

**FEBRUARY 1998  
VOLUME 40  
NUMBER 2**

# STORM DATA

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



**noaa** NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE  
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER  
ASHEVILLE, N.C.

**Cover:** The frame of a Recreational Vehicle in the Ponderosa RV Park was blown into a tree by the tornadic wind speed of an F3 category (wind speeds 158-206 mph on the Fujita Scale) tornado. The tornado struck late at night, severely damaging a mobile home park and an RV park, killing 42 people and injuring another 206. See page 5 for details. (Photograph courtesy of The National Weather Service, Melbourne, Florida)

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

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

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

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

Stuart Hinson  
National Climatic Data Center  
151 Patton Avenue  
Asheville, NC 28801

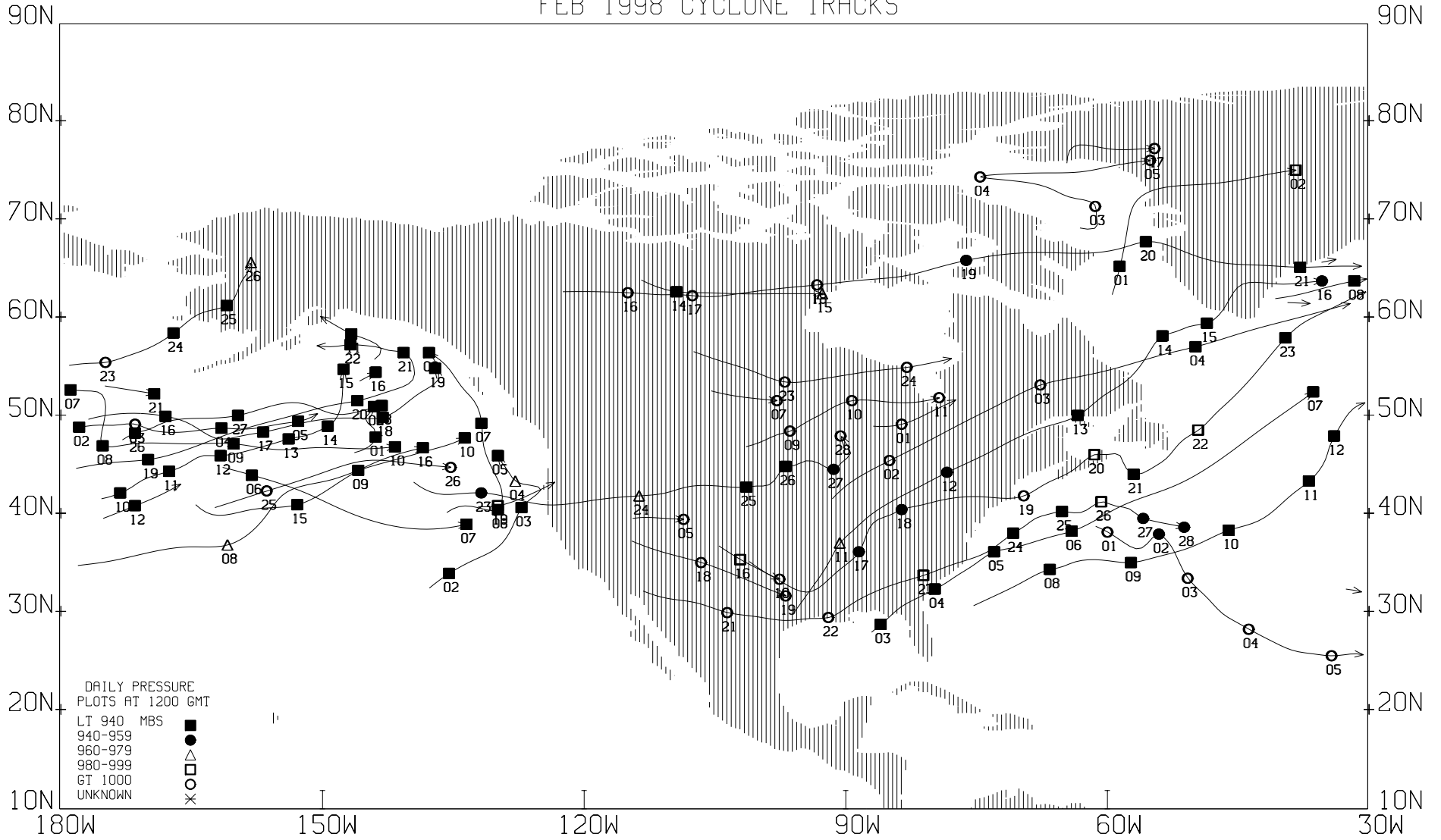
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"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733."

