Franklin County at Hampton, and also in Clarksville in Butler County. General snow amounts in the band, outside of these heavier reports, were in the 6 to 9 inch range. To the south, heavy snow was more associated with lower level forcing and some convection. A broad band of snow in the 5 to 7 inch range fell from southeast of Des Moines on east. Some of the heavier snow reported was in Mahaska County at Oskaloosa with 7.5 inches, in Marion County at Knoxville, and in Wapello County at Ottumwa. There was some patchy sleet and freezing drizzle mixed with the snow in the southern band at the onset, however it did not last very long. Due to the cold temperatures, the snow was very light and fluffy. It did cause some travel problems, but did not cause any major disruption. Winds during the event were in the 15 to 25 MPH range. This was enough to cause drifting, but not strong enough to restrict visibility in blowing snow. Damage from the storm system was very minor.

## IOWA, East Central and Southeast

**IAZ040>042-051>054-063>068-076>078-087>089-098**

**Buchanan - Delaware - Dubuque - Benton - Linn - Jones - Jackson - Iowa - Johnson - Cedar - Clinton - Muscatine - Scott - Keokuk - Washington - Louisa - Jefferson - Henry - Des Moines - Van Buren**

**04 1300CST**

**0**

**0**

**Winter Storm**

**05 0100CST**

A late season winter storm developed over the Southern Plains and lifted across the Lower Mississippi Valley spreading significant snowfall over much of Eastern Iowa. Snowfall amounts generally ranged from 3 to 7 inches.

## IOWA, Northeast

**IAZ010>011-018>019-029>030**

**Winneshiek - Allamakee - Floyd - Chickasaw - Fayette - Clayton**

**04 0500CST**

**0**

**0**

**Winter Storm**

**2100CST**

An early spring snowstorm hit northeast Iowa, producing a swath of 6 to 12 inches of snow. The highest snow accumulations were confined to a relatively narrow band, with 14 inches reported by weather observers at Clermont (Fayette County) and McGregor (Clayton County). Other reports included 12 inches at Monona (Clayton County) and Postville (Allamakee County).

# Storm Data and Unusual Weather Phenomena

March 2003

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

## IOWA, Northwest

**IAZ012>014-020>022-031>032** **Sioux - O'Brien - Clay - Plymouth - Cherokee - Buena Vista - Woodbury - Ida**

**04 0100CST 1400CST 0 0 Winter Weather/Mix**

Snowfall of 3 to 6 inches caused slow travel and slick roads, indirectly resulting in several minor accidents. The snow had a very low moisture content.

## IOWA, Southwest

NONE REPORTED.

## KANSAS, East

**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**

**04 0900CST 1600CST 2 8 Winter Storm**

A winter storm spread freezing drizzle and snow across the area beginning around mid morning of the 4th and ending around late afternoon. Roads became very slick and hazardous and resulted in numerous accidents. At least 8 people were treated for injuries from the accidents. A woman was killed when her car slid into a van around 10:30 am 4 miles north of Westmoreland. Another fatality resulted 12 miles west of Topeka when a tow truck driver was killed while attempting to pull a vehicle from the ditch along Interstate 70. While hooking the vehicle to the tow truck both the tow truck and vehicle slid on the ice trapping the male tow trucker between the 2 vehicles and killing him. Numerous schools in the area were closed for a time as well. Total snow accumulations from the storm ranged from one to 3 inches. F66VE, M62VE

### **Pottawatomie County**

**5 S Westmoreland 12 1720CST 0 0 Hail (0.88)**

### **Pottawatomie County**

**5 SSE Westmoreland 12 1733CST 0 0 Hail (0.75)**

### **Jefferson County**

**4 SSW Valley Falls 12 1808CST 0 0 Hail (0.75)**

### **Jefferson County**

**1 S Valley Falls 12 1810CST 0 0 Hail (0.88)**

### **Jefferson County**

**2 S Valley Falls 12 1812CST 0 0 Hail (1.00)**

### **Lyon County**

**Neosho Rapids 12 1833CST 0 0 Hail (0.88)**

### **Jackson County**

**2 W Hoyt 12 1835CST 0 0 Hail (0.75)**

### **Coffey County**

**2 S Gridley 12 1840CST 0 0 Hail (0.75)**

### **Wabaunsee County**

**1 E Eskridge 12 1853CST 0 0 Hail (1.00)**

### **Jefferson County**

**Grantville 12 1900CST 0 0 Hail (0.75)**

### **Jefferson County**

**Perry 12 1900CST 0 0 Hail (1.00)**

### **Douglas County**

**5 NW Lawrence 12 1915CST 0 0 Hail (1.25)**

### **Osage County**

**6 N Lyndon 12 1915CST 0 0 Hail (1.50)**

### **Douglas County**

**Lawrence 12 1925CST 0 0 Hail (0.75)**

### **Douglas County**

**7 S Lawrence 12 1936CST 0 0 Hail (0.75)**

### **Douglas County**

**Eudora 12 1945CST 0 0 Hail (0.75)**



# Storm Data and Unusual Weather Phenomena

March 2003

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

## KANSAS, Extreme Southeast

### Bourbon County

2 S Hiattville	12	2055CST			0	0			Hail (1.75)
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### Crawford County

Hepler	12	2055CST			0	0			Hail (1.75)
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### Bourbon County

2 S Hiattville	12	2105CST			0	0			Hail (1.75)
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### Crawford County

3 E Hepler	12	2105CST			0	0			Hail (1.75)
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### Crawford County

2 E Mc Cune	12	2128CST			0	0			Hail (0.75)
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### Cherokee County

4 NW West Mineral	12	2130CST			0	0			Hail (1.00)
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### Crawford County

Pittsburg	12	2155CST			0	0			Hail (0.75)
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### Cherokee County

Columbus	12	2205CST			0	0			Hail (0.75)
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### Cherokee County

Baxter Spgs	12	2248CST			0	0			Hail (0.88)
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## KANSAS, North Central

### Osborne County

4 W Osborne	17	1520CST			0	0	0	0	Hail (0.88)
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## KANSAS, Northeast

### Leavenworth County

Springdale	12	1900CST			0	0			Hail (1.00)
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### Leavenworth County

6 SW Lansing	12	1925CST			0	0			Hail (1.75)
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### Leavenworth County

Basehor	12	1933CST			0	0			Hail (0.75)
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### Johnson County

Shawnee	12	1950CST			0	0			Hail (1.00)
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### Wyandotte County

Bonner Spgs	12	1950CST			0	0			Hail (0.75)
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### Johnson County

Lenexa	12	1951CST			0	0			Hail (0.88)
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### Johnson County

Lenexa	12	2000CST			0	0			Hail (1.75)
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### Johnson County

Overland Park	12	2000CST			0	0			Hail (0.75)
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### Johnson County

Shawnee	12	2000CST			0	0			Hail (1.75)
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### Johnson County

Overland Park	12	2012CST			0	0			Hail (0.75)
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### Miami County

5 SW Osawatomie	12	2045CST			0	0			Hail (0.75)
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## KANSAS, Northwest

NONE REPORTED.

## KANSAS, Southeast

### Greenwood County

Hamilton	12	1750CST			0	0			Hail (1.75)
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### Greenwood County

Virgil	12	1806CST			0	0			Hail (1.75)
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Co-op observer.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **KANSAS, Southeast**

### **Elk County**

Howard	12	1822CST			0	0			Hail (1.00)
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### **Woodson County**

10 NW Yates Center	12	1823CST			0	0			Hail (0.75)
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### **Woodson County**

10 NW Yates Center	12	1830CST			0	0			Hail (1.75)
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### **Woodson County**

3 NW Yates Center	12	1848CST			0	0			Hail (1.75)
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### **Woodson County**

2 S Yates Center	12	1905CST			0	0			Hail (1.75)
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### **Elk County**

20 NE Howard	12	1913CST			0	0			Hail (1.00)
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### **Wilson County**

New Albany	12	1915CST			0	0			Hail (1.25)
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### **Woodson County**

7 S Yates Center	12	1915CST			0	0			Hail (1.75)
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### **Elk County**

12 NE Howard	12	1920CST			0	0			Hail (0.75)
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### **Woodson County**

14 SE Yates Center	12	1920CST			0	0			Hail (1.00)
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### **Wilson County**

Fredonia	12	1940CST			0	0			Hail (1.75)
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### **Wilson County**

Fredonia	12	1946CST			0	0			Hail (1.00)
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### **Allen County**

Humboldt	12	1949CST			0	0			Hail (0.75)
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### **Allen County**

Humboldt	12	1952CST			0	0			Hail (1.75)
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### **Wilson County**

Altoona	12	1957CST			0	0			Hail (1.00)
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### **Wilson County**

Altoona	12	2000CST			0	0			Hail (1.00)
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### **Allen County**

Humboldt	12	2001CST			0	0			Hail (1.75)
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### **Wilson County**

1 E Fredonia	12	2020CST			0	0			Hail (0.75)
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### **Wilson County**

5 NW Neodesha	12	2025CST			0	0			Hail (1.00)
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### **Allen County**

Humboldt	12	2030CST			0	0			Hail (0.75)
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### **Neosho County**

Morehead	12	2030CST			0	0			Hail (1.00)
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### **Montgomery County**

10 W Independence	12	2034CST			0	0			Hail (0.75)
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### **Montgomery County**

14 NE Independence	12	2045CST			0	0			Hail (0.75)
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### **Wilson County**

8 SE Altoona	12	2045CST			0	0			Hail (1.75)
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### **Labette County**

3 W Altamont	12	2130CST			0	0			Hail (1.00)
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### **Montgomery County**

4 SE Independence	12	2130CST			0	0			Hail (0.75)
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### **Labette County**

Altamont	12	2140CST			0	0			Hail (0.88)
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# Storm Data and Unusual Weather Phenomena

March 2003

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

## **KANSAS, Southeast**

### **Labette County**

1 W Oswego	12	2151CST			0	0			Hail (1.00)
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### **Labette County**

1 W Oswego	12	2151CST			0	0			Thunderstorm Wind (G52)
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### **Labette County**

2 NW Dennis to 1 NE Dennis	12	2154CST 2200CST	3	55	0	0	25K		Tornado (F1)
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The following was damaged/destroyed: Two grain bins overturned, one carport destroyed, and a few road signs damaged.

### **Montgomery County**

6 NE Coffeyville	12	2200CST			0	0			Hail (0.88)
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### **Labette County**

3 S Oswego	12	2210CST			0	0			Hail (1.75)
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### **Labette County**

Edna	12	2220CST			0	0			Hail (1.00)
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### **Cowley County**

2 W Arkansas City	17	1525CST			0	0			Hail (0.75)
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### **Cowley County**

2 S Arkansas City	17	1530CST			0	0			Hail (0.75)
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### **Cowley County**

2 SE Arkansas City	17	1533CST			0	0			Hail (0.75)
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### **Cowley County**

Arkansas City	17	1535CST			0	0			Hail (0.75)
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### **Sumner County**

4 W Oxford	17	1545CST			0	0			Hail (0.75)
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### **Sumner County**

Belle Plaine	17	1614CST			0	0			Hail (1.00)
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### **Sedgwick County**

1 NW Wichita	17	1630CST			0	0			Hail (0.88)
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Occurred near west side.

### **Sedgwick County**

Colwich	17	1632CST			0	0			Hail (0.88)
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### **Sedgwick County**

1 E Bentley	17	1635CST			0	0			Hail (0.75)
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### **Sedgwick County**

5 E Cheney	17	1700CST			0	0			Hail (0.75)
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### **Sedgwick County**

3 W Garden Plain	17	1700CST			0	0			Hail (0.75)
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### **Reno County**

1 E Cheney Res	17	1715CST			0	0			Hail (0.75)
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### **Sumner County**

3 NW Perth	17	1716CST			0	0			Hail (1.00)
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### **Sumner County**

5 W Wellington	17	1718CST			0	0			Hail (1.00)
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### **Sumner County**

Mayfield	17	1720CST			0	0			Hail (1.00)
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### **Harper County**

3 W Anthony	17	1728CST			0	0			Hail (0.75)
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### **Sumner County**

3 E Ashton	17	1735CST			0	0			Hail (0.75)
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### **Harper County**

Harper	17	1739CST			0	0			Hail (0.75)
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### **Reno County**

Pretty Prairie	17	1740CST			0	0			Hail (1.00)
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### **Reno County**

3 W Pretty Prairie	17	1742CST			0	0			Hail (0.88)
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# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>KANSAS, Southeast</u></b>									
<b>Reno County</b>									
Hutchinson	17	1750CST			0	0			Hail (0.75)
<b>Sumner County</b>									
1 W Mayfield	17	1750CST			0	0			Hail (0.75)
<b>Kingman County</b>									
2 NE Cleveland	17	1752CST			0	0			Thunderstorm Wind (G52)
<b>Harper County</b>									
2 N Harper	17	1755CST			0	0			Hail (0.75)
<b>Reno County</b>									
5 W Arlington	17	1800CST			0	0			Hail (0.75)
<b>Reno County</b>									
2 NE Turon	17	1805CST			0	0			Thunderstorm Wind (G52)
<b>Kingman County</b>									
Zenda	17	1835CST			0	0			Hail (0.75)
<b>Kingman County</b>									
Zenda	17	1840CST			0	0			Hail (0.75)
<b><u>KANSAS, Southwest</u></b>									
<b>Lane County</b>									
9 N Dighton	17	1508CST			0	0			Hail (0.75)
<b>Comanche County</b>									
17 SE Coldwater	17	1610CST			0	0			Hail (0.75)
<b><u>KENTUCKY, Central</u></b>									
<b>Clinton County</b>									
Countywide	19	1258EST			0	0			Hail (1.75)
Golf ball size hail was reported over much of the southern part of the county.									
<b>Clinton County</b>									
Albany	19	1300EST			0	0	20K		Thunderstorm Wind (G75)
A thunderstorm wind gust blew the roof off a home.									
<b>Clinton County</b>									
Shipley	19	1300EST			0	0			Hail (2.75)
<b>Madison County</b>									
Berea	19	1942EST			0	0			Hail (1.75)
<b>Boyle County</b>									
Perryville	20	1356EST			0	0			Hail (1.00)
<b>Mercer County</b>									
Mc Afee	20	1419EST			0	0			Hail (0.75)
<b>Boyle County</b>									
Perryville	20	1450EST			0	0			Hail (0.88)
<b>Washington County</b>									
Fredricktown	20	1653EST			0	0			Hail (0.75)
<b><u>KENTUCKY, Eastern</u></b>									
<b>Wayne County</b>									
10 W Monticello	19	1314EST			0	0	0	0	Hail (0.75)
<b>Pulaski County</b>									
Faubush	19	1353EST			0	0	0	0	Hail (0.75)
<b>Wayne County</b>									
Monticello	19	1438EST			0	0	0	0	Hail (0.88)
<b>Wayne County</b>									
Monticello	19	1438EST 1445EST			0	0	0	0	Hail (0.88)
<b>Pulaski County</b>									
Science Hill	19	1515EST			0	0	0	0	Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

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

## KENTUCKY, Eastern

### Mccreary County

Whitley City	19	1530EST			0	0	0	0	Thunderstorm Wind (G50)
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Trees were down.

### Laurel County

London	19	1629EST			0	0	0	0	Hail (0.75)
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### Jackson County

Morrill	19	1648EST			0	0	0	0	Hail (0.75)
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### Estill County

Central Portion	19	1830EST			0	0	0	0	Hail (0.75)
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Three quarter inch diameter hail fell in central and northern portions of the county.

### Powell County

Stanton	19	2013EST			0	0	0	0	Hail (0.75)
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### Bath County

Owingsville	19	2015EST			0	0	0	0	Hail (0.75)
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### Pulaski County

Somerset	20	1437EST			0	0	0	0	Hail (0.75)
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### Montgomery County

Camargo	20	1536EST			0	0	0	0	Hail (0.75)
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### Bath County

Olympia	20	1545EST			0	0	0	0	Hail (0.88)
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### Bath County

Salt Lick	20	1602EST			0	0	0	0	Hail (0.75)
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### Rowan County

Morehead	20	1641EST			0	0	0	0	Hail (0.75)
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### Laurel County

London	20	1705EST			0	0	0	0	Hail (0.75)
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### Laurel County

3 N Pittsburg	20	1715EST			0	0	0	0	Hail (0.88)
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### Elliott County

11 N Sandy Hook	20	1720EST			0	0	0	0	Hail (0.88)
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### Laurel County

5 E London	20	1723EST			0	0	0	0	Hail (0.75)
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### Johnson County

Staffordsville	20	1752EST			0	0	0	0	Hail (0.75)
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### Martin County

2 SSE Inez	20	1752EST			0	0	0	0	Hail (0.88)
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### Clay County

Burning Spgs to Oneida	20	1800EST			0	0	0	0	Hail (0.88)
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### KYZ088

### Harlan

30	0930EST				0	0	0	0	Heavy Snow
	1000EST								

An upper level system brought 4 inches of snow to the cooperative observer in Closplint.

## KENTUCKY, Northeast

NONE REPORTED.

## KENTUCKY, Northern

### KYZ100

### Lewis

20	1745EST				0	0			Flood
	1830EST								

Thunderstorms producing heavy rain caused minor flooding of roadways across the western part of the county.

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<b><u>KENTUCKY, Southwest</u></b>									
<b>KYZ004&gt;005-007-010-014-018</b>	<b>Ballard - Mccracken - Livingston - Crittenden - Union - Henderson</b>								
	<b>01 08</b>	<b>0001CST 1400CST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
The Ohio River remained above flood stage from late February. The river had already crested in late February downriver from Smithland, at the confluence of the Cumberland River. Above Smithland, the crest occurred on March 2. At Uniontown, where the J.T. Myers Lock and Dam is located, the crest was 42.7 feet. This was about 5.7 feet above flood stage and affected mainly bottomland and surrounding low-lying areas. Very few if any structures were affected. Some rural county roads were closed, and riverside parks and campgrounds were flooded. The river fell back below flood stage at all western Kentucky gages by March 8.									
<b>KYZ015-018&gt;021</b>	<b>Webster - Henderson - Daviess - Mclean - Muhlenberg</b>								
	<b>01 06</b>	<b>0001CST 1200CST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
The Green River remained above flood stage from late February. The river had crested in February but was still above flood stage until March 5 at Calhoun.									
<b>Calloway County</b>									
<b>4 W New Concord</b>	<b>25</b>	<b>1753CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
<b><u>LAKE ERIE</u></b>									
<b>Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border</b>									
<b>Maumee Bay to Reno Beach</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border</b>									
<b>Reno Beach to The Islands</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border</b>									
<b>The Islands to Vermilion</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border</b>									
<b>Vermilion to Avon Point</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Maumee Bay To Reno Beach Oh</b>									
<b>Maumee Bay to Reno Beach</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Reno Beach To The Islands Oh</b>									
<b>Reno Beach to The Islands</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>The Islands To Vermilion Oh</b>									
<b>The Islands to Vermilion</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>
<b>Vermilion To Avon Point Oh</b>									
<b>Vermilion to Avon Point</b>	<b>28</b>	<b>2010EST 2145EST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind</b>

Showers moved across the western basin of Lake Erie. Although no thunder or lightning was observed, the showers were intense enough to produce wind gusts in excess of 35 knots. An automated wind sensor recorded a 35 knot gust at Port Clinton.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## LAKE MICHIGAN

### New Buffalo To St Joseph Mi

St. Joseph Harbor	28	1118EST 1138EST			0	0			Marine Tstm Wind
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A 36 knot wind gust occurred in the St. Joseph harbor.

### St Joseph To South Haven Mi

St. Joseph Harbor	28	1118EST 1138EST			0	0			Marine Tstm Wind
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A 36 knot wind gust occurred in the St. Joseph Harbor.

### Lm New Buffalo To Holland Mi 5Nm Offshore To Mid Line Of Lake

St. Joseph Harbor to South Haven Harbor	28	1130EST 1245EST			0	0			Marine Tstm Wind
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A peak wind gust to 36 knots was measured at Benton Harbor at 11:38 a.m. EST.

### Lm Holland To Whitehall Mi 5Nm Offshore To Mid Line Of Lake

Muskegon Harbor	28	1200EST 1245EST			0	0			Marine Tstm Wind
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A 40 knot wind gust was recorded in Muskegon.

### Holland To Grand Haven Mi

Grand Haven Harbor	28	1218EST 1238EST			0	0			Marine Tstm Wind
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A 38 knot wind gust was measured at Holland, near the coast of Lake Michigan, at 12:38 p.m. EST.

### Grand Haven To Whitehall Mi

Muskegon Harbor	28	1220EST 1240EST			0	0			Marine Tstm Wind
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A wind gust to 40 knots was measured in Muskegon at 12:25 p.m. EST, near the shore of Lake Michigan.

### South Haven To Holland Mi

Holland Harbor	28	1223EST 1243EST			0	0			Marine Tstm Wind
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A 38 knot wind gust was measured in Holland at 12:43 p.m.

## LAKE ST CLAIR

### Detroit River

Grosse Ile to Ambassador Bridge	28	2017EST			0	0			Marine Tstm Wind
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### Lake St Clair (U.S. Portion)

Grosse Pointe	28	2017EST			0	0			Marine Tstm Wind
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A 45 MPH wind gust was measured as a cluster of thunderstorms moved over the Detroit River and Lake St Clair.

## LOUISIANA, Northeast

### Catahoula Parish

Larto	12	1630CST			0	0	5K		Hail (2.75)
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### Catahoula Parish

8 S Jonesville	12	1710CST			0	0	3K		Hail (1.75)
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### Concordia Parish

Monterey	12	1715CST			0	0	3K		Hail (1.75)
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### Concordia Parish

Monterey	12	1948CST			0	0	10K		Hail (1.50)
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# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>LOUISIANA, Northeast</u></b>									
<b>Catahoula Parish</b>									
3 NW Larto to 1 N Serena	18	1733CST 1739CST	5	100	0	0	50K		Tornado (F0)
A tornado touched down 3 miles NW of Larto and moved NE to 1 mile N Serena. A roof was taken off a moblie home along with numerous trees knocked down.									
<b>Concordia Parish</b>									
1 S Lismore to 1 E Lismore	18	1755CST 1757CST	1.5	100	0	0	10K		Tornado (F0)
A tornado touched down near Lismore and snapped numerous trees.									
<b>Concordia Parish</b>									
5 W Frogmore	18	1805CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees.									
<b>Concordia Parish</b>									
Ferriday	18	1820CST			0	0	1K		Hail (0.88)
<b>Concordia Parish</b>									
3 W Clayton	18	1830CST			0	0	1K		Hail (0.75)
<b>Franklin Parish</b>									
4 NE Winnsboro	18	1835CST			0	0	1K		Thunderstorm Wind (G51)
Thunderstorm winds knocked down several large limbs.									
<b>Tensas Parish</b>									
Waterproof	18	1842CST			0	0	1K		Hail (1.00)
<b>Franklin Parish</b>									
5 N Crowville	18	1844CST			0	0			Funnel Cloud
<b>Tensas Parish</b>									
St Joseph	18	1858CST			0	0	1K		Hail (1.00)
<b>Concordia Parish</b>									
Ferriday	18	1859CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees in Ferriday.									
<b><u>LOUISIANA, Northwest</u></b>									
<b>Grant Parish</b>									
7 N Colfax	12	1430CST			0	0			Hail (1.00)
<b>Natchitoches Parish</b>									
4 S Cloutierville	12	1700CST			0	0			Hail (2.00)
<b>Natchitoches Parish</b>									
Cloutierville	12	1710CST			0	0			Hail (1.75)
<b>Grant Parish</b>									
5 N Colfax	12	1725CST			0	0			Hail (0.88)
<b>Winn Parish</b>									
6 SE Winnfield	12	1750CST			0	0			Hail (1.75)
<b>Sabine Parish</b>									
Toledo Bend Res South	18	1430CST			0	0			Hail (0.88)
<b>Webster Parish</b>									
5 S Springhill	25	2110CST			0	0			Hail (1.00)
<b>Caddo Parish</b>									
Rodessa	25	2200CST			0	0			Hail (0.75)
<b>Bossier Parish</b>									
3 W Rocky Mt	25	2205CST			0	0			Hail (1.00)
<b>Webster Parish</b>									
2 S Springhill	25	2235CST			0	0			Hail (1.00)
<b>Claiborne Parish</b>									
Homer	25	2330CST			0	0			Hail (1.25)
Hail covered the ground to 2 inches deep.									
<b>Lincoln Parish</b>									
4 S Dubach	26	0005CST			0	0			Hail (1.75)



# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
LOUISIANA, Northwest									
Lincoln Parish									
Choudrant	26	0020CST			0	0			Hail (1.00)
LOUISIANA, Southeast									
Ascension Parish									
Darrow	06	1616CST			0	0			Hail (1.75)
Ascension Parish									
Sorrento	06	1616CST			0	0			Hail (1.75)
Washington Parish									
3 W Franklinton	06	1633CST			0	0			Hail (0.75)
Three quarter inch diameter hail was observed near Highway 10 and Highway 440.									
Iberville Parish									
Pigeon	06	1757CST			0	0			Hail (0.75)
Iberville Parish									
White Castle	06	1800CST			0	0			Hail (1.75)
Livingston Parish									
Maurepas	06	1832CST			0	0			Hail (1.75)
Tangipahoa Parish									
4 SE Ponchatoula	06	1848CST			0	0			Hail (1.75)
Golfball size hail covered the ground.									
St. Tammany Parish									
Bush	06	1915CST			0	0			Hail (0.88)
Ascension Parish									
Donaldsonville	06	2050CST			0	0			Hail (1.00)
Ascension Parish									
Mc Call	06	2050CST			0	0			Hail (1.00)
Livingston Parish									
2 W Holden	12	1620CST			0	0			Hail (0.75)
Tangipahoa Parish									
2 N Tickfaw	12	1640CST			0	0			Hail (1.00)
Pointe Coupee Parish									
Innis	12	1806CST			0	0			Hail (1.75)
East Feliciana Parish									
Felixville	12	2043CST			0	0			Hail (1.00)
One inch diameter hail covered the ground.									
East Feliciana Parish									
1 E Felixville	12	2050CST			0	0			Hail (1.00)
One inch diameter hail covered the ground.									
St. Helena Parish									
Greensburg	12	2130CST			0	0			Hail (1.75)
Tangipahoa Parish									
10 S Kentwood	12	2140CST			0	0			Hail (0.88)
Tangipahoa Parish									
Tangipahoa	12	2220CST			0	0			Hail (0.88)
Livingston Parish									
1 E Denham Spgs	13	1305CST			0	0			Hail (1.75)
St. Charles Parish									
Hahnville	13	1435CST			0	0			Hail (0.75)
Jefferson Parish									
Kenner	13	1450CST			0	0			Hail (0.75)
Jefferson Parish									
Metairie	13	1456CST			0	0			Hail (0.75)
Ascension Parish									
Donaldsonville	18	1800CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm wind gusts blew a large metal awning off a swimming pool area at a private club. Power lines and several roofs were also damaged in the area.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## LOUISIANA, Southwest

### St. Mary Parish

Baldwin	06	1635CST			0	0			Hail (1.75)
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### Rapides Parish

Pineville	12	1510CST			0	0			Hail (2.75)
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Baseball size hail broke car windows in the Pineville area.

### Rapides Parish

Pineville	12	1536CST			0	0			Hail (1.75)
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### Avoyelles Parish

10 NW Marksville	12	1745CST			0	0			Hail (0.75)
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### Cameron Parish

Grand Lake	13	0948CST			0	0			Hail (0.75)
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### Cameron Parish

15 N Grand Chenier	13	1048CST			0	0			Hail (1.00)
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### Vernon Parish

Slagle	18	1520CST			0	0			Hail (0.75)
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### Rapides Parish

Pineville	18	1645CST			0	0			Hail (1.00)
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### Rapides Parish

Deville	18	1720CST			0	0	2K		Thunderstorm Wind (G50)
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Trees and power lines were blown down along Highway 115.

### Avoyelles Parish

8 NE Effie	18	1720CST 1722CST	1	10	0	0	2K		Tornado (F0)
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A SKYWARN spotter reported a small tornado near Saline Lake. Minor damage primarily to trees and shrubs.

## MAINE, North

### MEZ002

### Northeast Aroostook

03	1000EST			0	0			Blizzard
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Sustained winds of 30 to 40 mph...with gusts to around 50 mph...combined with recent snows to produce widespread blowing and drifting snow across the region. The snow blowing from high snow banks and open fields along area roads produced extensive drifting across many roads with visibilities frequently reduced to near zero with whiteout conditions.

The poor visibilities and slippery road conditions contributed to between 150 and 200 accidents...several involving multiple vehicles which collided due to the lack of visibility. Injuries were reported in several of the accidents...although total numbers were not available. Portions of several roads were closed at various times due to the hazardous driving conditions.

### MEZ001>006-010

### Northwest Aroostook - Northeast Aroostook - Northern Somerset - Northern Piscataquis - Northern Penobscot - Southeast Aroostook - Central Piscataquis

03	1600EST			0	0			Extreme Cold/Wind Chill
04	0900EST							

Blustery winds combined with sub-zero temperatures to produce wind chills of 35 to 40 below zero.

### MEZ003-005>006

### Northern Somerset - Northern Penobscot - Southeast Aroostook

05	2000EST 2300EST			0	0			Heavy Snow
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Low pressure tracking through the Gulf of Maine to Nova Scotia produced 6 to 8 inches of snow across the region.

## MAINE, South

### MEZ007>009

### Northern Oxford - Northern Franklin - Central Somerset

02	1000EST 2200EST			0	0			Winter Weather/Mix
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# Storm Data and Unusual Weather Phenomena

March 2003

										March 2003
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage			
Location	Date				Killed	Injured	Property	Crops	Character of Storm	

## MAINE, South

**MEZ012>014**

**Southern Oxford - Southern Franklin - Southern Somerset**

**02 1000EST 0 0 Heavy Snow**  
**2200EST**

An area of low pressure moving northeastward along the coast brought a moderate to heavy snowfall to the mountains and foothills with lesser amounts toward the coast. Snowfall amounts ranged from 3 to 6 inches in the mountains to 4 to 8 inches in the foothills. Elsewhere, 2 inches of snow or less was reported.

**MEZ007>009**

**Northern Oxford - Northern Franklin - Central Somerset**

**30 0700EST 0 0 Winter Weather/Mix**  
**31 0200EST**

The combination of an area of low pressure moving northeastward along the coast and colder air filtering southward from Canada brought a moderate snowfall to the mountains. Snowfall amounts ranged from 3 to 6 inches in the mountains, with 1 to 3 inches in the foothills and lesser amounts toward the coast.

## MARYLAND, Central

**Allegany County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Anne Arundel County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Baltimore County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Baltimore City (C)**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Calvert County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Carroll County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Charles County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Harford County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Howard County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Montgomery County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**St. Mary'S County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**Washington County**

**Countywide 20 0000EST 0 0 Heavy Rain**  
**2359EST**

**MDZ004-013**

**Frederick - Prince Georges**

**20 1415EST 0 0 Flood**  
**1800EST**

Between 1.5 and 2.5 inches of rain fell region wide on the 20th. The heavy precipitation caused flooding of low lying areas and waterways in isolated areas. In Frederick County, the Monocacy River overflowed onto Mumma Ford Road. High water closed 4 other roads countywide including Retreat Road and Black Mills Road. In Prince George's County, a creek overflowed onto Surratts Road in Clinton.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MARYLAND, Central

### MDZ003>004

#### Washington - Frederick

20	1945EST				0	0			Flood
22	1000EST								

Around 2 inches of rain fell region wide on the 20th. The runoff from this precipitation caused the Potomac River and Conococheague Creek to overflow their banks. The Potomac River rose above its flood stage of 16 feet at Point of Rocks at 9:15 PM on the 21st. It crested at 16.85 feet around 3:00 AM on the 22nd and fell below flood stage at 10:00 AM on the 22nd. A low water road to a home in Brunswick was inundated by water. In Washington County, Conococheague Creek rose above its bankful stage of 8 feet at Fairview on the 20th at 7:45 PM. It crested at 10.34 feet at 7:00 AM on the 21st and fell below bankful stage at 6:00 AM on the 22nd. Wishard Road was inundated by water from the creek.

### Charles County

#### Nanjemoy

29	1807EST				0	0			Funnel Cloud
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A funnel cloud was spotted.

### Charles County

#### 2 SW La Plata

29	1825EST	0.1	30		0	0			Tornado (F0)
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A tornado briefly touched down just southwest of La Plata.

### Charles County

#### La Plata

29	1830EST				0	0			Hail (0.75)
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Penny sized hail fell.

### Charles County

#### 3 E La Plata

29	1835EST	0.1	30		0	0			Tornado (F0)
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*Picture of a wall cloud passing over La Plata Town Hall (courtesy of La Plata Police Department)*

A tornado briefly touched down just east of La Plata near Hawkins Gate Road.

A severe thunderstorm pushed across the Potomac River from Stafford County, Virginia into Charles County around Nanjemoy about 6 PM. A funnel cloud dropped from the storm over Nanjemoy and was spotted again several times as the storm moved toward La Plata. The funnel touched down briefly about 2 miles southwest of La Plata and again about 3 miles east of town. A few trees were downed at the site of the first touchdown. The second touchdown near Hawkins Gate Road resulted in little if any damage. When the storm was passing directly over La Plata it produced penny sized hail. A police officer took a photograph of a wall cloud over Town Hall as the storm moved through.

### MDZ002>003

#### Allegany - Washington

30	0500EST				0	0			Winter Storm
	2200EST								

### MDZ004>006-009>011 Frederick - Carroll - Northern Baltimore - Montgomery - Howard - Southern Baltimore

30	0500EST				0	0			Winter Weather/Mix
	2200EST								

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MARYLAND, Central

Low pressure over North Carolina moved northeast along the Atlantic Seaboard on the 31st. This system brought a period of light to moderate snow to western and central Maryland. Snowfall accumulations with this late season storm were elevation dependent because ground temperatures were above freezing below 1500 feet. This prevented most of the snowfall from accumulating in valleys and in lower elevations east of Hagerstown. Lower elevations reported accumulations between 1 and 3 inches. Above 1500 feet where the snow was able to accumulate, snow depth reached 4 to 8 inches. Minor power outages were reported in isolated locations where the snow weighed down on trees and power lines.

## MARYLAND, Northeast

NONE REPORTED.

## MARYLAND, South

NONE REPORTED.

## MARYLAND, West

### MDZ001

### Garrett

30	1000EST	0	0	Heavy Snow
	2359EST			

Snow began after midnight on 30th, accumulated 6 inches by 10 AM, reached 7 inches by noon, and changed to freezing drizzle for a short time, and then to rain.

## MASSACHUSETTS, Central and East

### MAZ002>003-008>011 Western Franklin - Eastern Franklin - Western Hampshire - Western Hampden - Eastern Hampshire - Eastern Hampden

05	0700EST	0	0	Winter Weather/Mix
	1100EST			

Light freezing rain turned roadways into a sheet of ice during the morning rush hour, creating slippery travel conditions in Williamsburg, Goshen, and Cummington which lead to numerous minor accidents. Route 9 in Williamsburg was shut down for about two hours while local and state highway crews worked frantically to make it passable. Nearly one hundred motorists were stranded in the interim. A portion of Route 66 on the line between Westhampton and Northampton was also temporarily closed. No injuries were reported.

### MAZ009-011>013-015>020-022>024 Western Hampden - Eastern Hampden - Southern Worcester - Western Norfolk - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Barnstable - Dukes - Nantucket

06	1100EST	0	0	1.2M	Winter Storm
	2000EST				

A fast moving winter storm passing south of New England brought heavy snow to south central and southeast Massachusetts where totals of 5 to 10 inches were common. The snow began during the late morning hours and ended during the evening, and there were several reports of thunder and lightning that afternoon.

The snow began falling so quickly at the onset that motorists in southeast Massachusetts were caught off guard. This created a mess on area roadways, including a chain-reaction pileup of some one hundred vehicles on the southbound lanes of Interstate 95 in Attleboro. No serious injuries were reported, but hundreds of people were stranded for several hours after authorities shut down a ten mile stretch of I-95 from Attleboro to the Rhode Island border. The treacherous conditions also caused two smaller multi-vehicle accidents in the region - one involving a dozen vehicles on Route 3 in Kingston and the other affecting about twenty vehicles on Route 24 near Interstate 495. Several accidents were also reported on Interstate 495 from Wrentham to Foxboro.

Official snowfall totals from the storm included 9.0 inches at the Blue Hill Observatory in Milton; 7.0 inches at the National Weather Service office in Taunton; 5.8 inches at Logan International Airport in Boston; and 5.0 inches at Worcester Airport.

Other snowfall totals as reported by trained spotters included 12 inches in Brockton; 11 inches in South Weymouth, Plymouth, and Millville; 10 inches in Chatham, Wellfleet, Vineyard Haven, Marshfield, Duxbury, and Randolph; 9 inches in Eastham, Barnstable, Edgartown, Nantucket, New Bedford, Norton, West Plymouth, and Hingham; 8 inches in Provincetown, Sandwich, Wareham, Acushnet, Rehoboth, Foxboro, Walpole, and Douglas; 7 inches in West Tisbury, Somerset, West Bridgewater, Quincy, Norwood, Hopkinton, Hopedale, Webster, Monson, and Longmeadow; and 6 inches in Dedham, Needham, Newton, Holliston, Sutton, Granville, and Wilbraham. Snowfall amounts tapered off to as little as 2 to 4 inches near the New Hampshire border.

## **Bristol County**

Countywide	29	1700EST	0	0	Heavy Rain
	30	1700EST			

## **Middlesex County**

Billerica to	29	1700EST	0	0	Heavy Rain
Hopkinton	30	1800EST			

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MASSACHUSETTS, Central and East

### **Barnstable County**

Countywide	29	1800EST			0	0			Heavy Rain
	30	1600EST							

### **Dukes County**

Countywide	29	1800EST			0	0			Heavy Rain
	30	1600EST							

### **Essex County**

Peabody to	29	1800EST			0	0			Heavy Rain
Beverly	30	1900EST							

### **Nantucket County**

Countywide	29	1800EST			0	0			Heavy Rain
	30	1600EST							

### **Norfolk County**

Countywide	29	1800EST			0	0			Heavy Rain
	30	1800EST							

### **Plymouth County**

Countywide	29	1800EST			0	0			Heavy Rain
	30	1800EST							

Low pressure tracking from the mid Atlantic states to Cape Cod brought heavy rain to much of eastern Massachusetts, where rainfall totals between 2 and 4 inches were common, with the highest amounts on Cape Cod and the Islands. Despite the heavy rainfall, no serious flooding was reported, aside from the usual minor urban and poor drainage flooding.

Some specific rainfall totals as reported by trained spotters included 4.07 inches on Nantucket, 3.90 inches in West Plymouth, 3.80 inches in Chatham, 3.68 inches in Vineyard Haven, 3.50 inches in Somerset, 2.97 inches in Fairhaven, 2.70 inches in Belmont, 2.50 inches in Quincy, and 2.30 inches in Peabody.

## MASSACHUSETTS, West

### **MAZ001-001**

#### **Northern Berkshire**

	29	2000EST			0	0			Flood
	30	0600EST							

An area of low pressure, moving along a slow moving cold front on March 29 and 30, produced 1 to 2 inches of rainfall across western Massachusetts. The rain, combined with seasonably mild temperatures, melted much of the remaining snow pack across this area. The combination of the rain and mild temperatures, produced another significant runoff which caused some minor flooding along the Hoosic. The gage at Williamstown crested 9.3 feet, 0.3 feet above flood stage. The gage at Eagle Bridge crested just above its flood stage of 11 feet. No problems were reported to the National Weather Service as a result of this minor flooding.

## MICHIGAN, East

### **MIZ076**

#### **Wayne**

	03	1230EST			1	0			Extreme Cold/Wind Chill
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An 86-year old woman died from Hypothermia after wandering away from a nursing home in Livonia.  
F86OU

### **MIZ053>055-060>063-068>070**

#### **Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb**

	04	1600EST			0	0			Heavy Snow
	05	0800EST							

A low pressure system moved into Ohio late on the 4th through early in the 5th. A tremendous amount of moisture on the back side of this low combined with a cold airmass over the Great Lakes to produce some heavy snowfall across eastern Michigan. The heaviest snowfall (generally 6 to 8 inches) extended from the southern portions of Livingston, Oakland and Macomb counties to far southern Saginaw, Tuscola and northern Sanilac counties. Some snowfall reports include: 8.5 inches in St Clair (St Clair county); 8.2 inches in Lapeer (Lapeer county), 8.0 inches in Burton (Genesee county), 7.9 inches in Ortonville (northern Oakland County), 7.5 inches at the White Lake National Weather Service Office (Oakland county), 7.0 inches in Hartland (Livingston County), and 7.0 inches in Fort Gratiot (St Clair county). Outside of this region of heavy snowfall, the rest of eastern Michigan generally received 2 to 4 inches. The snowfall was enough to cause dozens of traffic accidents and even some minor injuries (indirect). Most school districts in the region closed due to the snowfall.

### **MIZ076**

#### **Wayne**

	09	0615EST			1	0			Extreme Cold/Wind Chill
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A 74-year old man wandered out of a retirement home in Westland and died of Hypothermia.  
M74OU

### **Lenawee County**

Adrian	20	1657EST			0	0			Hail (1.00)
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# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<b><u>MICHIGAN, East</u></b>									
<b>Lenawee County</b>									
1 E Adrian	20	1700EST			0	0			Hail (1.00)
<b>Lenawee County</b>									
Britton	20	1710EST			0	0			Hail (0.88)
<b>Lenawee County</b>									
5 S Tecumseh	20	1717EST			0	0			Hail (1.00)
<b>Shiawassee County</b>									
Corunna	20	1800EST			0	0			Hail (0.75)
<b>Lenawee County</b>									
1 E Addison	28	1730EST			0	0	0		Thunderstorm Wind (G50)
Spotters reported that a very large tree was blown over in thunderstorm winds.									
<b>Lenawee County</b>									
2 S Hudson	28	1730EST			0	0	0		Thunderstorm Wind (G50)
It was reported by spotters that a couple 4 inch diameter trees were blown down in thunderstorm winds.									
<b>Washtenaw County</b>									
3 N Chelsea	28	1740EST			0	0	0		Thunderstorm Wind (G51)
A trained spotter measured a 60 MPH wind gust in a thunderstorm.									
<b>Washtenaw County</b>									
Chelsea	28	1745EST			0	0	0.50K		Thunderstorm Wind (G50)
Law enforcement reported that thunderstorm winds blew over a power pole.									
<b>Washtenaw County</b>									
1 N Dexter	28	1747EST 1748EST			0	0	0		Thunderstorm Wind (G50)
Spotters reported that several large tree limbs were blow down in thunderstorm winds.									
<b>Livingston County</b>									
1 NE Hamburg	28	1800EST			0	0	1K		Thunderstorm Wind (G52)
Law enforcement reported that several trees and power lines were blown down in thunderstorm winds.									
<b>Oakland County</b>									
Highland	28	1805EST			0	0	0		Thunderstorm Wind (G51)
A wind gust of 60 MPH was estimated by law enforcement.									
<b>Lapeer County</b>									
Lapeer	28	1843EST			0	0	1K		Thunderstorm Wind (G50)
Law enforcement officials reported several large tree limbs were blown down in thunderstorm winds and knocked over several power lines.									
<b>Oakland County</b>									
Troy	28	1845EST			0	0	0		Thunderstorm Wind (G61)
A 70 MPH thunderstorm wind gust was measured by a trained spotter.									
A strong cold front moved through Lower Michigan during the evening of March 28th. Temperatures warmed to near 70 degrees during the afternoon ahead of this front under strong southwest winds, gusting as high as 40 MPH. Thunderstorms developed along and ahead of this cold front late in the afternoon over southwest Lower Michigan. These storms then moved across Eastern Michigan during the evening hours. Some of these storms produced wind gusts of 50 to 60 MPH.									
<b><u>MICHIGAN, Extreme Southwest</u></b>									
<b>St. Joseph County</b>									
Three Rivers to Sturgis	20	1440EST 1447EST			0	0			Hail (1.75)
Golf ball size hail was reported in Three Rivers, with reports of quarter size hail in Sturgis.									
<b><u>MICHIGAN, North</u></b>									
<b>MIZ016&gt;017</b>									
<b>Emmet - Cheboygan</b>									
08		1800EST 2000EST			0	0			Heavy Snow
A fast moving area of low pressure moved across southern lower Michigan on the afternoon of the 8th. The system brought a small swath of around 6 inches of snow to extreme northern lower Michigan.									
<b><u>MICHIGAN, Upper</u></b>									
<b>MIZ013&gt;014</b>									
<b>Delta - Schoolcraft</b>									
03		2100EST			0	0			Winter Storm
04		0200EST							
A deepening area of low pressure crossed Minnesota and northern Wisconsin during the afternoon of March 3rd and entered Upper									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MICHIGAN, Upper

Michigan that evening. Light snow spread from west to east across the Upper Peninsula. Cold air moving over the open waters of Lake Michigan created conditions favorable for lake enhancement that afternoon and evening across eastern Delta County and southern Schoolcraft County. In addition, strong south winds brought local near-blizzard conditions to lakeshore areas along highway US-2 between Rapid River and Manistique with the combination of heavy snow and blowing snow. As the low moved east during the evening, winds shifted southwest by midnight ending the lake enhanced heavy snow. Nine inches of snow fell in 12 hours just north of Manistique. The Michigan State Police Post at Gladstone reported that the strong winds and blowing snow frequently produced visibilities of a quarter of a mile or less along Highway US-2 and lasted for nearly 5 hours.