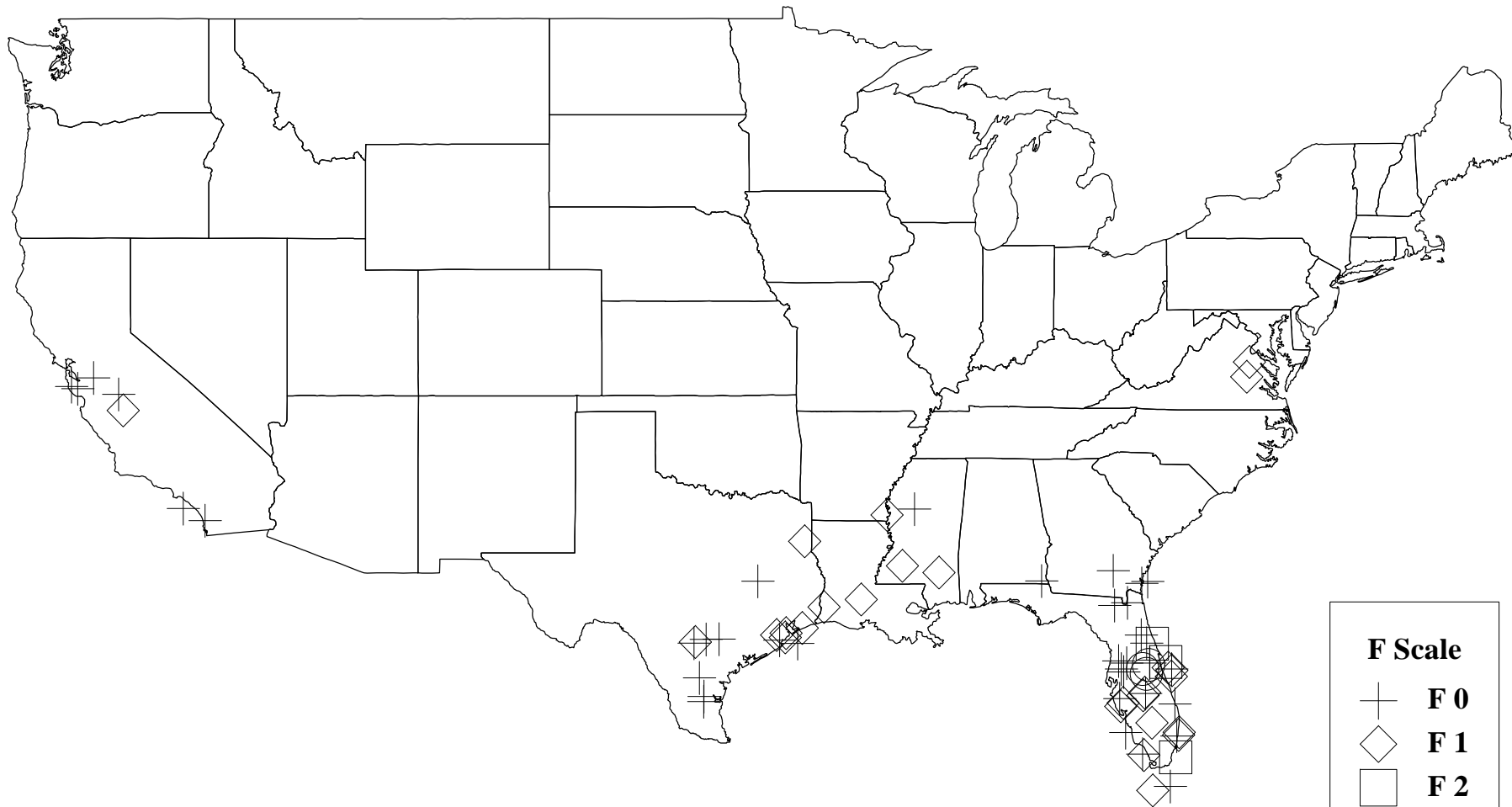


Thomas R. Karl  
Director,  
National Climatic Data Center

# FEB 1998 CYCLONE TRACKS



# February 1998 Confirmed Tornadoes



4

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	37	26	3	3	0	0	69

**F Scale**

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

## OUTSTANDING STORMS OF THE MONTH

### 1. F3 TORNADOES CAUSE 42 FATALITIES IN EAST CENTRAL FLORIDA

On February 22 - 23, 1998, seven tornadoes touched down in East Central Florida, causing 42 deaths and 206 injuries. Conditions were favorable for the development of severe weather and the Storm Prediction Center (SPC) in Norman, Oklahoma issued two tornado watches. Severe thunderstorms formed as a cold front collided with an outflow boundary from a previous thunderstorm. The National Weather Service (NWS) in Melbourne, Florida issued a tornado warning at 10:22 PM when a tornado was indicated on Doppler Radar. The first tornado touched down at 10:55 PM EST in Volusia County, 33 minutes after the warning. A total of 7 tornadoes touched down between 10:55 PM and 2:30 AM on the 23rd. Unfortunately, the Morningside Acres Mobile Home Park and the Ponderosa Recreation Vehicle Park received a direct hit from a strong tornado. Although the SPC issued tornado watches and the NWS issued tornado warnings, many people were unaware of the approaching tornadoes. Since the tornadoes struck late at night, most residents were asleep and therefore unable to receive the warnings. Because strong tornadoes (F3 - F5) are rare in Florida, there are very few tornado warning sirens. Since the tornado outbreak, there has been a substantial increase in the sales of NOAA Weather Radios. More than 106 Million dollars in property damage was reported. This is due to the tornadoes striking a rather densely populated area.



**Left:** This home was located in a subdivision directly across the Florida Turnpike from the Ponderosa RV Park that received substantial damage. Two walls are all that remain of a brand-new concrete-block and stucco home. The seven tornadoes damaged hundreds of permanent homes, including hundreds of mobile homes and recreational vehicles.

*(All photographs of the Florida tornado outbreak are courtesy of the National Weather Service, Melbourne, Florida)*

**Right:** A pile of rubble is all that remains of two homes in this Kissimmee neighborhood. Most of damage and fatalities occurred in Seminole and Osceola Counties. There were 12 fatalities in Seminole County near Sanford and 25 fatalities in Osceola County near Kissimmee.

*(Special Thanks to Dennis Decker, Warning Coordination Meteorologist, National Weather Service, Melbourne, FL., for contributing to this story)*





**Above Left:** The frame of a recreational vehicle (RV) was blown by the tornadic winds around a tree.  
**Above Right:** Another photograph of the damaged RV park.

## 2. PACIFIC STORM POUNDS CENTRAL AND SOUTHERN CALIFORNIA

On February 2<sup>nd</sup> and 3<sup>rd</sup>, a powerful Pacific storm with winds gusting to 90 mph moved across Central and Southern California. Hundreds of trees and power lines were damaged or destroyed by the high winds. Many communities experienced power outages and school closures due to the weather. Heavy rainfall produced flooding and mudslides which closed sections of major roadways. In Santa Maria, flooding of agricultural areas occurred when a section of a levee was washed away. One to three feet of snow was reported in the mountains by ski resorts. Another storm occurred on February 23<sup>rd</sup> and 24<sup>th</sup>, producing more heavy rain across the area including fourteen inches of precipitation reported in the mountains. The city of Ojai, in Ventura County, was closed when all three major roadways into the community became flooded. Most other major roadways throughout the area experienced closures. The storm was responsible for five deaths, including two California Highway Patrol officers who died when they drove onto a washed-out section of Highway 166.

**Below:** Two photographs demonstrating the power of moving water. The flood waters destroyed the sections of these rural California roadways. Much of the damage caused by rural flooding is to roads and highways such as these. Repair costs can be in the millions.

*(Photographs courtesy of Rich Thompson, Meteorologist, National Weather Service, Oxnard, CA)*



# Storm Data and Unusual Weather Phenomena

February 1998

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

## ALABAMA, North Central

<b>ALZ006&gt;010-018&gt;021</b>	<b>Madison - Morgan - Marshall - Jackson - Dekalb - Etowah - Calhoun - Cherokee - Cleburne</b>	<b>04</b>	<b>0130CST</b>			<b>0</b>	<b>0</b>	<b>27K</b>	<b>0</b>	<b>Winter Storm</b>
			<b>0600CST</b>							

A winter snow storm moved over the northeast part of the state early Wednesday morning. Snowfall totals ranged from 2-6 inches over the region. There were a few accidents due to slick roads. There were some power lines down due to the heavy wet snow in the Anniston and Huntsville area.

<b>ALZ012</b>	<b>Lamar</b>		<b>16</b>	<b>0245CST</b>		<b>0</b>	<b>0</b>	<b>6K</b>	<b>0</b>	<b>High Wind (G40)</b>
										High wind knocked down several large trees in the Millport area. A few trees fell on homes and one fell on two cars.

<b>ALZ006</b>	<b>Madison</b>		<b>16</b>	<b>0304CST</b>		<b>0</b>	<b>0</b>	<b>4K</b>	<b>0</b>	<b>High Wind (G42)</b>
										Strong gradient wind knocked down several power lines, leaving several thousand people without power.

<b>ALZ014</b>	<b>Winston</b>		<b>16</b>	<b>0330CST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>0</b>	<b>High Wind (G35)</b>
										Strong gradient wind knocked down a few trees and signs in Haleyville.

<b>ALZ008</b>	<b>Marshall</b>		<b>16</b>	<b>0330CST</b>		<b>0</b>	<b>0</b>	<b>3K</b>	<b>0</b>	<b>High Wind (G39)</b>
										High wind knocked down large limbs and power lines, leaving about 1000 people without power.