### **MIZ001>005-009>011 Keweenaw - Ontonagon - Houghton - Baraga - Marquette - Gogebic - Iron - Dickinson**

<b>28</b>	<b>0400EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>29</b>	<b>0500EST</b>			

On March 27th and 28th, intense low pressure from eastern Kansas moved across the Great Lakes region. Abundant moisture ahead of the low overspread Upper Michigan, bringing periods of heavy snow to locations west of a line from Munising to Iron Mountain. The snow was wet and heavy, causing hazardous travel conditions and difficult clean-up and snow removal. Snowfall reports included 10 inches in Channing, Fortune Lake, and at the National Weather Service Office in Negaunee, 11 inches in Bessemer, 12 inches in Ontonagon, 14 inches in Baraga, 16 inches in Calumet and Mohawk, and 20 inches in Phoenix. The precipitation was a mix of rain and snow or mostly rain over the eastern parts of the Upper Peninsula and caused few problems.

## MICHIGAN, West

### **MIZ037-043-050>052-056>059-064>067-071>074 Mason - Oceana - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson**

<b>04</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>05</b>	<b>0600EST</b>			

Low pressure moved from the panhandle of Texas northeast to Nebraska and eventually to near Toledo Ohio, producing heavy snow across central and southern lower Michigan. The heaviest snow fell in Mason (Ingham county), where ten inches of snow was reported. Eight inch snowfall reports were received from southern Montcalm county and also near Holland, in northern Allegan and southern Ottawa counties. Most of the rest of the area between I-96 and I-94 generally received anywhere from 6 to 7 inches of snow in less than 12 hours. Another swath of around six inches of snow which fell in less than 12 hours was reported across Mason, Oceana, and Muskegon counties.

### **Kalamazoo County**

<b>Vicksburg</b>	<b>20</b>	<b>1501EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Hail (0.75)</b>
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A severe thunderstorm produced three quarters inch hail in Vicksburg.

### **Kent County**

<b>Lowell</b>	<b>20</b>	<b>1549EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Hail (0.75)</b>
		<b>1550EST</b>				

Three quarters inch hail was reported in Lowell, and at one point hail covered the ground in Lowell township.

### **Ionia County**

<b>Clarksville to Saranac</b>	<b>20</b>	<b>1555EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Hail (0.75)</b>
		<b>1600EST</b>				

Three quarters inch hail was reported in both Clarksville and Saranac.

### **Ionia County**

<b>Orleans</b>	<b>20</b>	<b>1630EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Thunderstorm Wind (G52)</b>
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Severe thunderstorm wind gusts blew down several large trees two miles south of Orleans.

### **Montcalm County**

<b>Carson City</b>	<b>20</b>	<b>1645EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Thunderstorm Wind (G52)</b>
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Numerous large trees were blown down by severe thunderstorm wind gusts two miles north of Carson City.

### **Allegan County**

<b>Pullman to Wayland</b>	<b>28</b>	<b>1214EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Thunderstorm Wind (G52)</b>
		<b>1224EST</b>				

A tree was blown down in Pullman, 5 miles southeast of Holland, and in Wayland between 12:14 and 12:24 p.m. EST.

### **Allegan County**

<b>Otsego</b>	<b>28</b>	<b>1234EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Thunderstorm Wind (G52)</b>
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Two trees were blown down in Otsego.

### **Muskegon County**

<b>Whitehall</b>	<b>28</b>	<b>1238EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Thunderstorm Wind (G52)</b>
		<b>1239EST</b>				

A tree was blown down 6 miles east of Whitehall, and another was blown down 6 miles south of Whitehall.

### **Jackson County**

<b>Jackson to Brooklyn</b>	<b>28</b>	<b>1632EST</b>	<b>0</b>	<b>0</b>	<b>25K</b>	<b>Thunderstorm Wind (G52)</b>
		<b>1638EST</b>				

Numerous trees were blown down across Jackson county, and two large trees were uprooted two miles west of Brooklyn.



# Storm Data and Unusual Weather Phenomena

March 2003

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

## MINNESOTA, Central and South Central

NONE REPORTED.

## MINNESOTA, Northeast

**MNZ010>011**

**Koochiching - Northern St. Louis**

**27 0100CST  
1500CST**

**0 0**

**Heavy Snow**

A narrow band of heavy snow fell from northeastern Koochiching County into far northwestern St. Louis County. Snow amounts ranged from 6 to 12 inches. International Falls had 9 inches while Ranier had 12 inches of snow.

**MNZ012-020>021-037**

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

**27 1300CST  
29 0100CST**

**0 0**

**Heavy Snow**

A combination of synoptic and lake-enhanced snow fell across the area with amounts ranging from seven inches in Cloquet to 12 inches in West Duluth. Other amounts include 10 inches at Finland, 8 inches near Grand Marais, 7 inches up the Gunflint Trail, and 10.5 inches at Floodwood.

## MINNESOTA, Northwest

**MNZ001>009-**

**013>017-022>024-  
027>032-040**

**West Polk - Norman - Clay - Kittson - Roseau - Lake Of The Woods - West Marshall - East Marshall - North Beltrami - Pennington - Red Lake - East Polk - North Clearwater - South Beltrami - Mahnomen - South Clearwater - Hubbard - West Becker - East Becker - Wilkin - West Otter Tail - East Otter Tail - Wadena - Grant**

**08 1454CST  
09 1200CST**

**0 0**

**500K**

**Extreme Cold/Wind Chill**

A fairly compact ridge of high pressure brought clear skies and brisk west/northwest winds to portions of northwest and west central Minnesota. High temperatures on the 8th were only in the single digits above and below zero. The west/northwest winds of 15 to 25 mph with a few gusts to 35 mph kept temperatures from plunging too far, yet overnight temperatures did drop to 10 below to 20 below zero (or about 30 degrees below normal). This dropped wind chill temperatures to 40 below to 50 below zero for a prolonged period the night of the 8th into the morning of the 9th. With only a few inches of snow left on the ground (mostly in sheltered areas), these extreme wind chill temperatures disrupted public events and services. Some schools cancelled or postponed activities, rather than risk unneeded exposure to these elements. Numerous water main breaks were also reported, due to the prolonged exposure to the cold.

**MNZ004>009**

**Kittson - Roseau - Lake Of The Woods - West Marshall - East Marshall - North Beltrami**

**26 2250CST  
27 1130CST**

**0 0**

**Heavy Snow**

A strong upper level disturbance combined with an inverted trough at the surface to produce heavy snow across northwest Minnesota. The event began as light rain, then changed over to snow as cold air was drawn into the system. The heavy, wet snow broke some tree branches and resulted in scattered power outages. A foot of snow fell from the Lake of the Woods to Thief Lake, with 6 to 10 inches of snow common across the rest of the warning area. The heavy snow moved very slowly from west to east, resulting in a slow eastward progression of warnings. Therefore, the heavy snow warning was issued first for Kittson and western Marshall counties (3/26/03 at 10:50 pm cst), next for Roseau and eastern Marshall counties (3/27/03 at 3:58 am cst), and last for Lake of the Woods and northern Beltrami counties (3/27/03 at 7:34 am cst). The warnings for Kittson, east and west Marshall, and Roseau were cancelled at 8:33 am cst on 3/27/03, while Lake of the Woods and northern Beltrami were cancelled at 11:30 am cst on 3/27/03.

## MINNESOTA, Southeast

NONE REPORTED.

## MINNESOTA, Southwest

NONE REPORTED.

## MINNESOTA, West

NONE REPORTED.

## MINNESOTA, West Central

NONE REPORTED.

## MISSISSIPPI, Central

**Hinds County**

**Byram**

**05 1630CST**

**0 0**

**15K**

**Thunderstorm Wind (G55)**

Thunderstorm winds knocked down numerous trees and powerlines near Henderson and Kaybrook Rd.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<b>MISSISSIPPI, Central</b>							
<b>Hinds County</b>							
Byram	05	1640CST 2000CST			0 0	5K	Flash Flood
			Heavy rains caused a portion of Siwell Road to flood.				
<b>Rankin County</b>							
Florence	05	1640CST 2000CST			0 0	5K	Flash Flood
			Heavy rains caused a portion of Luckney Road to flood.				
<b>Rankin County</b>							
2 N Florence	05	1650CST			0 0	10K	Thunderstorm Wind (G50)
			Thunderstorm winds knocked down a few trees and powerlines.				
<b>Rankin County</b>							
Richland	05	1650CST 2000CST			0 0	10K	Flash Flood
			Heavy rains caused several streets to flood in the city.				
<b>Rankin County</b>							
Pearl	05	1653CST 2000CST			0 0	5K	Flash Flood
			Heavy rains caused a portion of Old Brandon Road to have water covering it. The rising water threatened a few outbuildings in a neighborhood.				
<b>Hinds County</b>							
Jackson	05	1725CST 2000CST			0 0	5K	Flash Flood
			Heavy rains caused a creek to flood a portion of Highway 18, 1 mile south of I-20.				
<b>Hinds County</b>							
Raymond	05	1738CST 2000CST			0 0	1K	Flash Flood
			Heavy rains caused several creeks and streams to flood.				
<b>Lauderdale County</b>							
Marion	05	1750CST			0 0	1K	Hail (0.75)
<b>Kemper County</b>							
Blackwater	05	1800CST			0 0	1K	Hail (0.75)
<b>Oktibbeha County</b>							
5 N Starkville	06	0005CST			0 0	1K	Hail (0.75)
<b>Forrest County</b>							
2 SW Mc Callum	06	1713CST			0 0	1K	Hail (0.88)
<b>Lamar County</b>							
Baxterville	06	1820CST			0 0	1K	Hail (0.88)
<b>Lamar County</b>							
1 N Purvis	06	1825CST			0 0	1K	Hail (0.88)
<b>Forrest County</b>							
2 S Mc Callum	06	1830CST			0 0	1K	Hail (0.75)
<b>Lamar County</b>							
4 NE Oak Grove	06	2130CST			0 0	1K	Hail (0.75)
<b>Forrest County</b>							
2 N Hattiesburg	06	2138CST			0 0	1K	Hail (0.88)
<b>Jones County</b>							
1 N Eastabuchie	06	2145CST			0 0	1K	Hail (0.88)
<b>Marion County</b>							
5 N Sandy Hook	06	2315CST			0 0	1K	Hail (0.88)
<b>Lamar County</b>							
7 N Baxterville	06	2328CST			0 0	3K	Hail (1.00)
<b>Forrest County</b>							
Hattiesburg	06	2343CST			0 0	5K	Hail (1.00)
<b>Forrest County</b>							
2 E Petal	07	0035CST			0 0	1K	Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<b>MISSISSIPPI, Central</b>									
<b>Jones County</b>									
Ellisville	12	1840CST			0	0	1K		Hail (1.00)
<b>Hinds County</b>									
Learned	13	0425CST			0	0	1K		Hail (0.75)
<b>Simpson County</b>									
5 SW Magee	13	0645CST			0	0	1K		Hail (0.88)
<b>Jones County</b>									
3 S Ellisville	13	0703CST			0	0	1K		Hail (0.75)
<b>Bolivar County</b>									
Beulah	13	0808CST			0	0	2K		Hail (1.00)
<b>Sunflower County</b>									
Drew	13	0832CST			0	0	2K		Hail (1.00)
<b>Leflore County</b>									
Greenwood	13	0915CST			0	0	1K		Hail (0.75)
<b>Lamar County</b>									
3 S Sumrall	13	0932CST			0	0	1K		Hail (0.88)
<b>Madison County</b>									
Madison	13	0945CST			0	0	1K		Hail (0.75)
<b>Webster County</b>									
Bellefontaine	13	1005CST			0	0	1K		Hail (0.88)
<b>Webster County</b>									
Bellefontaine	13	1005CST			0	0	10K		Thunderstorm Wind (G55)
Thunderstorm winds knocked down several trees that blocked roadways.									
<b>Hinds County</b>									
Utica	13	1045CST			0	0	1K		Hail (0.75)
<b>Choctaw County</b>									
8 N Ackerman	13	1100CST			0	0	10K		Thunderstorm Wind (G55)
Thunderstorm winds knocked trees down on Highway 15 north of Ackerman.									
<b>Lincoln County</b>									
4 SW Brookhaven	13	1115CST			0	0	1K		Hail (0.88)
<b>Rankin County</b>									
Richland	13	1116CST			0	0	1K		Hail (0.88)
<b>Lowndes County</b>									
Columbus	13	1120CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a couple of trees and a powerline.									
<b>Copiah County</b>									
14 W Hazlehurst	13	1122CST			0	0	8K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees on Highway 28.									
<b>Rankin County</b>									
Florence	13	1132CST			0	0	1K		Hail (0.75)
<b>Lauderdale County</b>									
4 N Whynot	14	1700CST			0	0	2K		Hail (1.00)
<b>Jones County</b>									
Sandersville	14	1710CST			0	0	1K		Hail (0.75)
<b>Lauderdale County</b>									
2 SE Meridian	14	1725CST			0	0	10K		Hail (1.00)
Quarter to nickel sized hail covered the ground on the southeast side of Meridian.									
<b>Adams County</b>									
Natchez	18	1919CST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees.									
<b>Claiborne County</b>									
Grand Gulf	18	1919CST			0	0	1K		Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>MISSISSIPPI, Central</u>									
Claiborne County									
3 E Grand Gulf	18	1930CST 1931CST	0.5	50	0	0	5K		Tornado (F0)
A tornado briefly touched down 3 miles east of Grand Gulf. This tornado knocked down and snapped several trees, with one tree down across a roadway.									
Warren County									
2 S Vicksburg	18	2005CST			0	0			Funnel Cloud
Leflore County									
2 NW Minter City	18	2020CST			0	0	1K		Hail (0.75)
Hinds County									
Utica	18	2042CST			0	0	1K		Thunderstorm Wind (G50)
Hinds County									
3 SW Learned	18	2055CST			0	0	1K		Thunderstorm Wind (G50)
Madison County									
2 NW Flora	18	2125CST			0	0	1K		Thunderstorm Wind (G55)
Hinds County									
Learned	18	2130CST			0	0	1K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees.									
Yazoo County									
Benton	18	2200CST			0	0	1K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down several large limbs down.									
Rankin County									
Fannin	18	2240CST			0	0	1K		Thunderstorm Wind (G52)
Smith County									
9 NE Polkville to 9.5 NE Polkville	18	2340CST 2341CST	0.5	100	0	0	25K		Tornado (F0)
A tornado touched down 9 miles NE of Polkville and tore the tin roofs off of 4 chicken houses. Numerous trees were snapped and knocked down.									
Lowndes County									
Columbus	18	2345CST			0	0	5K		Hail (1.25)
Large hail cracked several car windshields on US Highway 82 near Columbus.									
<u>MISSISSIPPI, North</u>									
Tunica County									
Tunica	13	0800CST 0805CST			0	0	0.01K		Hail (0.75)
Tallahatchie County									
Sumner	13	0830CST 0835CST			0	0	0.01K		Hail (0.75)
<u>MISSISSIPPI, South</u>									
Wilkinson County									
Wilkinson	12	1915CST			0	0			Hail (1.00)
Amite County									
9 S Liberty	12	2035CST			0	0			Hail (1.00)
One inch diameter hail covered the ground.									
Pike County									
3 W Summit	13	1150CST			0	0	2.5K		Thunderstorm Wind (G50)
Thunderstorm winds blew down several trees and caused damage to the roof of a building.									
Pearl River County									
Savannan	13	1500CST			0	0	0.50K		Thunderstorm Wind (G50)
A tree was blown down.									
Hancock County									
Kiln	13	1515CST			0	0	10K		Thunderstorm Wind (G50)
The roof was blown off of a house.									
Harrison County									
5 N Gulfport	13	1535CST			0	0			Hail (0.88)
Nickel size hail was observed near the intersection of US Highway 49 and Interstate 10.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>MISSISSIPPI, South</u></b>									
<b>Amite County</b>									
13 W Liberty	18	2010CST			0	0			Hail (1.00)
<b>Pike County</b>									
Osyka	18	2200CST			0	0	2K		Thunderstorm Wind (G50)
Thunderstorm winds caused minor damage to a house.									
<b><u>MISSISSIPPI, Southeast</u></b>									
<b>Perry County</b>									
8 SE Beaumont	09	0515CST 0516CST			0	0			Hail (0.75)
<b>Greene County</b>									
Leaf	09	0520CST 0521CST			0	0			Hail (0.75)
<b>George County</b>									
Lucedale	09	0530CST 0532CST			0	0			Hail (0.75)
<b>Stone County</b>									
Wiggins	12	1900CST			0	0	20K		Lightning
Lightning struck the communications center in Wiggins. The 911 center was without service for several hours.									
<b>Perry County</b>									
Richton	13	1440CST 1442CST			0	0			Hail (0.75)
<b>Greene County</b>									
Sand Hill	13	1450CST 1452CST			0	0			Hail (0.75)
<b>Wayne County</b>									
Buckatunna	13	1515CST 1517CST			0	0			Hail (0.75)
<b><u>MISSOURI, East</u></b>									
<b>MOZ018&gt;019-027-034&gt;035</b>									
<b>Knox - Lewis - Marion - Monroe - Ralls</b>									
	04 05	1800CST 1800CST			0	0			Winter Storm
A mix of freezing rain and sleet started during the evening hours of March 4. About 1/4 inch of ice accumulated across the area before the precipitation changed to snow later that night. By the morning of the 5th, snowfall across the area ranged from 3 to 8 inches.									
<b>Warren County</b>									
Wright City	12	2250CST			0	0			Hail (1.00)
<b>Warren County</b>									
Wright City	12	2250CST			0	0			Lightning
A storm spotter reported 1 inch hail in Wright City. Lightning also hit a power transformer knocking out power to parts of town.									
<b>Moniteau County</b>									
California	12	2256CST			0	0			Thunderstorm Wind (G61)
The County Sheriff reported wind gusts to 70 mph. Some trees and power lines were downed.									
<b>Cole County</b>									
10 NW Jefferson City	12	2328CST			0	0			Thunderstorm Wind (G60)
Thunderstorm wind gusts downed trees northwest of Jefferson City.									
<b>Franklin County</b>									
Union	13	0045CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported power lines down.									
<b>Cole County</b>									
Centertown	13	0050CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported damage to a mobile home roof due to thunderstorm wind gusts.									
<b>Reynolds County</b>									
Centerville	13	0130CST			0	0			Thunderstorm Wind (G55)
The Reynolds County Sheriff Department reported trees down in Centerville.									

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	

## MISSOURI, East

### Iron County

<b>Ironton</b>	<b>19</b>	<b>1330CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G55)</b>
Thunderstorm wind gusts downed a few trees and broke windows in Ironton. Two plate glass windows at Warren's Furniture and Appliances store were blown out by the wind.									

### St. Francois County

<b>Park Hills</b>	<b>19</b>	<b>1400CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G55)</b>
Thunderstorm wind gusts caused minor damage in Park Hills. Roof shingles and a section of guttering were torn off a home. Some trees were also downed.									

### Gasconade County

<b>10 S Hermann</b>	<b>19</b>	<b>1430CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
The County Sheriff reported 3/4 inch hail.									

### Jefferson County

<b>Festus</b>	<b>19</b>	<b>1435CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
The Missouri Highway Patrol reported 1 inch hail.									

### St. Louis County

<b>Maplewood</b>	<b>25</b>	<b>0712CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
Storm spotters reported 1 inch hail.									

## MISSOURI, Lower

### MOZ113

#### Dunklin

<b>02</b>	<b>1100CST</b>			<b>0</b>	<b>0</b>	<b>1K</b>			<b>Strong Wind</b>
	<b>1130CST</b>								

A barn was damaged southwest of Kennett by strong, gusty winds.

## MISSOURI, Northeast

NONE REPORTED.

## MISSOURI, Northwest

### MOZ005-007-016

#### Harrison - Putnam - Sullivan

<b>04</b>	<b>1200CST</b>			<b>0</b>	<b>0</b>				<b>Winter Storm</b>
	<b>1900CST</b>								

A late winter storm moved through extreme northern Missouri on March 4th. Areas from Milan to Livonia received from 5 to 6 inches of snow. A quarter of an inch of ice accumulation was reported around Bethany.

### Platte County

<b>Platte City</b>	<b>12</b>	<b>1920CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Platte County

<b>Kansas City Intl Arp</b>	<b>12</b>	<b>1941CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Platte County

<b>2 S Kansas City Intl Arp</b>	<b>12</b>	<b>1942CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
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### Platte County

<b>Parkville</b>	<b>12</b>	<b>1942CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Platte County

<b>3 W Parkville</b>	<b>12</b>	<b>1950CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Clay County

<b>2 SW Gladstone</b>	<b>12</b>	<b>2001CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Clay County

<b>Liberty</b>	<b>12</b>	<b>2007CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
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### Johnson County

<b>3 W Kingsville</b>	<b>12</b>	<b>2030CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
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### Johnson County

<b>Kingsville</b>	<b>12</b>	<b>2030CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Jackson County

<b>Grain Vly</b>	<b>12</b>	<b>2042CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
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### Jackson County

<b>2 N Grandview</b>	<b>12</b>	<b>2053CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### Jackson County

<b>Greenwood</b>	<b>12</b>	<b>2054CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
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# Storm Data and Unusual Weather Phenomena

March 2003

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

## MISSOURI, Northwest

### Carroll County

Carrollton	12	2055CST			0	0			Hail (0.75)
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### Johnson County

Centerview	12	2055CST			0	0			Hail (2.75)
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### Johnson County

3 E Knob Noster	12	2055CST			0	0			Hail (0.88)
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### Johnson County

1 N Warrensburg	12	2055CST			0	0			Hail (1.00)
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### Johnson County

Warrensburg	12	2104CST			0	0			Hail (1.75)
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### Johnson County

Warrensburg	12	2105CST			0	0			Hail (1.00)
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### Bates County

2 SW Adrian	12	2110CST			0	0			Hail (0.75)
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Wind gusts 50 to 60 mph.

### Cass County

Harrisonville	12	2110CST			0	0			Hail (1.00)
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### Saline County

Sweet Spgs	12	2110CST			0	0			Hail (0.75)
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### Bates County

Butler	12	2116CST			0	0			Hail (1.75)
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### Bates County

Adrian	12	2117CST			0	0			Hail (1.75)
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### Bates County

Butler	12	2125CST			0	0			Hail (0.88)
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### Pettis County

5 S Longwood	12	2127CST			0	0			Hail (1.00)
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### Bates County

Adrian	12	2130CST			0	0			Hail (1.75)
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### Saline County

2 SE Miami	12	2130CST			0	0			Hail (1.25)
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### Randolph County

Moberly	12	2145CST			0	0			Hail (0.88)
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### Henry County

Montrose	12	2151CST			0	0			Hail (0.75)
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### Henry County

Montrose	12	2158CST			0	0			Hail (0.75)
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### Chariton County

Salisbury	24	1818CST			0	0			Hail (0.75)
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## MISSOURI, Southeast

### Mississippi County

Charleston	13	0352CST			0	0			Hail (1.75)
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### Carter County

Fremont to Van Buren	25	1048CST 1100CST			0	0			Hail (0.88)
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### Wayne County

3 S Piedmont	25	1130CST			0	0			Hail (0.75)
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Dime size hail was reported on V Highway between Piedmont and Leeper.

## MISSOURI, Southwest

### MOZ055>058-

### 066>069-077>081

Benton - Morgan - Miller - Maries - Vernon - St. Clair - Hickory - Camden - Barton - Cedar - Polk - Dallas - Laclede

04	2300CST	0	0	Winter Storm
05	0130CST			

A late season ice storm brought significant freezing rain and ice accumulations to portions of southwest and central Missouri. One quarter of an inch to two inches of ice were observed along and 25 miles north and south of the highway 54 corridor. No major property

# Storm Data and Unusual Weather Phenomena

March 2003

										March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm	
					Killed	Injured	Property	Crops		
<b>MISSOURI, Southwest</b>										
damages were reported.										
<b>Vernon County</b>										
Bronaugh	12	2140CST			0	0			Hail (1.00)	
<b>Barton County</b>										
5 NW Lamar	12	2145CST			0	0			Hail (0.75)	
<b>Vernon County</b>										
2 S Bronaugh	12	2157CST			0	0			Hail (1.00)	
<b>Barton County</b>										
2 W Nashville	12	2205CST			0	0			Hail (0.75)	
<b>Barton County</b>										
1 S Nashville	12	2220CST			0	0			Hail (0.88)	
<b>Jasper County</b>										
Carl Jct	12	2220CST			0	0			Hail (1.00)	
<b>Jasper County</b>										
Webb City	12	2225CST			0	0			Hail (0.88)	
<b>Benton County</b>										
Cole Camp	12	2230CST			0	0	30K		Thunderstorm Wind (G80)	
Straight line winds tore a tin roof off of a farm shop and downed a tree in Cole Camp.										
<b>Dade County</b>										
Lockwood	12	2242CST			0	0			Hail (0.75)	
<b>Jasper County</b>										
Joplin	12	2254CST			0	0			Hail (0.75)	
<b>Lawrence County</b>										
3 N Stotts City	12	2300CST			0	0			Hail (0.75)	
<b>Camden County</b>										
Osage Beach	12	2320CST			0	0			Hail (0.88)	
<b>Miller County</b>										
Iberia	12	2320CST			0	0			Hail (0.75)	
<b>Newton County</b>										
5 SW Neosho	12	2320CST			0	0			Hail (1.00)	
<b>Greene County</b>										
3 SW Springfield	12	2345CST			0	0			Hail (1.75)	
<b>Maries County</b>										
Brinktown	12	2345CST			0	0			Hail (1.00)	
<b>Greene County</b>										
1 N Springfield	12	2350CST			0	0			Thunderstorm Wind (G65)	
<b>Pulaski County</b>										
Dixon	12	2350CST			0	0			Hail (0.88)	
<b>Newton County</b>										
Seneca	12	2355CST			0	0			Hail (1.75)	
<b>Pulaski County</b>										
Dixon	12	2358CST			0	0			Hail (0.75)	
<b>Dallas County</b>										
8 SE Buffalo	13	0000CST			0	0	50K		Thunderstorm Wind (G80)	
National Weather Service survey results concluded that a microburst was responsible for destroying a barn in rural Dallas county. Other isolated areas of tree damage were noted within the county.										
<b>Newton County</b>										
Neosho	13	0000CST 0100CST			0	0			Flash Flood	
<b>Christian County</b>										
Chadwick	13	0005CST			0	0			Thunderstorm Wind (G65)	
<b>Dallas County</b>										
1 SE Charity	13	0010CST			0	0			Thunderstorm Wind (G65)	
<b>Taney County</b>										
1 NW Forsyth	13	0015CST			0	0			Hail (0.88)	



# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<b><u>MISSOURI, Southwest</u></b>									
<b>Barry County</b>									
5 N Shell Knob	13	0023CST			0	0			Hail (1.00)
<b>Stone County</b>									
3 W Cape Fair	13	0023CST			0	0			Hail (1.00)
<b>Newton County</b>									
Seneca	13	0030CST			0	0			Hail (0.88)
<b>Phelps County</b>									
3 S Rolla	13	0045CST			0	0			Hail (0.75)
<b>Stone County</b>									
Lampe	13	0045CST			0	0			Hail (1.00)
<b>Barry County</b>									
Cassville	13	0110CST			0	0			Hail (0.75)
<b>Dallas County</b>									
2 E Buffalo	19	0535CST			0	0	50K		Thunderstorm Wind (G75)
Straight line winds destroyed a barn that sheltered a vehicle. The vehicle sustained major damage from the collapsed barn.									
<b>Dallas County</b>									
Charity	19	1413CST			0	0			Hail (0.75)
<b>Dallas County</b>									
Long Lane	19	1423CST			0	0			Hail (0.75)
<b>Howell County</b>									
3 N White Church	19	1805CST			0	0			Hail (0.75)
<b>Greene County</b>									
2 E Fair Grove	25	0600CST			0	0			Hail (0.75)
<b>Webster County</b>									
9 S Northview	25	0605CST			0	0			Hail (1.00)
<b>Miller County</b>									
3 N Iberia	25	0615CST			0	0			Hail (0.88)
<b>Maries County</b>									
3 W Brinktown	25	0620CST			0	0			Hail (0.75)
<b>Christian County</b>									
7 E Oldfield	25	0630CST			0	0			Hail (0.88)
<b>Douglas County</b>									
6 SW Dogwood	25	0630CST			0	0			Hail (0.88)
<b>Wright County</b>									
4 S Grovespring	25	0700CST			0	0			Hail (0.75)
<b>Texas County</b>									
Cabool	25	0807CST			0	0			Hail (0.75)
<b>Douglas County</b>									
4 N Vanzant	25	0815CST			0	0			Hail (0.88)
<b>Texas County</b>									
8 E Cabool	25	0825CST			0	0			Hail (0.88)
<b>Shannon County</b>									
Alley Spg	25	0930CST			0	0			Hail (0.75)

## MONTANA, Central

MTZ009-012>014-050>052-054	North Rocky Mountain Front - Cascade - Chouteau - Southern Lewis And Clark - Judith Basin - Fergus - Jefferson - Meagher								
03	0800MST				0	0			Winter Storm
	1600MST								

Areas of heavy snow fell in the mountain areas across much of Central and Southwest Montana on the 3rd. The heaviest snow occurred over locations above 5000 feet. Blowing and drifting of the snow was widespread, as winds were sustained near 30 mph, with gusts to 40 mph.

Here is a list of some of the snowfalls reported:

10 inches at Neihart 10S, Shonkin 7S, and White Sulphur Springs 40N; 9 inches at Lewistown 22S, and Clancy 10SE; and 3 to 5 inches throughout the Rocky Mountain Front.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, Central

**MTZ009-048**

### **North Rocky Mountain Front - Southern Rocky Mountain Front**

**05 1600MST**

**0**

**0**

**Blizzard**

**06 0800MST**

A blizzard occurred over the entire Rocky Mountain Front on March 5th. Sustained winds near 35 mph, along with heavy snow fell from East Glacier south to Lincoln. Significant blowing and drifting of the snow occurred. One to two feet of snowfall was common over the Rocky Mountain Front in a 24 hour period ending by the early morning hours on the 6th.

Here is a list of some of the snowfalls reported:

24 inches at Babb 10W and East Glacier Park 10SW; 18 inches at Lincoln 6N; 14 inches at Lincoln; 13 inches at Bynum 24W; and 12 inches at Pendroy 20W and St. Mary.

**MTZ009-048**

### **North Rocky Mountain Front - Southern Rocky Mountain Front**

**06 0800MST**

**0**

**0**

**15K**

**Winter Storm**

**10 0400MST**

Heavy snow fell over the entire Rocky Mountain Front from March 6th to March 10th. Snowfall amounts generally ranged from 6 to 10 inches per day. However, in a 24 hour period starting at 0400 MST on the 7th, some areas did receive over 2 feet of snow. By the end of the storm, many locations above 5000 feet had received between 3 and 5 feet of snow.

The amount of the snowfall over this 5 day period caused a car port to collapse, crushing a vehicle underneath it.

Here is a list of some of the snowfalls reported for the total storm:

56 inches at East Glacier; 48 inches at Landers Park; 37 inches at Lincoln 6N (SNOTEL); 36 inches at Lincoln; 32 inches at Many Glacier; 26 inches at Pike Creek; and 21 inches at Badger Pass.

**MTZ014-052-054**

### **Southern Lewis And Clark - Jefferson - Meagher**

**07 1000MST**

**0**

**0**

**Winter Storm**

**08 0600MST**

Very heavy snow fell in the Helena Valley, and the nearby mountains on the 7th. Snowfall rates were 2 to 3 inches per hour for 12 hours. The heaviest snow fell in the mountains just west of Helena.

In the city of Helena, snow amounts ranged from 18 inches on the East side, to 30 inches on the West side. Many roads were closed Friday afternoon and evening.

Here is a list of some of the snowfall reported:

32 inches at Marysville 8W; 30 inches at Helena 1W; 18 inches at Helena 3E; 11 inches at Clancy 3NW; and 7 inches at White Sulphur Springs 32NW.

**MTZ009-044-048**

### **North Rocky Mountain Front - Toole - Southern Rocky Mountain Front**

**10 0810MST**

**0**

**0**

**High Wind (G53)**

**1800MST**

A high wind event occurred over the Rocky Mountain Front and in Toole County on the 10th. The strongest wind gusts were reported in the mountains, while sustained winds over 40 mph were common over the adjacent Plains.

Here is a list of some of the peak wind speeds reported:

East Glacier 2E 61 mph at 1615 MST; Sweetgrass 44 mph sustained wind at 1200 MST; and Pendroy sustained wind 41 mph at 0800 MST.

**MTZ009-014-048**

### **North Rocky Mountain Front - Southern Lewis And Clark - Southern Rocky Mountain Front**

**11 2200MST**

**0**

**0**

**Winter Storm**

**12 0400MST**

A winter storm moved through the Rocky Mountain Front region in the late afternoon hours on the 11th, and exited the region during the early morning hours on the 12th. The heaviest snow fell in the mountains above 5000 feet. Significant blowing and drifting of the snow occurred, especially in the mountain areas of Lewis and Clark County

Here is a list of some of the snowfalls reported for the total storm:

13 inches at Heart Butte 14SW (SNOTEL); and 7 inches at Bynum 24W (SNOTEL).

**MTZ047**

### **Blaine**

**11 2204MST**

**0**

**0**

**High Wind (G52)**

A wind gust of 60 mph occurred at Chinook 11S.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, Central

**MTZ011-014-047-055**

**Hill - Southern Lewis And Clark - Blaine - Gallatin**

12	1200MST				0	0	750K		Flood
13	1800MST								

With a major snowstorm falling in the mountains in the Helena Valley on March 6th through the 10th, and temperatures quickly rising to near 70 degrees by the 12th, a rapid snow melt occurred in the mountains. This snow melt quickly filled all small streams and creeks. As the snow continued to melt during the afternoon hours, the creeks began to overflow, as some culverts were blocked with ice and debris. The result was some nearby homes and roads next to the creeks were either damaged or washed out. Water was up to a foot deep in some locations. Damage reports in the Helena Valley included about 20 homes with flood damage, and a few secondary roads washed out. The damage cost was estimated at \$250,000. In the Bozeman area, a few gravel roads were washed out, along with a small bridge. Damage costs were estimated at \$500,000.

Further north, flooding did occur on small creeks flowing out of the Bears Paw Mountains south of Havre. No damage was reported, but a few rural roads were under 6 inches of water during the afternoon hours on the 12th and 13th.

**MTZ009-046**

**North Rocky Mountain Front - Eastern Pondera**

12	1920MST				0	0			High Wind (G67)
13	1500MST								

High winds affected the Northern Rocky Mountain Front and portions of the adjacent plains on the 12th and 13th.

Here is a list of some of the peak wind speeds reported:

East Glacier 2E 77 mph at 1050 MST; East Glacier 2E 72 mph at 1920 MST; Choteau 12N 53 mph sustained wind at 0400 MST.

**MTZ047**

**Blaine**

15	2045MST				0	0			High Wind (G56)
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A wind gust of 65 mph occurred at Chinook 11S.

**MTZ009>010-044-046-048>049**

**North Rocky Mountain Front - Eastern Glacier - Toole - Eastern Pondera - Southern Rocky Mountain Front - Eastern Teton**

23	0001MST				0	0			High Wind (G53)
	1530MST								

A high wind event occurred over the Rocky Mountain Front and the Northern adjacent Plains on the 23rd. The strongest wind gusts occurred in the Mountain regions, while the adjacent Plains had sustained winds over 40 mph through much of the morning hours.

Here is a list of some of the peak wind speeds reported:

Choteau 25NW 61 mph at 0001 MST; Sustained winds of 40 to 45 mph from 0800 MST to 1300 MST at Cut Bank, Sunburst, Dupuyer, and Agawam.

**MTZ047**

**Blaine**

24	1446MST				0	0			High Wind (G59)
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A wind gust of 68 mph occurred at Chinook 11S.

**MTZ015-053>055**

**Madison - Broadwater - Meagher - Gallatin**

26	1800MST				0	0			Winter Storm
27	1400MST								

Areas of heavy snow began to fall over the mountains of Southwest Montana during the afternoon hours on the 26th, and ended by early afternoon on the 27th. The heaviest snow fell in the mountains above 6000 feet. Total snow amounts ranged from 6 to 12 inches, but an isolated area in Gallatin county did receive up to 17 inches.

Here is a list of some of the snowfalls for the total storm recorded by SNOTEL data:

7 inches at Alder 20S; 6 inches at Boulder 3N; 6 inches at White Sulphur Springs 15SE; and 17 inches at Bozeman 15S.

**MTZ009>010-048**

**North Rocky Mountain Front - Eastern Glacier - Southern Rocky Mountain Front**

30	2200MST				0	0			High Wind (G60)
31	0400MST								

A high wind event occurred over the entire Rocky Mountain Front and Eastern Glacier County on the 30th and 31st. The winds were the strongest during the late evening hours on the 30th, through the early morning hours on the 31st. A few power lines were blown down during the early morning hours on the 31st West of Pendroy.

Here is a list of some of the peak wind speeds reported on the 30th:

East Glacier 2E 65 mph at 2212 MST; and Browning 62 mph at 2200 MST;

Here is a list of some of the peak wind speeds reported on the 31st:

Pendroy 18W 60 mph at 0200 MST; and Cut Bank 59 mph at 0331 MST.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **MONTANA, East**

**MTZ026>027**

### **Prairie - Wibaux**

<b>07</b>	<b>0400MST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
<b>08</b>	<b>0200MST</b>								

Heavy snow fell across Prairie and Wibaux Counties. Up to 10 inches of snow fell across portions of Wibaux County. 7-8 inches of snow was reported 8 miles south of Terry.

**MTZ025>027**

### **Dawson - Prairie - Wibaux**

<b>13</b>	<b>1600MST</b>				<b>0</b>	<b>0</b>			<b>Flood</b>
<b>14</b>	<b>1500MST</b>								

Flooding was reported in low lying areas along the Cedar Creek in Wibaux, Dawson and Prairie counties due to rapid snowmelt on March 13th. The bridge on Marsh Road 15 miles south of Glendive was almost washed out at 7:00 am on March 14th. The water flooded Montana Highway 335 at the Cedar Creek bridge on the morning of the 14th. The flood quickly receded that afternoon.

## **Garfield County**

**Mosby**

<b>15</b>	<b>0603MST</b>				<b>0</b>	<b>0</b>			<b>Flash Flood</b>
	<b>1200MST</b>								

## **Petroleum County**

**20 E Winnett**

<b>15</b>	<b>0603MST</b>				<b>0</b>	<b>0</b>			<b>Flash Flood</b>
	<b>1200MST</b>								

The Musselshell River rapidly rose above flood stage due to snowmelt on March 15. The flood covered low lying areas near the river, but caused no damage.

**MTZ024>026**

### **Richland - Dawson - Prairie**

<b>16</b>	<b>0900MST</b>				<b>0</b>	<b>0</b>	<b>75K</b>		<b>Flood</b>
<b>18</b>	<b>1500MST</b>								



*Photo of ice jam damage near Glendive, MT on March 18, 2003.*

Ice jams on the Yellowstone River between March 16th-18th caused flooding of low lying areas. The flooding caused some minor damage in Prairie and Dawson Counties. In addition to the ice jams, heavy rain partially contributed to the flooding of several fields and roads, and later washed out a gravel road in Richland County. On the 17th, 2.00 inches of rain fell at Crane, 1.79 inches of rain fell at Sidney and 1.71 inches of rain fell at Savage. The Yellowstone River at Glendive crested at 60.5 feet at 10 pm on March 16th. The flood stage at Glendive is 53.5 feet. The water receded after the ice jam broke on the afternoon of March 18.

**MTZ019**

### **Sheridan**

<b>17</b>	<b>1345MST</b>				<b>0</b>	<b>0</b>			<b>Flood</b>
<b>20</b>	<b>1500MST</b>								

The Big Muddy Creek near Antelope crested at 16.8 feet during the afternoon of the March 18th which was 5 feet above flood stage. The flooding was due to rapid snowmelt.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property    Crops	Character of Storm
<hr/>									
<b><u>MONTANA, East</u></b>									
<b>Roosevelt County</b>									
<b>Bainville</b>	<b>17</b>	<b>1700MST</b>			<b>0</b>	<b>0</b>	<b>115K</b>		<b>Flash Flood</b>
	<b>18</b>	<b>0520MST</b>							
Flooding was reported by Roosevelt County DES along Highway 2 near Bainville at 5:15 pm, threatening numerous businesses and homes. The flooding was due to a combination of rapid snowmelt and heavy rainfall when 1.61 inches of rain fell in Culbertson. Highway 2 was closed due to flooding from Bainville to the North Dakota state line from 8:00 pm on the 17th until 5:00 am on the 18th.									
<b>MTZ018-022-026&gt;027 Daniels - Garfield - Prairie - Wibaux</b>									
	<b>17</b>	<b>1900MST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>18</b>	<b>1300MST</b>							
Heavy snow fell over the Big Sheep Mountains with accumulations ranging from 6-8 inches. There was a report of 3/4 of an inch of ice 12 miles northwest of Carlyle.									
<b><u>MONTANA, South</u></b>									
<b>MTZ056 Western Carbon</b>									
	<b>01</b>	<b>1600MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow at the Red Lodge Ski Area								
<b>MTZ056 Western Carbon</b>									
	<b>03</b>	<b>1939MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow on Red Lodge Mountain								
<b>MTZ056 Western Carbon</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow in Red Lodge								
<b>MTZ040 Park</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow 10 miles south of Big Timber								
<b>MTZ040 Park</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow 8 miles southwest of Corwin Springs								
<b>MTZ056 Western Carbon</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow in Roscoe								
<b>MTZ032 Custer</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	6 inches of snow in Miles City								
<b>MTZ056 Western Carbon</b>									
	<b>06</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	6 inches of snow in Belfry								
<b>MTZ034 Stillwater</b>									
	<b>06</b>	<b>1550MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	7 inches of snow at Mystic Lake								
<b>MTZ056 Western Carbon</b>									
	<b>06</b>	<b>1715MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	14 inches of snow at the Red Lodge Ski Area								
<b>MTZ040 Park</b>									
	<b>06</b>	<b>1740MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	11 inches of snow in Cooke City								
<b>MTZ029 Musselshell</b>									
	<b>07</b>	<b>1450MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow with 3 foot drifts 4 miles north of Delphia								
<b>MTZ029 Musselshell</b>									
	<b>07</b>	<b>1450MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	7 inches of snow with 2 foot drifts 12 miles north of Roundup								
<b>MTZ029 Musselshell</b>									
	<b>07</b>	<b>1450MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	6 inches of snow with 4 foot drifts 10 miles north of Roundup								

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, South

MTZ031			<b>Northern Rosebud</b>						
	07	1450MST			0	0			Heavy Snow
			6 inches of snow with 4 foot drifts in Ingomar						
MTZ033			<b>Fallon</b>						
	07	1450MST			0	0			Heavy Snow
			6 inches of snow in Plevna						
MTZ032			<b>Custer</b>						
	07	1450MST			0	0			Heavy Snow
			6 inches of snow in Kinsey						
MTZ030			<b>Treasure</b>						
	07	1900MST			0	0			Heavy Snow
			6 inches of snow 13 miles east of Hysham						
MTZ032			<b>Custer</b>						
	07	1900MST			0	0			Heavy Snow
			7 inches of snow with 3 foot drifts in Ismay						
MTZ028			<b>Wheatland</b>						
	07	1930MST			0	0			Heavy Snow
			13 inches of snow 10 miles south of Judith Gap						
MTZ032			<b>Custer</b>						
	07	1945MST			0	0			Heavy Snow
			8 inches of snow 4 miles east of Miles City						
MTZ028			<b>Wheatland</b>						
	07	2000MST			0	0			Heavy Snow
			13 inches of snow 13 miles east of Judith Gap						
MTZ032			<b>Custer</b>						
	07	2000MST			0	0			Heavy Snow
			12 inches of snow in Miles City						
MTZ029			<b>Musselshell</b>						
	07	2000MST			0	0			Heavy Snow
			8 inches of snow 10 miles south of Roundup						
MTZ031			<b>Northern Rosebud</b>						
	07	2000MST			0	0			Heavy Snow
			8 inches of snow with 4 foot drifts 4 miles east of Sumatra						
MTZ032			<b>Custer</b>						
	07	2000MST			0	0			Heavy Snow
			7 inches of snow with 3 foot drifts 5 miles west of Ismay						
MTZ031			<b>Northern Rosebud</b>						
	07	2000MST			0	0			Heavy Snow
			6 inches of snow in Forsyth						
MTZ035			<b>Yellowstone</b>						
	07	2000MST			0	0			Heavy Snow
			6 inches of snow 17 miles west of Hysham						
MTZ035			<b>Yellowstone</b>						
	07	2000MST			0	0			Heavy Snow
			8 inches of snow 17 miles north of Pompeys Pillar						
MTZ032			<b>Custer</b>						
	07	2014MST			0	0			Heavy Snow
			12 inches of snow 11 miles south-southeast of Miles City						
MTZ029			<b>Musselshell</b>						
	07	2014MST			0	0			Heavy Snow
			8 inches of snow 5 miles west of Roundup						
MTZ031			<b>Northern Rosebud</b>						
	07	2015MST			0	0			Heavy Snow
			8 inches of snow with 4 foot drifts in Sumatra						

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, South

MTZ031			<b>Northern Rosebud</b>						
	07	2018MST	6 inches of snow 17 miles west of Forsyth		0	0			Heavy Snow
MTZ031			<b>Northern Rosebud</b>						
	08	1651MST	14 inches of snow 12 miles west of Sumatra		0	0			Heavy Snow
MTZ029			<b>Musselshell</b>						
	08	1651MST	12 inches of snow 6 miles northeast of Musselshell		0	0			Heavy Snow
MTZ035			<b>Yellowstone</b>						
	08	1651MST	11 inches of snow at the Billings National Weather Service Forecast Office		0	0			Heavy Snow
MTZ029			<b>Musselshell</b>						
	08	1651MST	10 inches of snow in Delphia		0	0			Heavy Snow
MTZ032			<b>Custer</b>						
	08	1651MST	9 inches of snow in Custer		0	0			Heavy Snow
MTZ057			<b>Northern Big Horn</b>						
	08	1651MST	8 inches of snow in Crow Agency		0	0			Heavy Snow
MTZ035			<b>Yellowstone</b>						
	08	1651MST	8 inches of snow at the Billings Water Treatment Plant		0	0			Heavy Snow
MTZ030			<b>Treasure</b>						
	08	1651MST	6 inches of snow 5 miles south of Bighorn		0	0			Heavy Snow
MTZ040			<b>Park</b>						
	09	0000MST			0	0			Avalanche
	A snowmobiler was tragically killed in an avalanche on the flanks of Mount Abundance in the mountains north of Cooke City. The slide path was small, only 200 feet wide by 250 feet vertical, yet it broke 2-3 feet deep on the ice crust and facets. A rider got stuck and then two friends rode up to help him, which triggered the slide. It was triggered on a slope 30-33 degrees, but the terrain steepened above them with an average angle of 37 degrees before finally reaching into the low 40s near the windloaded ridgetop. Two people were buried, but one was able to clear snow from his face. A beacon search found the victim within 15 minutes, and even though his head was only two feet from the surface, his friends were unable to revive him.								
MTZ056			<b>Western Carbon</b>						
	09	2300MST	23 inches of snow in Red Lodge		0	0			Heavy Snow
MTZ032			<b>Custer</b>						
	09	2300MST	12 inches of snow in Mizpah		0	0			Heavy Snow
MTZ030			<b>Treasure</b>						
	09	2300MST	11 inches of snow 5 miles south of Bighorn		0	0			Heavy Snow
MTZ033			<b>Fallon</b>						
	09	2300MST	6 inches of snow in Mackenzie		0	0			Heavy Snow
MTZ032			<b>Custer</b>						
	09	2300MST	24 inches of snow 21 miles southwest of Miles City		0	0			Heavy Snow
MTZ035			<b>Yellowstone</b>						
	09	2300MST	20 inches of snow in Custer		0	0			Heavy Snow
MTZ030			<b>Treasure</b>						
	09	2300MST	18 inches of snow 25 miles south southeast of Hysham		0	0			Heavy Snow

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, South

MTZ029			<b>Musselshell</b>						
	09	2300MST			0	0			Heavy Snow
			16 inches of snow 10 miles south of Roundup						
MTZ035			<b>Yellowstone</b>						
	09	2300MST			0	0			Heavy Snow
			16 inches of snow at the National Weather Service Forecast Office in Billings						
MTZ029			<b>Musselshell</b>						
	09	2300MST			0	0			Heavy Snow
			14 inches of snow 12 miles west of Sumatra						
MTZ032			<b>Custer</b>						
	09	2300MST			0	0			Heavy Snow
			14 inches of snow 46 miles southeast of Miles City						
MTZ030			<b>Treasure</b>						
	09	2300MST			0	0			Heavy Snow
			13 inches of snow in Hysham						
MTZ034			<b>Stillwater</b>						
	09	2300MST			0	0			Heavy Snow
			13 inches of snow at Mystic Lake						
MTZ057			<b>Northern Big Horn</b>						
	09	2300MST			0	0			Heavy Snow
			12 inches of snow in Busby						
MTZ035			<b>Yellowstone</b>						
	09	2300MST			0	0			Heavy Snow
			12 inches of snow at the Billings Airport						
MTZ035			<b>Yellowstone</b>						
	09	2300MST			0	0			Heavy Snow
			11 inches of snow at the Billings Water Treatment Plant						
MTZ034			<b>Stillwater</b>						
	09	2300MST			0	0			Heavy Snow
			10 inches of snow in Columbus						
MTZ040			<b>Park</b>						
	09	2300MST			0	0			Heavy Snow
			10 inches of snow in Wilsall						
MTZ033			<b>Fallon</b>						
	09	2300MST			0	0			Heavy Snow
			10 inches of snow in Plevna						
MTZ036			<b>Powder River</b>						
	09	2300MST			0	0			Heavy Snow
			9 inches of snow 8 miles northeast of Powderville						
MTZ057			<b>Northern Big Horn</b>						
	09	2300MST			0	0			Heavy Snow
			8 inches of snow in Hardin						
MTZ038			<b>Southern Big Horn</b>						
	09	2300MST			0	0			Heavy Snow
			8 inches of snow in Wyola						
MTZ032			<b>Custer</b>						
	09	2300MST			0	0			Heavy Snow
			8 inches of snow 40 miles northwest of Broadus						
MTZ032			<b>Custer</b>						
	09	2300MST			0	0			Heavy Snow
			8 inches of snow 7 miles south of Mizpah						
MTZ036			<b>Powder River</b>						
	09	2300MST			0	0			Heavy Snow
			6 inches of snow in Broadus						



# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, South

MTZ058			<b>Southern Rosebud</b>						
	18	1330MST			0	0			Heavy Snow
			8 inches of snow in Lane Deer						
MTZ032			<b>Custer</b>						
	18	1330MST			0	0			Heavy Snow
			6 inches of snow in Volborg						
MTZ036			<b>Powder River</b>						
	18	1330MST			0	0			Heavy Snow
			7 inches of snow in Otter						
MTZ036			<b>Powder River</b>						
	18	1330MST			0	0			Heavy Snow
			12 inches of snow 14 miles north of Sonnette						
MTZ036			<b>Powder River</b>						
	18	1330MST			0	0			Heavy Snow
			7 inches of snow 14 miles northwest of Olive						
MTZ036			<b>Powder River</b>						
	18	1330MST			0	0			Heavy Snow
			6 inches of snow 18 miles west of Broadus						
MTZ032			<b>Custer</b>						
	18	1330MST			0	0			Heavy Snow
			6 inches of snow 21 miles southwest of Miles City						
MTZ034			<b>Stillwater</b>						
	18	1600MST			0	0			Heavy Snow
			10 inches of snow at Mystic Lake						
MTZ056			<b>Western Carbon</b>						
	18	1700MST			0	0			Heavy Snow
			14 inches of snow at Red Lodge Mountain						
MTZ037			<b>Carter</b>						
	18	1700MST			0	0			Heavy Snow
			8 inches of snow in Boyes						
MTZ038			<b>Southern Big Horn</b>						
	18	1700MST			0	0			Heavy Snow
			10 inches of snow 23 miles northeast of Decker						
MTZ036			<b>Powder River</b>						
	18	1700MST			0	0			Heavy Snow
			6 inches of snow 9 miles northeast of Moorhead						
MTZ031			<b>Northern Rosebud</b>						
	19	0000MST			0	0			Heavy Snow
			8 inches of snow in Colstrip						
MTZ036			<b>Powder River</b>						
	19	1001MST			0	0			Heavy Snow
			6 inches of snow 8 miles north northeast of Powderville						
MTZ032			<b>Custer</b>						
	19	1019MST			0	0			Heavy Snow
			7 inches of snow 10 miles south of Volborg						
MTZ040			<b>Park</b>						
	27	1700MST			0	0			Heavy Snow
			12 inches of snow 12 miles south of Livingston						
MTZ056			<b>Western Carbon</b>						
	27	2105MST			0	0			Heavy Snow
			24 inches of snow at Red Lodge Mountain						
MTZ034			<b>Stillwater</b>						
	27	2105MST			0	0			Heavy Snow
			20 inches of snow at Mystic Lake						

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b><u>MONTANA, South</u></b>									
<b>MTZ040</b>	<b>Park</b>								
	27	2105MST			0	0		Heavy Snow	
	19 inches of snow 2 miles west of Cooke City								
<b>MTZ040</b>	<b>Park</b>								
	27	2105MST			0	0		Heavy Snow	
	17 inches of snow 12 miles south of Livingston								
<b>MTZ041</b>	<b>Sweet Grass</b>								
	27	2105MST			0	0		Heavy Snow	
	15 inches of snow in Mcleod								
<b>MTZ034</b>	<b>Stillwater</b>								
	27	2105MST			0	0		Heavy Snow	
	13 inches of snow in Nye								
<b>MTZ056</b>	<b>Western Carbon</b>								
	27	2105MST			0	0		Heavy Snow	
	9 inches of snow in Red Lodge								
<b>MTZ040</b>	<b>Park</b>								
	27	2105MST			0	0		Heavy Snow	
	8 inches of snow in Livingston								
<b>MTZ040</b>	<b>Park</b>								
	27	2105MST			0	0		Heavy Snow	
	8 inches of snow in Clyde Park								
<b>MTZ040</b>	<b>Park</b>								
	27	2105MST			0	0		Heavy Snow	
	8 inches of snow in Wilsall								
<b><u>MONTANA, West</u></b>									
<b>MTZ002</b>	<b>West Glacier Region</b>								
	02	0000MST			0	0		Heavy Snow	
	03	0700MST							
	Heavy snow fell overnight in the West Glacier Region with DOT reports of 6-11 inches along Highway 2 between Coram and Marias Pass.								
<b>MTZ001&gt;002-004&gt;006</b>	<b>Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region - Missoula / Bitterroot Valleys - Bitterroot / Sapphire Mountains</b>								
	05	0700MST			0	0		Winter Storm	
	08	1700MST							
	A long duration winter storm impacted a large portion of western Montana from March 5 through March 8. Pacific storm systems marched inland during the week as an Arctic cold front waffled back and forth along the Continental Divide, resulting in moist air overrunning cold air, and bouts of gusty winds that created poor visibilities and blowing or drifting snow. The Department of Transportation declared emergency travel for different highways due to poor driving conditions during each day of the event. Storm totals during the 4 days ranged from many inches in valley locations to several feet in the mountains; 10-15 inches in the Kootenai Region, 1-3 feet West Glacier Region with the exception of 52 inches, or more than 4 feet, at Marias Pass, 1-2 feet Lower Clark Fork Region, 2-4 feet at higher elevations of the Bitterroot and Pintlar Mountains and the Blackfoot Region, up to 16 inches in the Bitterroot Valley.								
<b>MTZ001-004-043</b>	<b>Kootenai/Cabinet Region - Lower Clark Fork Region - Blackfoot Region</b>								
	08	2200MST			0	0		Heavy Snow	
	09	1800MST							
	Additional snow fell across areas of western Montana as the last storm system of the week impacted the region. Snow amounts in the period were mainly from 6 to 11 inches, including Lookout Pass, Troy, Essex, near Clinton, Ovando, Potomac, and Seeley Lake.								
<b>MTZ002</b>	<b>West Glacier Region</b>								
	12	0655MST			0	0		Avalanche	
	13	0655MST							
	Heavy snow and cold temperatures from the week before, followed by temperatures in the 50s and gusty southwest winds lead to a large avalanche along Highway 2 between Essex and Marias Pass. The main slide occurred north of Silver Stair Falls snapping a highway guardrail and blocking both lanes of traffic. An automobile reportedly ran into the snow slide, but no injuries or property damage were reported. The Montana DOT closed the highway for two days due to the high potential for additional avalanches.								
<b>MTZ007</b>	<b>Butte / Pintlar Region</b>								
	13	1200MST			0	0		Flood	
		1700MST							

# Storm Data and Unusual Weather Phenomena

March 2003

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

## MONTANA, West

Deep snow pack from the previous weeks winter storms and a day of high temperatures in the 60s, lead to extensive snow melt and several small streams overflowing their banks in the Deer Lodge area. Two homes were damaged by flood waters getting into basements. City crews sandbagged to protect homes and two residents were evacuated during the flood event.

### **Sanders County**

<b>Paradise to Dixon</b>	<b>14</b>	<b>1537MST 1600MST</b>			<b>0</b>	<b>1</b>	<b>5K</b>		<b>Thunderstorm Wind (G53)</b>
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### **Lake County**

<b>Ronan to Polson</b>	<b>14</b>	<b>1538MST 1620MST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Thunderstorm Wind (G53)</b>
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### **Flathead County**

<b>2 E Bigfork</b>	<b>14</b>	<b>1635MST 1640MST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G53)</b>
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A line of thunderstorms with wind gusts exceeding 60 mph, moved through Sanders, Lake and Flathead Counties, leaving a wake of wind damage to power lines, trees, buildings and airplanes. As the storms moved through Sanders County, strong winds knocked down trees onto power lines and injured a man in Paradise. In the town of Dixon, strong winds blew roofs off homes that hit and damaged the Old Dixon Store. As the storms moved through Lake County, wind damage was reported from Ronan to the southern end of Flathead Lake. Strong winds at the Ronan Airport caused the ropes to break off a Cessna 150, which careened into a Cessna 172, damaging both airplanes. Trees were reported uprooted near Finley Point and Polson, leaving at least two houses damaged from fallen trees. Strong wind gusts tore off part of the face of the Old Mill Place along Main Street in Polson, damaging a vehicle. 10 miles west of Polson, a small barn was blown over in Irvine Flats. Before the storms weakened in Flathead County, a twelve inch diameter tree was blown over near Big Fork, damaging a home owners fence.

## NEBRASKA, Central

### **Arthur County**

<b>1 N Arthur</b>	<b>17</b>	<b>1430MST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
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Penny to nickel size hail.

### **Garden County**

<b>33 N Oshkosh</b>	<b>17</b>	<b>1520MST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
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### **Mcperson County**

<b>17 WNW Tryon</b>	<b>17</b>	<b>1735CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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## NEBRASKA, East

NONE REPORTED.

## NEBRASKA, Extreme Northeast

### **NEZ014**

<b>Dakota</b>									
<b>04</b>	<b>0100CST</b>				<b>0</b>	<b>0</b>			<b>Winter Weather/Mix</b>
	<b>1400CST</b>								

Snowfall of 3 to 6 inches caused slick travel conditions, indirectly resulting in several minor accidents. The snow had a very low moisture content..

## NEBRASKA, Extreme Southwest

NONE REPORTED.

## NEBRASKA, South Central

### **Phelps County**

<b>8 NW Loomis</b>	<b>17</b>	<b>1645CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
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### **NEZ084**

<b>Franklin</b>									
<b>28</b>	<b>0300CST</b>				<b>1</b>	<b>0</b>	<b>10K</b>	<b>0</b>	<b>Strong Wind</b>
	<b>1900CST</b>								

A strong crosswind was believed to have caused a 45 year old Naponee woman to lose control of her vehicle, which then rolled down an embankment and struck a utility pole west of Bloomington. The driver was thrown from the vehicle and died at the scene. F45VE

## NEBRASKA, West

NONE REPORTED.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>NEVADA, North</u></b>									
NVZ031		<b>N Elko Cnty</b>							
	26	1000PST			0	0			Heavy Snow
		1700PST							
12-18 inches of snow was reported at the Anglo Gold Mine about 45 miles north of Elko. 6 inches of snow was reported at the Jack Creek Bar.									
<b><u>NEVADA, South</u></b>									
NONE REPORTED.									
<b><u>NEVADA, West</u></b>									
NVZ003-003-003-003-003-003-003-003		<b>Greater Reno/Carson City/Minden Area</b>							
	13	1400PST			0	0			High Wind (G65)
	14	0215PST							
A strong cold front approaching from California brought strong and gusty southwest winds to far western Nevada from the afternoon of March 13th into the early morning hours of March 14. Gusts of 50 to 60 m.p.h. were common across the region. No damage was reported.									
NVZ004		<b>Western Nevada Basin And Range</b>							
	13	1400PST			0	0			Dust Storm
		1600PST							
Gusty southwest winds caused blowing dust in the Fernley area, reducing visibility to below 1/4 mile at times.									
NVZ004		<b>Western Nevada Basin And Range</b>							
	17	0600PST			0	0			Heavy Snow
		1000PST							
A spotter in Middlegate, NV reported 5 inches of snow in 4 hours.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	22	1650PST			0	0			High Wind (G60)
		2230PST							
Multiple gusts to 65 mph measured by automated weather station in Washoe Valley.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	22	1730PST			0	0			High Wind (G52)
Reported by spotter 6 miles southwest of Gardnerville.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	22	1823PST			0	0			High Wind (G57)
Reported by spotter 6 miles southwest of Gardnerville.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	22	2000PST			0	0			High Wind (G55)
		2130PST							
Multiple gusts in this range measured by automated weather station at Galena Park.									
NVZ001		<b>Mineral/Southern Lyon</b>							
	26	1045PST			0	0			High Wind (G52)
Reported by spotter in Hawthorne.									
NVZ004		<b>Western Nevada Basin And Range</b>							
	26	1130PST			0	0			Dust Storm
		1230PST							
Blowing dust due to gusty winds reduced visibilities below 1/4 mile at times on U.S. Highways 50 and 95 from Fernley south to Silver Springs. Reported by spotters and media.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	26	1400PST			0	0			High Wind (G50)
Reported by automated weather station in Carson City.									
NVZ002		<b>Greater Lake Tahoe Area</b>							
	26	1400PST			0	0			High Wind (G53)
Reported by automated weather station in Little Valley, between Washoe Valley and Lake Tahoe.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	26	1403PST			0	0			High Wind (G61)
Reported by automated weather station at Galena Park, about 10 miles southwest of Reno.									
NVZ003		<b>Greater Reno/Carson City/Minden Area</b>							
	26	1422PST			0	0			High Wind (G60)
Reported by automated weather station in Spanish Springs.									

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	

## NEVADA, West

<b>NVZ003</b>	<b>Greater Reno/Carson City/Minden Area</b>								
	<b>26</b>	<b>1545PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G56)</b>
	Reported by spotter 6 miles southwest of Gardnerville.								
<b>NVZ003</b>	<b>Greater Reno/Carson City/Minden Area</b>								
	<b>26</b>	<b>1600PST</b>			<b>0</b>	<b>1</b>	<b>25K</b>		<b>High Wind (G56)</b>
	Multiple wind gusts measured by automated weather station in Washoe Valley. The strong winds blew over an empty tractor-trailer rig in Washoe Valley. The driver suffered minor injuries.								

## NEW HAMPSHIRE, North and Central

<b>NHZ004</b>	<b>Northern Carroll</b>								
	<b>02</b>	<b>1000EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2200EST</b>							
<b>NHZ005&gt;006</b>	<b>Southern Grafton - Southern Carroll</b>								
	<b>02</b>	<b>1000EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather/Mix</b>
		<b>2200EST</b>							
	An area of low pressure moving northeastward along the coast brought a moderate to heavy snowfall to portions of central New Hampshire. Snowfall amounts ranged from 3 to 7 inches in Carroll and southern Grafton Counties with lesser amounts to the north and south.								
<b>NHZ002</b>	<b>Southern Coos</b>								
	<b>30</b>	<b>0845EST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>31</b>	<b>2359EST</b>							
	Mild weather and rainfall associated with a slow moving cold front combined to help melt the remaining snowpack and resulted in minor flooding from the morning of March 30th until the morning of April 1st. Rainfall amounts of 1 to 1.5 inches in the mountains produced minor flooding on the Connecticut River at Dalton. The River crested at 17.74 ft on March 31 at about 2:15 pm, 0.74 ft above the 17 ft flood stage.								

## NEW HAMPSHIRE, Southern

NONE REPORTED.

## NEW JERSEY, Northeast

<b>Union County</b>									
<b>New Providence to Union</b>	<b>21</b>	<b>1725EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
		<b>1730EST</b>							
	Trained spotters reported golf ball size hail in New Providence at 525 pm and penny size hail in Union at 530 pm.								
<b>Essex County</b>									
<b>Short Hills to West Caldwell</b>	<b>21</b>	<b>1731EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
		<b>1740EST</b>							
	Trained spotters reported quarter size hail at the Short Hills mall at 531 pm; penny size hail in Livingston at 531 pm; and nickle size hail in West Caldwell at 540 pm.								
<b>Passaic County</b>									
<b>West Paterson to Wayne</b>	<b>21</b>	<b>1746EST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
		<b>1750EST</b>							
	Trained spotters reported penny size hail in West Paterson at 546 pm; nickle size hail in Paterson at 547 pm and penny size hail in Wayne at 550 pm.								
<b>Essex County</b>									
<b>North Caldwell</b>	<b>21</b>	<b>1750EST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
	A trained spotter in North Caldwell reported penny size hail at 550 pm.								
<b>Essex County</b>									
<b>West Caldwell to West Orange</b>	<b>21</b>	<b>1830EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
	Trained spotters reported quarter size hail in West Caldwell and nickle size hail in West Orange. Both events occurred at 630 pm.								

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **NEW JERSEY, Northeast**

### **Passaic County**

West Paterson to Clifton	21	1845EST 1851EST			0	0			Hail (0.75)
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The West Paterson Office of Emergency Management reported penny size hail at 645 pm and a trained spotter reported penny size hail in Clifton at 651 pm.

## **NEW JERSEY, South and Northwest**

### **NJZ001**

#### **Sussex**

01	1700EST			0	0			Winter Weather/Mix
02	0900EST							

A weak low pressure system that developed in the Gulf of Mexico and a high pressure system over nearby New England and Canada combined to produce a wintry mix of precipitation across Sussex County. Precipitation started as a freezing rain, sleet and light snow mixture during the late afternoon of the 1st. It ended during the late evening of the 1st, but started again as a light mixture around dawn on the 2nd. Temperatures rose through the morning and precipitation changed to plain rain during the middle of the morning on the 2nd. Both the snowfall (less than one inch) and freezing rain (less than one-tenth of an inch) accumulations were light, but made for very hazardous driving conditions on untreated roads. The low pressure system responsible for the precipitation developed in the Gulf of Mexico on the 1st. Moisture pushed over its warm front arrived that afternoon. A high pressure system over nearby New England left enough cold air in place near the surface for precipitation to begin as a wintry mix. The low quickly moved off the North Carolina coast on the morning of the 2nd. The high pressure system by then was offshore and this permitted warmer air to move in near the surface from the southeast changing the wintry mix to plain rain.

### **NJZ010**

#### **Somerset**

02	1928EST			0	0			Flood
04	0450EST							

The combination of rain and melting snow caused flooding along parts of the Millstone River from the evening of the 2nd into the morning of the 4th. Rain fell from the morning into the early afternoon of the 2nd. Storm totals were less than one inch. Nevertheless the Millstone River at Griggstown was above its 10 foot flood stage (The flood stage was raised to 10 feet.) from 728 p.m. EST on the 2nd through 450 a.m. EST on the 4th. It crested at 11.2 feet at 100 p.m. EST on the 3rd. Storm totals included 0.87 inches in Flemington (Hunterdon County), 0.77 inches in Hamilton Square (Mercer County), 0.72 inches in Long Valley (Morris County) and 0.62 inches in Somerville (Somerset County). The low pressure system responsible for the rain went from Cape Hatteras, North Carolina the morning of the 2nd to the Canadian Maritimes on the morning of the 3rd.

### **NJZ001-007>009**

#### **Sussex - Warren - Morris - Hunterdon**

05	0700EST 1000EST			0	0			Winter Weather/Mix
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Rain with pockets of freezing rain in the valleys occurred during the morning on the 5th in Sussex, Warren, Morris and Hunterdon Counties. Precipitation began as light rain before dawn on the 5th. Evaporational cooling dropped temperatures at or below the freezing mark (32 degrees) during the morning commute. There was no high pressure system to lock in the cold air, so temperatures rose above the freezing mark by late in the morning in all areas. Ice accretions were light (less than two tenths of an inch), but untreated roadways were hazardous. Precipitation developed in advance of a cold front that was located in the Great Lakes during the morning of the 5th.

### **NJZ001**

#### **Sussex**

06	0700EST 2100EST			0	0			Winter Storm
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### **NJZ007>010-012>013-015>019**

#### **Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Mercer - Salem - Gloucester - Camden - Northwestern Burlington**

06	0700EST 1900EST			0	0			Winter Weather/Mix
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A low pressure system that formed on a slow moving cold front brought heavy snow to Sussex County and a wintry transition from rain to sleet, freezing rain and then snow across most of the rest of northern and southwestern New Jersey. Accumulations averaged around 6 inches in Sussex County, 2 to 4 inches across the rest of northwestern New Jersey and around an inch or less across central and southwest New Jersey. Precipitation started as snow across northern Sussex County during the morning commute. Across southern Sussex County precipitation started as a mixture of sleet and freezing rain between 5 a.m. and 6 a.m. EST and then changed to snow during the morning commute. The snow fell at its heaviest from mid-morning into early afternoon. The snow ended during the evening. Across the rest of northwest New Jersey, precipitation started as rain between 4 a.m. and 6 a.m. EST and then transitioned from rain to sleet to freezing rain and then snow during the morning commute from north to south. Snow continued through the afternoon and ended during the early evening. Across central New Jersey precipitation started as rain between 3 a.m. and 5 a.m. EST. and then transitioned into the same wintry mix during the morning commute and then to snow toward the end of the morning. Snow ended during the early evening. In southwestern New Jersey, precipitation started as rain between 2 a.m. and 4 a.m. EST. Sleet started to mix with the rain during the second half of the morning. Precipitation then changed to just sleet around Noon EST and then a mixture of light freezing rain, sleet and snow for the rest of the afternoon before it ended around 6 p.m. EST. Even though temperatures were below freezing, the indirect insolation from the sun kept most roadways near Philadelphia wet when the freezing rain fell. Ice accretions on exposed surfaces, mainly those with northern exposures, neared one-quarter of an inch.

The worst reported road conditions were in the northern half of the state. Interstate 80 was described as treacherous through Warren

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NEW JERSEY, South and Northwest

County. In Hunterdon County, numerous accidents were reported on U.S. Route 22 and Interstate 78. In Morris County, a jackknifed tractor-trailer on Eastbound Interstate 80 slowed the roadway for hours. Numerous minor accidents were reported on back roads throughout northwest New Jersey. Evening public meetings were canceled. Schools never opened in Sussex County.

Specific snow and sleet accumulations included 8.5 inches in High Point (Sussex County), 7.5 inches in Wantage (Sussex County), 7.0 inches in Hamburg (Sussex County), 6.0 inches in Vernon (Sussex County), 5.0 inches in Sussex (Sussex County), 4.5 inches in Butler and Milton (Morris County), 4.0 inches in Phillipsburg (Warren County), 3.2 inches in Morristown (Morris County), 3.0 inches in Chatham (Morris County), Hackettstown and Hope (Warren County), 2.3 inches in Lebanon Township (Hunterdon County), 1.8 inches in Somerville (Somerset County), 1.5 inches in Asbury Park (Monmouth County) and Flemington (Hunterdon County), 1.0 inch in East Brunswick (Middlesex County), 0.8 inches in Princeton and Washington's Crossing (Mercer County), 0.4 inches in New Brunswick (Middlesex County) and Mount Holly (Burlington County). A cold front moved slowly through New Jersey during the night of the 5th before stalling in the Delmarva Peninsula during the morning of the 6th. A weak low pressure system developed along the frontal boundary and was in West Virginia during the morning of the 6th. As the low pressure system moved southeast of the region during the afternoon and evening of the 6th, it pulled the cold front farther south and ended the precipitation. The other player was a high pressure system which built east from the upper Mississippi Valley the morning of the 5th into Ontario Province the morning of the 6th. This high pressure system supplied fresh cold air and helped change precipitation from liquid to frozen across the region.

**NJZ010**

### **Somerset**

**06 0700EST**  
**07 1227EST**

**0 0**

**Flood**

In spite of precipitation changing to sleet and snow in Somerset County, enough fell as rain to cause flooding along sections of the Millstone River. The ground was saturated from the previous rain on the 2nd and snow melt. The Millstone River at Griggstown was above its 10 foot flood stage from about 7 a.m. EST through 1227 p.m. EST on the 7th. It crested at 11.12 feet at 415 p.m. EST on the 6th. Storm totals included 0.93 inches in Somerville (Somerset County), 0.87 inches in Hightstown (Mercer County) and 0.57 inches in Long Valley (Morris County).

**NJZ001**

### **Sussex**

**13 1400EST**  
**1900EST**

**0 0**

**Winter Weather/Mix**

A couple of inches of snow accumulated across Sussex County as a fast moving low pressure system moved across the central part of the country. Precipitation began as rain around noon EST, but changed to snow during the middle of the afternoon. The snow fell briefly heavy just after that transition and ended during the early evening. Accumulations averaged around 2 inches and included 2.4 inches in Newton, 2.3 inches in Wantage, 2.1 inches in Newton and Hamburg and 1.7 inches in Barry Lakes. A cold front slowly sank south through New Jersey during the night of the 12th. Similar to last week, a low pressure system developed on the frontal boundary in the Ohio River Valley on the 13th and moved east passing off the southern Middle Atlantic Coast by that evening. At the same time, a high pressure system built into Ontario Province Canada. This provided fresh cold air and changed the rain to snow.

**NJZ001**

### **Sussex**

**20 0000EST**  
**1500EST**

**0 0**

**Winter Weather/Mix**

Light freezing rain fell in the northern valleys of Sussex County from around midnight into the afternoon of the 20th. Untreated roads were perilous. An intense low pressure system moved from Oklahoma the morning of the 19th, to Arkansas the morning of the 20th and into the Great Lakes on the 21st. While a high pressure system initially brought cold, dry air near the surface, it moved from New England on the 19th into the western Atlantic by the morning of the 20th. The Atlantic Ocean trajectory brought warmer air near the surface into Sussex County during the day on the 20th and rose temperatures above the freezing mark. Ice Accretions prior to the changeover were generally less than one-tenth of an inch.

**NJZ016>019**

### **Salem - Gloucester - Camden - Northwestern Burlington**

**20 2300EST**  
**21 0600EST**

**0 0**

**0 Astronomical High Tide**

The combination of southeast winds blowing up the Delaware Bay and runoff from heavy rain helped produce minor tidal flooding around the time of the overnight high tide (20th into the 21st) in the Delaware River and tidal sections of its tributaries. High tide at Reedy Island (New Castle County) reached 7.65 feet above mean lower low water. Minor tidal flooding begins at 7.2 feet above mean lower low water. The highest tide in Philadelphia reached 8.61 feet above mean lower low water. Minor tidal flooding begins at 8.2 feet above mean lower low water. The highest tide in Burlington reached 10.10 feet above mean lower low water. Minor tidal flooding begins at 9.0 feet above mean lower low water.

**NJZ010**

### **Somerset**

**21 0140EST**  
**22 0744EST**

**0 0**

**Flood**

A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico produced heavy rain during the second half of the day on the 20th across Somerset County. Soil conditions remained moist due the combination of above normal precipitation and snow melt earlier in the month. The combination produced river flooding along parts of the Millstone and Raritan Rivers on the 21st and 22nd. The North Branch of the Raritan River at South Branch was above its 6.9 foot flood stage from 140 a.m. EST through 733 a.m. EST on the 21st. It crested at 7.30 feet at 5 a.m. EST on the 21st. The Millstone River at Griggstown was above its 10 foot flood stage from 231 a.m. EST on the 21st through 744 a.m. EST on the 22nd. It crested at 10.95 feet at 230 p.m. EST on the 21st. Storm totals included 1.65 inches in Long Valley (Morris County), 1.58 inches in Flemington (Hunterdon County) and 1.32 inches in Somerville

## Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
<b>NEW JERSEY, South and Northwest</b>									
<b>NJZ008</b>	Somerville (Somerset County). The low pressure system moved from Oklahoma the morning of the 19th, to Missouri the morning of the 20th and into the Great Lakes the morning of the 21st. Its associated warm front moved from the Gulf Coast States the morning of the 20th into New Jersey and Pennsylvania the morning of the 21st. The heavy rain preceded this feature.								
	<b>Morris</b>								
	<b>21</b>	<b>1245EST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>22</b>	<b>0945EST</b>							
	A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico produced heavy rain during the second half of the day on the 20th across Morris County. Soil conditions remained moist due the combination of above normal precipitation and snow melt earlier in the month. The combination produced river flooding along the Rockaway River on the 21st and 22nd. The Rockaway River below the Boonton Reservoir was above its 5 foot flood stage from 1245 p.m. EST on the 21st through 945 a.m. EST on the 22nd. It crested at 5.25 feet at 8 p.m. EST on the 21st. Storm totals included 1.65 inches in Long Valley and 1.41 inches in Chatham. The low pressure system moved from Oklahoma the morning of the 19th, to Missouri the morning of the 20th and into the Great Lakes the morning of the 21st. Its associated warm front moved from the Gulf Coast States the morning of the 20th into New Jersey and Pennsylvania the morning of the 21st. The heavy rain preceded this feature.								
<b>Burlington County</b>									
<b>Delanco</b>	<b>21</b>	<b>1616EST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
	Also large hail fell in Mount Laurel at the Rancocas Woods exit of Interstate 295.								
<b>Mercer County</b>									
<b>Ewing Township to Lawrenceville</b>	<b>21</b>	<b>1636EST 1642EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
	Penny to quarter size hail fell in Mercer County from Ewing east to Lawrenceville.								
<b>Somerset County</b>									
<b>Skillman to Belle Mead</b>	<b>21</b>	<b>1651EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
	Quarter size hail fell in southern Somerset County in Skillman and Belle Mead.								
<b>Middlesex County</b>									
<b>Deans</b>	<b>21</b>	<b>1653EST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
<b>Somerset County</b>									
<b>South Bound Brook</b>	<b>21</b>	<b>1706EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
	Quarter size hail covered the ground in South Bound Brook Borough.								
<b>Middlesex County</b>									
<b>Middlesex to Dunellen</b>	<b>21</b>	<b>1710EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Hail (1.75)</b>
	Golf ball size hail fell in Middlesex Borough. One home had dented siding, holes in its shutters and window screens. Quarter size hail fell in nearby Dunellen Borough.								
<b>Somerset County</b>									
<b>Green Brook</b>	<b>21</b>	<b>1712EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Hail (1.75)</b>
	Quarter to golf ball size hail fell across Green Brook Township. The hail damaged vehicles at car dealerships in Somerset County.								
<b>Morris County</b>									
<b>Madison</b>	<b>21</b>	<b>1732EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
	In addition to the golf ball size hail in Madison, penny size hail fell in Chatham Township.								
<b>NJZ008</b>									
	<b>Morris</b>								
	<b>25</b>	<b>1153EST 1249EST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico produced heavy rain during the second half of the day on the 20th across Morris County. Soil conditions remained moist due the combination of above normal precipitation and snow melt earlier in the month. The combination eventually produced river flooding along the Pequannock River on the 25th. The Pequannock River at the Macopin Intake Dam was above its 5.5 foot flood stage from 1153 a.m. through 1249 p.m. EST on the 25th. It crested at 6.31 feet at 1215 p.m. EST on the 25th. Storm totals on the 20th and 21st included 1.65 inches in Long Valley and 1.41 inches in Chatham. The low pressure system moved from Oklahoma the morning of the 19th, to Missouri the morning of the 20th and into the Great Lakes the morning of the 21st. Its associated warm front moved from the Gulf Coast States the morning of the 20th into New Jersey and Pennsylvania the morning of the 21st. The heavy rain preceded this feature.								



# Storm Data and Unusual Weather Phenomena

March 2003

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

## NEW MEXICO, Central and North

**NMZ001>021-026** Northwest Plateau - Northwest Mountains Including Jemez - Upper Rio Grande Valley - Sangre De Cristo Mountains - Northeast Highlands - Harding - Far Northeast Plains - Westcentral Mountains - Middle Rio Grande Valley - Sandia/Manzano Mountains - Central High Plains/Estancia Valley County - Conchas Lake/Guadalupe - Quay - Southwest Mountains/Upper Gila Region - Lower Rio Grande Valley - Lincoln County High Plains/Hondo Valley - Capitan/Northern Sacramento Mountains - De Baca - Chaves County Plains - Roosevelt - Curry - Guadalupe Mountains Of Chaves County

**01 0000MST 2359MST 0 0 Drought**

Periodic snows continued throughout the month providing some additional relief from long term drought conditions, except for northwest areas of the state which remained drier. Albuquerque enjoyed a six day wet spell that ended about the 21st which yielded enough rain (1.84 inches) to make the month the 5th wettest March on record. While the increase in snow pack was welcome, amounts were not yet deep enough to provide long term hydrologic drought relief and to significantly reverse the outlook for marginal reservoir storage across the state.

As the string of wet days ended on the 21st, brief thunderstorms formed with small hail from Albuquerque east to Tucumcari and along the Interstate 25 corridor between Raton and Clayton. At least three separate small storms dumped copious small hail less than one half inch in diameter in narrow swaths across Interstate 25 south of Wagon Mound and near Tecolote southwest of Las Vegas, and also across Interstate 40 just east of Tucumcari. Motorists sped into the icy conditions with numerous accidents the result. A 64 year old female died (indirect) and her 69 year old husband was injured (indirect) in a roll over wreck south of Wagon Mound. A 66 year old man and his 59 year old wife both died (indirect) near Tucumcari when their vehicle slid off the road and struck a pole.

**NMZ002-004>005-007** Northwest Mountains Including Jemez - Sangre De Cristo Mountains - Northeast Highlands - Far Northeast Plains

**19 0200MST 2100MST 0 0 Winter Storm**

Heavy snow of 7 to 15 inches developed across far northern New Mexico from Chama east to Taos, Red River, Raton and northern Union County. Capulin reported 6 inches of fresh snow with drifts up to 3 feet. Some high mountain ski areas reported amounts of 18 to 24 inches over a 36 to 48 hour interval from separate snows.

### **Quay County**

**Forrest 21 1755MST 0 0 Hail (0.75)**

## NEW MEXICO, South Central and Southwest

NONE REPORTED.

## NEW MEXICO, Southeast

### **Eddy County**

**Carlsbad 14 1841MST 1847MST 0 0 0 0 Hail (1.00)**

Hail ranging in size from one half inch to one inch was reported by a trained storm spotter in the city of Carlsbad.

### **Eddy County**

**4 W Loco Hills 14 1929MST 1930MST 0 0 0 0 Hail (0.75)**

A resident traveling on U.S. Highway 82 between Loco Hills and the intersection of State Route 360 reported two inches of hail covering the roadway.

A few high based and marginally severe hail storms occurred over Eddy County during the evening of the 14th. The first storm developed rapidly over the city of Carlsbad. Most reports from the city indicated one half inch hail. A trained spotter reported a few quarter size hail stones mixed in with the smaller hail. A second severe storm developed across the northeast parts of the county, and resulted in large hail which accumulated several inches deep.

**NMZ028**

### **Eddy County Plains**

**18 1100MST 1300MST 0 0 10K 0 High Wind (G50)**

A very intense mid-latitude cyclone which was centered over northeast New Mexico resulted in strong surface gradient winds across a large part of southeast New Mexico and West Texas. The Carlsbad ASOS measured wind gusts of 45 knots, but higher winds were likely across the southwest parts of the county. A roof was blown off of a trailer house in Loving. No injuries or other damage was reported.

## NEW YORK, Central

**NYZ009-018-036>037-044>046** Northern Onondaga - Onondaga - Madison - Southern Oneida - Cortland - Chenango - Otsego

**03 0400EST 0800EST 0 0 Extreme Cold/Wind Chill**

A cold front went through the region the evening of March 2nd. Winds out of the west to northwest were steady between 10 and 20

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NEW YORK, Central

miles an hour into the 3rd. Temperatures fell below zero during the early morning hours of the 3rd. The cooperative observers with the coldest low temperatures were Boonville with 18 below zero and Cooperstown with 17 below zero Fahrenheit. The lowest wind chill values were 20 to 30 below zero. This arctic air also set off lake effect snow showers. Snow amounts were up to 3 inches. The wind also caused any lake effect snow to blow and drift.

### NYZ062

#### **Sullivan**

<b>06</b>	<b>1600EST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>Heavy Snow</b>
	<b>1800EST</b>				

A fast moving low pressure system went from Kentucky to the middle Atlantic coast on the 6th. This storm spread precipitation north ahead of it. Only snow fell across Sullivan County which started between 6 and 8 AM. Heavy snow fell between 9 AM and 2 PM before ending by 6 PM. County snow amounts were from 10 inches in the south to 4 inches in the north. The cooperative observer in Bloomingburg had the highest snowfall report with 10.4 inches.

### NYZ044>046-055>056

#### **Cortland - Chenango - Otsego - Tioga - Broome**

<b>21</b>	<b>0113EST</b>	<b>0</b>	<b>0</b>	<b>190K</b>	<b>Flood</b>
<b>28</b>	<b>0558EST</b>				

Mild temperatures starting on the 15th caused winter snow to melt. Overnight temperatures mainly in the 20s and 30s slowed the snowmelt down each night. The larger rivers began rising on the 17th. Rain fell on the 20th with basin averaged amounts ranging from three quarters of an inch to an inch and a half. This rain combined with the snow melt brought several forecast points on the Susquehanna, Tioughnioga, and Chenango over their flood stages. The Susquehanna River at Waverly, NY and Sayre, PA reached flood stage of 11 feet on the 21st, crested at 14.17 feet on the 23rd then fell below flood stage on the 26th. The Susquehanna River at Vestal reached flood stage of 18 feet on the 21st, crested at 21.01 feet on the 23rd, then fell below flood stage on the 25th. The Susquehanna River at Conklin reached flood stage of 11 feet on the 21st, crested at 14.74 feet on the 23rd, then fell below flood stage on the 28th. The Susquehanna River at Bainbridge reached flood stage of 13 feet on the 21st, crested at 17.66 feet on the 23rd then fell below flood stage on the 28th. The Susquehanna River at Unadilla reached flood stage of 11 feet on the 22nd, crested at 11.46 feet also on the 22nd, then fell below flood stage on the 24th. The Chenango River at Sherburne reached flood stage of 8 feet on the 21st, crested at 9.08 feet on the 22nd, then fell below flood stage on the 24th. The Chenango River at Greene reached flood stage of 13 feet on the 22nd, crested at 13.15 feet also on the 22nd, then fell below flood stage on the 23rd. The Tioughnioga River at Cortland reached flood stage of 8 feet on the 21st, crested at 9.32 feet on the 22nd, then fell below flood stage on the 24th. Flooding was moderate at Vestal and Conklin on the Susquehanna River, and Sherburne on the Chenango River. All other river forecast points mentioned had minor flooding.