<b>ALZ002</b>	<b>Colbert</b>		<b>16</b>	<b>0451CST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>0</b>	<b>High Wind (G36)</b>
										Strong gradient wind knocked down several large signs and a few trees.

<b>Coosa County</b>	<b>9 SW Stewartville</b>		<b>16</b>	<b>1230CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported in Unity community, in the northwest part of the county.

<b>Dallas County</b>	<b>Summerfield</b>		<b>17</b>	<b>0125CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
										Nickel size hail was reported near Summerfield.

<b>Chilton County</b>	<b>Clanton</b>		<b>17</b>	<b>0200CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported near Hill Trinity Church west of Clanton.

<b>Shelby County</b>	<b>Shelby</b>		<b>17</b>	<b>0235CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported in Shelby.

<b>Chilton County</b>	<b>Thorsby</b>		<b>17</b>	<b>0300CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
										Nickel size hail was reported just south of Thorsby.

<b>Talladega County</b>	<b>Talladega</b>		<b>17</b>	<b>0312CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported in downtown Talladega.

<b>Calhoun County</b>	<b>Jacksonville</b>		<b>17</b>	<b>0355CST</b>		<b>0</b>	<b>0</b>	<b>3K</b>	<b>0</b>	<b>Thunderstorm Wind (G50)</b>
										Wind damaged several large signs and knocked over a few old trees.

<b>Coosa County</b>	<b>4 SW Weogufka</b>		<b>17</b>	<b>0400CST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>0</b>	<b>Hail (1.00)</b>
										Hail the size of quarters was reported in Unity.

<b>Talladega County</b>	<b>Sylacauga</b>		<b>17</b>	<b>0405CST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>0</b>	<b>Hail (1.00)</b>
										Hail the size of quarters was reported near Sylacauga.

<b>Autauga County</b>	<b>Prattville</b>		<b>17</b>	<b>0420CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported in Prattville.

<b>Randolph County</b>	<b>2 W Wedowee</b>		<b>17</b>	<b>0458CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported along State Highway 48, just west of Wedowee.

<b>Randolph County</b>	<b>Wedowee</b>		<b>17</b>	<b>0513CST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
										Dime size hail was reported in Wedowee.

# Storm Data and Unusual Weather Phenomena

February 1998

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, North Central</b>									
<b>Tallapoosa County</b>									
Alexander City	17	0515CST			0	0	0	0	Hail (0.75)
	Dime size hail was reported in Alexander City.								
<b>Randolph County</b>									
Graham	17	0525CST			0	0	0	0	Hail (0.75)
	Dime size hail was reported in Graham.								
<b>Limestone County</b>									
Athens	17	0530CST			0	0	95K	0	Lightning
	Lightning struck a tree starting a fire that spread to a house. The house was completely destroyed.								
<b>Chambers County</b>									
6 W Lanett	17	0610CST			0	0	0	0	Hail (0.75)
	Dime size hail was reported between Lanett and Lafayette along SR 50.								
<b>Clay County</b>									
9 SE Ashland	17	1610CST			0	0	2K	0	Thunderstorm Wind (G50)
	There were some trees down in the southern part of the county.								
<b>Randolph County</b>									
Wedowee	17	1620CST			0	0	4K	0	Thunderstorm Wind (G55)
	There was minor structural damage reported to the Court House in Wedowee, as well as some trees down and power outages.								
<b>ALZ008-017-024&gt;025-032&gt;033-035-039</b>									
<b>Marshall - Blount - Jefferson - Shelby - Hale - Perry - Chilton - Marengo</b>									
	22	1100CST 1200CST			0	0	54K	0	High Wind (G44)
	A high wind event moved through the state on the morning of the 22 nd. It moved from south to north and caused damage along most of its path. There were numerous reports of downed trees and power lines. About 50,000 people lost power across the state during the morning hours. There were several reports of trees falling on houses and cars. In the Birmingham area, where the damage was the strongest, almost 20,000 people lost power, a church lost its metal roof, and there were numerous reports of trees on homes and cars. In Clanton, the roof was torn off the baseball field's dugout. In Shelby County, several trees fell on homes and across roads. In the remaining locations the damage was minor with mostly trees and power lines down.								
<b>Tuscaloosa County</b>									
Tuscaloosa	26	1500CST			0	0	2K	0	Thunderstorm Wind (G50)
	Several trees were reported down in Tuscaloosa.								
<b>Tuscaloosa County</b>									
6 NE Tuscaloosa	26	1515CST			0	0	3K	0	Thunderstorm Wind (G50)
	A tree fell on a house in Yellow Creek and damaged the porch.								
<b>Jefferson County</b>									
12 WSW Adamsville	26	1535CST			0	0	0	0	Hail (0.75)
	Dime size hail was reported in Birmingham.								
<b>Walker County</b>									
Oakman	26	1540CST			0	0	0	0	Hail (0.88)
	Nickel size hail was reported covering the ground in Oakman.								
<b>Shelby County</b>									
Montevallo	26	1645CST			0	0	1K	0	Thunderstorm Wind (G50)
	A few trees were knocked down, including one across an intersection.								
<b>Bibb County</b>									
Lawley	26	1700CST			0	0	0	0	Hail (0.75)
	Dime size hail was reported covering the ground in Lawley.								
<b>Talladega County</b>									
Talladega	26	1745CST			0	0	3K	0	Thunderstorm Wind (G50)
	A few trees were down in Talladega including one on a car.								
<b>ALABAMA, Southeast</b>									
<b>Coffee County</b>									
Enterprise	22	0810EST			0	0			Hail (0.88)
	Numerous reports of dime to nickel size hail.								
<b>Dale County</b>									
Ft Rucker	22	0830EST			0	0			Hail (0.75)
	Dime size hail reported at Ft Rucker.								
<b>Houston County</b>									
Taylor	22	0900EST	0.3	50	0	0	75K		Tornado (F0)
	52 homes in Landview Subdivision sustained wind damage to shingles, fences, awnings, storage sheds, and porches. Some trees								



# Storm Data and Unusual Weather Phenomena

February 1998

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

and power lines down. Several public sightings of a funnel cloud.

## ALABAMA, Southwest

### **Baldwin County**

2 W Spanish Ft to  
1 W Spanish Ft

11	0155CST 0157CST				0    0	12K	<b>Thunderstorm Wind (G55)</b>
----	--------------------	--	--	--	--------	-----	--------------------------------

High winds damaged a marina and a lounge along the Causeway just west of Spanish Fort. Some tin was blown from a roof and a fence was damaged. A couple of boats were also damaged by the high waves.