## **Onondaga County**

### **Manlius**

<b>21</b>	<b>2000EST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>Lightning</b>
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A lightning strike tripped a circuit breaker knocking out power to 1,000 electric customers in Fayetteville and Minoa, both in the town of Manlius.

### NYZ023

#### **Schuyler**

<b>30</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>20K</b>	<b>Heavy Snow</b>
	<b>2000EST</b>				

A cold front with rain moved through upstate New York the morning of the 29th. This front stalled on the east coast later that day and into the 30th. A storm moved slowly up the front on the 30th. This brought snow to Schuyler County which started around 6 AM. Snowfall totals from two snow spotters and one cooperative observer were all around 7 inches for the storm.

## NEW YORK, Coastal

### **NYZ067>071-078>079-081**

#### **Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - Northwest Suffolk - Northeast Suffolk - Southeast Suffolk**

<b>06</b>	<b>1330EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1900EST</b>			

A weak low pressure system formed over the Ohio River Valley along a pre-existing and nearly stationary frontal boundary on Wednesday, March 5th. That night this storm started to move east, and passed just south of the New York City Metropolitan area and Long Island on Thursday, March 6th. Meanwhile, an area of strengthening High Pressure started to build down from southern Canada. This created a north to northeast flow, which allowed rain and sleet at the onset of precipitation to quickly turn to snow, which remained the precipitation type for the duration of the storm. Snowfall amounts for this late winter storm were as follows:

Orange County: 7 to 10 inches, including 7.0 inches at Newburgh and 8.0 inches in Monroe.

Putnam County: 5 to 7 inches, including 6.5 inches in Brewster.

Rockland County: 5 to 7 inches.

Westchester County: 5 to 8 inches, including 6.7 in White Plains.

Suffolk County: 4 to 8 inches.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b>NEW YORK, Coastal</b>									
<b>Queens County</b>									
2 NE College Pt	21	1900EST			0	0		Hail (0.75)	
A trained spotter reported penny size hail in Whitestone at 700 pm.									
<b>Nassau County</b>									
Port Washington	21	1927EST			0	0		Hail (0.75)	
A trained spotter reported penny size hail in Port Washington at 727 pm.									
<b>Suffolk County</b>									
Wading River to Upton	21	2030EST 2035EST			0	0		Hail (0.88)	
An off-duty National Weather Service employee reported penny size hail in Wading River at 830 pm. At 835 pm, nickle size hail was observed at the National Weather Service Forecast Office in Upton.									
<b>Suffolk County</b>									
Baiting Hollow	21	2045EST			0	0		Hail (0.75)	
A trained spotter in Baiting Hollow reported penny size hail at 845 pm.									
<b>Westchester County</b>									
Somers	21	2110EST			0	0		Hail (0.75)	
A trained spotter reported penny size hail in Somers at 910 pm.									
<b>NEW YORK, East</b>									
<b>NYZ065&gt;066</b>									
<b>Western Dutchess - Eastern Dutchess</b>									
05		0600EST 1200EST			0	0		Winter Weather/Mix	
A weak area of low pressure, off the DelMarVa penninsular, brought light freezing rain to Dutchess County on the morning of March 5. Although the rain was light, surface temperatures below freezing produced very slippery surfaces. This resulted in a plethora of accidents and falls. Sections of the Taconic Parkway, Interstate 84, and Routes 22,55 and 343 were all closed for awhile Wednesday morning due to numerous accidents. Minor injuries were also reported from people slipping on the ice. Many schools in the area were delayed, some were even closed for the whole day.									
<b>NYZ066</b>									
<b>Eastern Dutchess</b>									
06		1000EST 1500EST			0	0		Winter Storm	
For the second day in a row, Dutchess County was under the gun with inclement winter weather on March 6. A low pressure area moved across Virginia and out to sea. Large Canadian high pressure over James Bay funneled enough cold air to insure all snow this go around. A swath of moderate to heavy snow fell across eastern Dutchess County. Storm Mountain reported 8.1 inches and Poughquag reported 7.0 inches. For the second day in a row, there were many vehicular accidents, school delays and closings.									
<b>NYZ038-047-049-052</b>									
<b>Southern Herkimer - Schoharie - Eastern Schenectady - Eastern Albany</b>									
19 24		1600EST 0000EST			0	0		Flood	
The season's first Bermuda high became established off the Atlantic coast from March 17 through 19. Across eastern New York, temperatures climbed well above the freezing mark, allowing the unusually deep winter snow pack to begin to melt in earnest. Ice jams, in the Mohawk River, resulted in a minor flood in eastern Schenectady. The river crested to just the flood feet of 223 feet at Schenectady on March 19th, which resulted in the flooding of some low lands. County Emergency Officials used a crane with a wrecking ball that broke up the ice and prevented any flooding to Schenectady's historic Stockade district. A weak cold front then dropped south from eastern Canada, cooling temperatures off by the 20th. However, this front lifted right back north as a warm front loaded with moisture on March 20 and 21. This warm front brought 1 to 2 inches of rainfall over the region. The rain further accelerated the snowmelt and resultant runoff. The Mohawk river at the Utica gage climbed to 405.4 feet, 2.4 feet above flood stage on March 21 and stayed there until March 23. Minor flooding also took place on the Schoharie Creek, as the gage at Burtonsville rose slightly above the its 6 foot flood stage on the 22nd. Also, the Wappingers Creek in Dutchess County, rose about a quarter foot past its 8 foot flood stage on the 22nd.									
<b>NYZ042-050-050</b>									
<b>Northern Warren - Southern Saratoga</b>									
30 31		0700EST 2359EST			0	0		Flood	
An area of low pressure, moving along a slow moving cold front on March 29 and 30, produce 1 to 2 inches of rainfall across eastern New York. The rain, combined with seasonably mild temperatures, melted most of the remaining snow pack across much of eastern									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NEW YORK, East

New York. The combination of the rain and mild temperatures, produced another significant runoff which caused some additional minor flooding. The Schroon River in Warren County briefly reached its flood stage of 7.0 feet at Riverbank. Along the Hudson River, at Schuylerville, the river crested at 90.5 feet, half a foot higher than flood stage. The river crested at 54 feet at the gage in Mechanicville, one foot higher than the flood stage there. The river remained above flood stage for about a day and a half. Besides the usual flooding of the Stillwater Flats, some property damage was noted further upstream, just north of Warrensburg where an ice jam formed at the Glen. This jam sent water and ice onto Friends Lake and Glen-Athol roads, temporarily trapping some residents.

## NEW YORK, North

NYZ028>030

### **Eastern Clinton - Southeastern St. Lawrence - Southern Franklin**

<b>05</b>	<b>0300EST</b>	<b>0</b>	<b>0</b>	<b>3K</b>	<b>Winter Weather/Mix</b>
	<b>1500EST</b>				

An area of weak low pressure along a cold front in the Ohio valley moved east across New York and Vermont late on the 5th of March. Light snow spread across the area in the early morning hours of the 5th and continued through the day before it gradually ended during the afternoon of the 5th. Accumulations were generally 3 to 6 inches.

NYZ026>027

### **Northern St. Lawrence - Northern Franklin**

<b>05</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>20K</b>	<b>Winter Storm</b>
	<b>1400EST</b>				

An area of weak low pressure along a cold front in the Ohio valley moved east across New York and Vermont late on the 5th of March. Light snow spread across the area in the early morning hours of the 5th, and became heavy during the morning. The snow gradually ended during the afternoon of the 5th. Accumulations were generally 6 to 9 inches, but locally higher in the mountains. A few reports included: in St Lawrence county, 9 inches at Edwards and 8 inches at Massena. In Franklin county, Malone reported 6 inches.

NYZ031

### **Western Clinton**

<b>05</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Winter Storm</b>
	<b>1500EST</b>				

An area of weak low pressure along a cold front in the Ohio valley moved east across New York and Vermont late on the 5th of March. Light snow spread across the area in the early morning hours of the 5th, and became locally heavy during the morning. The snow gradually ended during the afternoon of the 5th. Accumulations were generally 6 to 8 inches, with 8 inches reported at Ellenburg Depot.

NYZ034

### **Western Essex**

<b>21</b>	<b>1345EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Flood</b>
	<b>2359EST</b>				

A storm system moved from the Missouri Valley on Thursday, March 20th northeast across the Ohio valley on Friday, March 21st, then continued northeast and weakened. This system resulted in rainfall (between 1/2 and 1 inch) on the 20th and 21st across the area, coupled with unusually mild weather. The resulting snowmelt resulted in ice jams on swollen rivers. Along the east branch of the AuSable River, from Keene to Upper Jay New York, minor field flooding was reported on the 21st.

NYZ028

### **Eastern Clinton**

<b>21</b>	<b>2000EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Flood</b>
	<b>2359EST</b>				

A storm system moved from the Missouri Valley on Thursday, March 20th northeast across the Ohio valley on Friday, March 21st, then continued northeast and weakened. This system resulted in rainfall (between 3/4 and 1 inch) on the 20th and 21st across the area, coupled with unusually mild weather. The resulting snowmelt resulted in the formation of ice jams on swollen rivers. Along the Saranac River in Morrisonville, minor field flooding was reported on the 21st.

NYZ026>029

### **Northern St. Lawrence - Southeastern St. Lawrence**

<b>22</b>	<b>0600EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Flood</b>
	<b>1400EST</b>				

A storm system moved from the Missouri Valley on Thursday, March 20th northeast across the Ohio valley on Friday, March 21st, then continued northeast and weakened. This system resulted in rainfall (of around 1 inch) on the 20th and 21st across the area, coupled with unusually mild weather. The resulting snowmelt resulted in ice jams on swollen rivers. Along the Oswegatchie River, minor field flooding of low lying areas was reported on the 22nd.

NYZ028

### **Eastern Clinton**

<b>26</b>	<b>0800EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Flood</b>
<b>27</b>	<b>0200EST</b>				

Ice jams on the Great Chazy River resulted in minor low lying field flooding along this river from Perry Mills to the shore of Lake Champlain. The river gage at Perry Mills exceeded the flood stage of 8 feet by up to a foot at times.

NYZ027

### **Northern Franklin**

<b>30</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Winter Weather/Mix</b>
<b>31</b>	<b>0400EST</b>				

An area of low pressure off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Light snow overspread the area by the afternoon of March 30th and continued overnight before it tapered off to flurries early on the morning of March 31st. Snowfall was generally 3 to 4 inches.

NYZ028-035

### **Eastern Clinton - Eastern Essex**

<b>30</b>	<b>1700EST</b>	<b>0</b>	<b>0</b>	<b>20K</b>	<b>Winter Storm</b>
<b>31</b>	<b>0400EST</b>				

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NEW YORK, North

A low pressure system off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Snow spread across the area by the afternoon of March 30th and was heavy at times during the night before it tapered off to flurries early on the morning of March 31st. Snowfall was around 7 inches.

### NYZ031-034

#### **Western Clinton - Western Essex**

<b>30</b>	<b>2230EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Winter Storm</b>
<b>31</b>	<b>0400EST</b>				

An area of low pressure off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Snow overspread the area by the afternoon of March 30th and became heavy at times during the night before it tapered off to flurries early on the morning of March 31st. Snowfall was generally around 7 inches. In Newcomb (Essex county) 6.5 inches of snow fell.

## NEW YORK, West

### NYZ006>008

#### **Oswego - Jefferson - Lewis**

<b>10</b>	<b>0445EST</b>	<b>0</b>	<b>0</b>	<b>55K</b>	<b>Heavy Snow</b>
<b>11</b>	<b>0310EST</b>				

A band of lake effect snow over Oswego county intensified as it lifted north into Lewis and southern Jefferson counties. It was most intense in the predawn hours of the 11th over Jefferson county and then dissipated by mid morning as milder air aloft worked in. Snowfall totals ranged from eight inches over Oswego and far southern Lewis counties up to fourteen inches over the northern Tug Hill.

### NYZ010

#### **Erie**

<b>16</b>	<b>2300EST</b>	<b>0</b>	<b>0</b>	<b>300K</b>	<b>Flood</b>
<b>17</b>	<b>1600EST</b>				

An ice jam on Cazenovia Creek resulted in flooding in West Seneca. Several basements in the Southgate Plaza area were flooded though no evacuations were ordered. At Ebenezer, the creek crested at 11.6 feet. Flood stage is 10 feet.

### NYZ019

#### **Chautauqua**

<b>17</b>	<b>1700EST</b>	<b>0</b>	<b>0</b>	<b>450K</b>	<b>Flood</b>
<b>18</b>	<b>1000EST</b>				

Ice jams on Cattaraugus Creek resulted in flooding at Sunset Bay in Hanover. A couple of hundred residents were evacuated to shelters for the night. An estimated 75 homes were flooded, though some were only seasonal cottages.

### NYZ001-003-003-010

#### **Niagara - Monroe - Erie**

<b>18</b>	<b>1600EST</b>	<b>0</b>	<b>0</b>	<b>275K</b>	<b>Flood</b>
<b>23</b>	<b>1100EST</b>				

An abrupt change to warmer weather at mid-month resulted in a quick meltdown of the winter snowpack. Area creeks rose to near or above bankful with three creeks in western New York exceeding flood stage. At Churchville, Monroe county, the Black Creek crested at 6.7 feet or about a half a foot above flood stage. The Oatka Creek at Garbutt, Monroe county, crested at 6.2 feet, just above its 6 foot flood stage. The Tonawanda Creek overflowed its banks with flooding along the Erie/Niagara county border. The creek crested at 13.8 feet, almost two feet above the flood stage.

### NYZ020-020

#### **Cattaraugus**

<b>21</b>	<b>0500EST</b>	<b>0</b>	<b>0</b>	<b>200K</b>	<b>Flood</b>
<b>24</b>	<b>1000EST</b>				

An abrupt change to warmer weather at mid-month resulted in a quick meltdown of the winter snowpack. Area creeks rose to near or above bankful. In the southern tier, the Allegheny River exceeded flood stage at both Olean and Salamanca, cresting at 11.6 feet and 12 feet, respectively.

## NORTH CAROLINA, Central

### **Sampson County**

<b>4 S Harrells</b>	<b>06</b>	<b>0230EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
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### **Wayne County**

<b>Fremont</b>	<b>16</b>	<b>1445EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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### **Wayne County**

<b>5 N Fremont</b>	<b>16</b>	<b>1510EST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
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Quarter sized hail covered the ground north of Fremont.

### **NCZ007>009-021>026-038>041-073>075-077-083>084-086-088**

<b>Person - Granville - Vance - Forsyth - Guilford - Alamance - Orange - Durham - Franklin - Davidson - Randolph - Chatham - Wake - Stanly - Montgomery - Moore - Harnett - Anson - Richmond - Hoke - Cumberland</b>	<b>20</b>	<b>0630EST</b>	<b>0</b>	<b>0</b>	<b>150K</b>	<b>Flood</b>
		<b>1600EST</b>				

Persistent heavy rain brought widespread flooding across central North Carolina, beginning in the morning of March 20 and continuing into the afternoon. Numerous roads across the area had to be closed due to flooding, and numerous creeks overflowed their banks. Rainfall amounts were mainly between 2 and 4 inches in less than 12 hours. The heaviest rain fell in Forsyth County, where major flooding occurred along Muddy Creek, Mill Creek, and Grassy Creek, and several water rescues were needed.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NORTH CAROLINA, Central Coastal

### Duplin County

Beulaville	06	0313EST			0	0			Hail (0.75)
			Public reported penny size hail.						

### Onslow County

4 NW Richlands	06	0327EST			0	0			Hail (0.88)
			Onslow county 911 reported nickel size hail near Haws Run.						

### Carteret County

Newport	06	0411EST			0	0			Hail (0.75)
			NWS personnel reported penny size hail.						

### Carteret County

Cedar Is	11	1305EST			0	0			Thunderstorm Wind (G57)
			Coastal observing station measured 64 mph wind gust.						

### Hyde County

Ocracoke	11	1340EST			0	0			Hail (0.75)
			Storm spotter reported penny size hail.						

### Lenoir County

Pink Hill	16	1502EST			0	0			Hail (0.75)
			Public reported penny size hail.						

### Greene County

5 NE Walstonburg	16	1542EST			0	0			Hail (1.00)
			Public reported half dollar size hail between Walstonburg and Lindell.						

### Pitt County

Farmville	16	1558EST			0	0			Hail (1.50)
			WITN News reported large hail.						

### Pitt County

Bellarthur	16	1613EST			0	0			Hail (1.00)
			Public reported one inch hail.						

### Greene County

Walstonburg	16	1615EST			0	0			Hail (1.00)
			Greene county 911 reported hail covering the ground near Cobb Corner and route 269.						

## NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

## NORTH CAROLINA, North Coastal

NONE REPORTED.

## NORTH CAROLINA, Northwest and North Central

### NCZ003>004-019>020 Surry - Stokes - Wilkes - Yadkin

	20	0900EST 2300EST			0	0	0		Flood
<b>Rockingham County</b>									
Monroeton	20	0900EST 0915EST			0	0	20K		Flash Flood
<b>Caswell County</b>									
Countywide	20	0915EST 1000EST			0	0	0		Flash Flood
<b>Stokes County</b>									
Countywide	20	0915EST 1000EST			0	0	0		Flash Flood
<b>Surry County</b>									
Countywide	20	0945EST 1030EST			0	0	0		Flash Flood
<b>Yadkin County</b>									
East Bend	20	0945EST 1000EST			0	0	0		Flash Flood

A period of very heavy rain produced flash flooding during the morning on the 20th. In Monroeton three cars were washed off of Route 158, in East Bend a portion of Route 67 was washed out, and many roads were closed due to flash flooding countywide across Caswell,

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **NORTH CAROLINA, Northwest and North Central**

Stokes, and Surry counties.

A prolonged period of moderate to heavy rain on the 20th caused small stream and urban flooding in Surry, Stokes, Wilkes, and Yadking counties. Numerous roads were flooded and closed.

**NCZ001>002-018**

**Ashe - Alleghany - Watauga**

<b>30</b>	<b>0030EST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1230EST</b>				

Heavy snow accumulated 6 to 12 inches during the morning of the 30th. The weight of the wet snow downed tree limbs and some trees and power lines, resulting in numerous power outages.

## **NORTH CAROLINA, South Coastal**

**Robeson County**

<b>Orrum</b>	<b>06</b>	<b>0145EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Public reported dime size hail.			

**Bladen County**

<b>Bladenboro</b>	<b>06</b>	<b>0155EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
		Bladen 911 reported nickel size hail.			

**Bladen County**

<b>White Lake</b>	<b>06</b>	<b>0210EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
		Bladen 911 reported nickel size hail.			

**New Hanover County**

<b>Carolina Beach</b>	<b>11</b>	<b>0930EST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
		911 reported quarter size hail.			

**Brunswick County**

<b>Holden Beach</b>	<b>11</b>	<b>1035EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Holden Beach Pier reported dime size hail.			

**Brunswick County**

<b>Long Beach</b>	<b>11</b>	<b>1045EST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
		Long Beach Pier reported quarter size hail.			

**Brunswick County**

<b>Southport</b>	<b>11</b>	<b>1056EST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
		Spotter reported quarter size hail.			

**Columbus County**

<b>Delco</b>	<b>11</b>	<b>1125EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Spotter reported dime size hail.			

**New Hanover County**

<b>Wilmington</b>	<b>11</b>	<b>1212EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Ham radio operator reported dime size hail at the state port.			

**Brunswick County**

<b>Leland</b>	<b>11</b>	<b>1215EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		911 reported dime size hail.			

**Brunswick County**

<b>4 SW Leland</b>	<b>11</b>	<b>1227EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Television station reported dime size hail.			

**New Hanover County**

<b>Wilmington to Wrightsville Beach</b>	<b>11</b>	<b>1234EST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.25)</b>
		Spotter reported half dollar size hail. The police also reported dime size hail at Wrightsville Beach.			

**New Hanover County**

<b>Wilmington</b>	<b>11</b>	<b>1240EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
		Off duty NWS employee reported nickel size hail.			

**New Hanover County**

<b>Wilmington</b>	<b>11</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
		Public reported dime size hail.			

**New Hanover County**

<b>Wilmington</b>	<b>11</b>	<b>1317EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
		Off duty NWS employee reported nickel size hail.			

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
NORTH CAROLINA, South Coastal									
New Hanover County									
Wilmington to Wrightsville Beach	11	1330EST 1339EST			0	0			Hail (1.25)
Off duty NWS employee reported one inch size hail. The public also reported hail at Wrightsville Beach.									
New Hanover County									
Wilmington	20	1315EST			0	0			Thunderstorm Wind (G51)
A measured 58 mph wind gust was recorded at the state port.									
NORTH CAROLINA, Southwest									
NCZ082									
Union									
	06	0900EST 1200EST			0	0			Flood
A number of small streams and roads flooded throughout the county.									
Lincoln County									
Countywide	20	0530EST 1200EST			0	0			Flash Flood
Heavy rain began falling across the county during the pre-dawn hours, and rapid rises and flooding along creeks and other small streams quickly ensued. As many as seven bridges were described as impassable by sunrise.									
Iredell County									
Statesville	20	0530EST 1200EST			0	0			Flash Flood
Heavy rainfall developed during the early morning, and rapid rises along creeks and small streams ensued. Water levels increased to well above bankful on many creeks across the county, particularly in Statesville. Some motorists had to be rescued from their vehicles.									
Rowan County									
Countywide	20	0600EST 1200EST			0	0			Flash Flood
Heavy early morning rainfall resulted in rapid rises and flooding along numerous creeks and streams across the county, especially in areas from East Spencer to High Rock Lake, where several tributaries flooded low lying areas.									
Davie County									
Countywide	20	0600EST 1200EST			0	0			Flash Flood
Heavy early morning rains resulted in rapid rises and flooding along numerous creeks and streams across the county.									
Catawba County									
Countywide	20	0800EST 1200EST			0	0			Flash Flood
Flooding developed quickly across the county after the onset of heavy early morning rain. Although flooding was largely described as minor, some livestock required rescue due to flooding along the Jacobs Fork River.									
Rutherford County									
Countywide	20	0800EST 1200EST			0	0			Flash Flood
Heavy overnight rainfall resulted in rapid rises and flooding along several creeks and small streams across the county, including the Second Broad River. Although flooding was mostly minor, it was fairly widespread across the county.									
Mecklenburg County									
Countywide	20	0800EST 1200EST			0	0			Flash Flood
Heavy rainfall resulted in rapid rises and flooding along numerous creeks and small streams in and near the Charlotte metro area. Severe urban flooding was also reported.									
Cleveland County									
Countywide	20	0800EST 1200EST			0	0			Flash Flood
Heavy rainfall resulted in rapid rises along creeks and small streams during the morning. Several roads were closed around Shelby, where flooding was described as the worst in several years.									
Union County									
Countywide	20	0800EST 1200EST			0	0			Flash Flood
Heavy rainfall resulted in rapid rises and flooding along numerous small streams across the county, causing closures of adjacent roadways between Monroe and Matthews.									
Alexander County									
Countywide	20	0900EST 1200EST			0	0			Flash Flood



# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>NORTH CAROLINA, Southwest</u></b>									
Heavy rainfall resulted in rapid rises and flooding along numerous small streams, especially in areas from Taylorsville southward to the Catawba County line. Water overflowed the dam at Lake Hickory, resulting in some downstream flooding.									
<b>Cabarrus County</b>									
Countywide	20	0900EST 1200EST			0	0			Flash Flood
Heavy rainfall resulted in rapid rises and flooding along numerous small streams across the county. Numerous roads were flooded and remained closed for several hours.									
<b>NCZ070</b>									
		<b>Gaston</b>							
	20	0900EST			0	0	2M		Flood
	21	1500EST							
An extended period of moderate to heavy rain combined with heavy upstream rainfall to cause slow rises on numerous creeks and streams, which culminated in an extended period of flooding across the county. The South Fork of the Catawba River overflowed its banks in the Lowell/McAdenville area, resulting in some of the worst flooding observed in the area in 35 years. The river crested at 16.6 feet at McAdenville. Several adjacent buildings were flooded, and some vehicles received extensive damage. Twenty five people required rescuing from a flooded mobile home park along Crowders Creek.									
<b>NCZ069</b>									
		<b>Lincoln</b>							
	20	1200EST 1800EST			0	0	500K		Flood
After heavy early morning rain caused flash flooding, moderating rainfall contributed to slower rises, but continued and additional flooding along numerous creeks and streams across the county. Numerous low lying roads and bridges were washed out. The South Fork of the Catawba River flooded areas near the Gaston County line.									
<b>NCZ082</b>									
		<b>Union</b>							
	20	1200EST 1800EST			0	0	100K		Flood
After early morning rain caused flash flooding across the area, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams. Numerous roads flooded, and several motorists were stranded due to high water.									
<b>NCZ071</b>									
		<b>Mecklenburg</b>							
	20	1200EST 1800EST			0	0	2M		Flood
After morning flash flooding, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams into the evening hours. Some of the flooding was described as the worst in the area in over 5 years. Flooding was especially severe along the Union County line, where some people required rescue from vehicles and homes.									
<b>NCZ057</b>									
		<b>Rowan</b>							
	20	1200EST 1800EST			0	0	100K		Flood
After morning flash flooding, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams into the evening hours. At least 6 roads were flooded by adjacent streams, and a herd of cows required rescue due to high water.									
<b>NCZ072</b>									
		<b>Cabarrus</b>							
	20	1200EST 1800EST			0	0	1M		Flood
After morning flash flooding, moderating rainfall contributed to slower rises, but continued and additional flooding along numerous creeks and streams into the evening hours. Flooding was quite severe from Kannapolis to Concord, as well as across southern and eastern sections of the county. A nursing home and a school had to be evacuated due to rising water. At least 10 roads were closed across the county.									
<b>NCZ037</b>									
		<b>Davie</b>							
	20	1200EST			0	0	1M		Flood
	24	0800EST							
After morning flash flooding on the 20th, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams that persisted for several days. Flooding was especially severe in eastern portions of the county, along the Yadkin River, South Yadkin River, Dutchman's Creek, and Hunting Creek. Water on some of these streams increased to their highest levels in 7 years.									
<b>NCZ036</b>									
		<b>Iredell</b>							
	20	1200EST 2000EST			0	0	2M		Flood
After morning flash flooding, moderating rainfall led to slower rises, but continued and additional flooding along creeks and streams into the evening hours. The flooding became quite severe, and was described as the worst observed in the county in over 60 years. Fourth Creek flooded portions of I-40 west of Statesville, closing the interstate for 5 hours. Flooding was also observed along Gregory Creek and Third Creek, as well as numerous smaller streams. Some homes, businesses, and assisted living facilities required evacuation. Some schools flooded and were forced to close for several days. Several bridges were destroyed.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b><u>NORTH CAROLINA, Southwest</u></b>									
<b>Mecklenburg County</b>									
Huntersville	26	1625EST			0	0		Thunderstorm Wind (G50)	
Two large oak trees and a pine tree were blown down.									
<b>NCZ033-049&gt;050</b>									
<b>Avery - Yancey - Mitchell</b>									
	30	0000EST 0800EST			0	0		Winter Weather/Mix	
Light, wet snow began falling around midnight across the northern mountains, and gradually intensified toward dawn. One to two inches had accumulated across the area by mid-morning.									
<b>NCZ048-051&gt;053-058&gt;059-062&gt;063</b>									
<b>Madison - Swain - Haywood - Buncombe - Graham - Northern Jackson - Macon - Southern Jackson</b>									
	30	0000EST 0600EST			0	0		Winter Weather/Mix	
A light, wet snow developed around midnight across the southern and central mountains, and gradually intensified through dawn. By sunrise, 1 to 2 inches had accumulated across much of the area.									
<b>NCZ048-051&gt;053-058&gt;059-062&gt;063</b>									
<b>Madison - Swain - Haywood - Buncombe - Graham - Northern Jackson - Macon - Southern Jackson</b>									
	30	0600EST 0900EST			0	0		Heavy Snow	
Snow intensified across the southern and central mountains during the pre-dawn hours, and by sunrise, heavy snow accumulations were realized. Valley locations received anywhere from a trace to 6 inches, while up to 8 inches accumulated in the highest elevations. The heavy, wet snow caused widespread power outages, especially in Haywood County. Three hikers required rescue in Haywood County, and one was hospitalized with hypothermia.									
<b>NCZ034&gt;037-056&gt;057-066&gt;067</b>									
<b>Caldwell - Alexander - Iredell - Davie - Catawba - Rowan - Polk - Rutherford</b>									
	30	0600EST 1200EST			0	0		Winter Weather/Mix	
Some light snow fell across the foothills and northwest piedmont during the morning. Most locations received no snow accumulation. However, portions of the western foothills received as much as an inch by noon.									
<b>NCZ033-049&gt;050</b>									
<b>Avery - Yancey - Mitchell</b>									
	30	0800EST 1200EST			0	0		Heavy Snow	
Snow intensity increased during the pre-dawn hours across the northern mountains, and heavy accumulations were realized by mid-morning.									
<b>NCZ033-048&gt;053-058&gt;059-062</b>									
<b>Avery - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Graham - Northern Jackson - Macon</b>									
	30	1500EST			0	0		Winter Weather/Mix	
	31	0000EST							
After a brief lull, snow redeveloped during the afternoon across the mountains. By midnight, an additional 1 to 3 inches of snow had fallen, mainly in areas along the Tennessee border. Some of the highest peaks received as much as an additional 6 inches.									
<b><u>NORTH DAKOTA, Central and West</u></b>									
<b>NDZ022-048</b>									
<b>Sheridan - La Moure</b>									
	08	2100CST 2200CST			0	2		Extreme Cold/Wind Chill	
Two young adults, one female, the other male, were hospitalized for severe frostbite to the hands and feet Saturday evening of March 8th. Temperatures ranged from 5 below to 10 below zero and wind chills between 25 below to 35 below zero. The first victim was a 16 year old female, who became snowbound in her vehicle. She abandoned her vehicle near McClusky in central Sheridan county and walked approximately one-half mile to a nearby farmhouse where she was taken to a hospital for treatment. The second victim, a 18 year old male, rolled his vehicle in open country between Edgeley and Judd in western LaMoure county. He abandoned his vehicle and walked approximately 200 yards and sought refuge in an abandoned residence. He was airlifted to a nearby hospital for treatment.									
<b>NDZ009&gt;010-017&gt;018-031&gt;033</b>									
<b>Williams - Mountrail - McKenzie - Dunn - Golden Valley - Billings - Stark</b>									
	17	0200CST			0	0		Flood	
	26	1200CST							
The Missouri River near Williston, and its tributaries, rose above flood stage on March 17th. The flooding was caused by melting snow and ice jams. The flooding was aggravated by an ice storm and heavy rain across western and central North Dakota on the 17th and 18th. Up to two and a half inches of rain fell in some areas. Numerous homes received water damage and several families at Blacktail Dam, Williams county, had to be evacuated by boat. Numerous roads were impassable due to high water.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NORTH DAKOTA, Central and West

NDZ001>002-009>010- Divide - Burke - Williams - Mountrail - Mckenzie - Dunn - Golden Valley - Billings - Stark - Slope - Hettinger -  
017>018-031>033- Bowman - Adams

040>041-043>044

17	1323CST				0	0			Winter Storm
18	0419CST								

A low pressure system developed over the Lee of the Rocky Mountain Region Sunday night the 16th of March. It moved into the Plains and intensified during the early morning hours on Monday, March 17th. The system brought mainly ice to western North Dakota. The heavy coating of ice closed major roads and brought power outages to approximately 300 families in southwestern North Dakota. The freezing rain also downed approximately 60 power poles across the region. The system moved quickly southeast Monday night and the warning was downgraded to an advisory early Tuesday morning the 18th.

## **Burleigh County**

1 N Mc Kenzie

24	1335CST				0	0			Wildfire
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Very dry conditions, low humidity and wind gusts to 40 mph triggered a 200 acre wild fire just north of McKenzie in Burleigh county. A second, smaller 4 acre fire started just northwest of Bismarck near Pioneer Park. Both fires were contained by members of the Bismarck Rural Fire Department. No damage or injuries were reported.

## **Stutsman County**

2 W Edmunds to  
2 S Edmunds

26	1618CST 1623CST	2	300		0	0			Tornado (F0)
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*Earliest known tornado recorded in North Dakota.*

Hopper bin thrown 300 yards. Minor tree damage.

## **Foster County**

3 W Mc Henry

26	1644CST 1655CST				0	0			Hail (0.88)
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Reported by a National Weather Service cooperative observer. Hail event lasted 11 minutes.

## NORTH DAKOTA, East

NDZ006>008-014>016- Towner - Cavalier - Pembina - Benson - Ramsey - Eastern Walsh - Eddy - Nelson - Grand Forks - Griggs - Steele  
024-026>030-038>039- Traill - Barnes - Cass - Ransom - Sargent - Richland - Western Walsh

049-052>054

08	1454CST				0	0	360K		Extreme Cold/Wind Chill
09	1200CST								

A fairly compact ridge of high pressure brought clear skies and brisk west/northwest winds to eastern North Dakota. High temperatures

# Storm Data and Unusual Weather Phenomena

March 2003

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

## NORTH DAKOTA, East

on the 8th were only in the single digits above and below zero. The west/northwest winds of 15 to 25 mph with a few gusts to 35 mph kept temperatures from plunging too far, yet overnight temperatures did drop to 10 below to 20 below zero (or about 30 degrees below normal). This dropped wind chill temperatures to 40 below to 50 below zero for a prolonged period the night of the 8th into the morning of the 9th. With only a few inches of snow left on the ground (mostly in sheltered areas), these extreme wind chill temperatures disrupted public events and services. Some schools cancelled or postponed activities, rather than risk unneeded exposure to these elements. Numerous water main breaks were also reported, due to the prolonged exposure to the cold.

**NDZ007>008-016-054**

### **Cavalier - Pembina - Eastern Walsh - Western Walsh**

<b>26</b>	<b>2250CST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>27</b>	<b>0833CST</b>			

A strong upper level disturbance combined with an inverted trough at the surface to produce heavy snow across northeast North Dakota. The event began as light rain, then changed over to snow as cold air was drawn into the system. The heavy, wet snow broke some tree branches and resulted in scattered power outages. Rural schools northeast of Devils Lake closed on the 27th. An unofficial report of 12 inches of snow was received from Edinburg, and was the highest amount recorded. Otherwise, 6 to 8 inches of snow were common throughout the warning area.

## OHIO, East

**OHZ048**

### **Coshocton**

<b>09</b>	<b>1715EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>19</b>	<b>0500EST</b>			

The Muskingum River at Coshocton first rose above flood stage, 13 ft, 5:15 PM on 9th; it crested at 13.8 ft at 6 PM on 11th. The river rose again above flood stage (13 ft) at 10 PM on 13th; it crested at 14.3 ft at 12:00 AM the morning of the 16th. The river finally fell below flood stage by 5 AM on 19th.

## OHIO, North

**OHZ029>030**

### **Richland - Ashland**

<b>08</b>	<b>1830EST</b>	<b>0</b>	<b>0</b>	<b>40K</b>	<b>Strong Wind</b>
	<b>2030EST</b>				

A cold front moved across northern Ohio during the evening hours. Showers and strong winds accompanied this front. Wind gusts of 30 to 40 mph downed a few trees and limbs in Richland and Ashland Counties. Power outages were reported in Richland County near Ontario and Mansfield. A peak gust of 33 mph was recorded at Mansfield Lahm Airport (Richland County) at 7:47 p.m.

**OHZ023-033**

### **Trumbull - Mahoning**

<b>08</b>	<b>1930EST</b>	<b>0</b>	<b>0</b>	<b>150K</b>	<b>Strong Wind</b>
	<b>2130EST</b>				

A cold front moved across northern Ohio during the evening hours. Showers and strong winds accompanied this front. Wind gusts in excess of 50 mph downed trees and limbs in Mahoning and Trumbull Counties. Several homes and at least three cars were damaged by fallen trees in Warren (Trumbull County). A peak gust of 50 mph was recorded at the Youngstown-Warren Regional Airport at 8:34 p.m.

**Lucas County**

**Maumee**

<b>20</b>	<b>1801EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed.

**Lucas County**

**Maumee**

<b>20</b>	<b>1806EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Hail (1.00)</b>
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Quarter size hail was observed.

**Lucas County**

**Toledo**

<b>20</b>	<b>1814EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed just south of Toledo.

**Lucas County**

**Toledo**

<b>20</b>	<b>1835EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed.

**Hancock County**

**Findlay**

<b>20</b>	<b>1850EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed on the west side of Findlay.

**Lucas County**

**West Toledo**

<b>20</b>	<b>1910EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed.

**Hancock County**

**Findlay**

<b>20</b>	<b>1914EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Hail (1.00)</b>
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Quarter size hail was observed near Findlay.

**Wood County**

**Bradner**

<b>20</b>	<b>1918EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail (0.75)</b>
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Penny size hail was observed.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>OHIO, North</u></b>									
<b>Seneca County</b>									
Fostoria	20	1925EST			0	0	2K		Hail (0.75)
Penny size hail was observed.									
<b>Sandusky County</b>									
Gibsonburg	20	1930EST			0	0	2K		Hail (0.75)
Penny size hail was observed.									
<b>Sandusky County</b>									
Lindsey to Fremont	28	2020EST 2030EST			0	1	350K		Thunderstorm Wind (G45)
Showers moved across Sandusky County during the evening hours. Although no lightning or thunder was reported, the showers were intense enough to cause significant damage in the county. Winds were estimated to be well in excess of 50 mph. Two semi trucks were blown over on the Ohio Turnpike just north of Lindsey. One of the truck drivers sustained injuries serious enough to require hospitalization. In Lindsey, the roof of a large building was blown off and several homes nearby were also damaged by the strong winds. Many trees were downed in and around Lindsey. A 40 by 60 foot barn located six miles west of Fremont was destroyed.									
<b>Ottawa County</b>									
Port Clinton to Oak Harbor	28	2059EST 2112EST			0	0	75K		Thunderstorm Wind (G45)
Showers moved across Ottawa County during the evening hours. Although no thunder or lightning was reported, the showers were intense enough to cause some damage in the county. Wind gusts were estimated to be in excess of 50 mph. A few trees and large limbs were downed in Port Clinton. A barn was leveled near Oak Harbor and a nearby house was also damaged by the strong winds.									
<b><u>OHIO, Northwest</u></b>									
NONE REPORTED.									
<b><u>OHIO, Southeast</u></b>									
NONE REPORTED.									
<b><u>OHIO, Southwest</u></b>									
<b>OHZ042-044</b>									
<b>Darke - Logan</b>									
	13	0816EST 1100EST			0	0			Flood
Heavy rain combined with snowmelt to cause minor flooding of roadways during the morning.									
<b>Clinton County</b>									
Midland	20	1500EST 1504EST			0	0			Hail (0.88)
<b>Madison County</b>									
1 N London	20	1544EST 1545EST			0	0			Hail (0.75)
<b>Madison County</b>									
1 E London	20	1547EST 1550EST			0	0			Hail (0.88)
<b>OHZ088</b>									
<b>Scioto</b>									
	20	1800EST 1900EST			0	0			Flood
Thunderstorms producing heavy rain moved across the western part of the county. Several creeks rose out of their banks in the Shawnee State Forest.									
<b><u>OKLAHOMA, Eastern</u></b>									
<b>Pawnee County</b>									
Jennings	12	2105CST			0	0			Hail (0.75)
<b>Creek County</b>									
Milfay	12	2157CST			0	0			Hail (0.88)
<b>Creek County</b>									
Milfay	12	2223CST			0	0			Hail (1.00)
<b>Ottawa County</b>									
3 W Picher	12	2302CST			0	0			Hail (0.88)
<b>Ottawa County</b>									
Quapaw	12	2305CST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

March 2003

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

## OKLAHOMA, Eastern

### Mcintosh County

Hanna	13	0030CST			0	0			Hail (0.75)
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### Sequoyah County

Akins	13	0105CST			0	0			Hail (0.88)
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### Latimer County

Wilburton	13	0125CST			0	0			Hail (0.75)
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### Haskell County

Mc Curtain	13	0141CST			0	0			Hail (0.88)
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### Le Flore County

Poteau	13	0210CST			0	0			Hail (0.75)
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### Osage County

4 N Hominy	17	1401CST			0	0			Hail (0.75)
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### Osage County

1 E Burbank	17	1437CST			0	0			Hail (0.75)
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### Pawnee County

Pawnee	17	2200CST			0	0			Hail (0.75)
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### Osage County

Fairfax	17	2230CST			0	0			Hail (0.88)
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### OKZ060

### Tulsa

19	2100CST			0	0			Flood
20	0700CST							

At 9 pm cst on March 19th Bird Creek near Sperry rose above its flood stage of 21 feet. The river crested at 21.5 feet at 3 am cst on May 20th before falling below its flood stage at 7 am cst that same day. The flooding was worse about 10 miles upstream where water from Skunk Creek flows into Bird Creek. State Highway 20 east of Skiatook was closed for about 6 hours due to the flooding.

### Osage County

Foraker	25	1541CST			0	0			Hail (0.88)
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## OKLAHOMA, Extreme Southeast

NONE REPORTED.

## OKLAHOMA, Panhandle

NONE REPORTED.

## OKLAHOMA, Western, Central and Southeast

### Oklahoma County

Oklahoma City	12	2040CST			0	0	10K		Lightning
Lightning struck a house on N. Bryant Ave., causing a small fire. Lightning also struck a house on Wildewood Drive, severing a natural gas line in a utility room.									

### Washita County

4 NE Colony	12	2055CST			0	0			Hail (1.00)
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### Oklahoma County

Oklahoma City	12	2059CST			0	0			Hail (0.88)
Hail was reported near the intersection of Danforth and Brown.									

### Caddo County

1 S Hinton	12	2100CST			0	0			Hail (1.00)
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### Logan County

6 S Meridian	12	2105CST			0	0			Hail (1.75)
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### Oklahoma County

Edmond	12	2105CST			0	0			Hail (0.88)
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### Oklahoma County

Edmond	12	2109CST			0	0			Hail (1.75)
Hail was reported at Waterloo Road and Bryant.									

### Oklahoma County

Edmond	12	2109CST			0	0			Thunderstorm Wind (G58)
Wind was measured at Waterloo Road and Bryant.									

# Storm Data and Unusual Weather Phenomena

March 2003

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**

### **Canadian County**

3 SE Yukon	12	2120CST			0 0		Hail (1.25)
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### **Oklahoma County**

Edmond	12	2120CST			0 0		Hail (0.75)
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Hail was reported near the intersection of 89th and S. Bryant.

### **Oklahoma County**

3 SW Luther	12	2120CST			0 0		Hail (1.00)
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### **Oklahoma County**

Oklahoma City	12	2120CST			0 0		Hail (1.75)
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Hail was reported near the intersection of NW 36th and Meridian.

### **Lincoln County**

3 SW Wellston	12	2122CST			0 0		Hail (1.00)
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### **Lincoln County**

Wellston	12	2122CST			0 0		Hail (0.75)
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### **Lincoln County**

1 SW Kendrick	12	2142CST			0 0		Hail (1.00)
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### **Oklahoma County**

Jones	12	2144CST			0 0		Hail (1.00)
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### **Canadian County**

Mustang	12	2148CST			0 0		Hail (0.75)
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### **Caddo County**

5 S Carnegie	12	2200CST			0 0		Hail (0.75)
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### **Oklahoma County**

3 S Choctaw	12	2200CST			0 0		Hail (0.88)
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### **Cleveland County**

3 NW Moore	12	2206CST			0 0		Hail (0.88)
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### **Oklahoma County**

Oklahoma City	12	2215CST			0 0		Hail (1.25)
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Hail was reported near the intersection of NW Expressway and Council.

### **Grady County**

10 E Amber	12	2220CST			0 0		Hail (0.75)
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### **Pottawatomie County**

Mc Loud	12	2221CST			0 0		Hail (0.75)
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### **Oklahoma County**

Warr Acres	12	2224CST			0 0		Hail (1.00)
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### **Lincoln County**

Meeker	12	2230CST			0 0		Hail (0.75)
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### **Mcclain County**

Newcastle	12	2230CST			0 0		Hail (0.75)
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### **Oklahoma County**

Midwest City	12	2235CST			0 0		Hail (0.75)
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### **Caddo County**

8 W Anadarko	12	2244CST			0 0		Hail (0.88)
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### **Pottawatomie County**

Tecumseh	12	2245CST			0 0		Hail (0.75)
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### **Cleveland County**

Norman	12	2250CST			0 0		Hail (0.75)
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### **Caddo County**

5 S Anadarko	12	2258CST			0 0		Hail (0.75)
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### **Grady County**

Chickasha	12	2300CST			0 0		Hail (0.75)
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### **Mcclain County**

2 SSW Blanchard	12	2300CST			0 0		Hail (0.75)
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### **Caddo County**

6 N Apache	12	2303CST			0 0		Hail (1.00)
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# Storm Data and Unusual Weather Phenomena

March 2003

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**

Apache	12	2309CST			0	0			Hail (1.75)
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### **Comanche County**

Lake Ellsworth	12	2323CST			0	0			Hail (0.88)
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### **Seminole County**

Seminole	12	2330CST			0	0			Hail (0.75)
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### **Cleveland County**

Lexington	12	2345CST			0	0			Hail (0.75)
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### **Comanche County**

Elgin	12	2346CST			0	0			Hail (0.88)
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### **Seminole County**

Sasakwa	12	2350CST			0	0			Hail (0.75)
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### **Pontotoc County**

Byng	12	2358CST			0	0			Hail (0.88)
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### **Marshall County**

6 SE Kingston	13	0230CST			0	0			Hail (0.88)
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### **Garvin County**

4 NW Elmore City	17	1345CST			0	0			Hail (0.88)
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### **Roger Mills County**

5 N Sweetwater	17	1358CST			0	0			Hail (0.75)
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### **Kiowa County**

8 S Lone Wolf	17	1400CST			0	0			Hail (1.75)
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### **Roger Mills County**

2 N Dempsey	17	1415CST			0	0			Hail (0.75)
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### **Pottawatomie County**

Wanette	17	1425CST			0	0			Hail (0.75)
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### **Kiowa County**

Hobart	17	1435CST			0	0			Hail (0.75)
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### **Kiowa County**

Hobart	17	1450CST			0	0			Hail (1.75)
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### **Garfield County**

Drummond	17	1454CST			0	0			Hail (0.88)
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# Storm Data and Unusual Weather Phenomena

March 2003

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

## **OKLAHOMA, Western, Central and Southeast**

### **Kiowa County**

**4 ESE Hobart to  
4.5 E Hobart**

**17**

**1457CST  
1503CST**

**1.5**

**100**

**0**

**0**

**50K**

**Tornado (F1)**



*Photo courtesy of Dave Ewoldt.*

The tornado started about four miles east-southeast of Hobart and tracked northeastward. About midway through the path, a home received F1 damage when a large part of its roof was removed and blown to the south. The house appeared to be small but was well built with brick. Two barns just east of the house were also destroyed. About 12 power poles were blown down in this area as well. In the area around the tornado, a broad area of minor wind damage occurred to small structures.

### **Grady County**

**4 W Rush Spgs**

**17**

**1500CST**

**0**

**0**

**Hail (0.88)**

### **Stephens County**

**2 NW Alma**

**17**

**1500CST**

**0**

**0**

**Hail (0.88)**

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **OKLAHOMA, Western, Central and Southeast**

### **Kiowa County**

5 E Hobart to  
6 NE Hobart

17	1505CST	3	300	0	0	20K	Tornado (F1)
	1517CST						



*Photo courtesy of Dave Ewoldt.*

This tornado developed about five miles east of Hobart. The tornado first tracked northeastward for 1.5 miles before making a turn to the northwest for another 1.5 miles. After the tornado turned northwestward, it appeared to reach its peak intensity, which is where several small oil storage tanks were rolled or lifted and carried for a considerable distance. A few power poles were blown down as well. In the area around the tornado, a broad area of minor wind damage occurred to small structures.

### **Cotton County**

Devol

17	1515CST			0	0	Hail (1.00)
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# Storm Data and Unusual Weather Phenomena

March 2003

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

## **OKLAHOMA, Western, Central and Southeast**

### **Kiowa County**

7 SE Mountain View	17	1517CST	0.1	25	0	0	0		Tornado (F0)
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*Photograph of the tornado seven miles southeast of Mountain View in Kiowa County. Photo courtesy of Dean Cosgrove.*  
This brief tornado was captured on video and resulted in no damage.

### **Lincoln County**

Carney	17	1520CST			0	0			Hail (0.75)
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### **Woodward County**

Woodward	17	1524CST			0	0			Hail (0.75)
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### **Washita County**

3 S Lake Vly	17	1530CST			0	0			Hail (1.00)
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### **Garvin County**

Elmore City	17	1545CST			0	0			Hail (0.75)
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### **Cotton County**

Cookietown	17	1547CST			0	0			Hail (1.00)
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### **Payne County**

2 N Ripley	17	1549CST			0	0			Hail (0.88)
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### **Cotton County**

6 W Temple	17	1558CST			0	0			Hail (1.75)
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### **Payne County**

Cushing	17	1559CST			0	0			Thunderstorm Wind (G58)
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### **Cleveland County**

Lexington	17	1615CST			0	0			Hail (0.88)
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### **Cotton County**

5 E Walters	17	1623CST			0	0			Hail (0.88)
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### **Caddo County**

4 E Eakly	17	1625CST			0	0			Hail (1.00)
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### **Cotton County**

Temple	17	1635CST			0	0			Hail (1.75)
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### **Cotton County**

5 NE Walters	17	1637CST			0	0			Hail (0.88)
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### **Canadian County**

2 NW Scott	17	1644CST			0	0			Hail (0.88)
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# Storm Data and Unusual Weather Phenomena

March 2003

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**

6 W Binger	17	1645CST			0	0			Hail (1.00)
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### **Stephens County**

2 E Corum	17	1645CST			0	0			Hail (1.00)
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### **Stephens County**

Empire City	17	1710CST			0	0			Hail (1.75)
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### **Stephens County**

1 W Duncan	17	1722CST			0	0			Hail (1.00)
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### **Caddo County**

2 W Cyril	17	1725CST			0	0			Hail (0.75)
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### **Kingfisher County**

Okarche	17	1730CST			0	0			Hail (0.75)
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### **Canadian County**

5 S Calumet	17	1735CST			0	0			Hail (1.75)
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### **Comanche County**

Lawton	17	1735CST			0	0			Hail (1.00)
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### **Pottawatomie County**

Tecumseh	17	1739CST			0	0			Hail (0.75)
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### **Stephens County**

Duncan	17	1740CST			0	0			Hail (2.25)
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### **Blaine County**

1.5 N Geary	17	1750CST			0	0			Hail (0.75)
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### **Comanche County**

7 E Lawton	17	1750CST			0	0			Hail (1.25)
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### **Comanche County**

Pumpkin Center	17	1803CST	0.1	10	0	0	0		Tornado (F0)
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This was a very brief and narrow tornado that resulted in no damage.

### **Comanche County**

2 E Pumpkin Center	17	1812CST			0	0			Hail (2.00)
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### **Kingfisher County**

8 W Kingfisher	17	1813CST			0	0			Hail (0.75)
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### **Kingfisher County**

9 SW Kingfisher	17	1820CST			0	0			Hail (0.75)
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### **Comanche County**

4 NE Pumpkin Center	17	1828CST			0	0			Hail (1.75)
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### **Stephens County**

10 W Marlow	17	1828CST			0	0			Hail (1.75)
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### **Woodward County**

Ft Supply	17	1829CST			0	0			Hail (0.75)
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### **Cleveland County**

Norman	17	1830CST			0	0			Hail (1.00)
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Hail was reported near Classen and 12th Avenue SE.

### **Stephens County**

4 W Marlow	17	1833CST			0	0			Hail (1.25)
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### **Kingfisher County**

Kingfisher	17	1846CST			0	0			Hail (1.00)
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### **Grady County**

4 SE Rush Spgs	17	1901CST			0	0			Hail (1.00)
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### **Grady County**

5 NW Cox City	17	1918CST			0	0			Hail (0.88)
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### **Oklahoma County**

Harrah	17	1921CST			0	0			Hail (0.75)
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### **Oklahoma County**

Oklahoma City	17	1926CST			0	0			Hail (1.00)
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Hail was reported near Luther and Wilshire.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>OKLAHOMA, Western, Central and Southeast</b>									
<b>Kingfisher County</b>									
8 NE Dover	17	1930CST			0	0			Hail (1.00)
<b>Garvin County</b>									
1 W Lindsay	17	1940CST			0	0			Hail (1.00)
<b>Garvin County</b>									
2 W Lindsay	17	1941CST			0	0			Hail (0.88)
<b>Lincoln County</b>									
8 NW Midway	17	1942CST			0	0			Hail (1.00)
Hail was reported near Memorial and County Line Road.									
<b>Lincoln County</b>									
2 SW Wellston	17	1956CST			0	0			Hail (1.00)
<b>McClain County</b>									
8 SSW Criner	17	2000CST			0	0			Hail (0.88)
<b>McClain County</b>									
Payne	17	2004CST			0	0			Hail (1.00)
<b>Lincoln County</b>									
Fallis	17	2010CST			0	0			Hail (0.88)
<b>Logan County</b>									
3 E Marshall	17	2010CST			0	0			Hail (1.00)
<b>Lincoln County</b>									
Carney	17	2024CST			0	0			Hail (1.00)
<b>McClain County</b>									
5 SW Purcell	17	2030CST			0	0			Hail (0.75)
<b>McClain County</b>									
Purcell	17	2034CST			0	0			Hail (1.75)
<b>Garfield County</b>									
7 S Hayward	17	2035CST			0	0			Hail (0.75)
<b>Noble County</b>									
2 S Lucien	17	2040CST			0	0			Hail (0.75)
<b>Cleveland County</b>									
Maguire	17	2103CST			0	0			Hail (0.88)
<b>Payne County</b>									
Glencoe	17	2133CST			0	0			Hail (1.00)
<b>Pottawatomie County</b>									
Pink	17	2133CST			0	0			Hail (0.75)
<b>Noble County</b>									
Red Rock	17	2139CST			0	0			Hail (0.75)
<b>Pottawatomie County</b>									
Pink	17	2140CST			0	0			Hail (1.00)

Several severe thunderstorms developed over western Oklahoma during the afternoon of the 17th and tracked slowly eastward during the evening, before dissipating over central portions of Oklahoma. Four tornadoes accompanied the severe weather outbreak, with two of them resulting in F1 damage.

**OKZ007>008**

**Grant - Kay**

19 1800CST  
21 0600CST

0 0

Flood

Two days of periodic heavy rain fell across much of north central Oklahoma with rainfall amounts ranging from 2 to 4 inches. The excessive amounts of runoff generated by these rains caused rivers and creeks in Grant and Kay counties to rise to levels at or above flood stage. Some of these streams included the Salt Fork of the Arkansas River, the Chikaskia River, Pond Creek, and Spring Creek. Most river flooding lasted for one to two days, and the extent of most flooding was considered minor, as local roads and low-lying areas near these streams were briefly covered with shallow floodwaters.

One exception was the Chikaskia River at Blackwell, which crested at 31.9 feet the morning of the 20th, which was 2.9 feet above flood stage and considered moderate flooding. Some homes in northeastern Blackwell were isolated during the flood crest, and local roads including U.S. Highway 177 in Blackwell, Hubbard Road southeast of Blackwell, and Radio Tower Road east of Blackwell were closed by the floodwaters. Bender Road west of Braman was also closed by the Chikaskia River. Another exception was Pond Creek at Jefferson in Grant County, where some homes were also briefly isolated by floodwaters from the creek.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>OKLAHOMA, Western, Central and Southeast</u></b>									
<b>Grady County</b>									
2 E Middleberg	24	2055CST			0	0			Hail (0.75)
<b>Mcclain County</b>									
Blanchard	24	2102CST			0	0			Hail (0.75)
<b>Canadian County</b>									
3 N Yukon	24	2204CST			0	0			Hail (0.75)
<b>Oklahoma County</b>									
Oklahoma City	24	2230CST			0	0			Hail (0.75)
Hail was reported at NW 10th and Interstate 44.									
<b>Oklahoma County</b>									
Oklahoma City	24	2315CST			0	0			Hail (0.75)
Hail was reported at Shartel and Reno.									
<b>Oklahoma County</b>									
Oklahoma City	24	2315CST			0	0			Hail (0.88)
Hail was reported at Portland and Interstate 40.									
<b>Oklahoma County</b>									
Oklahoma City	24	2320CST			0	0			Hail (1.00)
Hail was reported at Britton Road and Sooner Road.									
<b>Oklahoma County</b>									
Oklahoma City	24	2320CST			0	0			Hail (0.88)
Hail was reported at 63rd and Sooner Road.									
<b>Oklahoma County</b>									
Oklahoma City	24	2327CST			0	0			Hail (1.00)
Hail was reported at the county emergency operations center at 63rd and Midwest Blvd.									
<b>Oklahoma County</b>									
Jones	24	2338CST			0	0			Hail (0.88)
<b><u>OREGON, Central and East</u></b>									
<b>ORZ044 Lower Columbia Basin</b>									
05	1059PST				0	0			High Wind (G52)
1343PST									
A peak wind gust to 60 MPH was recorded two miles south of Umatilla. In addition, a gust to 58 MPH was recorded three miles southwest of Irrigon.									
<b>ORZ042 North Central Oregon</b>									
06	1030PST				0	0			High Wind (G57)
1230PST									
A peak wind gust to 65 MPH was measured by an anemometer 13 miles NNE of Terrebonne.									
<b>ORZ042 North Central Oregon</b>									
07	1037PST				0	0			High Wind (G53)
A peak wind gust to 61 MPH was measured by an anemometer 13 miles NNE of Terrebonne.									
<b>ORZ047 John Day Basin</b>									
16	2130PST				0	0			Heavy Snow
17 0500PST									
An estimated seven to ten inches of snow fell in the city of Prairie City, where the majority of the snow fell before 2:00 AM. Areas immediately surrounding Prairie City lost power anywhere from two to 12 hours. There was no snow on the ground three miles west of Prairie City and in John Day.									
<b><u>OREGON, Northwest</u></b>									
<b>ORZ011 Northern Oregon Cascades</b>									
04	1800PST				0	0			Heavy Snow
08 1000PST									
A series of strong, wet Pacific frontal systems with low snow levels deposited copious amounts of new snow on the North Oregon Cascades. Total new snow fall accumulations for the 4 days of storms include 63 inches at Timberline Lodge, 53 inches at Mt Hood Meadows, 52 inches at Government Camp and White River, 50 inches at Bennett Pass, and 31 inches at Blue Box Pass, all on Mt Hood, and 41 inches at Santiam Pass 41.									
<b>Benton County</b>									
Countywide	07	0600PST			0	0			Heavy Rain
1800PST									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **OREGON, Northwest**

### **Clackamas County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Clatsop County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Columbia County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Hood River County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Lane County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Lincoln County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Linn County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Marion County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Multnomah County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Polk County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Tillamook County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Washington County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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### **Yamhill County**

Countywide	07	0600PST 1800PST			0	0			Heavy Rain
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An intense Pacific storm brought widespread heavy rains to Northwest Oregon. Mapleton recorded 3.60 inches, Bonneville 2.90 inches, Lee's Camp, Summit and Scotts Mill each 2.70 inches, Rainbow 2.50 inches and Tillamook 2.23 inches. Many locations reported 1 to 2 inches of rain. These heavy rains were responsible for a landslide that blocked Highway 101 near Cape Cove, south of Heceta Head.

## **ORZ001>002**

### **Northern Oregon Coast - Central Oregon Coast**

08	1200PST	0	0	High Wind (G56)
09	1500PST			

Winds at Garibaldi reached 53 mph, Florence 42 mph, Newport Jetty gusts to 55 mph and Sea Lion Caves gusts to 64 mph.

## **ORZ001>002**

### **Northern Oregon Coast - Central Oregon Coast**

11	1400PST	0	0	High Wind (G70)
13	1200PST			

Sea Lion Caves recorded gusts to 80 mph, Florence 56 mph with gusts to 70 mph, Newport Jetty 44 gusts to 69 mph, Sunset Beach 51 gusts to 72 mph, Seaside gusts to 53 mph, Cannon Beach gusts to 59 mph and Garibaldi 41 gusts to 68 mph.

## **ORZ001>002**

### **Northern Oregon Coast - Central Oregon Coast**

12	0600PST	0	0	Heavy Surf/High Surf
13	1800PST			

Buoy 29, near the mouth of the Columbia River, reported seas to 30 feet and Buoy 50, near Newport, reported seas to 32 feet.

## **ORZ011**

### **Northern Oregon Cascades**

20	2100PST	0	0	Heavy Snow
21	1200PST			

# Storm Data and Unusual Weather Phenomena

March 2003

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

## OREGON, Northwest

Timberline measured 8 inches of snow, Mt Hood Meadows and Tombstone Summit 6 inches each.

### **Benton County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Clackamas County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Clatsop County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Columbia County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Hood River County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Lane County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Lincoln County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Linn County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Marion County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Multnomah County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Polk County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Tillamook County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Washington County**

Countywide	20	2200PST			0	0			Heavy Rain
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### **Yamhill County**

Countywide	20	2200PST			0	0			Heavy Rain
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Heavy rains once again moved into Northwest Oregon. In 24 hours, 4.50 inches of rain fell at Laurel Mt., 3.60 inches at Francis, 3.77 inches at Three Lynx Creek, and 3.40 inches at Mapleton. Many stations reported 1 to 3 inches during the same 24 hour period. Over 36 hours Lee's Camp recorded 5.40 inches, Francis 4.70 inches, Mapleton 4.60 inches, Detroit 4.20 inches and Grande Ronde 4.10 inches.

## **ORZ002**

### **Central Oregon Coast**

21	0300PST			0	0			High Wind (G60)
22	0600PST							

Sea Lion Caves reported gusts to 69 mph and Florence gusts to 55 mph.

## **ORZ011**

### **Northern Oregon Cascades**

25	1400PST			0	0			Heavy Snow
26	1400PST							

During the 24 hour period Timberline received 16 inches of snow, Mt Hood Meadows 14 inches, Bennett Pass 11 inches, Santiam Pass 10 inches, Government Camp and Willamette Pass 5 inches each.

## OREGON, Southeast

## **ORZ061**

### **Harney**

17	0600MST			0	0			Winter Storm
	1100MST							

A very localized weather system over northern Harney County dropped 4 to 16 inches of snow.

## OREGON, Southwest

## **ORZ021-021>022**

### **South Central Oregon Coast - Curry County Coast**

09	0200PST			0	0			High Wind (G65)
	0700PST							

Cape Blanco recorded a sustained wind of 55 mph.

The above winds were the highest sustained winds and gusts recorded at these stations that met High Wind Warning criteria. Cape Blanco met or exceeded the criteria for 10 consecutive hours from 2300 PST on 3/6 to 0900 PST on 3/7. However, no warning was issued for this event, so it counts as a missed event.



# Storm Data and Unusual Weather Phenomena

March 2003

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

**ORZ030-030-030>031-031 Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County**

**12 2300PST 0 0 High Wind (G72)**  
**13 1100PST**

Calimus RAWS recorded sustained winds of 40 mph during this two hour stretch.

A High Wind Warning was issued for Oregon zones ORZ029/030/031 and California zones CAZ084/085 at 0523 PST on 03/13 and expired at 1517 PST on 03/13. The above observations verified the warning and are the highest recorded at those locations, but both locations are on ridges. The highest winds were also recorded before the warning went into effect, although verifying winds also occurred while it was. Warning verifying winds likely did not occur in the valleys.

**ORZ021-021-021-021>022-022 South Central Oregon Coast - Curry County Coast**

**13 0200PST 0 0 High Wind (G96)**  
**0400PST**

Cape Arago recorded a sustained wind of 51 mph.

A High Wind Warning was issued for Oregon zones ORZ021/022 at 1445 PST on 03/11/03 and cancelled at 2100 PST on 03/13. During this event Cape Blanco, Gold Beach, and Cape Arago all recorded numerous observations verifying the warning. The highest winds recorded at each sensor are listed above. In fact, Cape Blanco exceeded warning criteria for 22 consecutive hours, from 1600 PST on 03/12/03 to 1400 PST on 03/13. After a two hour lull, it again exceeded criteria for three more consecutive hours, from 1700 PST to 2000 PST on 03/13.

**ORZ021-021>022 South Central Oregon Coast - Curry County Coast**

**14 1600PST 0 0 High Wind (G81)**  
**2200PST**

Cape Blanco sustained winds were at least 44 mph during this stretch.

A High Wind Warning was issued for Oregon zones ORZ021/022 at 1517 PST on 03/13 and expired at 0501 on 03/15. The above observations verified the warning.

**ORZ021-021-021>022 South Central Oregon Coast - Curry County Coast**

**22 0300PST 0 0 High Wind (G67)**  
**0700PST**

Cape Blanco recorded sustained winds at or exceeding 41 mph during this four hour period. The highest sustained wind speed was 55 mph.

A High Wind Warning was issued for the headlands of Oregon zones ORZ021/022 at 1432 PST on 03/21 and cancelled at 0820 PST on 03/22. The above observations verified the warning. In the case of gusts, only the strongest gust at each location was recorded.

## PACIFIC

**GUZ006**

**Guam**

**11 1000SST 0 0 Flood**  
**1400SST**

Heavy rain drenched part of the island. An intermittent downpour caused flooding in parts of central Guam, forcing pedestrians to skip over streams of water, and congesting traffic on deluged roads. Two inches of rain fell between 1000 and 1600 at the National Weather Service Office in Tiyan with 0.70 inches of that between 1400 and 1500. A weather observer in Agana Heights recorded 0.97 inches fall between 1015 and 1045. The total rainfall for the day at the National Weather Service Office was 2.03 inches, which was record for the day. The heavy rain was the result of moisture south of a shear line in the vicinity of Guam being heated during

## PENNSYLVANIA, Central

**PAZ066**

**Lancaster**

**06 1200EST 0 0 Flood**  
**1715EST**

Warm temperatures, leading to snowmelt, combined with a light rain, caused Little Chickies Creek at Mt. Joy to exceed its banks during the afternoon of March 6th. Automated IFLOWS gages indicated the stream crested at 9.4 feet, well above the established flood stage of 8.0 feet.

**Lancaster County**

**Mt Joy**

**09 1645EST 0 0 Flash Flood**  
**2030EST**

Significant snowmelt, combined with an ice jam, caused a rapid rise on Little Chickies Creek near Mount Joy. The automated IFLOWS gage showed a sharp rise to above established flood stage at 4:45 pm LST. The water level in the creek quickly subsided as runoff ended with the onset of nightfall.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## **PENNSYLVANIA, Central**

**PAZ046-052**

### **Southern Lycoming - Northumberland**

<b>20</b>	<b>2000EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>22</b>	<b>1000EST</b>			

Rainfall of three quarters to 1 inch caused the West Branch Susquehanna at Montgomery to exceed its flood stage of 17.0 feet. The river exceeded flood stage at 20:00 EST on Thursday March 20th, crested at 18.5 feet at 21:00 EST on the 21st, then fell below flood stage at 10:00 EST on the 22nd.

**PAZ063-065**

### **Cumberland - York**

<b>20</b>	<b>2315EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>21</b>	<b>1045EST</b>			

Rainfall of over 1 inch caused the Yellow Breeches Creek at Camp Hill to exceed its flood stage of 7.0 feet. The river exceeded flood stage at 23:15 EST on Thursday March 20th, crested at 7.71 feet at 05:30 EST on the 21st, then fell below flood stage at 10:45 EST on the 21st. Only minor flooding was reported, with several roads closed along the creek in the Carlisle area.

**PAZ059**

### **Lebanon**

<b>21</b>	<b>0100EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
	<b>1815EST</b>			

Rainfall of over 1 inch caused the Swatara Creek at Harper Tavern to exceed its flood stage of 9.0 feet. The river exceeded flood stage at 01:00 EST on Friday March 21st, crested at 10.39 feet at 11:00 EST on the 21st, then fell below flood stage at 18:15 EST on the 21st. Only minor flooding of low lying areas was reported.

**PAZ063**

### **Cumberland**

<b>21</b>	<b>1445EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>22</b>	<b>1045EST</b>			

Rainfall of over 1 inch caused the Conodoguinet Creek at Hogestown to exceed its flood stage of 8.0 feet. The river exceeded flood stage at 14:45 EST on Friday March 21st, crested at 8.37 feet at 01:30 EST on the 22nd, then fell below flood stage at 10:45 EST on the 22nd. Only minor flooding of low lying areas was reported.

**PAZ018-024>025-033>034-037-042**

### **Northern Centre - Cambria - Blair - Somerset - Bedford - Tioga - Sullivan**

<b>30</b>	<b>0400EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1800EST</b>			

On Sunday, March 30th, a low pressure system formed on a cold front and lifted northeast toward the mid Atlantic coast. An area of snow developed to the northwest of this low, and spread across central Pennsylvania during the early morning hours. The snow continued, heavy at times, through the early afternoon hours before tapering off. Snowfall accumulations ranged from 6 to 7 inches across higher elevations of the area, with slightly lower amounts within valley locations.

## **PENNSYLVANIA, East**

**PAZ054>055**

### **Carbon - Monroe**

<b>01</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>	<b>Winter Weather/Mix</b>
<b>02</b>	<b>1100EST</b>			

A weak low pressure system that developed in the Gulf of Mexico and a high pressure system over nearby New England and Canada combined to produce a wintry mix of precipitation across the Poconos. Precipitation started as a freezing rain and light snow mixture during the afternoon of the 1st. It ended during the evening of the 1st, but started again as light freezing rain during the pre-dawn on the 2nd. Temperatures rose through the morning and precipitation changed to plain rain by late in the morning on the 2nd. Both the snowfall (less than one inch) and freezing rain (less than one-tenth of an inch) accumulations were light, but made for very hazardous driving conditions on untreated roads. About a dozen accidents were reported in Monroe County during the evening rush on the 1st. Five of them were reported at the juncture of Interstates 80 and 380 in Jackson Township. The low pressure system responsible for the precipitation developed in the Gulf of Mexico on the 1st. Moisture pushed over its warm front arrived that afternoon. A high pressure system over nearby New England left enough cold air in place near the surface for precipitation to begin as either snow or freezing rain. The low quickly moved off the North Carolina coast on the morning of the 2nd. The high pressure system by then was offshore and this permitted warmer air to move in near the surface from the southeast changing the freezing rain to plain rain.

**PAZ054>055-060>062**

### **Carbon - Monroe - Berks - Lehigh - Northampton**

<b>05</b>	<b>0600EST</b>	<b>0</b>	<b>0</b>	<b>Winter Weather/Mix</b>
	<b>0900EST</b>			

Rain with pockets of freezing rain in the valleys occurred during the morning commute on the 5th in Berks County, the Lehigh Valley and the Poconos. Precipitation began as light rain before dawn on the 5th. Evaporational cooling dropped temperatures at or below the freezing mark (32 degrees) during the morning commute. There was no high pressure system to lock in the cold air, so temperatures rose above the freezing mark by the middle of the morning in all areas. Ice accretions were light (less than one tenth of an inch), but untreated roadways were hazardous. Precipitation developed in advance of a cold front that was located in the Great Lakes during the morning of the 5th.

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>PENNSYLVANIA, East</b>									
<b>PAZ054</b>		<b>Carbon</b>							
	<b>06</b>	<b>0500EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
		<b>1900EST</b>							
<b>PAZ055</b>		<b>Monroe</b>							
	<b>06</b>	<b>0500EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>1900EST</b>							
<b>PAZ060&gt;062-067&gt;071</b>		<b>Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia</b>							
	<b>06</b>	<b>0600EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather/Mix</b>
		<b>1800EST</b>							
<p>A low pressure system that formed on a slow moving cold front brought heavy snow to the Poconos and a wintry transition from rain to sleet, freezing rain and then snow across most of the rest of Eastern Pennsylvania. Accumulations averaged around 6 inches in the Poconos, 1 to 3 inches in Berks County and the Lehigh Valley and an inch or less around the greater Philadelphia Metropolitan Area. Precipitation started as snow across most of the Poconos just before dawn on the 6th. It fell heavy at times from the middle of the morning into early afternoon. The snow ended during the early evening. Across the Lehigh Valley precipitation started as rain around 3 a.m. EST. As colder air moved into the system, precipitation changed to freezing rain during the morning commute and then to snow toward the end of the morning commute. Snow continued until it ended toward evening. The snow fell briefly heavy around Noon EST. In Berks County and the Philadelphia northwest suburbs, precipitation started as rain between 2 a.m. and 3 a.m. EST. It started to mix with and change to sleet during the morning commute from north to south. Precipitation then changed to snow during the second half of the morning. It mixed with sleet from time to time toward Philadelphia. Precipitation ended toward evening. In Philadelphia and Delaware Counties precipitation started as rain around 2 a.m. EST. Sleet started to mix in during the second half of the morning. Precipitation then changed to just sleet around Noon EST and then a mixture of light freezing rain, sleet and snow for the rest of the afternoon before it ended around 6 p.m. EST. Even though temperatures were below freezing, the indirect insolation from the sun kept most roadways in and around Philadelphia wet when the freezing rain fell. Ice accretions on exposed surfaces, mainly those with northern exposures, were less than one-quarter of an inch. The worst reported road conditions were in the Lehigh Valley where slick roads caused dozens of accidents. There were five collisions alone along Pennsylvania State Route 512 in Northampton County. Cars, vans, tractor trailers and mail trucks drove off roads.</p>									
<p>Specific snow and sleet accumulations included 8.3 inches in East Stroudsburg (Monroe County), 6.5 inches in Hamilton Township (Monroe County), 6.4 inches in Bossardville (Monroe County), 6.2 inches in Albrightsville (Carbon County), 6.0 inches in Pocono Summit (Monroe County), 3.0 inches in Easton (Northampton County) and Lehighton (Carbon County), 2.5 inches in Forks Township (Northampton County), 1.8 inches at the Lehigh Valley International Airport, 1.4 inches in Springtown (Bucks County), 1.0 inch in Palm (Montgomery County) and Bechtelsville (Berks County), 0.7 inches in Furlong (Bucks County) and 0.5 inches in Glenmoore (Chester County). A cold front slowly moved through Eastern Pennsylvania during the night of the 5th before stalling in the Delmarva Peninsula during the morning of the 6th. A weak low pressure system developed along the frontal boundary and was in West Virginia during the morning of the 6th. As the low pressure system moved southeast of the region during the afternoon and evening of the 6th, it pulled the cold front farther south and ended the precipitation. The other player was a high pressure system which built east from the upper Mississippi Valley the morning of the 5th into Ontario Province the morning of the 6th. This high pressure system supplied fresh cold air and helped change precipitation from liquid to frozen across the region.</p>									
<b>PAZ054&gt;055</b>		<b>Carbon - Monroe</b>							
	<b>13</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather/Mix</b>
		<b>1900EST</b>							
<p>A couple of inches of snow accumulated across the Poconos as a fast moving low pressure system moved across the central part of the country. Precipitation began as rain around noon EST, but changed to snow during the first half of the afternoon. The snow fell briefly heavy just after that transition and ended during the early evening. Accumulations averaged near 3 inches and included 3.0 inches in Pocono Summit (Monroe County), 2.9 inches in Bossardville (Monroe County), 2.7 inches in East Stroudsburg (Monroe County) and 2.4 inches at the F.E. Walter Dam (Carbon County). A cold front sank slowly south through Pennsylvania during the night of the 12th. Similar to last week, a low pressure system developed on the frontal boundary in the Ohio River Valley on the 13th and moved east passing off the southern Middle Atlantic Coast by that evening. At the same time, a high pressure system built into Ontario Province Canada. This provided fresh cold air and changed the rain to snow.</p>									
<b>PAZ054&gt;055</b>		<b>Carbon - Monroe</b>							
	<b>19</b>	<b>2330EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather/Mix</b>
	<b>20</b>	<b>1500EST</b>							
<p>Light freezing rain fell in valley sections of the Poconos from the late evening of the 19th into the afternoon of the 20th. Schools had delayed openings on the 20th in Monroe County. Untreated roads were perilous. An intense low pressure system moved from Oklahoma the morning of the 19th, to Arkansas the morning of the 20th and into the Great Lakes on the 21st. While a high pressure system initially brought cold, dry air near the surface, it moved from New England on the 19th into the western Atlantic by the morning of the 20th. The Atlantic Ocean trajectory brought warmer air near the surface into the Poconos during the day on the 20th and rose temperatures above the freezing mark. Ice Accretions prior to the changeover were generally less than one-tenth of an inch.</p>									
<b>PAZ067-070</b>		<b>Chester - Delaware</b>							
	<b>20</b>	<b>2218EST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>21</b>	<b>0038EST</b>							

# Storm Data and Unusual Weather Phenomena

March 2003

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

## PENNSYLVANIA, East

A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico produced heavy rain during the second half of the day on the 20th across southeast Pennsylvania. Soil conditions remained moist due the combination of above normal precipitation and snow melt earlier in the month. The combination produced minor river flooding along the Chester Creek (Delaware County) and the Brandywine Creek (Chester County) on the 20th and 21st. Chester Creek in Chester was above its 8 foot flood stage from 1018 p.m. EST through 1105 p.m. EST on the 20th. It crested at 8.06 feet at 1045 p.m. EST. The East Branch of the Brandywine Creek in Downingtown was above its 7 foot flood stage from 1126 p.m. EST on the 20th through 1238 a.m. EST on the 21st. It crested at 7.02 feet at 1145 p.m. EST on the 20th. Storm totals included 2.70 in Springfield Township (Delaware County), 2.19 inches in Chadds Ford (Delaware County), 1.72 inches in West Chester (Chester County), 1.70 inches in Honey Brook (Chester County), 1.68 inches in Glenmoore (Chester County) and 1.41 inches at the Philadelphia International Airport. The low pressure system moved from Oklahoma the morning of the 19th, to Missouri the morning of the 20th and into the Great Lakes the morning of the 21st. Its associated warm front moved from the Gulf Coast States the morning of the 20th into New Jersey and Pennsylvania the morning of the 21st. The heavy rain preceded this feature.

### PAZ070>071

#### **Delaware - Philadelphia**

21	0100EST 0500EST		0	0	0	Astronomical High Tide
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The combination of southeast winds up the Delaware Bay and runoff from heavy rain produced minor tidal flooding around the time of the early morning (21st) high tide along the Delaware River and tidal sections of its tributaries. The highest tide in Philadelphia reached 8.61 feet above mean lower low water. Minor tidal flooding begins at 8.2 feet above mean lower low water.

### Bucks County

Langhorne to  
Yardley

21	1621EST 1630EST		0	0		Hail (2.00)
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A severe thunderstorm dropped a swath of large hail from Bensalem northeast through Yardley in southern Bucks County. Hail as large as hen eggs fell in Yardley. Golf ball size hail was reported in Levittown and Bensalem and quarter size hail was reported in Morrisville.

## PENNSYLVANIA, Northeast

### PAZ048

#### **Pike**

06	1600EST 1800EST		0	0	50K	Heavy Snow
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A fast moving low pressure system went from Kentucky to the middle Atlantic coast on the 6th. This storm spread precipitation north ahead of it. Only snow fell across Pike County which started between 5 and 7 AM. Heavy snow fell between 9 AM and 2 PM before ending by 6 PM. County snow amounts were from 8 inches in the south to 6 inches in the north.

### PAZ038-047

#### **Bradford - Luzerne**

21	0113EST		0	0	100K	Flood
26	1900EST					

Mild temperatures starting on the 15th caused winter snow to melt. Overnight temperatures mainly in the 20s and 30s slowed the snowmelt down each night. The larger rivers began rising on the 17th. Rain fell on the 20th with basin averaged amounts ranging from three quarters of an inch to an inch and a half. This rain, combined with the snow melt, brought several forecast points on the Susquehanna over their flood stages. The Susquehanna River at Waverly, NY and Sayre, PA reached flood stage of 11 feet on the 21st, crested at 14.17 feet on the 23rd then fell below flood stage on the 26th. The Susquehanna River at Wilkes-Barre reached flood stage of 22 feet on the 22nd, crested at 22.85 feet also on the 22nd, then fell below flood stage on the 23rd. Flooding was minor to moderate. The Susquehanna River at Meshoppen and Towanda, which are between Sayre and Wilkes-Barre, crested just below flood stage on the 22nd. Flooding at Sayre and Wilkes-Barre on the Susquehanna River was minor.

## PENNSYLVANIA, Northwest

### PAZ003

#### **Crawford**

08	1930EST 2130EST		0	0	75K	Strong Wind
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A cold front moved across northwestern Pennsylvania during the evening hours. Showers and strong winds accompanied this front. Wind gusts in excess of 50 mph downed at least two dozen trees in Crawford County. Scattered power outages were also reported. A peak gust of 53 mph was recorded at the Meadville Airport at 8:32 p.m.

## PENNSYLVANIA, West

### PAZ007>008-013>015- 020>023-029>030-032

#### **Mercer - Venango - Lawrence - Butler - Clarion - Beaver - Allegheny - Armstrong - Indiana - Washington - Westmoreland - Fayette**

08	2110EST 2302EST		0	0		High Wind (G55)
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High winds blew down trees and power lines in Uniontown, Marion Center, Portersville, Derry, Upper Burrell, Barkeyville, Coraopolis, New Castle, Evans City, Limestone, Elders Ridge, Ohioville, Canonsburg, and Sharon.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## PUERTO RICO

### PRZ010

#### Mayaguez And Vicinity

01 0000AST 0 0 Drought  
31 0000AST

Coffee farmers in western Puerto Rico, Barrio Rio Cañas, indicated that dry spell has impacted the coffee trees and they have have not bloomed.

### Western Interior

#### Maricao

16 1200AST 0 0 3.6M Wildfire  
19 0000AST

The lack of significant rainfall in the Maricao State Forest during the month of March, typical of this time of the year, contributed to the dry conditions which helped fuel a forest fire which burned 296 acres during a period of four days. Over a 100,00 gallons of water were used to control the wild fire. Flora and fauna was severely impacted. The western interior region of Puerto Rico showed a rainfall deficiency of around 85 percent through the last two weeks of February through the first two weeks of March 2003.

### Mayaguez And Vicinity

#### Aguada

29 1238AST 1 0 Rip Current

Four persons were overtaken by a strong current at the beach in Barrio Guaniquilla in Aguada. Three were rescued by fishermen, one drowned. M361W

### PRZ001

#### San Juan And Vicinity

29 1330AST 0 0 Flood  
1400AST

Scattered to numerous showers developed across the inland sections of the San Juan metropolitan area, inland Carolina, Trujillo Alto, Bayamon and Guaynabo. Doppler radar estimated heavy rainfall accumulations of 2 to 4 inches. Urban and small stream flooding was reported along road 176 in Cupey Bajo sector of San Juan, when a small stream, washed over the road for a small period of time. An NWS spotter in Rio Piedras reported 3.49 inches of rain during the afternoon.

## RHODE ISLAND

### RIZ001>007

#### Northwest Providence - Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport

06 1100EST 0 0 290K Winter Storm  
2000EST

A fast moving winter storm passing south of New England brought heavy snow to Rhode Island, where totals of 6 to 10 inches were common. Although dozens of minor accidents were reported as a result of poor visibility and slippery roads, the overall impact of this late season storm was far less on the Ocean State than to areas in adjacent southeast Massachusetts.

Officially, 5.0 inches of snow was reported at T.F. Green State Airport in Warwick. Other snowfall totals as reported by trained spotters included 9 inches in Cumberland, Portsmouth, and Westerly; 8 inches in Cranston, North Foster, Burrillville, Coventry, West Warwick, and Tiverton; and 7 inches in Johnston, downtown Providence, and North Kingstown.

### Bristol County

#### Countywide

29 1800EST 0 0 Heavy Rain  
30 1700EST

### Kent County

#### Countywide

29 1800EST 0 0 Heavy Rain  
30 1700EST

### Newport County

#### Countywide

29 1800EST 0 0 Heavy Rain  
30 1700EST

### Providence County

#### Countywide

29 1800EST 0 0 Heavy Rain  
30 1700EST

### Washington County

#### Countywide

29 1800EST 0 0 Heavy Rain  
30 1700EST

Low pressure tracking from the mid Atlantic states to Cape Cod brought heavy rain to Rhode Island, where totals of 2 to 3 inches were common. Despite the heavy rainfall, no serious flooding was reported, aside from the usual minor urban and poor drainage flooding.

The storm total at T.F. Green State Airport in Warwick was 2.08 inches. Other rainfall totals as reported by trained spotters included 2.68 inches in Tiverton, 2.51 inches in Newport, 2.32 inches in downtown Providence, and 2.27 inches in North Kingstown.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>SOUTH CAROLINA, Central</u></b>									
<b>Newberry County</b>									
6 E Silverstreet	06	0036EST 0037EST			0	0	0	0	Hail (0.75)
Post Office reported 3/4 inch hail occurred east of Silverstreet.									
<b>Lexington County</b>									
Edmund	06	0038EST 0039EST			0	0	0	0	Hail (0.75)
SKYWARN spotter reported 3/4 inch hail at hwys 6 and 302 in Edmund.									
<b>Aiken County</b>									
Jackson to 7 ENE Jackson	20	0018EST 0033EST			0	0	0	0	Thunderstorm Wind (G50)
Sheriff reported trees down in the southeast part of the county near the SRS.									
<b>Barnwell County</b>									
Williston	20	0030EST			0	0	0	0	Hail (0.75)
Public called and reported dime size hail near Williston.									
<b>Orangeburg County</b>									
2 W Orangeburg	20	0126EST			0	0	0	0	Hail (0.75)
EM reported 3/4 inch hail.									
<b>Orangeburg County</b>									
4 W North	20	0530EST			0	0		0	Thunderstorm Wind (G50)
EM reported trees down on hwy 178 west of North.									
<b>Calhoun County</b>									
8 NW St Matthews	20	0545EST			0	0	0	0	Hail (0.75)
Fire dept reported 3/4 inch hail									
<b>Aiken County</b>									
Aiken	20	0550EST			0	0		0	Thunderstorm Wind (G60)
Sheriff reported numerous trees down in Aiken.									
<b>Richland County</b>									
Gadsden	20	0617EST			0	0	0	0	Hail (0.75)
Post Office reported 3/4 inch hail.									
<b>Barnwell County</b>									
Williston	20	0620EST			0	0		0	Thunderstorm Wind (G50)
Sheriff reported trees down on powerlines on hwy 39.									
<b>Sumter County</b>									
Shaw Afb	20	0655EST			0	0	0	0	Hail (1.00)
EM reported 1 inch hail around Shaw AFB on hwys 76 and 441.									
<b><u>SOUTH CAROLINA, North Coastal</u></b>									
<b>Darlington County</b>									
2 SE Darlington	06	0055EST			0	0			Hail (0.75)
Darlington 911 reported dime size hail.									
<b>Florence County</b>									
Florence	06	0100EST			0	0			Hail (0.75)
Television station reported dime size hail.									
<b>Dillon County</b>									
Oak Grove	06	0114EST			0	0			Hail (0.88)
Spotter reported nickel size hail at the intersection of Interstate 95 and Rt. 38.									
<b>Georgetown County</b>									
Georgetown	20	1100EST 1215EST			0	0			Flash Flood
Heavy rains fell on already saturated soil in Georgetown, flooding many city streets. Several downtown intersections were under two feet of water. A portion of U.S. 17 was closed, with traffic re-routed.									
<b><u>SOUTH CAROLINA, Northwest</u></b>									
<b>Oconee County</b>									
1 W Fair Play	06	0230EST			0	0	5K		Thunderstorm Wind (G65)
Winds estimated at 80 mph blew several tractor trailer trucks off of I-85 near the Georgia border.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<b><u>SOUTH CAROLINA, Northwest</u></b>									
<b>Anderson County</b>									
17 W Anderson	06	0231EST			0	0	5K		Thunderstorm Wind (G65)
Winds estimated at 80 mph blew tractor trailer trucks off of I-85 near the Oconee County border.									
<b>Anderson County</b>									
4 NW Belton	06	0300EST			0	0			Thunderstorm Wind (G50)
Two trees were blown down.									
<b>SCZ010</b>									
<b>Anderson</b>									
	06	0542EST			0	0	100K		Flood
1000EST									
Whitner Creek overflowed its banks in the city of Anderson, flooding portions of Sayre Street. Highways 172 and 252 were flooded in and around Belton. In Iva, several sewage lines broke as a result of an overflowing storm drainage system.									
<b>SCZ012</b>									
<b>Laurens</b>									
	06	0730EST			0	0			Flood
1200EST									
The Little River and a small tributary overflowed its banks in the city of Laurens, flooding some adjacent streets. The Bush River flooded near Joanna, rising to 2 feet above bankful. Indian Creek also flooded.									
<b>SCZ011</b>									
<b>Abbeville</b>									
	06	0800EST			0	0			Flood
1000EST									
A bridge over Blue Hill Creek was flooded in the city of Abbeville. Overflowing creeks flooded some roads just outside of town.									
<b>Abbeville County</b>									
Due West	19	1725EST			0	0			Hail (0.75)
<b>Anderson County</b>									
South Portion	19	2140EST			0	0			Flash Flood
20 0000EST									
Overflowing creeks flooded several roadways in and around Iva.									
<b>Greenville County</b>									
Tigerville	19	2155EST			0	0			Flash Flood
20 0400EST									
Several small streams, including Beaver Dam Creek, began overflowing their banks in the late evening, mainly across the northern half of the county. The flooding continued into the early morning of the 20th.									
<b>Pickens County</b>									
Southeast Portion	19	2230EST			0	0			Flash Flood
20 0600EST									
Streams and creeks began overflowing their banks during the late evening in Easley and surrounding areas. One creek flooded a subdivision near Powdersville. Several roads were covered by water from overflowing creeks in and around the city, including portions of highways 8, 123, and 186.									
<b>Anderson County</b>									
Anderson	19	2250EST			0	0			Flash Flood
20 0000EST									
Whitner Creek overflowed its banks, and several streets were flooded, including Broadway.									
<b>Greenville County</b>									
Greenville to Greer	19	2300EST			0	0			Flash Flood
20 0500EST									
Numerous small streams flooded in areas from downtown Greenville, to Taylors, to Greer. The Reedy River flooded portions of downtown, while flooding became quite significant by sunrise along Brushy and Rocky Creeks, as well as along upper portions of the Enoree River.									
<b>SCZ010</b>									
<b>Anderson</b>									
	20	0000EST			0	0			Flood
0600EST									
After heavy evening rainfall resulted in flash flooding along creeks and other small streams, moderating overnight rains allowed for a continued slow rise of water levels across the area. By morning, all of the flood prone areas in the city of Anderson, and some not considered flood prone, were covered with water									
<b>Oconee County</b>									
Fair Play to Seneca	20	0100EST			0	0			Flash Flood
0400EST									
Heavy early morning rains resulted in rapid rises and flooding of Conross Creek and other small streams across the southern part of the county.									