### **ALZ063>064**

#### **Lower Mobile - Lower Baldwin**

15	1500CST 2100CST				0    0	55K	<b>Flood</b>
----	--------------------	--	--	--	--------	-----	--------------

Coastal Flooding... Strong east to southeast winds, with gusts to 55 mph, caused water to pile up along the west parts of Mobile Bay and along the Gulf coastal areas in Baldwin and Escambia counties from Orange Beach to Pensacola Pass. In Mobile county...County Road 193, leading to the Dauphin Island Bridge, had to be closed south of Alabama Port for a couple of hours due to high water putting debris across the roadway. Part of the road was washed out by the high waves blowing across the road. The tides at the Alabama State Docks reached 3.4 feet, 3.0 feet at Bayou La Batre and 2.5 feet at Little Dauphin Island.

In Baldwin county...Several homes on stilts along the beach area in Orange Beach, had water two to three feet deep under them (where sand is usually at).

In Escambia county...Several boats and piers were damaged on Grand Lagoon and Perdido Bay by the high waves generated by the strong winds.

### **Mobile County**

Tanner Williams

22	0340CST 0341CST				0    0		<b>Hail (0.75)</b>
----	--------------------	--	--	--	--------	--	--------------------

Dime size hail was reported near Tanner Williams.

### **ALZ064**

#### **Lower Baldwin**

22	0630CST 0800CST				0    0	20K	<b>Flood</b>
----	--------------------	--	--	--	--------	-----	--------------

Coastal Flooding... Strong easterly winds of 40 to 50 mph developed behind a line of eastward moving thunderstorms (Bubble High formed). The winds caused high waves between Gulf Shores and Orange Beach. Two to three big waves (up to 4 feet high) moved ashore and carried loose objects into the surf as the waves receded. No one was injured. One person saw the larger waves moving ashore and alerted a couple of people on the beach. They were then able to get to higher ground before the waves crashed ashore.

### **Covington County**

Red Level

22	0700CST				0    0	2K	<b>Lightning</b>
----	---------	--	--	--	--------	----	------------------

Lightning struck a trailer near Red Level and caused minor damage. No injuries were reported.

### **Choctaw County**

Needham

26	1710CST 1711CST				0    0	3K	<b>Thunderstorm Wind (G50)</b>
----	--------------------	--	--	--	--------	----	--------------------------------

Several trees were blown down along State Highway 17 just east of Needham.

### **Washington County**

Millry

26	1715CST 1716CST				0    0	3K	<b>Thunderstorm Wind (G50)</b>
----	--------------------	--	--	--	--------	----	--------------------------------

Several trees were blown down just east of Millry.

### **Clarke County**

Fulton

26	1740CST 1741CST				0    0	3K	<b>Thunderstorm Wind (G50)</b>
----	--------------------	--	--	--	--------	----	--------------------------------

Several trees were blown down along US Highway 43 just west of Fulton.

## ALASKA, Northern

### **AKZ001**

#### **Arctic Slope Coastal**

02	2000AST				0    0		<b>Blizzard</b>
03	1900AST						

A slowly increasing pressure gradient across the Arctic coast brought blizzard conditions to Point Lay, Kuparuk, and Prudhoe Bay. Deadhorse had poor visibility, but wind speeds were not strong enough.

### **AKZ004**

#### **Koyukuk-Upper Kobuk Valleys**

06	1200AST				0    0		<b>High Wind (G50)</b>
08	1000AST						

Strong winds gusting as high as 50 kt were reported at the State of Alaska Department of Transportation Road Maintenance Camp on the Dalton Highway at Chandalar Shelf. Begin and end times are very approximate. The highest wind reported at the Anaktuvuk Pass AWOS during this time was a gust to 23 kts.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>ALASKA, Northern</b>									
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>07</b>	<b>0000AST</b>			<b>0</b>	<b>0</b>			<b>Blizzard</b>
		<b>0200AST</b>							
		Blizzard conditions occurred at Point Lay only.							
<b>AKZ003</b>		<b>Lower Kobuk Valley-Northern Seward Peninsula</b>							
	<b>07</b>	<b>1100AST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G50)</b>
		<b>1900AST</b>							
		An existing moderate pressure gradient increased over northwest Alaska, resulting in strong winds at Point Hope: sustained 42 kt, gust 50 kt.							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>08</b>	<b>2000AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
	<b>09</b>	<b>0200AST</b>							
		At Point Lay only, Wind Chill values of -85 F to -90 F occurred under winds of 20 mph or greater.							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>10</b>	<b>0300AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
	<b>11</b>	<b>2100AST</b>							
		Winds of 20 mph or more combined with a cold airmass produced wind chills at Point Lay of -85 F to -97F.							
<b>AKZ009</b>		<b>St. Lawrence Island-Bering Strait Coast</b>							
	<b>12</b>	<b>1035AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
		<b>1600AST</b>							
		Wind Chill Values of -70 F to -74 F at Tin City occurred with winds above 20 mph; similar were possible at other locations along the Bering Strait, but no other observations are available.							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>14</b>	<b>0900AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
	<b>19</b>	<b>1600AST</b>							
		A prolonged period of moderate east winds at Point Lay with a cold airmass produced wind chills of -85 F to to -107 F during the period, with Wind chills below -100 common on the 18th.							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>18</b>	<b>1500AST</b>			<b>0</b>	<b>0</b>			<b>Blizzard</b>
	<b>19</b>	<b>1400AST</b>							
		Blizzard conditions occurred for a few hours at Deadhorse (18th, 1500 + 1600) and at Barter Island (19th, 1300 + 1400) while the rest of the reporting stations did not reach blizzard criteria during this event.							
<b>AKZ003-009</b>		<b>Lower Kobuk Valley-Northern Seward Peninsula - St. Lawrence Island-Bering Strait Coast</b>							
	<b>19</b>	<b>0500AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
	<b>21</b>	<b>1100AST</b>							
		Cold air moving south over the Chukchi Sea and Bering Strait produced low Wind Chills. In Zone 9, Wind Chills of -70 F to -88 F at Tin City occurred with winds above 20 mph; similar conditions were possible at other locations along the Bering Strait, but no other observations are available from the Bering Strait, nor from Gambell on Saint Lawrence Island. In Zone 3, Wind Chill values of -70 F to -79 F were observed at Point Hope.							
<b>AKZ001-003-009-009</b>		<b>Arctic Slope Coastal - Lower Kobuk Valley-Northern Seward Peninsula - St. Lawrence Island-Bering Strait Coast</b>							
	<b>22</b>	<b>0700AST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
	<b>25</b>	<b>2300AST</b>							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>24</b>	<b>1100AST</b>			<b>0</b>	<b>0</b>			<b>Blizzard</b>
	<b>25</b>	<b>1600AST</b>							
<b>AKZ001</b>		<b>Arctic Slope Coastal</b>							
	<b>25</b>	<b>0300AST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G44)</b>
		<b>0800AST</b>							
		A persistent moderate pressure gradient over Western Alaska produced a variety of extreme winter weather - several periods of low wind chills over the Bering Strait (Tin City ranged from -70F to -80F - Gambell observations not available), and also over Zone 3 at Point Hope (-70F to -84F) and Shishmaref ( -70F yo -74F), and Zone 1 at Point Lay (-85F to -90F). Also Blizzard condition occurred at Point Lay at the end of this time when clouds and snow moved in, along with strong winds at Point Lay with highest sustained winds at 40 kt and gust to 44 kt.							
<b>AKZ010</b>		<b>Yukon Delta</b>							
	<b>24</b>	<b>2200AST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>25</b>	<b>2200AST</b>							
		A low pressure center over southwest Bristol Bay curved north, moving over the Kuskokwim and Yukon Delta zones before dissipating over the Seward Peninsula on the 26th. The Co-op Observer at the village of St. Marys reported a snowfall of 6.0 inches during the 24 hour period.							