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003										
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
<b><u>SOUTH CAROLINA, Northwest</u></b>										
<b>Spartanburg County</b>										
North Portion	20	0100EST 0600EST			0	0				Flash Flood
Heavy early morning rainfall first led to rapid rises and flooding along creeks and streams in areas from Lyman, to Duncan, to Inman. However, as the night progressed, flooding expanded to include areas from Landrum, to Campobello, to Mayo, to Spartanburg. Flooding was most severe in the Pacolet River Basin, where numerous small streams and creeks flooded bridges and roads. Water began overflowing dams on Lakes Bowen and Blalock, prompting downstream evacuations. By sunrise, flooding was occurring along Fairforest and Lawson Fork Creeks in the city of Spartanburg.										
SCZ006		<b>Greater Greenville</b>								
	20	0400EST 1200EST			0	0				Flood
After heavy rainfall caused flash flooding in the Tigerville/Blue Ridge area on the evening of the 19th, moderating rains resulted in a slower increase in water levels, but continued and additional flooding across the area well into the morning.										
SCZ004		<b>Greater Oconee</b>								
	20	0400EST 0900EST			0	0				Flood
After heavy evening rains resulted in flash flooding in areas from Fair Play to Seneca, moderating rainfall contributed to slower rises of water levels, but continued and additional flooding across the area into the mid morning.										
SCZ006		<b>Greater Greenville</b>								
	20	0500EST 1500EST			0	0	1M			Flood
After heavy rain caused flash flooding during the late evening of the 19th, and the early morning of the 20th, moderating rainfall resulted in slower rises, but continued and additional flooding along many creeks and streams in areas from Berea, to Greenville, Taylors, and Greer, to Mauldin and Simpsonville. The flooding was quite significant in Berera, Taylors and Mauldin. In Berea, some residents had to be rescued via canoe from their homes.										
SCZ007		<b>Spartanburg</b>								
	20	0600EST			0	0	1M			Flood
	21	0600EST								
After the flash flooding caused by earlier heavy rain, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams across the county until the morning of the 21st. Most of the flooding was concentrated in the Enoree River Basin, and along the Pacolet and Tyger River systems. Flooding along Lawson's Fork Creek was described as the worst in 15 years, as bridges were washed out, yards were flooded, and some vehicles were submerged.										
SCZ005		<b>Greater Pickens</b>								
	20	0600EST 1200EST			0	0	200K			Flood
After earlier heavy rainfall resulted in development of flash flooding across parts of the county, moderating rainfall resulted in slower rises, but continued and additional flooding along creeks and streams, mainly across southern portions of the county. Some tributaries of the Saluda River were flooded. Sections of highways 8, 123, and 186 were flooded by adjacent streams. Flood waters entered some subdivisions.										
SCZ014		<b>Chester</b>								
	20	0730EST 1800EST			0	0				Flood
Overnight rain resulted in slow rises along creeks and streams, culminating in flooding that began during mid morning and lasted for much of the day.										
SCZ008		<b>Cherokee</b>								
	20	0800EST 1500EST			0	0				Flood
Persistent moderate rainfall combined with heavy upstream rainfall to produce slow rises along creeks and streams across the county overnight, culminating in flooding which began during mid-morning, and persisted until mid-afternoon. Thicketty and Little Thicketty Creeks flooded in the western part of the county, while urban flooding was reported in Gaffney.										
SCZ013		<b>Union</b>								
	20	0800EST 1800EST			0	0				Flood
Persistent moderate rainfall combined with heavy upstream rainfall to produce slow rises along creeks and streams across the county, culminating in flooding that began during the mid morning and persisted into the early evening. In the northwest part of the county, flooding developed along Fainforest and Lawson Fork Creeks, and along tributaries of the Pacolet River. Meanwhile, the Enoree River flooded in areas from just south of Cross Anchor to Whitmire. The Broad River flooded several locations in the eastern part of the county, and threatened to top the levee at Lockhart.										
SCZ012		<b>Laurens</b>								
	20	0800EST 2000EST			0	0				Flood



# Storm Data and Unusual Weather Phenomena

March 2003

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

An extended period of moderate rain combined with very heavy upstream rainfall to produce slow rises along rivers and streams, culminating in flooding that began during the mid-morning and continued until mid-evening. Most of the flooding was concentrated along the Enoree River and its tributaries. Eight horses required rescue due to flooding along Durbin Creek.

**SCZ009**

**York**

20 0900EST 0 0 100K Flood  
1500EST

Persistent overnight rainfall led to slow rises and eventual flooding along several creeks across the county that began during the late morning and persisted until mid-afternoon. Six residents required rescue from their flooded homes.

**SCZ006**

**Greater Greenville**

20 1200EST 0 0 Flood  
21 0600EST

Flooding continued across the county through the early morning of the 21st.

**SCZ001>003**

**Oconee Mountains - Pickens Mountains - Greenville Mountains**

30 0600EST 0 0 Winter Weather/Mix  
1200EST

Light snow fell during the morning across the mountains, and by noon had accumulated to as much as an inch in areas above 2500 feet.

## SOUTH CAROLINA, South Coastal

**Dorchester County**

Jedburg 20 0816EST 0 0 Hail (1.00)

**Charleston County**

Isle Of Palms 20 0830EST 0 0 Hail (1.00)

**Jasper County**

3 N Ridgeland 20 0940EST 0 0 Hail (0.88)

**Dorchester County**

Summerville 20 0820EST 0 0 Hail (0.88)

**SCZ044>045-050**

**Dorchester - Berkeley - Charleston**

20 1115EST 0 0 Flood  
1300EST

Rainfall on March 20th fell on saturated ground from the previous two days of rainfall. The additional rainfall caused ponding of water in some areas that caused numerous roads to become impassable for awhile. Several cars stalled due to water across roadways.

**Jasper County**

Ridgeland 20 2105EST 0 0 Hail (0.75)

**Berkeley County**

5 E Goose Creek 21 0325EST 0 0 Hail (1.25)

**SCZ043**

**Northern Colleton**

24 0830EST 0 0 Flood  
1600EST

The public reported flooding along the banks of the Edisto River. One house had water inside while several other stilted houses were surrounded by water. Several roads adjacent to the river were impassable.

## SOUTH DAKOTA, Central and North

**SDZ023**

**Deuel**

17 0800CST 0 0 Dense Fog

Dense fog played a role in the collision of a school bus and a pickup truck at an unmarked intersection three miles east of Bemis in Deuel county. Three students and both drivers received minor injuries. The pickup truck was a total loss and the school bus sustained ten to fifteen thousand dollars of damage.

## SOUTH DAKOTA, Southeast

**SDZ050-063>071**

**Gregory - Charles Mix - Douglas - Hutchinson - Turner - Lincoln - Bon Homme - Yankton - Clay - Union**

03 2100CST 0 0 Winter Weather/Mix  
04 1300CST

Snowfall of 3 to 6 inches slowed travel and indirectly resulted in several minor accidents. The snow had a very low moisture content.

## SOUTH DAKOTA, West

**SDZ001-024>025-028**

**Harding - Northern Black Hills - Northern Foot Hills - Central Black Hills**

17 2100MST 0 0 0 0 Winter Storm  
19 0300MST

A potent winter storm slowly moved across the central Rockies and through the northern Plains. Though much of the precipitation was in the form of rain across western South Dakota, some heavy snow fell across the higher elevations of the Black Hills. Rain began to fall across western South Dakota during the late afternoon and evening hours of the 17th. The rain slowly began to change over to snow

# Storm Data and Unusual Weather Phenomena

March 2003

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

## SOUTH DAKOTA, West

across the higher elevations of the Black Hills during the night and continued through the next day. Snowfall amounts across much of the northern and central Black Hills, as well as the northern foothills, were in the 3 to 6 inch range, with higher amounts at elevations above 5000 feet. Little or no snow was received across the remainder of western South Dakota. However, a prolonged period of freezing rain developed across extreme northwestern South Dakota during the morning hours of the 18th. The freezing rain accumulations created very slick roads and downed tree limbs across the area.

### **SDZ031-073**

#### **Pennington Co Plains - Southern Meade Co Plains**

<b>23</b>	<b>1123MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind (G63)</b>
	<b>1252MST</b>				

A cold front passed across western South Dakota during the morning hours. Just behind the front winds became locally sustained around 45 mph with gusts measured to 72 mph around Ellsworth AFB and the Rapid City area.

## TENNESSEE, Central

### **Marshall County**

#### **Southeast Portion**

<b>19</b>	<b>0735CST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
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Spotter reported quarter size hail.

### **Bedford County**

#### **Southeast Portion**

<b>19</b>	<b>0800CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G60)</b>
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Trees blown down on Normandy/Tullahoma Road.

### **Bedford County**

#### **4.7 E Wartrace**

<b>19</b>	<b>0800CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G60)</b>
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Strong winds blew down trees and utility lines on Knob Creek Road and Union Ridge Road.

### **Wilson County**

#### **6 E Lebanon**

<b>19</b>	<b>0900CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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Spotter reported dime size hail and winds gusting to 50 to 55 mph.

### **Putnam County**

#### **Silver Pt**

<b>19</b>	<b>1105CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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Dime size hail reported.

### **Dekalb County**

#### **Southwest Portion**

<b>19</b>	<b>1108CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G60)</b>
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Barn destroyed off Four Seasons Road. Report was by amateur radio.

### **Putnam County**

#### **Cookeville**

<b>19</b>	<b>1130CST</b>	<b>0</b>	<b>0</b>	<b>Flash Flood</b>
	<b>1400CST</b>			

EMA reported streets flooded in Cookeville and roads closed due to high water and debris.

### **Putnam County**

#### **3 N Cookeville**

<b>19</b>	<b>1140CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G65)</b>
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Law enforcement reported numerous trees down and roads blocked.

### **Coffee County**

#### **East Central Portion**

<b>19</b>	<b>1200CST</b>	<b>0</b>	<b>0</b>	<b>Flash Flood</b>
	<b>1400CST</b>			

TDOT reported creeks and roads flooded along Rock Road.

### **Putnam County**

#### **4 W Cookeville**

<b>19</b>	<b>1210CST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
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THP reported quarter size hail.

### **Warren County**

#### **Mc Minnville**

<b>19</b>	<b>1220CST</b>	<b>0</b>	<b>0</b>	<b>Hail (1.00)</b>
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Spotter reported quarter size hail.

### **Warren County**

#### **Rock Is**

<b>19</b>	<b>1245CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G65)</b>
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Trained spotter reported numerous trees down covering the roadway.

### **Warren County**

#### **Rock Is**

<b>19</b>	<b>1245CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G70)</b>
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Amateur radio reported trees blown down at Rock Island State Park.

### **Pickett County**

#### **Byrdstown**

<b>19</b>	<b>1250CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G70)</b>
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Trained spotter reported several boats destroyed.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## TENNESSEE, Central

### Dekalb County

Smithville	19	1300CST 1415CST			0	0			Flash Flood
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EMA office reported water over roads and streets in Smithville.

### Pickett County

Countywide	19	1300CST 1415CST			0	0			Flash Flood
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TDOT reported minor flooding on secondary roads across the county.

### Pickett County

Byrdstown	19	1306CST			0	0			Hail (1.00)
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Quarter size hail reported by trained spotter.

### Fentress County

Jamestown	19	1400CST			0	0			Hail (1.00)
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Spotter reported quarter size hail.

### Fentress County

2 S Jamestown	19	1408CST			0	0			Hail (1.00)
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Quarter size hail reported.

### Putnam County

6.2 SW Cookeville to 8.1 NNE Cookeville	19	1109CST 1125CST	12.2	440	1	1	100K		Tornado (F1)
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The tornado touched down 1.5 miles east of exit #280 on I-40. The tornado continued for about 12.2 miles. One person was killed, and another person was injured inside a mobile home on Pippin Road and near Anderson Rd. The time of the fatality was around 11:15 AM CST. The storm ripped the trailer loose from its anchors and flung it over on its side at least 100 feet from its foundation. Numerous trees and power lines were down. The fallen trees and power lines blocked many roads. A total of 67 properties in the Pippin area reported damage. There was damage to houses, barns, trailers, garages, sheds, and at least one church. In the Buffalo Valley Road area, the tornado destroyed a barn and uprooted several huge trees.

All six sirens in Cookeville sounded for the tornado warning, which was issued at 10:58 AM CST.  
M75MH

### Warren County

4.3 NE Mc Minnville to 4.8 NE Mc Minnville	19	1242CST 1243CST	0.5	200	0	1	10K		Tornado (F1)
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One trailer was destroyed at the junction of Hwy 70 and Hwy 30. One person was injured in the trailer. Trees were down, barns and sheds were destroyed. There was damage to the Stanley Hillis Trucking Company building. The building was located at 5493 Sparta Highway in Rock Island. This storm complex moved into White county and spawned a tornado.

### White County

5.3 SW Sparta to 2.9 W Sparta	19	1250CST 1255CST	3.6	200	0	0	10K		Tornado (F1)
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The tornado uprooted and downed trees and power lines. Brock's Stable suffered damage to an old barn, where the back section was destroyed.

### Fentress County

1.8 S Jamestown	19	1408CST	0.1	20	0	0			Tornado (F0)
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Trained spotter reported a tornado near the Farm Coop Store on U.S. Highway 127.

## TENNESSEE, East

### Hamilton County

East Ridge	19	1055EST			0	0			Hail (0.75)
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3/4 inch hail was reported at East Ridge.

### Meigs County

Central Portion	19	1140EST			0	0	15K		Thunderstorm Wind (G60)
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Numerous trees were reported down across the central and southern half of the county.

### Meigs County

Decatur	19	1200EST			0	0			Thunderstorm Wind (G88)
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Nickel size hail was reported at Decatur.

### Anderson County

Oak Ridge	19	1315EST			0	0			Hail (0.75)
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3/4 inch hail was reported at Oak Ridge.

### Polk County

Ocoee	19	1750EST			0	0			Hail (0.75)
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3/4 inch hail was reported at Ocoee.

# Storm Data and Unusual Weather Phenomena

March 2003

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

## TENNESSEE, West

NONE REPORTED.

## TEXAS, Central

NONE REPORTED.

## TEXAS, Central Southeast

### Chambers County

Mont Belvieu	13	1250CST 1430CST			0	0	5K		Flash Flood
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Street Flooding in and around Mont Belvieu.

### Montgomery County

Magnolia	13	1609CST			0	0	6K		Hail (0.75)
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### Montgomery County

8 SW Conroe	13	1656CST			0	0	6K		Hail (0.75)
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### Waller County

Brookshire	13	1800CST			0	0	5K		Hail (0.75)
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### Austin County

2 E Sealy	13	1830CST			0	0	5K		Hail (0.75)
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### Fort Bend County

Simonton	13	1920CST			0	0	7K		Hail (0.75)
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### Wharton County

Wharton	13	1930CST			0	0	9K		Hail (1.75)
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### Wharton County

Wharton	13	1945CST			0	0	6K		Hail (1.00)
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### Wharton County

Wharton	13	1950CST			0	0	6K		Hail (1.00)
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### Matagorda County

2 W Markham	13	2040CST			0	0	4K		Hail (0.75)
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### Matagorda County

Midfield	13	2100CST			0	0	7K		Hail (1.75)
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### Matagorda County

5 SE Blessing	13	2125CST			0	0	5K		Hail (1.75)
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### Jackson County

La Ward	13	2154CST			0	0	5K		Hail (1.75)
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### Houston County

Crockett	18	1035CST			0	0	3K		Thunderstorm Wind (G52)
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Trees down

### Montgomery County

10 SE Conroe	18	1145CST	0.5	20	0	0	2K		Tornado (F0)
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Trees down at Morgan's Cemetery

### Polk County

Blanchard	18	1145CST			0	0	6K		Thunderstorm Wind (G57)
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Trailer home severely damaged and carport destroyed. Trees and powerlines down.

### Polk County

Onalaska	18	1145CST			0	0	10K		Thunderstorm Wind (G57)
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Barge damage and several overturned boats on Lake Livingston.

### Harris County

Pasadena	18	1215CST			0	0	8K		Thunderstorm Wind (G59)
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Roof blown off and powerlines down.

### Brazos County

1 N Bryan	25	2125CST			0	0	3K		Hail (1.50)
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### Brazos County

Bryan	25	2130CST			0	0	4K		Thunderstorm Wind (G52)
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Billboard and building damage.

# Storm Data and Unusual Weather Phenomena

March 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<b><u>TEXAS, Central Southeast</u></b>									
<b>Brazos County</b>									
College Station	25	2135CST			0	0	5K		Thunderstorm Wind (G57)
Wind gusts at Texas A&M campus with construction damage near science building.									
<b>Brazos County</b>									
Bryan	25	2140CST			0	0	3K		Hail (1.50)
<b>Madison County</b>									
North Zulch	25	2230CST			0	0	3K		Hail (0.75)
<b>Montgomery County</b>									
The Woodlands	25	2325CST			0	0	4K		Hail (0.75)
<b>Jackson County</b>									
Edna	25	2330CST			0	0	4K		Hail (0.75)
<b><u>TEXAS, Extreme West</u></b>									
NONE REPORTED.									
<b><u>TEXAS, Mid - South</u></b>									
<b>Live Oak County</b>									
Lagarteo	15	1444CST 1545CST			0	0			Flash Flood
State Highway 534 and 562 were flooded and closed due to high water.									
<b>Kleberg County</b>									
Loyola Beach	15	1500CST 1600CST			0	0			Flash Flood
State Highway 628 near Loyola Beach was flooded.									
<b>Bee County</b>									
5 W Skidmore	15	1521CST 1630CST			0	0			Flash Flood
State Highway 359 between Skidmore and Tynan was flooded.									
<b>Refugio County</b>									
Woodsboro	15	1630CST 1730CST			0	0			Flash Flood
Flooding on State Highway 1360.									
<b>San Patricio County</b>									
5 SE Mathis	15	1700CST 1745CST			0	0			Flash Flood
Flooding on State Highway 666.									
<b>La Salle County</b>									
Cotulla	25	2202CST			0	0			Thunderstorm Wind (G55)
Several power lines blown down in city.									
<b>Mcmullen County</b>									
Tilden	25	2330CST			0	0			Thunderstorm Wind (G50)
Large tree limbs down across city.									
<b>Jim Wells County</b>									
Orange Grove	26	0000CST			0	0			Hail (0.75)
<b>Live Oak County</b>									
George West	26	0025CST			0	0			Thunderstorm Wind (G50)
Telephone pole and tree blown down.									
<b>Nueces County</b>									
1 S Robstown	26	0025CST			0	0			Hail (0.75)
<b>Bee County</b>									
Beeville	26	0030CST			0	0			Hail (0.75)
<b>Aransas County</b>									
Rockport	26	0115CST			0	0			Hail (1.00)

# Storm Data and Unusual Weather Phenomena

March 2003

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, Mid - South

### San Patricio County

Aransas Pass	26	0115CST			0	0			Hail (0.75)
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### San Patricio County

Aransas Pass	26	0115CST			0	0			Thunderstorm Wind (G66)
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### Nueces County

Port Aransas	26	0124CST			0	0			Thunderstorm Wind (G50)
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## TEXAS, North

### Palo Pinto County

5 NW Mineral Wells	17	1638CST			0	0			Hail (1.75)
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### Palo Pinto County

3 N Santo	17	1740CST			0	0			Hail (0.88)
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### Palo Pinto County

2 E Santo	17	1745CST	0.1	20	0	0	1K		Tornado (F0)
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Some cattle feeders were damaged by a brief tornado touchdown.

### Parker County

Weatherford	17	1805CST			0	0			Hail (1.00)
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### Bell County

Killeen	25	1626CST			0	0			Hail (1.75)
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### Bell County

Killeen	25	1630CST	0.3	20	0	0	80K		Tornado (F0)
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8 air conditioning units on a school roof were destroyed.

### Mclennan County

Bellmead	25	1645CST			0	0			Hail (1.75)
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### Mclennan County

Speegleville	25	1707CST			0	0			Hail (1.00)
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Window broken in van.

### Mclennan County

Mc Gregor	25	1721CST			0	0			Hail (1.00)
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### Bell County

4 E Killeen	25	1730CST			0	0			Hail (1.00)
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Occurred at Harker Heights.

### Ellis County

Ennis	25	1830CST 1835CST			0	0	500K		Hail (1.50)
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275 cars were damaged by a brief hailstorm. The roof of the showroom was also damaged.

## TEXAS, North Panhandle

NONE REPORTED.

## TEXAS, Northeast

### Cherokee County

Alto	18	1150CST			0	0			Thunderstorm Wind (G55)
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Several large trees and power lines toppled.

### Nacogdoches County

Cushing	18	1155CST			0	0			Thunderstorm Wind (G56)
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Several large and medium trees toppled along County Roads 935 and 836.

### Harrison County

2 S Marshall	18	1218CST			0	0			Hail (0.75)
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### Red River County

Clarksville	25	1750CST			0	0			Hail (0.88)
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### Red River County

Avery	25	1825CST			0	0			Hail (0.75)
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### Red River County

Boxelder	25	1835CST			0	0			Hail (1.00)
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### Titus County

Argo	25	1935CST			0	0			Hail (0.75)
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# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>TEXAS, Northeast</u></b>									
<b>Morris County</b>									
2 W Omaha	25	2005CST			0	0			Hail (0.75)
<b>Smith County</b>									
12 W Tyler	25	2045CST			0	0			Hail (1.75)
Hail fell at the intersection of Highways 2661 and 64.									
<b>Smith County</b>									
Tyler	25	2100CST			0	0			Hail (1.75)
Hai9l fell at the intersection of Highway 31 and West Loop.									
<b>Smith County</b>									
Tyler	25	2100CST			0	0			Hail (0.75)
Hail fell at the intersection of South Broadway and 5th Street totally covering the ground.									
<b>Cass County</b>									
Atlanta	25	2115CST			0	0			Hail (0.75)
<b>Smith County</b>									
8 NW Tyler	25	2120CST			0	0			Hail (1.00)
<b>Smith County</b>									
Whitehouse	25	2215CST			0	0			Hail (0.88)
Reported at the intersection of Highway 110 and FM 346.									
<b>Rusk County</b>									
Mt Enterprise	25	2315CST			0	0			Hail (0.75)
<b>Cherokee County</b>									
2 SW Rusk	26	0200CST 0400CST			0	0			Flash Flood
FM Roads 1857 and 23 were closed near Box Creek from heavy rains.									
<b><u>TEXAS, South</u></b>									
<b>TXZ248&gt;255</b>									
<b>Zapata - Jim Hogg - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron</b>									
01	0000CST				0	0			Drought
30	2359CST								
Soil moisture values were near to slightly above normal. However, the region still remains in a long-term drought, with local reservoirs at well-below-normal levels.									
<b>Hidalgo County</b>									
Progreso	15	1144CST			0	0			Thunderstorm Wind (G60)
Strong thunderstorms downed power lines in the town of Progreso. The damage was reported by the Texas Department of Public Safety.									
<b>Hidalgo County</b>									
Progreso	15	1230CST 1400CST			0	0			Flash Flood
Heavy rainfall of 4 to 5 inches over the course of 3 hours produced flash flooding over Progreso and southern Mercedes.									
<b><u>TEXAS, South Central</u></b>									
<b>Kinney County</b>									
Brackettville	13	1719CST 1925CST			0	0	0	0	Hail (1.00)
<b>Llano County</b>									
16 S Llano	18	0410CST 0415CST			0	0	0	0	Hail (0.75)
<b>Uvalde County</b>									
Concan	25	1712CST 1720CST			0	0	0	0	Hail (0.88)
<b>Kendall County</b>									
4 S Bankersmith	25	1745CST 1755CST			0	0	0	0	Hail (1.00)
<b>Kendall County</b>									
4 W Boerne	25	1830CST 1845CST			0	0	0	0	Hail (1.75)

# Storm Data and Unusual Weather Phenomena

March 2003

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

## TEXAS, South Central

### Kendall County

1 S Comfort to 4 S Comfort 25 1830CST 1840CST 0 0 80K 0 Thunderstorm Wind (G75)

Damaging winds knocked over several trees and damaged a home just south of Comfort in a path that ran from north to south. The winds tore a patio roof off the house, lifted it up over the roof and deposited it on the south side of the house. Some of the trees damaged in the area had diameters of over 12 inches. The winds were preceded by heavy rain, and followed by hail and a small tornado.

### Kendall County

Countywide 25 1830CST 2100CST 0 0 5K 0 Flash Flood

Rainfall from mid afternoon into the early evening produced general amounts near 1 inch with scattered totals to 3 inches. Due to the saturated nature of soils across the county, brief flash flooding developed over low areas and low water crossings.

### Kendall County

2 S Comfort to 3 S Comfort 25 1835CST 1837CST 0.7 30 0 0 0 0 Tornado (F0)

A small tornado developed behind the damaging winds, heavy rain, and large hail, moving southward for three-fourths of a mile, then lifting. It did not appear to have caused any damage

### Williamson County

Bartlett 25 1840CST 1855CST 0 0 0 0 Hail (1.00)

### Travis County

Oak Hill 25 1937CST 1945CST 0 0 0 0 Hail (0.75)

### Travis County

3 S Austin 25 2005CST 2010CST 0 0 0 0 Hail (0.75)

### Bexar County

San Antonio 25 1940CST 1950CST 0 0 0 0 Hail (0.75)

### Hays County

San Marcos 25 2008CST 2020CST 0 0 0 0 Hail (0.75)

### Dimmit County

10 NW Carrizo Spgs to Big Wells 25 2050CST 2115CST 0 0 30K 0 Thunderstorm Wind (G75)

The NWS survey indicated noted spotty roof damage and several trees knocked over in the town of Big Wells. Residents reported strong winds for 20 to 30 minutes, along with brief heavy rain and small hail. Similar damage was also noted along SH83 in northwest Dimmit County.

### Zavala County

10 W Crystal City to 5 E Crystal City 25 2050CST 2100CST 0 0 10K 0 Thunderstorm Wind (G75)

An NWS survey noted that several trees had been knocked down and large limbs were torn out of trees in a very spotty manner from the southwest corner of the county into the town of Crystal City.

### Caldwell County

11 SE Lockhart 25 2052CST 2105CST 0 0 0 0 Hail (0.75)

## TEXAS, South Panhandle

### TXZ203-036-041 Swisher - Crosby - Lynn

16 2055CST 2300CST 0 0 High Wind (G58)

Evaporation below cloud base resulted in enhanced downward momentum in the downdraft air of a few high-based showers that developed across the South Plains during the late evening hours. The West Texas Mesonet station 2 NE Tulia in Swisher County measured a wind gust of 58 mph at 1100 pm; the station 1 SE Ralls in Crosby County measured a 62 mph gust at 945 pm; and the station 3 NE Tahoka in Lynn County measured a 67 mph gust at 855 pm.

## TEXAS, Southeast

### Jefferson County

Nederland 13 0805CST 0 0 Hail (0.75)

### Orange County

Bridge City 13 0935CST 0 0 Hail (0.75)



# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
TEXAS, Southeast									
Hardin County									
Honey Is	18	1250CST			0	0	2K		Thunderstorm Wind (G50)
Trees were blown down in Honey Island.									
Tyler County									
1 W Woodville	18	1302CST			0	0	10K		Thunderstorm Wind (G50)
A barn was destroyed and trees blown down.									
Jasper County									
4 N Jasper	18	1331CST			0	0	2K		Thunderstorm Wind (G50)
Wind gusts estimated by trained SKYWARN spotters. Minor damage to trees.									
Newton County									
9 N Burkeville	18	1350CST			0	0			Hail (0.88)
TEXAS, West									
Reeves County									
5 N Verhalen	14	2055CST			0	0	0	0	Hail (0.88)
A thunderstorm increased to severe intensity on the north side of a short line of storms over central Reeves County during the late evening of the 14th. This storm was associated with a book-end vortex on the north end of the line. A TV meteorologist relayed a report from a viewer of nickel size hail on State Route 17 as the most intense part of the storm crossed the highway.									
Reagan County									
13 N Stiles	15	1905CST			0	0	0	0	Hail (1.00)
Glasscock County									
Garden City	15	1940CST 1950CST			0	0	0	0	Hail (1.25)
Howard County									
7 SW Big Spring	15	2012CST			0	0	0	0	Hail (1.25)
Half dollar size hail was reported on Interstate 20 west of Big Spring.									
Martin County									
Stanton	15	2025CST			0	0	0	0	Hail (0.75)
Midland County									
7 NE Greenwood to 7 ENE Greenwood	15	2025CST 2040CST			0	0	0	0	Hail (0.75)
Hail covered the interstecction of Routes 3074 and 137, and south along 137 to the county line.									
Glasscock County									
20 NW Garden City	15	2030CST 2040CST			0	0	0	0	Hail (0.75)
Hail covered the ground along State Route 137 at the Midland/Glasscock County line.									
Howard County									
6 S Big Spring to 7 S Big Spring	15	2100CST 2320CST			0	0	5K	0	Flash Flood
A car was washed off of U.S. Highway 87 six miles south of Big Spring by over a foot of water which was streaming across the roadway. The driver of the car had to be rescued, but sustained no injuries. Water also covered several rural roadways resulting in their closing.									
Glasscock County									
St Lawrence to 3 W St Lawrence	15	2210CST 2225CST			0	0	0	0	Hail (0.75)
Hail covered the ground.									
Reagan County									
25 N Big Lake	15	2240CST			0	0	0	0	Hail (0.75)
Numerous severe thunderstorms affected the eastern Permian Basin during the evening of the 15th. These storms resulted in large hail up to the size of half dollars and dangerous flash flooding.									
Howard County									
Forsan	21	1800CST			0	0	0	0	Hail (0.75)
Convection was widespread during the evening of the 21st. An isolated severe thunderstorm developed within a broad area of precipitation. This storm produced penny size hail at Forsan which accumulated three to five inches deep. Some of the hail remained in drifts beside houses as late as mid-morning on the 22nd.									

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
<b>TEXAS, West</b>										
<b>Pecos County</b>										
27 ESE Hovey	25	1600CST 1612CST			0	0	0	0		Hail (1.75)
An isolated thunderstorm developed in southern Reeves County during the afternoon of the 25th. It briefly became severe as it propagated southeast across western and southern Pecos County. A spotter reported golfball size hail southeast of Hovey. The hail was described as being soft with most stones shattering upon impact with the ground.										
<b>TEXAS, Western North</b>										
NONE REPORTED.										
<b>UTAH, East</b>										
UTZ022>025-027>029	<b>Southeast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaputs Plateau - Grand Flat And Arches - La Sal &amp; Abajo Mountains - Canyonlands / Natural Bridges</b>									
	01	0000MST			0	0				Drought
	31	2359MST								
Despite several significant snowfall events in the mountains, extreme drought conditions persisted throughout extreme eastern Utah. Please see the April 2003 Storm Data publication for a continuation of this drought saga.										
UTZ028	<b>La Sal &amp; Abajo Mountains</b>									
	01	0630MST 1900MST			0	0				Winter Weather/Mix
An upper level disturbance moved across eastern Utah and produced significant snowfall across the La Sal and Abajo Mountains in southeast Utah. SNOTEL data indicated accumulations ranging from 6 to 10 inches.										
UTZ028	<b>La Sal &amp; Abajo Mountains</b>									
	03	0900MST			0	0				Winter Weather/Mix
	05	0400MST								
A storm system produced widespread snowfall amounts ranging from 6 to 12 inches across the La Sal and Abajo Mountains in southeast Utah, with local amounts up to 16 inches.										
UTZ023	<b>Eastern Uinta Mountains</b>									
	03	0900MST			0	0				Winter Weather/Mix
	04	1500MST								
A storm system produced snowfall amounts ranging from 5 to 9 inches above 8,000 feet across the eastern Uinta Mountains.										
UTZ028	<b>La Sal &amp; Abajo Mountains</b>									
	15	2300MST			0	0				Winter Storm
	17	0400MST								
A storm system produced heavy snow and windy conditions across the mountains of southeast Utah. Snowfall amounts ranged from 12 to 18 inches with wind gusts up to 40 mph.										
UTZ023-025	<b>Eastern Uinta Mountains - Tavaputs Plateau</b>									
	16	1200MST			0	0				Winter Weather/Mix
	17	0400MST								
A storm system produced widespread snowfall amounts ranging from 4 to 7 inches across the central and northern mountains and plateaus of eastern Utah.										
UTZ023	<b>Eastern Uinta Mountains</b>									
	17	1200MST			0	0				Winter Storm
	18	1500MST								
A winter storm produced northeast winds from 20 to 40 mph with gusts to 60 mph across the eastern Uinta Mountains. Heavy snow also occurred with amounts ranging from 1 to 3 feet.										
UTZ025	<b>Tavaputs Plateau</b>									
	17	1600MST			0	0				Winter Storm
	18	0400MST								
A storm system produced heavy snow and strong winds across the mountains and plateau areas of east-central Utah. SNOTEL data indicated snow amounts of 1 to 2 feet with strong winds creating near blizzard conditions.										
UTZ023-025	<b>Eastern Uinta Mountains - Tavaputs Plateau</b>									
	26	1800MST			0	0				Winter Weather/Mix
	27	1800MST								
A storm system moved across eastern Utah and produced strong winds and snow accumulations of 4 to 8 inches across the east central and northeastern mountains. Wind speeds across the Tavaputs Plateau were estimated between 30 and 40 mph with frequent gusts to 50 mph creating blowing and drifting snow.										
UTZ027	<b>Grand Flat And Arches</b>									
	28	2028MST			0	0				Frost/Freeze
	29	0700MST								

# Storm Data and Unusual Weather Phenomena

March 2003

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

## UTAH, East

After an early start to the growing season, a cold airmass settled over the area allowing overnight temperatures to fall well below freezing across the lower valleys of extreme east central Utah. Minimum temperatures ranged from the upper teens to middle 20s.

## UTAH, West and Central

**UTZ001>021**

**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 - Western Unita Mountains - Wasatch Plateau/Book Cliffs - Western Unita Basin - Castle Country/Price/Castle/Dale/Emery - San Rafael Swell/Greene River/Hanksville - Sanpete/Sevier Valleys - West Central Utah/Delta - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains - Southeast Mountains/Canyonlands - Utah'S Dixie And Zion National Park - South Central Utah/Kanab/Escalante - Glen Canyon Recreation Area/Lake Powell**

<b>01</b>	<b>0800MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
<b>02</b>	<b>0800MST</b>					

A powerful winter storm roared across pretty much the whole state. Even Utah's Dixie received measurable snow. Slick roads contributed to hundreds of minor traffic accidents. Though the snow amounts were not overly impressive, it was the widespread nature of the event that made it unusual. The highest total reported was 14 inches at Brian Head. Most mountain locations picked up 6-10 inches, with some valley totals including 7 inches in South Ogden, 5 inches in Cedar City, 4 inches at Delta, 3 inches in Zion National Park and 1 inch in St. George.

**UTZ002>004-006>008-016>017**

**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 - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains**

<b>04</b>	<b>1800MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
<b>07</b>	<b>1200MST</b>					

A long spell of cold and unsettled weather moved over mainly Northern Utah. Several episodes of lake effect snow squalls added to the totals. Mountain totals were impressive over the period, with Tony Grove Lake checking in with 43 inches, Alta with 31 inches, Snowbird 25 inches and Brian Head 17 inches. Most valley and bench locations along the Wasatch Front picked up 4-8 inches of snow.

**UTZ003>004-006>008-017**

**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 - Central And Southwest Mountains**

<b>16</b>	<b>1100MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>18</b>	<b>1200MST</b>					

A slow moving storm really pounded the mountains with heavy snow. Some of the totals reported over the tree day period included 55 inches at Farnsworth Lake, 48 inches at the Gooseberry Ranger Station, 31 inches at Solitude, 28 inches at Brian Head and 27 inches at Brighton. The Tooele bench reported 10 inches, Cedar City 9 inches, and Nephi had 5 inches.

**UTZ006>008**

**Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80**

<b>26</b>	<b>1400MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>27</b>	<b>0800MST</b>					

A snowstorm brought a quick shot of heavy snow to the mountains of Northern Utah. Snowfall totals were basically 1-2 feet, with Tony Grove Lake checking in with 24 inches, Snowbird 19 inches and Ben Lomond Peak 12 inches.

## **Utah County**

**Provo to  
Springville**

<b>26</b>	<b>1430MST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>0</b>	<b>Thunderstorm Wind (G60)</b>
	<b>1440MST</b>					

Severe thunderstorms along a cold front blew through Utah County, tearing down tree limbs, blowing shingles off roofs and flipping over a trampoline. Springville reported a gust to 69 mph (60 kts) and Provo BYU recorded a gust to 62 mph (54 kts).

## VERMONT, North and Central

**VTZ002>004-006>007 Western Franklin - Orleans - Essex - Lamoille - Caledonia**

<b>05</b>	<b>0300EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Winter Weather/Mix</b>
	<b>1700EST</b>				

# Storm Data and Unusual Weather Phenomena

March 2003

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

## VERMONT, North and Central

An area of weak low pressure along a cold front in the Ohio valley moved east across New York and Vermont late on the 5th of March. Light snow spread across the area in the early morning hours of the 5th and continued through the day before it gradually ended during the afternoon of the 5th. Accumulations were generally 3 to 6 inches, but locally higher in the mountains.

### VTZ008

#### Washington

22	0700EST 1200EST		0	0	1K	Flood
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A storm system moved from the Missouri Valley on Thursday, March 20th northeast across the Ohio valley on Friday, March 21st, then continued northeast and weakened. This system resulted in rainfall (between 1/2 and 1 inch) on the 20th and 21st across the area, coupled with unusually mild weather. On March 21st, at Washington county's Knapp Montpelier airport, the record high daily temperature of 54 degrees was tied. The resulting snowmelt resulted in the formation of ice jams on swollen rivers on the 21st and 22nd of March. In Washington county, along the Mad River from Waitsfield to Moretown, minor field flooding was reported during the morning of March 22nd.

### VTZ007

#### Caledonia

29	2000EST		0	0		Flood
30	0400EST					

Above normal temperatures resulted in considerable snowmelt. In addition, a cold front moved across the area Saturday and Saturday night, March 29th, with light rainfall. Rises in water levels were reported on many rivers. In particular, minor field flooding was reported along the East Branch of the Passumpsic River, especially near the confluence of the East and West branches, north of Lyndonville, Vermont. The river gage at East Haven, Vermont reached 6.85 feet (flood stage is 6 feet) at 1045 PM EST on March 29th. The Vermont State Police also reported 1 to 2 inches of water across routes 5, 114 and 122 where they meet just north of Lyndonville, Vermont.

### VTZ011

#### Western Rutland

29	2000EST		0	0		Flood
30	0300EST					

Above normal temperatures resulted in considerable snowmelt. In addition, a cold front moved across the area Saturday and Saturday night, March 29th, with light rainfall. Rises in water levels were reported on many rivers. In particular, minor field flooding in low lying areas was reported along portions of The Otter Creek. The river gage at Center Rutland, Vermont reached 8.57 feet (flood stage is 8 feet) at 11 PM EST on March 29th.

### VTZ004-007>008-010>011

#### Essex - Caledonia - Washington - Orange - Western Rutland

30	1400EST		0	0	5K	Winter Weather/Mix
31	0400EST					

An area of low pressure off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Light Snow overspread the area in the afternoon of March 30th and continued through much of the night. Snowfall was generally between 3 and 5 inches.

### VTZ001>002-005-009

#### Grand Isle - Western Franklin - Western Chittenden - Western Addison

30	1800EST		0	0	50K	Winter Storm
31	0400EST					

An area of low pressure off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Snow overspread the area by the afternoon of March 30th and became heavy at times during the night before it tapered off to flurries on the morning of March 31st. Snowfall was generally between 7 and 10 inches. A few reports included: Underhill (Chittenden county) with 10.3 inches and New Haven (Addison county) received 8 inches.

### VTZ003-006

#### Orleans - Lamoille

30	2000EST		0	0	10K	Winter Storm
31	0400EST					

An area of low pressure off the mid Atlantic coast Sunday morning, March 30th, moved northeast Sunday night, east of New England and into Nova Scotia on the morning of March 31st. Snow overspread the area by the afternoon of March 30th and became heavy at times during the night before it tapered off to flurries on the morning of March 31st. Snowfall was generally between 6 and 8 inches. A few reports included: 7 inches in Eden (Lamoille county) and 6.3 inches in Greensboro (Orleans county).

## VERMONT, South

### VTZ013-013

#### Bennington

29	2000EST		0	0		Flood
30	2000EST					

An area of low pressure, moving along a slow moving cold front on March 29 and 30, produced up to 2 inches of rainfall across extreme southern Vermont. The rain, combined with seasonably mild temperatures, melted much of the remaining snow pack across this area. The combination of the rain and mild temperatures, produced a significant runoff. Both the Wallomsac and Battenkill Rivers in Bennington briefly went above flood stages in sections. The Wallomsac gage at Bennington crested at 8.19 feet, compared to the flood stage of 7.5. The Batten Kill gage at Arlington crested at 6.3 feet, 0.3 above its flood stage. No unusual problems were reported to the National Weather Service as a result of these minor floods.

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<b><u>VIRGIN ISLANDS</u></b>									
<b>St. Croix County</b>									
St. Croix	13	1200AST 1800AST			0	0	100K		Wildfire
Brush fires fueled by strong winds scorched hundreds of acres on St Croiox, at Estates Bethlehem, Calguohoun, Cobble, and Lowry Hill. The extremely dry conditions appeared to have caused multiple fires. Several telephone poles were damaged, and some livestock may have perished. About 60 acres were lost in Estate Lowry Hill.									
<b><u>VIRGINIA, East</u></b>									
<b>Caroline County</b>									
Ruther Glen	20	1100EST 1300EST			0	0			Flash Flood
Minor flooding with a road closure near Ruther Glen.									
<b>Fluvanna County</b>									
Palmyra	20	1100EST 1300EST			0	0			Flash Flood
Six road closures in county including Route 680.									
<b>Lunenburg County</b>									
2 W Victoria	20	1100EST 1300EST			0	0			Flash Flood
Nine roads closed due to high water in the vicinity of Victoria.									
<b>Mecklenburg County</b>									
3 E Boydton	20	1100EST 1300EST			0	0			Flash Flood
Numerous road closures due to high water near Boydton.									
<b>Nottoway County</b>									
5 NE Crewe	20	1100EST 1300EST			0	0			Flash Flood
Route 611 closed between Routes 615 and 613. Route 608 closed between Routes 609 and 153 due to high water near Fergusonville.									
<b>Powhatan County</b>									
Powhatan	20	1100EST 1300EST			0	0			Flash Flood
Two road closures in county.									
<b>Chesterfield County</b>									
Chesterfield	20	1200EST 1400EST			0	0			Flash Flood
Several roads closed due to high water near Chesterfield.									
<b>Cumberland County</b>									
5 SW Ranies Tavern	20	1200EST 1400EST			0	0			Flash Flood
Route 644 closed and 13 other road closures.									
<b>Goochland County</b>									
Hadensville	20	1200EST 1400EST			0	0			Flash Flood
Route 615 closed at Route 606 near Hadensville. Also, four other closures.									
<b>Hanover County</b>									
Montpelier	20	1200EST 1400EST			0	0			Flash Flood
Route 781 closed near Montpelier.									
<b>Louisa County</b>									
5 SW Trevilians	20	1200EST 1400EST			0	0			Flash Flood
Route 613 closed due to high water near Trevilians.									
<b>Prince Edward County</b>									
3 NE Darlington Hgts	20	1200EST 1400EST			0	0			Flash Flood
Route 658 closed from Route 664 to Route 700 due to high water. Route 698 closed between Routes 660 and 663.									
<b>Richmond (C)</b>									
Richmond	20	1200EST 1400EST			0	0			Flash Flood
German School Road closed at Midlothian Turnpike.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## VIRGINIA, East

### King And Queen County

King & Queen Church	20	1300EST 1500EST			0	0			Flash Flood
Several roads with high water.									

### Sussex County

3 W Wakefield	23	0426EST			0	0	2K		Thunderstorm Wind (G50)
Several trees blown down onto Route 460.									

### Colonial Heights (C)

Colonial Hgts	23	0440EST			0	0	2K		Thunderstorm Wind (G52)
Several trees blown down at Southpark Mall.									

## VIRGINIA, Extreme Southwest

NONE REPORTED.

## VIRGINIA, North

### Alexandria (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Arlington County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Augusta County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Charlottesville (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Clarke County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Fairfax (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Falls Church (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Fredericksburg (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Greene County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Highland County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Manassas (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Manassas Park (C)

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Nelson County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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### Page County

Countywide	20	0000EST 2359EST			0	0			Heavy Rain
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# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b><u>VIRGINIA, North</u></b>									
<b>Rappahannock County</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>Staunton (C)</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>Waynesboro (C)</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>VAZ026&gt;028-030-037-039-041&gt;042-050&gt;053-055&gt;057</b>									
<b>Rockingham - Shenandoah - Frederick - Warren - Albemarle - Madison - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Stafford - Spotsylvania - King George</b>									
	20	1100EST 2000EST			0	0		Flood	
Between 1.5 and 2.5 inches of rain fell region wide on the 20th. The heavy precipitation caused flooding of low lying areas and waterways across much of the northern third of Virginia. In Rockingham County, Union Spring Run overflowed near the intersection of routes 743 and 731 near Ottobine. A stream running through James Madison University in Harrisonburg overflowed it banks. In Albemarle County, a few roads were closed by flooding. In Madison County, 8 state roads were closed by high water. In Orange County, 13 state roads were closed by high water. In Culpeper County, 20 state roads were closed by high water. In Spotsylvania County, a handful of roads were closed by flooding. In King George County, water overflowed from ditches onto roads. In Stafford County, many secondary roads were underwater. In Prince William County, Aden Road near Nokesville and Valley View Road were closed by high water. In Fauquier County, small streams overflowed their banks northeast of Warrenton. In Fairfax County, Richmond Highway was flooded at Gunstore Road. Woodlawn Road was flooded at Spicewood Road. In Loudoun County, Evergreen Mills Road was partially flooded. In Warren County, about a dozen roads were closed by high water including Happy Creek Road, Eighth Street, and Ritenour Hollow Road. Bridges that were closed by flooding included Morgan's Ford near Harmony Hollow Road and at Buck Mountain near Bentonville. In Shenandoah County, 27 roads were closed by flooding. In Frederick County, a motorist had to be rescued on Sulphur Springs Road when his car was stranded after trying to cross a water covered bridge over Opequon Creek. The Cedar Creek bridge on Route 11, south of Middletown, was nearly closed by rising water. A total of 15 roads were shut down by flooding countywide. In Winchester, University Drive was flooded by runoff.									
<b>VAZ041</b>									
<b>Fauquier</b>									
	21	0215EST 1330EST			0	0		Flood	
Around 2 inches of rain fell region wide on the 20th. The runoff from this precipitation caused the Rappahannock River to overflow its banks at Remington. It reached the 15 foot flood stage on the 21st at 2:15 AM. It crested at 15.95 feet at 8:30 AM and fell below flood stage at 1:30 PM. A few structures south of Remington were inundated by water.									
<b>Culpeper County</b>									
3 NW Culpeper	21	1730EST			0	1		Lightning	
A deputy sheriff was struck by lightning while walking to his car. A thunderstorm that moved through Culpeper County around 5:30 PM produced a lightning bolt that injured a man 3 miles northwest of Culpeper. A deputy sheriff was walking to his squad car parked in his driveway along Route 729 when a lightning bolt struck nearby. He fell to the ground after being shocked by the bolt and had no feeling below his waist. Using his arms, he dragged himself back into his home to call for help. He was taken to a local hospital and within a few hours regained feeling in his legs. On his property, two cars would not start after the computer ignition systems were damaged by the strike. Also, the radio in the squad car was fried by the bolt.									
<b>Fredericksburg (C)</b>									
Fredericksburg	29	1730EST			0	0	0.10K	Thunderstorm Wind (G50)	
A tree was downed on the Spotsylvania County line.									
<b>Stafford County</b>									
4 W Stafford	29	1745EST			0	0	1K	Thunderstorm Wind (G50)	
Telephone lines were downed.									
<b>Stafford County</b>									
2 S Stafford	29	1750EST			0	0		Hail (0.88)	
Nickel sized hail fell.									
<b>Stafford County</b>									
Stafford	29	1750EST			0	0		Hail (1.00)	
Quarter sized hail fell. A severe thunderstorm moved through Spotsylvania and Stafford counties between 5 and 7 PM. A tree was downed on the Fredericksburg City and Spotsylvania County Line. Quarter sized hail fell in the city of Stafford and nickel sized hail fell just south of town. Telephone lines were downed 4 miles west of Stafford.									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## VIRGINIA, North

VAZ021-025>026

Highland - Augusta - Rockingham

30 0500EST  
2200EST

0 0

Winter Storm

VAZ027>031-037>042-050>053 Shenandoah - Frederick - Page - Warren - Clarke - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax

30 0500EST  
2200EST

0 0

Winter Weather/Mix

Low pressure over North Carolina moved northeast along the Atlantic Seaboard on the 31st. This system brought a period of light to moderate snow to the region. Snowfall accumulations with this late season storm were elevation dependent because ground temperatures were above freezing below 1500 feet. This prevented most of the snowfall from accumulating in valleys and in lower elevations east of the Blue Ridge Mountains. Lower elevations reported accumulations between 1 and 3 inches. Above 1500 feet where the snow was able to accumulate, snow depth reached 4 to 8 inches. Minor power outages were reported in isolated locations where the snow weighed down on trees and power lines.

## VIRGINIA, Northwest

NONE REPORTED.

## VIRGINIA, Southwest

Pittsylvania County

Chatham

13 1830EST

0 0 0

Thunderstorm Wind (G60)

Thunderstorm winds on the afternoon of the 13th downed 2 trees onto the intersection of Irish and Bearskin Roads in Chatham.

VAZ032>033-044-044>045-045>046-058-058-058>059-059 Patrick - Franklin - Pittsylvania - Campbell - Appomattox - Halifax - Charlotte

20 0800EST  
24 1915EST

0 0 200K

Flood

Franklin County

Countywide

20 0900EST  
0945EST

0 0 0

Flash Flood

Henry County

Countywide

20 0915EST  
1000EST

0 0 0

Flash Flood

Pittsylvania County

Countywide

20 0945EST  
1030EST

0 0 0

Flash Flood

Appomattox County

4 S Appomattox

20 1500EST  
1545EST

0 0 0

Flash Flood

The Roanoke River had minor flooding from the 20th to the 23rd. At Brookneal the river crested at 25.03 feet on the 21st at 0400, and at Randolph the river crested at 26.42 feet on the 21st at 2100.

The Dan River flooding experienced up to major flooding from the 20th through the 24th. The river crested at 25.38 feet at Danville on the 22nd at 0100, 28.09 feet at Paces at 1100 on the 22nd, and at 30.73 feet South Boston at 2200 on the 22nd. Numerous businesses and some homes were flooded in South Boston.

Prolonged moderate to heavy rain caused small stream and urban flooding during the 20th in Patrick, Franklin, Pittsylvania, Campbell, Appomattox, Halifax, and Charlotte counties. Numerous roads were flooded and closed.

A shorter period of very heavy rain during the mid morning and early afternoon caused flash flooding with many roads closed across Henry, Pittsylvania and Campbell counties. Route 720, four miles south of Appomattox was also closed due to flash flooding.

VAZ022>023-035

Roanoke - Botetourt - Amherst

30 0230EST  
1330EST

0 0 0

Winter Storm

Rain developed during the predawn hours of the 30th, then quickly changed to heavy wet snow. Snow accumulations ranged from 5 to 6 inches on the valley floor to as much as a foot across the higher elevations. The heavy wet snow was responsible for bringing down trees and tree limbs, with nearly 25,000 power outages reported.



# Storm Data and Unusual Weather Phenomena

March 2003

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

**VAZ007-009>020 Tazewell - Smyth - Bland - Giles - Wythe - Pulaski - Montgomery - Grayson - Carroll - Floyd - Craig - Alleghany - Bath**

**30 0300EST 0 0 0 Heavy Snow**  
**1400EST**

Snow during the predawn hours of the 30th through the early afternoon accumulated 6 to 12 inches. The heavy wet snow brought down numerous tree limbs, some trees, and power lines resulting in over 50,000 power outages.

## WASHINGTON, Northeast

**WAZ031-042 Northeast Blue Mountains - East Slopes Northern Cascades**

**04 0700PST 0 0 Heavy Snow**  
**07 1400PST**

A strong and moist Pacific storm system produced heavy snow during a two to three day period over the Northeast Blue Mountains and the East Slopes Cascades zones. In the Blue Mountains Sourdough Gulch received 17 inches and Spruce Springs received 27 inches. In the Cascade mountains Harts Pass received 13 inches with 19 inches at Rainy Pass, 20 inches at Park Ridge, 31 inches at Lyman Lake and 20 inches at Pope Ridge. At lower elevations Lake Wenatchee reported 6 to 9 inches with 6 inches at Plain.

**WAZ041>042 Wenatchee Area - East Slopes Northern Cascades**

**05 0600PST 0 0 High Wind (G94)**  
**1600PST**

Strong winds fed through gaps in the Cascade Mountains and into the valleys on the lee slopes. Near Wenatchee sustained winds estimated at 50 mph blew down trees and caused some traffic disruptions. At higher elevations a remote weather station on Mission Ridge recorded winds of 94 mph.

**WAZ031-033 Northeast Blue Mountains - Washington Palouse**

**06 2300PST 0 0 Heavy Snow**  
**07 1000PST**

A late season snow storm caused numerous auto accidents and some power outages over Whitman County. Four to 6 inches of snow fell in the Pullman area. One to 2 feet of snow accumulated in the higher elevations of the Northeastern Blue Mountains zone.

**WAZ037-042 Northeast Mountains - East Slopes Northern Cascades**

**08 2200PST 0 0 Heavy Snow**  
**09 1700PST**

A Pacific storm system brought heavy snow accumulations to the mountains of northeast Washington. Over the eastern slopes of the Cascades 7 inches fell at Plain with 5 inches at Cashmere. In the Northeast Mountains zone Northport received 5 inches.

**WAZ037 Northeast Mountains**

**16 1500PST 0 0 Flood**  
**17 0600PST**

Warm temperatures causing snow melt with rain fall of up to 1 inch caused local small stream flooding over extreme northeast Washington. In Stevens County Hunters Creek overflowed it's banks creating minor traffic problems on local roads.

## WASHINGTON, Northwest

**WAZ001>002-005- San Juan - Western Whatcom - Northwest Interior - Admiralty Inlet Area - Hood Canal/Kitsap Peninsula - Southwest Interior - Eastern Strait Of Juan De Fuca - North Coast - Central Coast**

**12 1500PST 1 0 1M High Wind (G65)**  
**13 1000PST**

Two frontal systems brought very windy conditions to western Washington for nearly 24 hours. Strongest winds were along the coast and in the north interior. Trees fell on nearly a dozen houses or mobile homes, and in one instance, killed a person. One industrial building had its roof blown off. There were power outages to about 100,000 homes and businesses, as well as blocked roads from fallen trees or utility lines. M34MH

## WASHINGTON, Southeast

**WAZ027 Yakima Valley**

**05 1029PST 0 0 1K High Wind (G50)**

Power lines went down three miles east of Cowiche, knocking out power to 200 customers, including two upper valley schools. High winds also uprooted a tree in Grandview.

**WAZ028 Lower Columbia Basin**

**05 1330PST 0 0 1K High Wind (G59)**  
**1900PST**

High winds were measured by two Hanford Mesonet sites. Peak wind gusts included 68 MPH 23 miles north of Benton City at 2:30 PM, and 67 MPH eight miles north of Benton City at 7:00 PM. Utility crews and law enforcement reported a few power outages, along with a couple uprooted road signs.

# Storm Data and Unusual Weather Phenomena

March 2003

		Time	Path	Path	Number of		Estimated		March 2003
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	

## WASHINGTON, Southeast

### **WAZ028 Lower Columbia Basin**

**05 1730PST 2000PST** **0 0** **Dust Storm**

Strong winds in the Horse Heaven Hills created areas of blowing dust. The Washington Department of Transportation closed a 10 mile stretch of Highway 221 between Prosser and Patterson from around 5:30 PM to 8:00 PM due to dust blowing over the roadway.

### **WAZ025 East Slopes Southern Cascades**

**06 0730PST 07 1130PST** **0 0** **Heavy Snow**

26 inches of snow fell in the city of Easton in 24 hours ending at 7:30 am on March 7th. Other snow reports included 18 inches in Roslyn in a 24 hour period, and 14 inches of snow one mile east of Cle Elum.

### **WAZ026 Kittitas Valley**

**07 0000PST 0740PST** **0 0** **Heavy Snow**

Four inches of snow fell nine miles north of Ellensburg.

### **WAZ030 Northwest Blue Mountains**

**07 0800PST 1200PST** **0 0** **Heavy Snow**

Ski Bluewood reported 17 inches of snow between 4:30 PM on March 6th and 12:00 PM on March 7th.

### **WAZ028 Lower Columbia Basin**

**22 1030PST** **0 0 4K** **Strong Wind**

Strong winds atop Rattlesnake ridge were enough to drag a car off the main road and onto the edge of a bank. The winds continued to pound the side of the vehicle, before rolling the car over onto its top, denting the vehicle and breaking out windows.

## WASHINGTON, Southwest

### **Clark County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

### **Cowlitz County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

### **Lewis County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

### **Pacific County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

### **Skamania County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

### **Wahkiakum County**

**Countywide 20 2200PST 22 1000PST** **0 0** **Heavy Rain**

Heavy rains fell across Southwest Washington. Many stations reported 1 to 3 inches. Cougar recorded 4.42 inches of rain during the 36 hour period.

## WEST VIRGINIA, East

### **WVZ053 Jefferson**

**07 0800EST 2100EST** **0 0** **Flood**

A combination of melting snow and rainfall on the 6th caused the Potomac River at Shepherdstown to flood. Flood stage at Shepherdstown is 15 feet. The river rose to 15 feet at 8 AM, crested at 15.5 feet at 3 PM, and dropped below flood stage at 9 PM. Water overflowed into low lying areas upstream from the Shepherdstown Water Plant. Flooding was also observed on River Road and in low lying areas downstream from Shepherdstown.

### **Berkeley County**

**Countywide 20 0000EST 2359EST** **0 0** **Heavy Rain**

### **Grant County**

**Countywide 20 0000EST 2359EST** **0 0** **Heavy Rain**

# Storm Data and Unusual Weather Phenomena

March 2003

									March 2003
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<b><u>WEST VIRGINIA, East</u></b>									
<b>Jefferson County</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>Mineral County</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>Pendleton County</b>									
Countywide	20	0000EST 2359EST			0	0		Heavy Rain	
<b>WVZ050&gt;051-055 Hampshire - Morgan - Hardy</b>									
	20	1415EST 2000EST			0	0		Flood	
Between 1.5 and 2.5 inches of rain fell region wide on the 20th. The heavy precipitation caused flooding of low lying areas and waterways in isolated areas. In Morgan County, some creeks rose out of their banks. In Hampshire County, Christian Church Road was flooded. In Hardy County, Waites Road in Wardensville and Rig Road were flooded.									
<b>WVZ052&gt;053 Berkeley - Jefferson</b>									
	21	0100EST			0	0		Flood	
	22	0830EST							
Around 2 inches of rain fell region wide on the 20th. The runoff from this precipitation caused the Potomac River and Opequon Creek to overflow their banks. The Potomac River reached its flood stage of 15 feet at Shepherdstown at 1:00 PM on the 21st. It crested at 16.73 feet at 9:45 PM and fell below flood stage at 8:30 AM on the 22nd. Water overflowed into low lying areas upstream from the Shepherdstown Water Plant. Flooding was also observed on River Road and in low lying areas downstream from Shepherdstown. In Berkeley County, Opequon Creek overflowed its banks in Martinsburg. The creek reached its bankful stage of 10 feet at 1:00 AM on the 21st. It crested at 11.51 feet at 11:30 AM and fell below flood stage at 5:45 PM. Water overflowed into a field near the gauge and other low lying areas along the creek were inundated by water.									
<b>WVZ048&gt;051-054&gt;055 Grant - Mineral - Hampshire - Morgan - Pendleton - Hardy</b>									
	30	0500EST 2200EST			0	0		Winter Storm	
<b>WVZ052&gt;053 Berkeley - Jefferson</b>									
	30	0500EST 2200EST			0	0		Winter Weather/Mix	
Low pressure over North Carolina moved northeast along the Atlantic Seaboard on the 31st. This system brought a period of light to moderate snow to the Eastern Panhandle. Snowfall accumulations with this late season storm were elevation dependent because ground temperatures were above freezing below 1500 feet. This prevented most of the snowfall from accumulating in valleys and in lower elevations east of the foothills. Lower elevations reported accumulations between 1 and 3 inches. Above 1500 feet where the snow was able to accumulate, snow depth reached 4 to 8 inches with isolated amounts up to 12 inches above 3000 feet. Minor power outages were reported in isolated locations where the snow weighed down on trees and power lines.									
<b><u>WEST VIRGINIA, North</u></b>									
<b>WVZ001-003&gt;004-012-021-023 Hancock - Ohio - Marshall - Wetzel - Marion - Preston</b>									
	08	2150EST 2325EST			0	0		High Wind (G55)	
High winds blew down trees and power lines in Newell, Dallas, Moundsville, Hundred, Worthington, and Kingwood.									
<b>WVZ023 Preston</b>									
	30	0500EST			0	0		Heavy Snow	
	31	2359EST							
Snow began just after midnight on 30th. Terra Alta accumulated 8 inches by 7 AM on 30th, 18 inches by 7 AM on 31st, and 20 inches by the end of the day (31st).									
<b>WVZ041 Tucker</b>									
	30	1000EST			0	0		Heavy Snow	
	31	2359EST							
Snow began after midnight on 30th, accumulated 6 inches by 10 AM on 30th. 2-day snow totals: Davis 20 inches, Canaan Valley 18, Parsons 15.									
<b><u>WEST VIRGINIA, Southeast</u></b>									
<b>WVZ042&gt;045 Mercer - Summers - Monroe - Greenbrier</b>									
	30	0230EST 1300EST			0	0	5K	Heavy Snow	
Wet snow from the predawn hours of the 30th through early afternoon accumulated 7 to 12 inches. A tree was downed by the weight									

# Storm Data and Unusual Weather Phenomena

March 2003

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

## WEST VIRGINIA, Southeast

of the snow onto a van in Peterstown.

## WEST VIRGINIA, West

### Fayette County

#### Mt Hope

**13 1503EST 0 8 16K Lightning**

Lightning entered the second floor of the Mount Hope Middle School. Luckily, it was after most students had already gone home for the day. However, there were 30 to 40 students in the building for after school programs. Eight children were slightly injured. There were a few flash burns to the eyes, while other students were hurt by flying glass.

The school is located on a knoll or relatively high ground. Apparently, the lightning was attracted to the 2nd floor of the 3 story building by a set of outside wires. These wires ran through a nearby tree. The wires were fried. The lightning entered the principal's office, a bathroom, and one classroom. According to the Fayette County School Board, the electrical surge destroyed 2 computer systems with 27 monitors. Five television sets and 2 video cassette recorders were also destroyed. About a dozen windows were broken. In addition, there were broken water pipes, which caused flooding in 2 rooms. The school was closed on the 14th, as the facility was checked-out and repaired.

The quick moving showers, and embedded thunderstorms, formed along a cold front. Ironically, there were only a few strokes of lightning associated with this narrow line of precipitation.

### Wayne County

#### Crum

**20 1835EST 0 0 Hail (1.25)**

### Mingo County

#### Kermit

**20 1839EST 0 0 Hail (1.00)**

### WVZ038>040-046>047 Webster - Upshur - Barbour - Pocahontas - Randolph

**30 0330EST 0 0 Heavy Snow  
1300EST**

The heavier snow rates fell for a few hours after dawn on this Sunday. Total snow accumulations of 5 to 10 inches were common. For elevations above 3,000 feet, snow depths reached around a foot.

## WISCONSIN, Northeast

### WIZ022

#### Door

**03 0800CST 0 0 Heavy Snow  
1800CST**

A lake effect snow band moved from Lake Michigan over parts of northern Door county. The lake effect snow band dropped 3 to 5 inches of snow in a short time during the morning as cold winds ahead of an approaching low pressure system moved over the warmer waters of Lake Michigan. The low brought an additional 1 to 2 inches of snow during the afternoon. A total of 6 inches of snow fell at Washington Island and 4 miles east of Sister Bay.

### WIZ050

#### Manitowoc

**04 2100CST 0 0 Heavy Snow  
05 0300CST**

An area of lake effect snow drifted into extreme northeast Manitowoc county during the late evening hours of the 4th and continued for about 6 hours. Snowfall totals ranged from as much as 6 inches in this area to less than two inches just a few miles to the west. Six inches of snow fell 2 miles northeast of Two Rivers and 5.5 inches of snow fell at the wastewater treatment plant in Two Rivers.

### WIZ030

#### Marathon

**08 0000CST 0 0 Heavy Snow  
1200CST**

A low pressure system moved from the central plains across northern Illinois. Snowfall from this system generally ranged from 3 to 6 inches across central Wisconsin. A total of 6.5 inches of snow fell 5 miles northeast of Colby, in the western part of the county.

### WIZ005-010>012

#### Vilas - Oneida - Forest - Florence

**27 1000CST 0 0 Heavy Snow  
28 1000CST**

A low pressure system moved from northeast Kansas, across Wisconsin to eastern upper Michigan. As this system moved through the area it dropped 8 to 12 inches of snow across north central Wisconsin. The highest snowfall totals included 12.0 inches at Rest Lake (Vilas co.), 11.6 inches 6 miles southwest of Laona (Forest co.), 9.4 inches at St. Germain (Vilas co.), 9.3 inches 3 miles northeast of Long Lake (Florence co.), 8.5 inches at Midget Lake (Oneida co.) and 8.2 inches at Rhinelander (Oneida co.).

## WISCONSIN, Northwest

### WIZ001>004-008>009 Douglas - Bayfield - Ashland - Iron - Sawyer - Price

**27 1500CST 0 0 Heavy Snow  
29 0100CST**

A combination of synoptic and lake-effect snow brought up to 25 inches of snow to northern Wisconsin. Snow amounts ranged from 9

# Storm Data and Unusual Weather Phenomena

March 2003

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

## WISCONSIN, Northwest

inches in Superior to 25 inches in Mellen. Other amounts included 16 inches in Bennett, 11 inches in Cable, 24 inches in Cornucopia, 7 inches in Loretta, 8 inches in Phillips, and 22 inches in Montreal. The snowstorm caused the cancellation of most schools and caused numerous vehicle accidents, none serious.

## WISCONSIN, Southeast

### **WIZ056>057-062>063 Sauk - Columbia - Iowa - Dane**

<b>04</b>	<b>1300CST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>2100CST</b>			

A Heavy Snow event affected parts of south-central Wisconsin on March 4th. This was only the 2nd significant winter event of the 2002-03 winter season for this part of the state. Accumulations of 6 to 7 inches were noted in the Wisconsin River Valley of Sauk, Dane, and Iowa Counties through the southern part of Columbia County. Newspapers reported that dozens of vehicle accidents occurred after roads became icy or snow-covered. Luckily, the snow was fluffy and had a low water content, which minimized the impact of the event. Synoptically, a cold front was situated south of Wisconsin while warm air advection and frontogenetic forcing were maximized around 700 mb (10,000 feet AGL) over southern Wisconsin under the right rear quadrant of a jet streak.

### **WIZ065>066**

#### **Waukesha - Milwaukee**

<b>04</b>	<b>1500CST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>05</b>	<b>0800CST</b>			

A Heavy Snow event affected parts of southeast Wisconsin on March 4th and 5th. This was only the 2nd significant winter event of the 2002-03 winter season for this part of the state. Accumulations of 8 to 9 inches were noted across south-central Waukesha County over to the east-central part of Milwaukee County, just south of downtown Milwaukee. Newspapers reported that dozens of vehicle accidents occurred after roads became icy or snow-covered. Luckily, the snow was fluffy and had a low water content, which minimized the impact of the event. Synoptically, a cold front was situated south of Wisconsin while warm air advection and frontogenetic forcing were maximized around 700 mb (10,000 feet AGL) over southern Wisconsin under the right rear quadrant of a jet streak.

### **WIZ046>047-051>052-056>060-062>072 Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

<b>20</b>	<b>0000CST</b>	<b>0</b>	<b>0</b>	<b>Dense Fog</b>
	<b>1000CST</b>			

Dense fog developed early on March 20th, and dropped visibilities to 1/4 mile or less. The lowest visibility was 20 to 30 feet in Mequon (Ozaukee Co.). Air traffic was delayed or grounded at both Milwaukee's Mitchell Field (Milwaukee Co.), and Dane County Regional Airport (Madison-Truax Field). Several school districts delayed school openings by 2 hours, and newspapers reported many vehicle accidents. The dense fog was the result of clear skies, a light south-southeast surface wind, and leftover, low-level moisture.

### **WIZ046>047-056>058-062>064-067>070 Marquette - Green Lake - Sauk - Columbia - Dodge - Iowa - Dane - Jefferson - Lafayette - Green - Rock - Walworth**

<b>23</b>	<b>1000CST</b>	<b>0</b>	<b>0</b>	<b>Dense Fog</b>
	<b>1300CST</b>			

Dense fog developed early on March 20th, resulting in visibilities lowered to 1/4 mile or less across all of south-central and parts of southeastern Wisconsin. Air traffic was delayed or grounded at Madison's Truax Field (Dane Co.). Some school districts chose to delay the start of classes by 2 hours. Newspapers reported several vehicle accidents.

## **Jefferson County**

### **Ft Atkinson**

<b>26</b>	<b>1230CST</b>	<b>0</b>	<b>0</b>	<b>Dust Devil</b>
	<b>1233CST</b>			

A dust devil formed in the city of Fort Atkinson and grew to a height of about 40 to 50 feet. It tore a decorative thermometer off a tree, overturned a lawn ornament, lifted garbage can tops to a height of 40 feet, and deposited a layer of dirt and sand across a residential street.

## WISCONSIN, Southwest

### **WIZ054>055-061 Crawford - Richland - Grant**

<b>04</b>	<b>0600CST</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
	<b>2100CST</b>			

Southwest Wisconsin was impacted by an early spring snowstorm, which produced a swath of 6 to 12 inches of snow. The highest accumulations were confined to a relatively narrow band, with 10 to 12 inches reported by a weather observer in Prairie du Chien (Crawford County). Additional reports included 10 inches near Steuben (Crawford County) and 7 inches at Muscoda (Grant County).

## WISCONSIN, West

NONE REPORTED.

# Storm Data and Unusual Weather Phenomena

March 2003

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

**WYZ001>002-012>015-023>025** **Yellowstone National Park - Absaroka Mountains - Teton & Gros Ventre Mountains - Jackson Hole - Wind River Mountains West - Wind River Mountains East - Star Valley - Salt River & Wyoming Ranges - Upper Green River Basin Foothills**

**05 0000MST 0 0 Winter Storm**  
**07 1200MST**

A strong westerly flow and abundant pacific moisture brought heavy snow to the mountains of western Wyoming. Snowfall ranged from 15 to 40 inches in the mountains to 6 to 12 inches in the valleys. In addition, strong winds produced considerable blowing and drifting snow, causing blizzard conditions in the Jackson Valley on the morning of March 6th. During the same morning, snow drifts of 3 to 4 feet stranded several motorists north of Afton. On March 6th around 11 PM MST, the summit of Rendezvous Peak at the Jackson Hole Ski Resort reported a wind gust of 93 mph. The summit also clocked a wind gust of 84 mph on March 7th around midnight MST.

**WYZ015** **Wind River Mountains East**

**05 1744MST 0 0 High Wind (G73)**

A weather spotter 3 miles west of Dubois reported sustained winds of 40 to 60 mph for much of the period between 9 AM MST and 7 PM MST on March 5th. Also, a few wind gusts of 83 mph were reported between 5 PM MST and 6 PM MST.

**WYZ007>011-015-017>020-022** **Owl Creek & Bridger Mountains - Bighorn Mountains West - Bighorn Mountains Southeast - Northeast Johnson County - Southeast Johnson County - Wind River Mountains East - Wind River Basin - Lander Foothills - Green Mountains & Rattlesnake Range - Natrona County Lower Elevations - Casper Mountain**

**17 1200MST 0 0 Winter Storm**  
**19 0000MST**

A nearly stationary low pressure system over southeast Colorado pumped moisture north from the Gulf Of Mexico into central Wyoming. As the low deepened on March 17th and 18th, north to northeast winds resulted in upslope flow across much of central Wyoming. The combination of upslope flow and an abundant supply of Gulf moisture produced a significant snowstorm across central Wyoming. Snowfall of 1 to 2 feet fell in Casper and in the Eastern Wind River Mountains. The heaviest snowfall was 3 to 4 feet on Casper Mountain. Snow amounts elsewhere ranged from 4 to 10 inches. A gusty north to northeast wind of 20 to 40 mph prevailed through much of the event. The combination of wind and snow closed many state highways and portions of Interstates 25, 80 and 90 by late March 17th. Snow drifts of 4 to 8 feet were common across much of Natrona County.

**WYZ001>003-005-007-009>015-017>020-022>025** **Yellowstone National Park - Absaroka Mountains - Cody Foothills - Southwest Big Horn Basin - Owl Creek & Bridger Mountains - Bighorn Mountains Southeast - Northeast Johnson County - Southeast Johnson County - Teton & Gros Ventre Mountains - Jackson Hole - Wind River Mountains West - Wind River Mountains East - Wind River Basin - Lander Foothills - Green Mountains & Rattlesnake Range - Natrona County Lower Elevations - Casper Mountain - Star Valley - Salt River & Wyoming Ranges - Upper Green River Basin Foothills**

**26 0000MST 0 0 Winter Storm**  
**27 1200MST**

A spring storm brought heavy snow to western and central Wyoming. The heavy snow was the result of an upper level disturbance that dropped south from Montana and moved across Wyoming. The storm track created a favorable upslope flow for areas east of the Continental Divide. Snowfall ranged from 4 to 10 inches in the lower elevations to 24 to 30 inches in the Teton Range of western Wyoming. Also, snowfall was around 1 foot in Lander and Meeteetse. The combination of wind and snow closed many state highways around the area on the morning of March 27th.

## WYOMING, Extreme Southwest

NONE REPORTED.

## WYOMING, North Central

**WYZ098** **Northeast Bighorn Mountains**

**06 1530MST 0 0 Heavy Snow**  
 8 inches of snow in Burgess Junction

**WYZ099** **Sheridan Foothills**

**06 1530MST 0 0 Heavy Snow**  
 7 inches of snow in Big Horn

**WYZ099** **Sheridan Foothills**

**18 1330MST 0 0 Heavy Snow**  
 10 inches of snow 10 miles southeast of Sheridan

**WYZ099** **Sheridan Foothills**

**19 0600MST 0 0 Heavy Snow**  
 13 inches of snow in Big Horn

**WYZ099** **Sheridan Foothills**

**19 0700MST 0 0 Heavy Snow**  
 21 inches of snow in Story

# Storm Data and Unusual Weather Phenomena

March 2003

March 2003									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<b><u>WYOMING, North Central</u></b>									
<b>WYZ098</b>		<b>Northeast Bighorn Mountains</b>							
	<b>19</b>	<b>0730MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	21 inches of snow in Burgess Junction								
<b>WYZ098</b>		<b>Northeast Bighorn Mountains</b>							
	<b>27</b>	<b>2105MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	16 inches of snow in Burgess Junction								
<b>WYZ098</b>		<b>Northeast Bighorn Mountains</b>							
	<b>27</b>	<b>2105MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	12 inches of snow at Bear Lodge Resort								
<b>WYZ098</b>		<b>Northeast Bighorn Mountains</b>							
	<b>27</b>	<b>2105MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	8 inches of snow at Arrowhead Lodge								
<b><u>WYOMING, Northeast</u></b>									
<b>WYZ054&gt;056-058</b>		<b>Northern Campbell - South Campbell - Western Crook - Weston</b>							
	<b>17</b>	<b>1900MST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
	<b>18</b>	<b>2300MST</b>							
	A potent winter storm slowly moved across the central Rockies and through the northern Plains, bringing heavy snow and strong winds to much of northeast Wyoming. Rain developed across the area during the day of the 17th and then gradually changed to snow from west to east during the evening and overnight hours. Snow continued on the 18th as the wind began to increase in intensity, causing near blizzard conditions at times. The snow and wind finally began to taper off during the evening of the 18th. Snowfall amounts were heaviest across Campbell County, where 8 to 12 inches of snow were common, with drifts 2 to 3 feet deep. Snowfall amounts across Crook and Weston counties were generally in the 4 to 8 inch range, with lesser amounts along the South Dakota border.								
<b><u>WYOMING, Southeast</u></b>									
<b>WYZ061-067-069</b>		<b>Southwest Carbon - Platte - Cheyenne Foothills</b>							
	<b>06</b>	<b>0445MST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G60)</b>
		<b>1620MST</b>							
	High winds blew across parts of south central and southeast Wyoming, with sustained winds of 35 to 45 mph common. Gusts as high as 69 mph were recorded just south of Wheatland, WY, with gusts of 68 mph recorded at Cheyenne, WY, and 58 mph at Rawlins, WY.								
<b>WYZ059-062-064&gt;069</b>		<b>Converse - North Carbon - North Laramie Range - Laramie Valley - Laramie Range - Platte - Goshen - Cheyenne Foothills</b>							
	<b>17</b>	<b>0430MST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Blizzard</b>
	<b>19</b>	<b>1530MST</b>							
	A powerful winter storm produced heavy snow and blizzard conditions over much of southeast Wyoming over a 2 1/2 day period, closing most roads and isolating many areas. Snowfall amounts of 2 to 3 feet were reported over the Laramie Range west of Cheyenne, WY. Snowfall amounts from 12 to 20 inches were common over the adjacent plains from Douglas, WY. to Cheyenne, with Cheyenne recording just over 18 inches. In addition, gusty winds from 30 to 45 mph combined with the snow to produce drifts from 6 to 10 feet in some areas.								
<b>WYZ059&gt;060-067&gt;068</b>		<b>Converse - Niobrara - Platte - Goshen</b>							
	<b>26</b>	<b>1530MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>27</b>	<b>1145MST</b>							
	Heavy snow fell over east-central sections of Wyoming, with snowfall amounts as high as 12 inches reported in the Lusk, WY. area. Other reported snowfall amounts included 8 to 10 inches in Wheatland, WY and around 8 inches in Douglas, WY.								

# Storm Data and Unusual Weather Phenomena

June 2001

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

## Additions/Corrections

### GEORGIA, North and Central

#### **Murray County**

Countywide	22	0920EST 0935EST			0	0	5K		Thunderstorm Wind
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The Chatsworth police reported that two trees were knocked down in Chatsworth. The Atlanta Journal and Constitution reported that trees were knocked down throughout the county.

#### **Whitfield County**

Countywide	22	0920EST 0936EST			0	0	100K		Thunderstorm Wind (G55) <sup>M</sup>
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The Whitfield County 911 center reported that numerous trees were down from Dalton, to Beaverdale, to the eastern border of the county near Chatsworth. Trees were reported down on Keith Road, Feeder Ridge Road, Walnut Avenue, and Bethel Church Road in Dalton. On Keith Road, a mobile home was destroyed when a tree fell on the trailer. Extensive damage also occurred at the old historic Prater's Mill State Park and Fairgrounds, east of Varnell. Damage occurred to exhibit booths and stands as some were blown over and others were damaged by fallen trees. A stage was toppled over, a ticket booth was damaged, and the roof was ripped off a shed. Power lines were also down at the park. There were several other reports of damage nearby with a tree down on a car near Prater's Mill, minor damage at Edward's Park on Cleveland Highway, and several roads blocked by fallen trees. Tin roofs were also blown off a chicken house and a barn. At the Whitfield Industrial Park, 4,500 gallons of waste water overflowed because a tree fell on a nearby power line which knocked out power to the Enterprise Lift Pump Station. A storm spotter measured winds at 60 mph with a Davis wind measuring device.

#### **Jackson County**

5 NW Maysville	22	1135EST			0	0			Hail (1.00)
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The public reported quarter size hail on Georgia Highway 52.

#### **Cobb County**

Marietta	22	1200EST 1300EST			0	0			Urban/Sml Stream Fld
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A storm spotter reported that very heavy rain resulted in flooding of U.S. Highway 41, South Cobb Drive, at Barclay Circle at the Life Chiropractic College.

#### **Jackson County**

Maysville	22	1205EST 1300EST			0	0	30K		Lightning
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The Jackson County 911 center reported that lightning struck a mobile home. The home was set on fire and completely destroyed. In a separate incident, lightning struck a \$10,000 power generator to a chicken house and destroyed the generator.

#### **Troup County**

La Grange	22	1210EST			0	0	0.50K		Thunderstorm Wind
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The Troup County 911 center reported that two trees were down at Vernon and Lee Streets.

#### **Cobb County**

Marietta	22	1215EST			0	0			Hail (0.75)
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A storm spotter reported dime size hail at the Life Chiropractic College near the intersection of US 41, South Cobb Drive, and Barclay Circle.

#### **Fulton County**

2 E Union City	22	1245EST			0	0	2K		Thunderstorm Wind
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The Fulton County 911 center reported that ten trees were blown down on Flat Shoals Road in Union City.

#### **Muscogee County**

Columbus	22	1315EST 1325EST			0	0			Hail (0.75)
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The public reported dime size hail.

#### **Coweta County**

Senoia	22	1330EST			0	0	5K		Lightning
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The Newnan Times Herald reported that a lightning strike to a house on Wagon Wheel Trail cut a "big hole" in the roof. There was no fire or smoke damage and damage was limited to the hole torn in the roof.

#### **Barrow County**

Winder	22	1415EST			0	0	1.5K		Thunderstorm Wind
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The Barrow County 911 center reported that eleven trees were blown down.



# Storm Data and Unusual Weather Phenomena

June 2001

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

## Additions/Corrections

### GEORGIA, North and Central

#### **Morgan County**

<b>Bostwick</b>	<b>22</b>	<b>1440EST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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The Morgan County 911 center reported dime size hail.

### KANSAS, Northeast

#### **Atchison County**

<b>Atchison</b>	<b>20</b>	<b>0030CST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
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Numerous roads remain flooded across the county.

#### **Leavenworth County**

<b>Easton</b>	<b>20</b>	<b>0329CST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
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Numerous roads closed in county due to flooding...including roads leading into Easton.

#### **Atchison County**

<b>Atchison</b>	<b>20</b>	<b>0330CST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
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Flooding continues across the county with numerous roads closed.

#### **Atchison County**

<b>2 N Effingham</b>	<b>20</b>	<b>0909CST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
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Roads that remain closed due to flooding include: 59 Hwy at Edwards...US 74 north of Effingham...230th and Ottawa...206th west of Rollins...Kansas 9 and Haskell...Ottawa and 286th...Sherman Rd between 242nd and 246th streets.

# Storm Data and Unusual Weather Phenomena

June 2002

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

## Additions/Corrections

### CONNECTICUT, Southern

#### New London County

Montville	16	1630EST	0.1	50	0	0	Tornado (F1)		
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The tornado developed over Gardner Lake in the northern section of Montville, just to the west of St. Thomas Moore Prep School. This is an area of homes along private roads on the eastern shore of the lake. Eyewitnesses reported seeing a wall of water over the lake approaching rapidly and once it hit shore, trees were snapped and water was everywhere. Several trees 2 to 3 feet in diameter in the path of the storm fell in an easterly direction damaging at least 6 cars and the front and side porches of a house. Many of the other trees in the area had their tops twisted off. Winds were estimated at 80 to 90 mph from the damage observed. It appeared from the damage pattern that the tornado quickly lifted.

# Storm Data and Unusual Weather Phenomena

July 2002

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

## Additions/Corrections

### MICHIGAN, West

<b>Allegan County</b> Cheshire Center	27	1945EST			0	2	200K	20K	Thunderstorm Wind (G62)
<b>Barry County</b> Delton	27	2050EST			0	0	10K		Thunderstorm Wind (G62)
<b>Kalamazoo County</b> Augusta to Climax	27	2125EST 2130EST	1.5	800	0	0	100K	40K	Tornado (F1)
<b>Calhoun County</b> Ft Custer to Battle Creek	27	2130EST 2141EST	1.5	800	0	0	150K	75K	Tornado (F1)
<b>Ionia County</b> Lake Odessa	28	0000EST			0	0	20K	5K	Thunderstorm Wind (G62)

A F1 tornado touched down about one mile east of Augusta (Kalamazoo county). The tornado passed through Ft. Custer (Calhoun county) and continued to move through western Calhoun county, ending near Hill Brady road, about one mile northwest of the Battle Creek airport. The damage path was approximately 800 yards wide and path length was 3 miles long. Extensive tree damage occurred in the Fort Custer area and the roof was blown off a firing range shelter. Maximum winds were estimated at 80 m.p.h.

After the tornado ended, downburst damage continued for several more miles in Calhoun county. A parked tractor trailer was blown over and some minor roof damage occurred northwest of Battle Creek. The Battle Creek Airport recorded a wind gust to 66 m.p.h. More damage occurred southeast of Battle Creek near the Marshall area, where a garage door was blown in and large tree limbs were blown down along 15 mile road west of Marshall. Top winds across that area were estimated at 70 m.p.h.