# Storm Data and Unusual Weather Phenomena

February 1998

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

## ALASKA, Southeast

**AKZ024>025**

**Lynn Canal-Glacier Bay - Juneau Borough-Admiralty Island-Icy Strait Area**

<b>06</b>	0500AST			0	0		<b>High Wind (G56)</b>
<b>07</b>	1945AST						

Brisk northeasterly winds produced by a strong arctic high in the Yukon occurred in the northern inner channels of the panhandle. Peak wind gusts recorded were 56kt at Mayflower Island, 52kt at the rock dump (downtown Juneau), 43kt at the federal building in Juneau, and 49kt at Skagway airport.

**AKZ027**

**Southern Southeast Alaska Ernest Sound To Dixon Entrance**

<b>10</b>	0445AST			0	0		<b>High Wind (G51)</b>
	1425AST						

A strong low in the Northeast Pacific brought strong winds to the southern panhandle. The peak wind gust recorded at Ketchikan airport was 51kt.

**AKZ027**

**Southern Southeast Alaska Ernest Sound To Dixon Entrance**

<b>11</b>	1525AST			0	0		<b>High Wind (G65)</b>
<b>12</b>	1500AST						

High winds occurred with the passage of a very intense occlusion in the southern inner channels. The Ketchikan airport recorded a peak wind of 65kt.

**AKZ027>028**

**Southern Southeast Alaska Ernest Sound To Dixon Entrance - Dixon Entrance To Cape Decision-Coastal Area**

<b>19</b>	0400AST			0	0		<b>High Wind (G48)</b>
	1600AST						

A deep low pressure system from the Northeast Pacific moved northward along the outer coast of Southeast Alaska producing high winds in the southern panhandle. Peak wind gusts reported were 46kt at Cape Decision, 44kt at Hydaberg, and 48kt at Ketchikan Airport.

**AKZ027>028**

**Southern Southeast Alaska Ernest Sound To Dixon Entrance - Dixon Entrance To Cape Decision-Coastal Area**

<b>20</b>	0500AST			0	0		<b>High Wind (G55)</b>
	2030AST						

High winds occurred with the passage of a secondary occlusion associated with a strong Northeast Pacific low pressure system. Peak winds recorded in the southern panhandle included 47kt at Hydaberg and 55kt at the Ketchikan Airport.

## ALASKA, Southern

**AKZ020**

**Aleutian Islands**

<b>01</b>	0000AST			0	0		<b>High Wind (G40)</b>
<b>02</b>	0600AST						

A moderate east-west front brought brisk easterly winds to the central and western Aleutians. Adak and Shemya recorded wind gusts of 46 mph.

**AKZ018**

**Kodiak Island-Eastern Alaska Peninsula**

<b>01</b>	0000AST			0	0		<b>High Wind (G39)</b>
	2359AST						

Brisk northwest wind, gusting to 45 mph, was reported at the Coast Guard Base, where the Kodiak Weather Service Office observation is taken.

**AKZ020**

**Aleutian Islands**

<b>04</b>	1200AST			0	0		<b>High Wind (G50)</b>
<b>05</b>	0300AST						

A moderate front, associated with a 960 mb low just south of the western Aleutians, brought brisk easterly winds to the area. Wind gusts reached 58 mph.

**AKZ018**

**Kodiak Island-Eastern Alaska Peninsula**

<b>09</b>	0000AST			0	0		<b>High Wind (G38)</b>
	2359AST						

Brisk northwest wind, gusting to 44 mph, was reported at the Coast Guard Base, where the Kodiak Weather Service Office observation is taken.

**AKZ020**

**Aleutian Islands**

<b>15</b>	1200AST			0	0		<b>High Wind (G50)</b>
<b>17</b>	1500AST						

A moderate frontal system stalled out near the Aleutians during this time. Winds across the area were reported gusting in excess of 60 mph. Actual sustained wind speeds were 58 mph.

**AKZ012-015>017-019>021**

**Kuskokwim Valley - Cook Inlet - Bristol Bay Coastal - Central Gulf Coast - Western Alaska Peninsula - Aleutian Islands - Pribilof Islands**

<b>22</b>	0000AST			0	0		<b>High Wind (G80)</b>
<b>24</b>	2359AST						

A very intense 941mb storm crossed the Aleutians about 90 miles west of Amchitka at 9am Sunday from its origins in the western

# Storm Data and Unusual Weather Phenomena

February 1998

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

## ALASKA, Southern

North Pacific. Winds of 92 mph were recorded by the M/V "Hekabe" (which temporarily lost power in 40 foot seas just southwest of Adak as a result of the storm). Reported winds along the Aleutians were reported as high as 70 mph (in gusts) on Sunday and Monday, slowly diminishing Tuesday. Winds at Saint Paul gusted up to 54 mph on Sunday just before 6pm, producing blizzard conditions in snow and blowing snow. Winds at Cold Bay gusted between 43 and 59 mph (Sunday at 5:50pm) from Sunday through Tuesday night. At Cape Newenham, gusts reached 54 mph very early Monday and 58 mph at Cape Romanzof between 3 and 5am on the same day. Prefrontal easterly winds gusted to 70 mph between 7:30 and 8pm Monday and to 52 mph between midnight and 1am Tuesday at the Portage ASOS. At Middleton Island, just south of the entrance to Prince William Sound, prefrontal winds reached 58 mph.

**AKZ018**

**Kodiak Island-Eastern Alaska Peninsula**

<b>23</b>	0000AST 2359AST	<b>0</b>	<b>0</b>					<b>High Wind (G36)</b>
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Brisk northwest wind, gusting to 41 mph, was reported at the Coast Guard Base, where the Kodiak Weather Service Office observation is taken.

**AKZ017**

**Central Gulf Coast**

<b>28</b>	0000AST 2359AST	<b>0</b>	<b>0</b>					<b>High Wind (G40)</b>
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Glacial induced winds rolling off the Whittier Glacier produced gusts to 46 mph at the harbormaster's office. Stronger winds were reported at the railroad dock, however.

## AMERICAN SAMOA

NOT RECEIVED.

## ARIZONA, Central and Northeast

**AZZ008-016>017**

**Yavapai County Mountains - Eastern Mogollon Rim - White Mountains**

<b>04</b>	0300MST 1800MST	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
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A strong cold front moved through Northern Arizona bringing heavy snow to areas above 7500 feet. Snow totals included: Alpine...8 inches; Crown King...10 inches; Forest Lakes...9 inches; Happy Jack...7 inches; Strawberry...6 inches.