A severe thunderstorm struck a campground and mobile home park along Swan Lake in Cheshire Township (southern Allegan county). Wind damage occurred over an area 300 yards wide and one eighth of a mile long. Trees were blown down onto mobile homes and small boats were blown out of the lake. Two minor injuries occurred. Top winds with the downburst were estimated at 70 m.p.h. A waterspout was also reported over Swan Lake.

A severe thunderstorm blew down several trees in Delton (Barry county). Severe thunderstorm wind gusts also destroyed a 14 by 30 foot outbuilding, blew down numerous tree limbs, and damaged the siding and broke windows of a home near Lake Odessa (Ionia county).

### MISSISSIPPI, Central

<b>Lauderdale County</b> Meridian Arpt	07	1320CST			0	0	1K		Thunderstorm Wind (G58)
<b>Lawrence County</b> 14 SW Monticello	07	1405CST			0	0			Hail (0.75)
<b>Lincoln County</b> 15 SE Brookhaven	07	1405CST			0	0			Hail (0.75)
<b>Lincoln County</b> 12 SE Brookhaven	07	1407CST			0	0	1K		Thunderstorm Wind (G55)
<b>Newton County</b> 3 S Newton	07	1427CST			0	0	1K		Thunderstorm Wind (G55)
<b>Jasper County</b> Bay Spgs	07	1428CST			0	0	2K		Thunderstorm Wind (G55)

Numerous trees were blown down at the intersection of State Road 569 and US 98.

Trees were blown down east of State Road 15 and south of US 80.

Numerous trees and powerlines were blown down between Bay Springs and Montrose between 14:28 and 14:40. Some trees blocked area roads.

# Storm Data and Unusual Weather Phenomena

July 2002

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

### MISSISSIPPI, Central

<b>Jones County</b> 3 NW Soso	07	1510CST			0	0	1K		Thunderstorm Wind (G50)
			Several large limbs were blown down.						
<b>Forrest County</b> Carnes	07	1530CST			0	0			Hail (0.75)
<b>Covington County</b> 2 N Collins	07	1545CST			0	0	1K		Thunderstorm Wind (G50)
			Several large limbs were blown down.						
<b>Forrest County</b> Carnes	07	1545CST			0	0	5K		Thunderstorm Wind (G52)
			Several trees were blown down in the area. One tree fell on a house, resulting in minor damage.						
<b>Franklin County</b> Meadville	07	1605CST			0	0	1K		Thunderstorm Wind (G52)
			Several trees were blown down across the road.						
<b>Marion County</b> 3 N Columbia	07	1634CST			0	0	1K		Hail (1.75)
			Golfball-sized hail occurred for at least 10 minutes and covered the ground on State Road 13 north and Columbia.						
<b>Lawrence County</b> 4 E Monticello	07	1640CST			0	0	1K		Thunderstorm Wind (G50)
			Several large limbs were blown down on US 84 between Monticello and Silver Creek.						
<b>Franklin County</b> Roxie	07	1647CST			0	0			Hail (0.75)
<b>Franklin County</b> Roxie	07	1647CST			0	0	25K		Thunderstorm Wind (G52)
			Seven trees and three cars were overturned in the area.						
<b>Marion County</b> 10 N Columbia	07	1647CST			0	0	6K		Thunderstorm Wind (G60)
			Numerous trees were blown down in the area. The damage path was 3 miles wide at times north of the community.						
<b>Marion County</b> 10 N Columbia	07	1650CST			0	0			Hail (1.75)
<b>Marion County</b> Morgantown	07	1652CST			0	0	1K		Thunderstorm Wind (G55)
			Numerous trees were blown down in the area.						
<b>Jefferson Davis County</b> Countywide	07	1700CST			0	0	3K		Thunderstorm Wind (G55)
			Numerous trees were blown down across the county.						
<b>Jefferson Davis County</b> Prentiss	07	1700CST			0	0			Hail (1.75)
<b>Lincoln County</b> Brookhaven	07	1732CST			0	0	3K		Thunderstorm Wind (G55)
			Several streets in the city were blocked by numerous trees, limbs, and powerlines.						

# Storm Data and Unusual Weather Phenomena

August 2002

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

## Additions/Corrections

### MICHIGAN, West

#### Newaygo County Grant

01	2105EST	0.1	15	0	0	2K			Tornado (F0)
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A very weak F0 tornado briefly touched down in Elise Township, 9 miles east of Grant, in Newaygo county during the late evening hours. It blew down one tree, but caused no other damage. There were no injuries or fatalities.

#### Calhoun County Countywide

13	1410EST			0	0	10K	5K		Hail (1.00)
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#### Eaton County Countywide

13	1500EST 1520EST			0	0	10K			Thunderstorm Wind (G53)
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#### Kalamazoo County Countywide

13	1500EST			0	0	10K			Thunderstorm Wind (G53)
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#### Van Buren County Countywide

13	1500EST			0	0	15K			Thunderstorm Wind (G60)
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#### Allegan County Countywide

13	1505EST			0	0	5K			Thunderstorm Wind (G51) <sup>M</sup>
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#### Barry County Countywide

13	1515EST			0	0	5K			Thunderstorm Wind (G53)
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#### Kent County Byron Center to Alto

13	1530EST			0	0	10K			Thunderstorm Wind (G53)
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#### Clinton County St Johns

13	1535EST			0	0	2K			Thunderstorm Wind (G53)
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#### Ottawa County Countywide

13	1535EST 1555EST			0	0	10K			Thunderstorm Wind (G53)
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#### Gratiot County Countywide

13	1545EST			0	0	5K			Thunderstorm Wind (G53)
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#### Kent County Rockford

13	2030EST 2033EST	1	100	0	0	40K	10K		Tornado (F0)
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A F0 tornado struck in northern Kent county during the evening hours of the 14th. It had maximum winds of about 70 m.p.h., ranking it as a F0 tornado on the Fujita scale. The path length was about a mile long and path width about 100 yards wide. The storm hit at 9:30 p.m. EDT near the intersection of Summit Avenue and Whirlwind Road, just north of 11 Mile Road. It moved northeast and caused minor damage to 4 homes on Summit Avenue and a furniture store on Northland Drive. Numerous small trees and a few large trees were broken or uprooted. At least three of the homes had shingle and minor siding damage. The garage of one home had an aluminum soffit torn off. Lawn furniture at several homes was also damaged and one hot tub as well as a trampoline was damaged. A delivery truck was lifted up on to a curb and another was tipped over at the furniture store.

Numerous reports of wind damage from severe thunderstorms were also received from across southwestern and west central lower Michigan. One isolated one inch hail report was received as well, from Allegan county.

# Storm Data and Unusual Weather Phenomena

August 2002

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

## Additions/Corrections

### NORTH CAROLINA, South Coastal

#### New Hanover County

Wilmington	31	0030EST 0200EST			0	0			Heavy Rain
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Two to three inches of rain fell on already saturated ground, causing flooding at the corner of Market St and Gordon Rd. Many other roads in the northern portion of the city were flooded.

### SOUTH CAROLINA, North Coastal

#### Georgetown County

Georgetown	30	0340EST 0500EST			0	0			Heavy Rain
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Several secondary roads were closed due to flooding.

#### Horry County

Garden City to North Myrtle Beach	30	0400EST 0530EST			0	0			Heavy Rain
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911 reported flooding in Garden City. Numerous roads were also flooded in North Myrtle Beach.

# Storm Data and Unusual Weather Phenomena

September 2002

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

### MICHIGAN, Upper

#### **Iron County**

8 S Crystal Falls

30 1816EST

0 0

Hail (0.75)

Three quarter inch diameter hail was reported.

#### **Dickinson County**

Iron Mtn

30 1858CST  
2359CST

0 0

Flash Flood

A foot of water was reported over highway US-2 from torrential rain.

#### **Dickinson County**

Kingsford to  
Iron Mtn

30 1911EST  
1917EST

4.5 200

0 0

7M

Tornado (F1)

This tornado developed over northeast Florence County, WI (See Storm Data for Wisconsin, Northeastern, for more information on the beginning portion of this tornado) and crossed the Menominee River just south of the Iron Mountain-Kingsford airport. The storm moved east-northeast into Kingsford and Iron Mountain. As the storm moved into Iron Mountain, the track shifted more to the east and the damage path became more sporadic before the tornado lifted completely on the east side of Iron Mountain. Numerous trees and power lines were knocked down, blocking highway US-2 and disrupting electric power and telephone service. Gas lines were ruptured and several commercial buildings sustained substantial roof damage in Kingsford.

#### **Dickinson County**

Kingsford

30 1913EST

0 0

Thunderstorm Wind (G60)

Power lines were knocked down.

#### **Dickinson County**

Iron Mtn

30 1918EST

0 0

Hail (0.75)

Three quarter inch diameter hail was reported.

#### **Dickinson County**

Iron Mtn

30 1919EST

0 0

Thunderstorm Wind (G70)

Numerous trees were knocked down.

#### **Dickinson County**

Quinnesec to  
2 NW Norway

30 1919EST  
1923EST

3 100

0 0

Tornado (F0)

This tornado developed on the east side of Quinnesec along U.S. 2, and tracked to the east-southeast along the north side of the highway to just west-northwest of Norway. Damage was limited to minor roof damage (lifted shingles) in Quinnesec, trees downed and numerous branches broken.

#### **Dickinson County**

Quinnesec

30 1922EST

0 0

Thunderstorm Wind (G70)

Numerous trees were knocked down.

#### **Dickinson County**

5 NE Norway to  
6 NE Norway

30 1925EST  
1927EST

0.8 100

0 0

Tornado (F0)

This tornado touched down approximately 5 miles northeast of Norway, crossing the Norway Truck Trail Road before dissipating 1/4 mile east of the road crossing. Damage was limited to downed trees and broken branches.

#### **Menominee County**

2.5 E La Branch

30 1958EST

0 0

Thunderstorm Wind (G70)

A 10 inch diameter tree was blown down.

#### **Ontonagon County**

Ewen

30 2018EST

0 0

Hail (0.75)

Three quarter inch diameter hail was reported.

#### **Baraga County**

Covington

30 2045EST

0 0

Hail (1.75)

Golf ball sized hail was reported.

# Storm Data and Unusual Weather Phenomena

September 2002

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

## Additions/Corrections

### MICHIGAN, Upper

The majority of damage to the Iron Mountain, Kingsford and Quinnesec areas was caused by downburst winds, which knocked trees into homes, downed power lines, etc. The most significant damage was produced by the tornado that moved through Kingsford and Iron Mountain.

### TEXAS, North Fannin County

Trenton

08	1930CST				0	0	50K		Thunderstorm Wind (G61)
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There was scattered wind damage across town with one business unroofed and mortar blown off another.



# Storm Data and Unusual Weather Phenomena

October 2002

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

## Additions/Corrections

### SOUTH CAROLINA, North Coastal

#### **Florence County**

Olanta to Mars Bluff	11	1000EST 1200EST			0	0			Heavy Rain
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Ahead of approaching tropical storm Kyle, heavy rains moved into Florence and Williamsburg Counties from the west and continued into Georgetown County...causing widespread ponding on roads. In the city of Florence, 10 car accidents were attributed to minor flooding between 10 and 11 AM EST.

#### **Williamsburg County**

Greeleyville to Hemingway	11	1000EST 1300EST			0	0			Heavy Rain
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#### **Georgetown County**

Andrews to Murrells Inlet	11	1200EST 1400EST			0	0			Heavy Rain
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# Storm Data and Unusual Weather Phenomena

February 2003

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, North and Central

#### **Cobb County**

<b>Marietta</b>	<b>22</b>	<b>0230EST</b>			<b>0 0</b>	<b>5K</b>	<b>Thunderstorm Wind (G45)</b>
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The Atlanta Journal-Constitution reported that thunderstorm winds blew a large 100 foot by 40 foot tent with steel tables and wicker chairs up and onto the roof of a Marietta furniture store. Wind gusts were estimated at 50 mph in this thunderstorm.

#### **Gwinnett County**

<b>Snellville</b>	<b>22</b>	<b>0530EST</b>			<b>0 0</b>	<b>2K</b>	<b>Thunderstorm Wind (G50)</b>
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The Gwinnett county Emergency Management Director reported that three trees were down on Clipper Street and five trees were down on Harbor Oaks Drive.

#### **Muscogee County**

<b>Columbus</b>	<b>22</b>	<b>0615EST</b>			<b>0 0</b>	<b>5K</b>	<b>Thunderstorm Wind (G55)</b>
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The Mucsogee county 911 center reported that numerous trees and power lines were down.

#### **Troup County**

<b>6 E Andersons Corner</b>	<b>22</b>	<b>0618EST</b>			<b>0 1</b>	<b>100K</b>	<b>Thunderstorm Wind (G65)</b>
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The Troup county 911 center reported that strong straight-line thunderstorm winds destroyed one mobile home and severely damaged three other mobile homes in a mobile home park in the extreme southeast corner of Troup county on Salem-Chipley Road just off U.S. Highway 27. One man was injured when he was trapped inside his damaged mobile home by a large fallen pine tree, which crashed through the chimney of the mobile home and tore through one end of the home. Numerous trees and power lines were also blown down in the same general area. The Columbus Ledger-Enquirer reported that the mobile home park resembled a bomb zone with numerous huge pine trees uprooted or ripped off by the thunderstorm winds.

#### **Spalding County**

<b>2 NW Griffin to Orchard Hill</b>	<b>22</b>	<b>0630EST 0700EST</b>			<b>0 0</b>	<b>10K</b>	<b>Thunderstorm Wind (G50)</b>
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The Griffin Daily News reported that numerous trees and power lines were blown down, especially on the west side of Griffin. Several traffic signals were also blown down at busy intersections in Griffin. In addition, several hundred residents were without power because of the downed trees and power lines.

#### **Newton County**

<b>1 E Covington</b>	<b>22</b>	<b>0715EST</b>			<b>0 0</b>	<b>1K</b>	<b>Thunderstorm Wind (G50)</b>
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The Newton county 911 center reported that several trees were blown down near the intersection of U.S. Highway 278 and Georgia Highway 142.

#### **Henry County**

<b>Ola</b>	<b>22</b>	<b>0720EST</b>			<b>0 0</b>	<b>2K</b>	<b>Thunderstorm Wind (G50)</b>
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The Henry county 911 center reported that numerous trees were blown down near the intersection of Georgia Highway 81 and Keys Ferry Street. The public reported that two large pine trees were blown down in McDonough on Daley Mill Road.

#### **Floyd County**

<b>Rome</b>	<b>22</b>	<b>0730EST</b>			<b>0 0</b>		<b>Heavy Rain</b>
	<b>23</b>	<b>1200EST</b>					

The Rome News Tribune reported that heavy rain of 3 inches in a 24-hour period resulted in the flooding of several streets in the Rome area. Old Dalton Road had to be closed for several hours, and Reeceburg and Burkhalter Roads were also threatened by flooding. The flooding continued into the early morning hours of the next day.

#### **Walton County**

<b>Monroe</b>	<b>22</b>	<b>0735EST</b>			<b>0 0</b>		<b>Hail (0.75)</b>
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The Walton county 911 center reported dime size hail.

#### **Walton County**

<b>Monroe</b>	<b>22</b>	<b>0735EST</b>			<b>0 0</b>	<b>0.50K</b>	<b>Thunderstorm Wind (G50)</b>
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The Walton county 911 center reported that two trees were blown down.

#### **Chattahoochee County**

<b>1 N Cusseta</b>	<b>22</b>	<b>0745EST</b>			<b>0 0</b>	<b>1K</b>	<b>Thunderstorm Wind (G50)</b>
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The Chattahoochee county 911 center reported that several trees were blown down along Georgia Highway 26 just north of Cusseta.

# Storm Data and Unusual Weather Phenomena

February 2003

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, North and Central

#### **Clarke County**

Athens	22	0800EST			0 0	0.25K	Thunderstorm Wind (G35)
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The Clarke county 911 center reported that one tree was blown down in the city.

#### **Greene County**

Greensboro	22	0800EST			0 0	0.25K	Thunderstorm Wind (G35)
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The Greene county 911 center reported that one tree was blown down.

#### **Jasper County**

Monticello	22	0800EST			0 0	1K	Thunderstorm Wind (G50)
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The Jasper county 911 center reported that several trees were blown down.

#### **Marion County**

Buena Vista	22	0800EST			0 0	1K	Thunderstorm Wind (G50)
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The Marion county 911 center reported that several trees were down on Georgia Highway 26.

#### **Taylor County**

Reynolds	22	0800EST			0 0	0.75K	Thunderstorm Wind (G50)
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The Taylor county 911 center reported that three trees were blown down.

#### **Oglethorpe County**

Stephens	22	0805EST			0 0	3K	Thunderstorm Wind (G50)
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The Oglethorpe county 911 center reported that several power lines were down.

#### **Sumter County**

Americus	22	0810EST			0 0		Heavy Rain
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The Sumter county 911 center reported that heavy thunderstorm rain resulted in minor street flooding.

#### **Sumter County**

Americus	22	0810EST 0815EST			0 0	3K	Thunderstorm Wind (G50)
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The Sumter county 911 center reported that power lines were down on Georgia Highway 49 at Southland Road and also on Pine Point Road. A few trees were also down in this same general area.

#### **Houston County**

Warner Robins	22	0850EST			0 0		Heavy Rain
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An amateur radio operator reported that there were was minor street flooding near the Warner Robins High School.

#### **Houston County**

Warner Robins to 3 S Warner Robins	22	0850EST			0 0	1K	Thunderstorm Wind (G50)
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The Houston county 911 center reported that several trees were down at Georgia Highway 247 and Hawkinsville Road. The public reported that a large pine tree was down and some smaller trees on a golf course south of Warner Robins. Pea size hail was also noted in this area.

#### **Wilkes County**

Washington	22	0851EST			0 0		Hail (0.75)
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The Wilkes county 911 center reported dime size hail.

#### **Twiggs County**

Jeffersonville	22	0900EST			0 0	2K	Thunderstorm Wind (G50)
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The Twiggs county 911 center reported that several trees were down along U.S. Highway 80 around Jeffersonville.

#### **Bleckley County**

Cochran	22	0920EST			0 0	3K	Thunderstorm Wind (G50)
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The Bleckley county 911 center reported that several trees and one power line were down.

# Storm Data and Unusual Weather Phenomena

February 2003

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, North and Central

#### **Hancock County**

Sparta	22	0927EST			0 0	3K	Thunderstorm Wind (G50)
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The Hancock county 911 center reported that several trees and some power lines were blown down.

#### **Washington County**

Sandersville	22	0930EST			0 0	0.25K	Thunderstorm Wind (G35)
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The Washington county 911 center reported that one tree was blown down.

#### **Wilkinson County**

Irwinton	22	0930EST			0 0	3K	Thunderstorm Wind (G50)
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The Wilkinson county 911 center reported that several trees and some power lines were down.

#### **Laurens County**

Dudley	22	0940EST			0 0	3K	Thunderstorm Wind (G50)
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The Laurens county 911 center reported that some trees and power lines were down.

#### **Dodge County**

Eastman	22	0945EST			0 0	0.25K	Thunderstorm Wind (G35)
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The Dodge county 911 center reported that one tree was down.

#### **Warren County**

Warrenton to Cadley	22	0945EST 0955EST			0 0	3K	Thunderstorm Wind (G50)
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The Warren county 911 center reported that several trees were blown down.

#### **Glascock County**

Hadden	22	1000EST			0 0	25K	Thunderstorm Wind (G50)
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The Glascock county 911 center reported that several trees and power lines were blown down. Some of the trees also landed on and caused damage to several vehicles.

#### **Jefferson County**

Louisville	22	1000EST			0 0	3K	Thunderstorm Wind (G50)
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The Jefferson county 911 center reported that power lines were down.

#### **Johnson County**

Wrightsville	22	1000EST			0 0	1K	Thunderstorm Wind (G50)
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The Johnson county 911 center reported that several trees were down.

#### **Washington County**

Sandersville	22	1015EST			0 0	1K	Thunderstorm Wind (G50)
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The Washington county 911 center reported that some more trees were blown down.

#### **Montgomery County**

Uvalda to Alston	22	1100EST			0 0	15K	Thunderstorm Wind (G50)
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The Montgomery county 911 center reported that numerous trees and power lines were blown down. One house sustained some structural damage also as a result of the wind and downed trees.

#### **Treutlen County**

Soperton	22	1110EST			0 0	0.25K	Thunderstorm Wind (G35)
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The Truetlen county 911 center reported that one tree was down.

# Storm Data and Unusual Weather Phenomena

February 2003

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

## Additions/Corrections

### MISSISSIPPI, Central

#### **Yazoo County**

1 W Vaughan

21

0530CST  
1200CST

0

0

10K

Flash Flood

Heavy rains caused a section of Bend Road to get washed out. Additional flooding occurred across a portion of Paradise road 10 miles east of Yazoo City.

#### **Warren County**

Vicksburg

21

0700CST

0

0

7K

Thunderstorm Wind (G50)

Thunderstorm winds toppled a tree and two powerlines in the city of Vicksburg.

#### **Lincoln County**

2 W Brookhaven

21

0720CST  
2300CST

0

0

10K

Flash Flood

Heavy rains caused Fern Lane to be covered with water. A person drove into this flooded street and had to be rescued by the Emergency Response Team. Additional street flooding occurred on a portion of state road 550.

#### **Lawrence County**

8 SW Sontag

21

0800CST  
2300CST

0

0

1K

Flash Flood

Heavy rains caused water to flood a portion of Rabbit road.

#### **Jefferson Davis County**

4 W Gwinville

21

0930CST  
2100CST

0

0

1K

Flash Flood

Heavy rains caused Dodger road to flood.

#### **Franklin County**

3 S Little Spgs

21

1220CST  
2300CST

0

0

5K

Flash Flood

Heavy rains caused portions of River Road to flood. This high water resulted in several cars getting stuck on River Road in Franklin county.

#### **Covington County**

Mt Olive

21

1330CST  
2000CST

0

0

15K

Flash Flood

Heavy rains caused a portion of Calhoun Road to get washed out. Along a portion of Cotton Street water was coming over a bridge.

#### **Lincoln County**

Brookhaven

21

1400CST  
2300CST

0

0

8K

Flash Flood

Continued heavy rainfall caused water to enter a house on Lipsey Street as well as having numerous county roads flooded across the southern portion of Lincoln county.

#### **Copiah County**

Hazlehurst

21

1600CST  
2300CST

0

0

1K

Flash Flood

Heavy rains caused water to cover a portion of Georgetown Street.

#### **Lawrence County**

3 NE Tilton

21

1633CST  
2300CST

0

0

1K

Flash Flood

Heavy rains caused water to cover several roads in Oak Vale.

#### **Covington County**

Mt Olive

21

1700CST  
2000CST

0

0

5K

Flash Flood

Continued heavy rains caused several roads to get closed, generally between Mt. Olive and Collins. Arbo Road, Mooney Road, Station Creek Road, and George Speed Road were all closed.

#### **Jones County**

Countywide

21

1730CST  
0100CST

0

0

5K

Flash Flood

Heavy rains caused water to cover several county road overpasses.

#### **Simpson County**

Mendenhall

21

1730CST  
2300CST

0

0

1K

Flash Flood

Heavy rains caused Weathersby Creek to flood over Flint Road and a portion of the road had to be closed.

# Storm Data and Unusual Weather Phenomena

February 2003

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

### MISSISSIPPI, Central

#### **Franklin County**

Countywide	21	1900CST 2300CST			0 0	3K	Flash Flood
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Continued heavy rain caused widespread Street flooding across Franklin county.

#### **Jefferson Davis County**

Prentiss	21	1911CST 2300CST			0 0	1K	Flash Flood
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Continued heavy rain causes 1 to 3 feet of water to cover roads in Prentiss.

#### **Franklin County**

Countywide	21	2000CST			0 0	4K	Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a few trees across Franklin county.

#### **Lincoln County**

Brookhaven	21	2000CST 2300CST			0 0	10K	Flash Flood
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Continued heavy rains caused Several roads to get flooded in the city and traffic had to be diverted to non flooded streets.

#### **Copiah County**

Hazlehurst	21	2030CST 2300CST			0 0	2K	Flash Flood
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Continued heavy rains caused Numerous streets to flood.

#### **Rankin County**

Richland	21 22	2100CST 0100CST			0 0	1K	Flash Flood
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Heavy rains caused several streets to flood in the city of Richland.

#### **Newton County**

Countywide	21 22	2105CST 0100CST			0 0	1K	Flash Flood
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Heavy rains across the county caused several low-lying roads to flood.

#### **Claiborne County**

5 E Port Gibson	21	2130CST 2330CST			0 0	50K	Flash Flood
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Heavy rains caused a bridge to be washed out between Hearmanville and Port Gibson on Highway 18.

#### **Marion County**

Countywide	21 22	2130CST 0200CST			0 0	2K	Flash Flood
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Heavy rains caused several roads to be covered with water across the southern portion of Marion county.

#### **Lawrence County**

Monticello	21	2150CST			0 0	2K	Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a few trees.

#### **Lawrence County**

5 NE Monticello	21	2155CST			0 0	1K	Hail (0.75)
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#### **Simpson County**

1 NW Magee	21 22	2200CST 0200CST			0 0	50K	Flash Flood
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Continued heavy rain caused a few homes to be flooded.

#### **Hinds County**

Byram	21 22	2300CST 0200CST			0 0	2K	Flash Flood
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Heavy rains caused numerous streets to flood in the city.

#### **Lowndes County**

4 S Columbus	21 22	2300CST 0300CST			0 0	1K	Flash Flood
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Heavy rains caused a portion of Old Macon Road to flood.

# Storm Data and Unusual Weather Phenomena

February 2003

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

## Additions/Corrections

### MISSISSIPPI, Central

#### **Leake County**

Countywide	21	2340CST			0	0	2K		Flash Flood
	22	0200CST							

Heavy rains caused a few county roads to flood.

#### **Clay County**

5 SE West Pt	22	0000CST 0300CST			0	0	1K		Flash Flood
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Heavy rain caused McNutt Bottom Road and part of Tibbee Road to be closed.

#### **Lowndes County**

Countywide	22	0000CST			0	0	5K		Thunderstorm Wind (G50)
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Thunderstorm winds caused numerous trees to be blown down across the county.

#### **Neshoba County**

Neshoba	22	0000CST			0	0	1K		Hail (0.75)
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#### **Neshoba County**

Philadelphia	22	0000CST			0	0	1K		Hail (1.00)
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#### **Neshoba County**

Philadelphia	22	0013CST			0	0	1K		Hail (1.00)
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#### **Winston County**

Fearns Spgs	22	0025CST			0	0	1K		Hail (1.00)
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#### **Claiborne County**

Hermanville	22	0100CST 0300CST			0	0	1K		Flash Flood
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Heavy rains caused a portion of state road 491 to flood.

#### **Madison County**

Canton	22	2345CST			0	0	1K		Flash Flood
	23	0100CST							

Heavy rains caused a road in north Canton to flood.

## Reference Notes:

### Storm Data Disclosure

**Storm Data** is an official publication of the National Oceanic and Atmospheric Administration (NOAA) which documents the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. In addition, it is a partial record of other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occurs in connection with another event.

Some of the information appearing in Storm Data may have been provided by or gathered from sources outside the National Weather Service (NWS), such as the media, law enforcement and/or other government agencies, private companies, individuals, etc. An effort is made to use the best available information, but because of time and resource constraints, information from these sources may be unverified by the NWS. Therefore, when using information from Storm Data, customers should be cautious as the NWS does not guarantee the accuracy or validity of the information. Further, when it is apparent information appearing in Storm Data originated from a source outside the National Weather Service (frequently credit is provided), Storm Data customers requiring additional information should contact that source directly. In most cases, NWS employees will not have the knowledge to respond to such requests. In cases of legal proceedings, under Department of Commerce regulations and/or rules of the court, NWS employees are not legally obligated to provide written or verbal testimony.

**Fatality Codes:** For events that include a fatality, there is a code containing the gender, age and fatality location at the end of the event narrative.

1<sup>st</sup> letter: Gender (M/F) – 2<sup>nd</sup> numbers: Age – 3<sup>rd</sup> letters Fatality location (see table below)

Example: M51IW – Male, 51 years of age, fatality occurred In Water.

### 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:

NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
WCM	- Warning Coordination Meteorologist – The meteorologist at each NWS Office responsible for reporting severe weather events
LST	- Local Standard Time      Storm Data attempts to always use “Standard Time”
EST	- Eastern Standard Time
EDT	- Eastern Daylight Time



CST	- Central Standard Time
CDT	- Central Daylight Time
PST	- Pacific Standard Time
PDT	- Pacific Daylight Time

### **Other Notes:**

An “Episode” is an entire storm system and can contain many different types of events.

An “Event” is an individual type of storm event.

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. This number can be either E (estimated) by damage caused, or M (measured) by known calibrated anemometers. Ex. (M61) = measured 61 knots or E(75) = estimated at 75 knots.

All wind speeds listed are estimated by NWS personnel by the amount and type of damage unless otherwise noted with an “M” which represents an actual wind speed as measured by official NWS approved anemometer.

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 fatalities, injuries, and damage amounts appearing in tropical cyclone events are attributed only to wind damage experienced in the coastal counties/parishes listed. Other tropical cyclone related events such as tornadoes and flooding are listed within their separate event types.

## **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 (Suggested)
F0	Gale Tornado	40 - 72	Tree branches broken, chimneys damaged, shallow-rooted trees pushed over; sign boards damaged or destroyed, outbuildings and sheds destroyed
F1	Moderate	73 - 112	Roof surfaces peeled off, mobile homes pushed off foundations or overturned, moving autos pushed off the roads, garages may be destroyed. Category 1-2 hurricane wind speed
F2	Significant	113 - 157	Roofs blown off frame houses; mobile homes rolled and/or destroyed, train boxcars pushed over; large trees snapped or uprooted; airborne debris can cause damage. Category 3-4 hurricane wind speed
F3	Severe	158 - 206	Roofs and walls torn off well constructed houses; trains overturned; large trees uprooted, can knock down entire forest of trees. Category 5 hurricane wind speed
F4	Devastating	207 - 260	Well-constructed frame houses leveled; structures with weak foundations blown off some distance; automobiles thrown, large airborne objects can cause significant damage.
F5	Incredible	261 - 318	Brick, stone and cinderblock buildings destroyed, most debris is carried away by tornadic winds, large and heavy objects can be hurled in excess of 100 meters, trees debarked, asphalt peeled off of roads, steel reinforced 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 damage produced by F4 and F5 wind speeds that would surround the F6 winds.



### Typical F0 Tornado Damage

Note the trees are stripped of leaves, but the trees remain standing. Only light roof damage and a few missing shingles.



### Typical F1 Tornado Damage

Note the uprooted trees and missing shingles from the roof. There is significant roof damage.





### **Typical F2 Tornado Damage**

This home is missing its entire roof but the exterior walls remain intact. Some of the stronger hardwood trees remain standing.



### **Typical F3 Tornado Damage**

This home is missing the entire roof as well as some of the exterior walls. Trees are blown over or snapped near the base and outbuildings are destroyed.



### **Typical F4 Tornado Damage**

This home is almost completely obliterated, with no walls standing. The debris from the home is where the house once stood.



### **Typical F5 Tornado Damage**

These homes have been completely removed from their original locations. The debris field has been scattered some distance from their foundation.

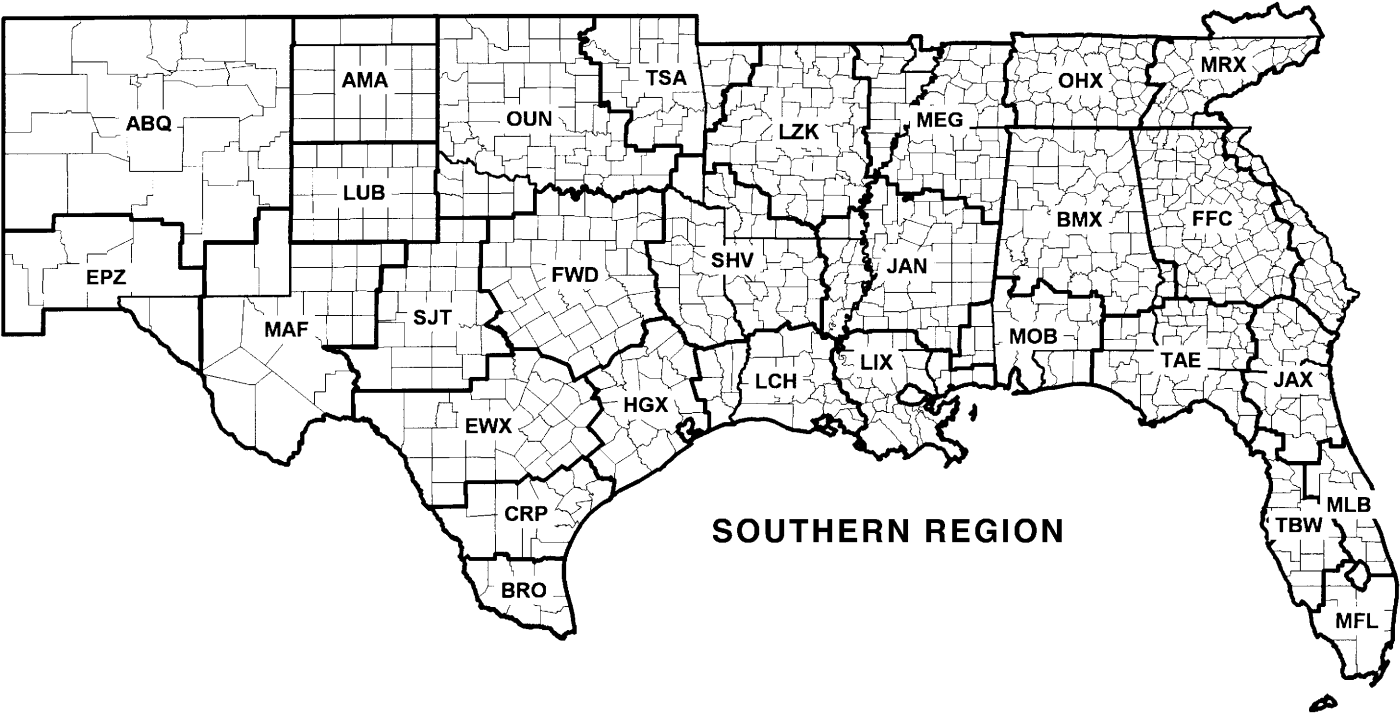


### **Typical F5 Tornado Damage**

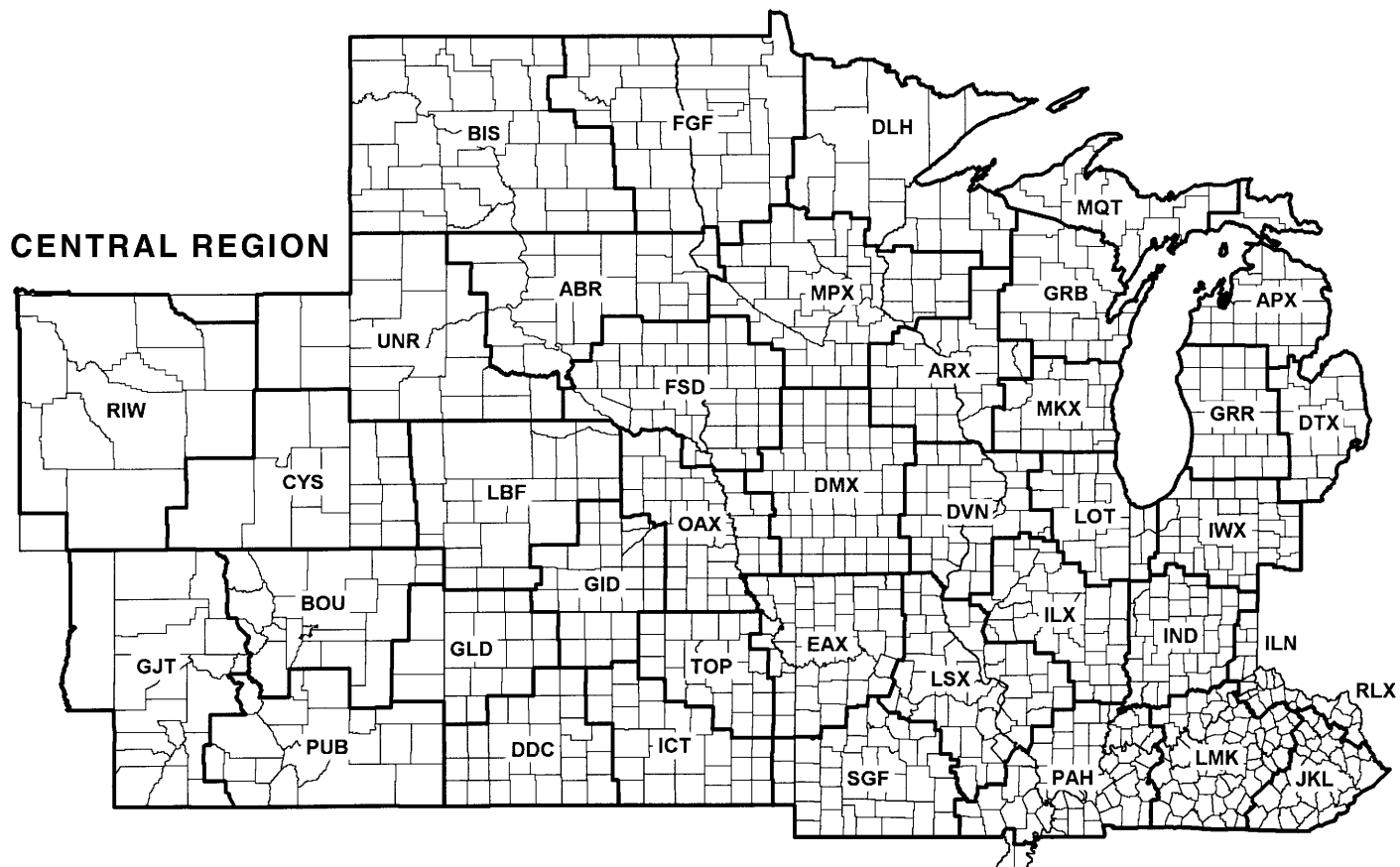
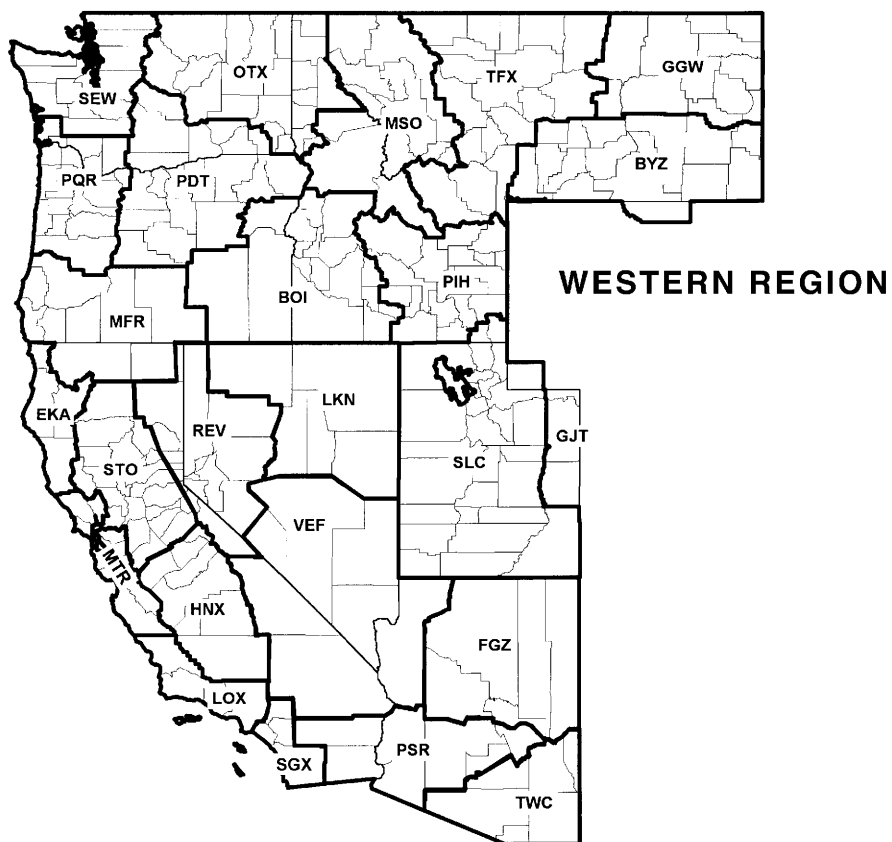
The asphalt surface has been peeled off of this road.

(All photographs courtesy of Brian Smith, Meteorologist, National Weather Service, Valley NE.)

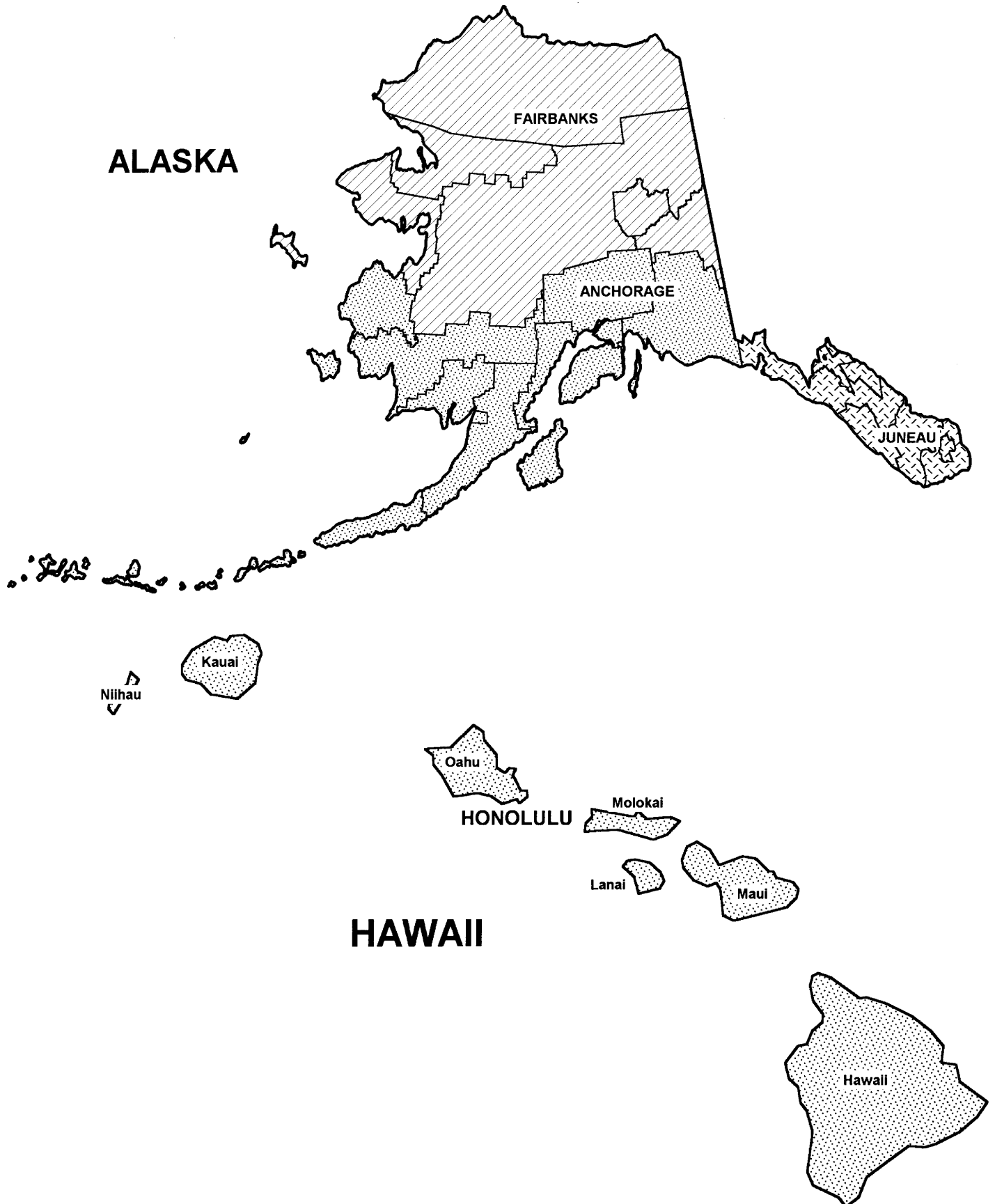
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