**AZZ007-015**

**Coconino Plateau - Western Mogollon Rim**

<b>08</b>	0700MST 1600MST	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
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A fast-moving cold front brought heavy snow mainly to areas above 7500 feet in Northern Arizona. Snow totals included 7 inches at Baderville (7 N of Flagstaff) and 6 inches at the Grand Canyon Airport.

**AZZ004-006>007-015>016**

**Kaibab Plateau - Grand Canyon Country - Coconino Plateau - Western Mogollon Rim - Eastern Mogollon Rim**

<b>13</b>	0800MST	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>16</b>	1600MST							

A strong, slow moving, storm system moved over Arizona from Feb. 13th to the 16th. Heavy snow accumulations and strong winds with blowing and drifting snow closed Interstates 40 and 17 near Flagstaff and several state roads. Total snow accumulations across northern Arizona included:

Grand Canyon Nat. Park (South Rim).....	15 inches
Grand Canyon Nat. Park (North Rim).....	14 inches
Bellemont.....	16 inches
Forest Lakes.....	16 inches
Munds Park.....	14 inches
Flagstaff Airport.....	13 inches
Parks.....	12 inches
Williams.....	12 inches

Across the rest of northern Arizona, from 2-8 inches of snow accumulated over the three-day storm.

**AZZ008-015>018**

**Yavapai County Mountains - Western Mogollon Rim - Eastern Mogollon Rim - White Mountains - Northern Gila County**

<b>24</b>	0800MST	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>25</b>	0600MST							

A strong winter storm brought heavy snow, gusty winds and blowing and drifting snow to Northern Arizona. Interstates 40 and 17 near Flagstaff were closed, as well as many state highways. Total snow accumulations for the storm were:

# Storm Data and Unusual Weather Phenomena

February 1998

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

## ARIZONA, Central and Northeast

Sunrise Ski Area.....	24 inches
Hart Prairie.....	22 "
Forest Lakes.....	20 "
Strawberry.....	18 "
Pine.....	16 "
Bellemont.....	15 "
Munds Park.....	13 "
Tonto Village.....	13 "
Flagstaff Airport.....	12 "
Payson.....	10 "
Williams.....	9 "
Prescott.....	8 "
Alpine.....	7 "
Show Low.....	6 "

## ARIZONA, Northwest

<b>AZZ003</b>	<b>Northwest Deserts</b>			
	<b>03 2200MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>04 0800MST</b>			

A fast moving winter storm deposited eight to ten inches of snow over the Hualapai Mountains in less than 12 hours.

<b>AZZ003</b>	<b>Northwest Deserts</b>			
	<b>20 0200MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1400MST</b>			

A cold Pacific Storm rolled across the desert southwest and left significant snow in the mountains. The Hualapai Mountain Lodge (7,000 feet), near Kingman, reported 14 inches of new snow in a 12 hour period.

## ARIZONA, South

<b>AZZ033-035</b>	<b>Tucson Metro/Marana/Green Valley - Cochise County</b>			
	<b>03 2145MST</b>	<b>0</b>	<b>0</b>	<b>105K High Wind (G56)</b>
	<b>2355MST</b>			

A strong cold front brought high winds that blew down a tent at the annual Tucson Gem show causing around \$95,000 in damage to gems and jewels. The winds also damaged power lines between Vail and Marana leaving customers without power for up to four hours. The winds also caused part of a house ceiling to collapse in west Tucson.

<b>AZZ019-032&gt;034</b>	<b>Northern Greenlee - Tohono Oodham Nation - Tucson Metro/Marana/Green Valley - Santa Cruz County</b>			
	<b>04 0200MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1500MST</b>			

A strong Pacific storm system brought heavy snow to the mountains above 5000 feet. Snowfall reports include: 26 inches on mount Lemmon, 16 inches on mount Hopkins, 8 inches at Hannagan Meadow, and 6 inches on Kitt Peak.

<b>AZZ019-033</b>	<b>Northern Greenlee - Tucson Metro/Marana/Green Valley</b>			
	<b>15 0400MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>1300MST</b>			

A Pacific storm brought heavy snow to the mountains with Mount Lemmon picking up 14 inches of new snow and Hannagan Meadow 10 inches of new snow.

<b>Pima County</b>				
<b>Tucson</b>	<b>15 0600MST</b>	<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
	<b>0900MST</b>			

Locally heavy rain in the eastern and northern portion of the Tucson Metro area caused some small stream flooding causing a number of roads to be closed due to impassable wash crossings.

<b>Pima County</b>				
<b>Lukeville to Tucson</b>	<b>17 1630MST</b>	<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
	<b>18 2000MST</b>			

Heavy rain caused normally dry washes to flow with water. Stream gages reported rises up to 5 feet. Some road closures were reported especially in the eastern and northern portions of the Tucson Metro area.

<b>AZZ032&gt;033</b>	<b>Tohono Oodham Nation - Tucson Metro/Marana/Green Valley</b>			
	<b>17 1800MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>18 1130MST</b>			

Mt. Lemmon reported 24 inches of snow and Kitt Peak 7 inches.

<b>AZZ019-033</b>	<b>Northern Greenlee - Tucson Metro/Marana/Green Valley</b>			
	<b>20 1500MST</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>2130MST</b>			

Mt. Lemmon received 20 inches of new snow while Hannagan Meadow picked up 8 inches.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## ARIZONA, South

<b>AZZ030-035</b>	<b>Upper Gila River Valley - Cochise County</b>								
	<b>24</b>	<b>1300MST</b>			<b>0</b>	<b>0</b>	<b>28K</b>		<b>High Wind (G77)</b>
		<b>1500MST</b>							

A strong cold front moving across the area kicked up strong winds that caused considerable damage. Portions of the roofs of the Huachuca city school and several churches in Sierra Vista were blown off, numerous roofs had some shingles ripped off, 25 cars parked at a Sierra Vista school had their windows broken, another dozen cars parked at the Kmart store in Sierra Vista sustained some damage, some trees, street signs, and billboards were blown down, some businesses reported broken windows, and in Graham county several reports of roofs "blown off" were received. In Graham county an automated station on Guthrie Peak reported a gust to 77 knots, while a wind sensor at the Fort Huachuca army base reported a gust to 62 knots.

<b>AZZ019-033</b>	<b>Northern Greenlee - Tucson Metro/Marana/Green Valley</b>								
	<b>24</b>	<b>1500MST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2300MST</b>							

Hannagan Meadow received 14 inches of new snow and Mt. Lemmon 12 inches.

## ARIZONA, Southwest

<b>Maricopa County</b>									
<b>Chandler</b>	<b>20</b>	<b>1656MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
		<b>1745MST</b>							

There were several reports of a funnel cloud in an area between Chandler Blvd. and Queen Creek Rd. near Interstate 10.

<b>Maricopa County</b>									
<b>Phoenix</b>	<b>24</b>	<b>1412MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
		<b>1415MST</b>							

Long rope-like funnel cloud sighted by an NWS employee about 10 miles west of 57th Avenue and Happy Valley Road.

<b>Maricopa County</b>									
<b>Phoenix</b>	<b>24</b>	<b>1822MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
		<b>1823MST</b>							

<b>Maricopa County</b>									
<b>Phoenix</b>	<b>24</b>	<b>1834MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
		<b>1836MST</b>							

<b>Maricopa County</b>									
<b>Phoenix</b>	<b>24</b>	<b>1849MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>

Three funnel clouds were reported with a thunderstorm that tracked northeast across the north Phoenix metropolitan area. The first funnel cloud was reported north of 43rd Avenue and Pinnacle Peak Road. A second funnel cloud was reported near Interstate 17 and the Carefree Highway. A third funnel cloud developed near Cave Creek.

<b>Maricopa County</b>									
<b>15 NW Buckeye</b>	<b>24</b>	<b>1930MST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>

## ARKANSAS, Central and North Central

<b>Lincoln County</b>									
<b>Star City</b>	<b>09</b>	<b>2245CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Garland County</b>									
<b>7 W Hot Spgs</b>	<b>10</b>	<b>0701CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>

<b>Garland County</b>									
<b>7 S Hot Spgs</b>	<b>10</b>	<b>0708CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Saline County</b>									
<b>Avilla</b>	<b>10</b>	<b>0730CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Pulaski County</b>									
<b>Maumelle</b>	<b>10</b>	<b>0739CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Pulaski County</b>									
<b>Little Rock</b>	<b>10</b>	<b>0742CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Pulaski County</b>									
<b>North Little Rock</b>	<b>10</b>	<b>0743CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>

<b>Pulaski County</b>									
<b>Little Rock</b>	<b>10</b>	<b>0807CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>

<b>Pulaski County</b>									
<b>Little Rock</b>	<b>10</b>	<b>0807CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>

<b>Pulaski County</b>									
<b>North Little Rock</b>	<b>10</b>	<b>0811CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

<b>Pulaski County</b>									
<b>Little Rock</b>	<b>10</b>	<b>0812CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>ARKANSAS, Central and North Central</b>									
<b>Pulaski County</b>									
Jacksonville	10	0818CST			0	0			Hail (0.75)
<b>Pulaski County</b>									
North Little Rock	10	0818CST 0822CST			0	0			Hail (1.25)
<b>Pulaski County</b>									
7 NE Macon	10	0825CST			0	0			Hail (0.88)
<b>Lonoke County</b>									
1 SW Cabot	10	0835CST			0	0			Hail (0.88)
<b>Pulaski County</b>									
Maumelle	10	0845CST			0	0			Hail (1.00)
<b>White County</b>									
Beebe	10	0845CST			0	0			Hail (0.75)
<b>Lonoke County</b>									
Austin	10	0900CST			0	0			Hail (0.75)
<b>Saline County</b>									
East End	10	0905CST			0	0			Hail (0.75)
<b>Pulaski County</b>									
Hensley	10	0920CST			0	0			Hail (0.75)
<b>Pulaski County</b>									
Woodson	10	0920CST			0	0			Hail (0.75)
<b>Lonoke County</b>									
Keo	10	0935CST			0	0			Hail (0.88)
<b>Pulaski County</b>									
Little Rock	10	1010CST			0	0			Hail (0.75)
<b>Pulaski County</b>									
5 E Ferndale	10	1025CST			0	0			Hail (0.75)
<b>Yell County</b>									
2 S Danville	10	1630CST			0	1			<b>Lightning</b>
									A man was outside finishing up some yard work when he was struck by lightning. The lightning bolt went into his right arm and went out his left hip. He was treated at a local hospital for his injuries and later released.
<b>Drew County</b>									
Collins	10	1730CST			0	1			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds downed a number of trees and power lines. One house also sustained damage. A woman inside the house sustained minor injuries after being trapped for a period of time.
<b>Desha County</b>									
Mc Gehee	10	1740CST			0	0			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds knocked down numerous trees and power lines in and around McGehee. Several buildings were also damaged.
<b>Garland County</b>									
Countywide	10	1830CST 2130CST			0	0			<b>Flash Flood</b>
									Heavy rains resulted in flash flooding across portions of Garland County. Several county roads were closed due to high water for several hours.
<b>Perry County</b>									
Perry	10	2100CST			0	0			<b>Flash Flood</b>
									Heavy rains caused flash flooding in parts of Perry. High water covered several streets in town for a period of time.
<b>Saline County</b>									
Countywide	10	2100CST			0	0			<b>Flash Flood</b>
									Several roads across Saline County were closed for a period of time as a result of flash flooding.
<b>Hot Spring County</b>									
Countywide	10	2100CST			0	0			<b>Flash Flood</b>
									Heavy rains resulted in flash flooding across portions of Hot Spring County. Several county roads were impassable for several hours due to high water. Some bridges were also flooded.
<b>ARZ045</b>									
<b>Lonoke</b>	11	0502CST			0	0			<b>High Wind (G40)</b>
									High winds blew a semi-trailer off Interstate 40, 1 mile northeast of Carlisle in Lonoke County.

# Storm Data and Unusual Weather Phenomena

February 1998

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

<b>ARZ014</b>	<b>Stone</b>	<b>11</b>	<b>0720CST</b>		<b>0</b>	<b>0</b>			<b>High Wind (G40)</b>
									High winds knocked down a number of trees.
<b>Polk County</b>	<b>Grannis</b>	<b>26</b>	<b>0000CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Polk County</b>	<b>Grannis</b>	<b>26</b>	<b>0000CST</b>		<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds blew a small out-building into an automobile.
<b>Garland County</b>	<b>5 S Hot Spgs</b>	<b>26</b>	<b>0030CST</b>		<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds downed some trees and blew down a garage onto a car.
<b>Logan County</b>	<b>Paris</b>	<b>26</b>	<b>0100CST</b>		<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds downed some large trees. Several buildings and homes also sustained roof and window damage.
<b>Clark County</b>	<b>Whelen Spgs</b>	<b>26</b>	<b>0300CST</b>		<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
									Thunderstorm winds knocked down some tree limbs.
<b>Lincoln County</b>	<b>1 N Star City</b>	<b>26</b>	<b>1915CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Desha County</b>	<b>4 ENE Dumas</b>	<b>26</b>	<b>1945CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Drew County</b>	<b>Monticello</b>	<b>26</b>	<b>2000CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Pulaski County</b>	<b>Morgan</b>	<b>26</b>	<b>2050CST</b>		<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
<b>Pulaski County</b>	<b>4 W Jacksonville</b>	<b>26</b>	<b>2103CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Lonoke County</b>	<b>5 S Cabot</b>	<b>26</b>	<b>2110CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Lonoke County</b>	<b>2.5 E Cabot</b>	<b>26</b>	<b>2115CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>

## ARKANSAS, East

NONE REPORTED.

## ARKANSAS, Northwest

<b>Benton County</b>	<b>Bella Vista</b>	<b>25</b>	<b>2010CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
									A line of thunderstorms, some containing dime to nickel-sized hail and strong thunderstorm winds, developed from southeast Oklahoma into northwest Arkansas on the evening of Feb. 25. The only severe report from northwest Arkansas was dime-sized hail in Bella Vista.
									The thunderstorms formed in an unseasonably warm and moist air mass along a pre-frontal trough as an upper level disturbance in southwest flow aloft passed overhead.
<b>Sebastian County</b>	<b>Greenwood</b>	<b>26</b>	<b>1608CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Crawford County</b>	<b>Natural Dam</b>	<b>26</b>	<b>1615CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Sebastian County</b>	<b>Ft Smith</b>	<b>26</b>	<b>1615CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
<b>Washington County</b>	<b>Johnson</b>	<b>26</b>	<b>1615CST</b>		<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
<b>Sebastian County</b>	<b>Hartford</b>	<b>26</b>	<b>1753CST</b>		<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
									Severe thunderstorms developed on the afternoon of Feb. 26 over southeast Oklahoma between 3:00 and 4:00 pm and moved into parts of northwest and westcentral Arkansas between 4:00 and 5:00 pm. Another isolated severe thunderstorm developed over southern Sebastian County shortly before 6:00 pm. All severe reports were in the form of dime to quarter-sized hail.



# Storm Data and Unusual Weather Phenomena

February 1998

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

The storms developed in advance of a cold front moving into unseasonably warm and humid air. A large-scale upper level trough had also moved into the plains, causing instability to increase.

## ARKANSAS, Southeast

### Ashley County

Hamburg	10	1652CST			0	0			Hail (0.75)
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### Chicot County

Lake Vlg	10	1725CST			0	0			Hail (0.75)
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### Chicot County

Lake Vlg	10	1745CST	2	50	0	0	80K		Tornado (F1)
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Four mobile homes were turned over. Several sheds were totally destroyed. Numerous trees were blown down. One large tree fell on a house.

## ARKANSAS, Southwest

### Miller County

Texarkana	10	1255CST			0	0			Hail (0.75)
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### Miller County

2 NE Texarkana	10	1305CST			0	0			Hail (0.88)
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Nickel sized hail completely covered the ground.

### Union County

El Dorado	10	1630CST			0	1	1M		Thunderstorm Wind (G70)
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Trees were toppled throughout the area with damage to many homes and businesses and powerlines. The Noalmark Broadcasting tower was blown down and a tree fell across a home totally demolishing it. Residents were evacuated after a nitric acid tank was blown down near the El Dorado Chemical Plant. The spill residue was contained and neutralized on-site. There was one injury reported when a man was trapped inside his car after a tree fell on it.

### Nevada County

Prescott	11	0001CST			1	0			Flash Flood
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A local man was apparently fishing in the Cross Tierre Rouge Creek when he was swept away by flood waters. He was found 5 days later.  
M47OU

### Miller County

Fouke	26	0150CST			0	0			Thunderstorm Wind (G60)
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### Miller County

Doddridge	26	0155CST			0	0	50K		Thunderstorm Wind (G60)
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Trees and powerlines were blown over. A church steeple was blown off a church while several chicken houses were either damaged or destroyed.

### Lafayette County

Canfield	26	0210CST			0	0			Thunderstorm Wind (G60)
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Numerous trees down across the town.

### Hempstead County

Hope	26	0220CST			0	0			Thunderstorm Wind (G60)
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Numerous trees and powerlines toppled.

### Nevada County

Waterloo	26	0245CST			0	0			Thunderstorm Wind (G60)
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### Columbia County

10 SE Magnolia	26	0255CST			0	0			Thunderstorm Wind (G60)
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## CALIFORNIA, Extreme Southeast

### Imperial County

Glamis	20	1245MST			0	0			Funnel Cloud
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## CALIFORNIA, North Central

NONE REPORTED.

## CALIFORNIA, Northeast

### CAZ072

#### Greater Lake Tahoe Area

01	0600PST			0	0				Heavy Snow
02	0600PST								

24 hour storm total: Kirkwood Ski Area 18-24 inches and Soda Springs 14-20 inches.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Northeast</b>									
CAZ072			<b>Greater Lake Tahoe Area</b>						
	01	0735PST 1235PST			0	0			Heavy Snow
			Kirkwood Ski Area reported 8-10 inches of snow in five hours.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	01	2150PST			0	0			Heavy Snow
	02	2150PST							
			24 hour snow total: 16 inches at Homewood CA.						
CAZ071			<b>Lassen/Eastern Plumas/Eastern Sierra</b>						
	02	0540PST 1740PST			0	0			Heavy Snow
			Sattley CA: 12 inches snow in 12 hours.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	02	0600PST			0	0			Heavy Snow
	03	0600PST							
			24 hour snow total: Northstar Ski Resort 19 inches, and Sierra at Tahoe Resort 24-30 inches.						
CAZ073			<b>Mono</b>						
	02	0930PST			0	0			Heavy Snow
	03	0930PST							
			24 hour snow total: Crestview CA 37 inches, and June Lake CA 24 inches. Both locations are in Mono County along the U.S. 39 5 corridor.						
CAZ073			<b>Mono</b>						
	03	0910PST 0915PST			0	0			Avalanche
			Mono County Sheriff Office reported avalanches occurred in several places along U.S. 395 near Bridgeport CA, resulting in highway closure.						
CAZ073			<b>Mono</b>						
	06	0500PST 1700PST			0	0			Heavy Snow
			12 hour snow fall: Mammoth Lakes CA 15-18 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	06	1025PST 2225PST			0	0			Heavy Snow
			12 hour snow fall: Donner Summit 24 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	07	0640PST 2240PST			0	0			Heavy Snow
			16 hour snow fall: Truckee CA 18 inches at 6300 feet elevation.						
CAZ073			<b>Mono</b>						
	07	1200PST			0	0			Heavy Snow
	08	1200PST							
			24 hour storm total: Mammoth Mountain Ski Resort 24 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	07	2100PST			0	0			Heavy Snow
	08	0300PST							
			6 hour snow fall: Kings Beach CA 12 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	14	0600PST			0	0			Heavy Snow
	15	0600PST							
			24 hour storm total: Sierra at Tahoe Ski Area 14-24 inches, Alpine Meadows 18-24 inches, Nortstar 10-18 inches, Kirkwood 18-24 inches, and Squaw Valley 17-20 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	19	0600PST 1800PST			0	0			Heavy Snow
			12 hour snow fall: Brockway Pass, at 6800 feet elevation, 7 inches.						
CAZ072			<b>Greater Lake Tahoe Area</b>						
	19	0600PST			0	0			Heavy Snow
	20	0600PST							
			24 hour storm total: Donner Summit 24 inches, Kirkwood Ski Resort 18-24 inches, Sierra at Tahoe 14-18 inches, and Alpine Meadows 16-20 inches.						

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Northeast</b>									
<b>CAZ073</b>	<b>Mono</b>	<b>21</b>	<b>0300PST 1930PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			16 hour snow fall at 7000 feet elevation, Crowley Lake CA 12 inches. 12 hour snow fall at 8200 feet elevation, Mammoth Lakes CA 12 inches.						
<b>CAZ072</b>	<b>Greater Lake Tahoe Area</b>	<b>21</b>	<b>0600PST 1500PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			9 hour snow fall: South Lake Tahoe CA 12 inches.						
<b>CAZ072</b>	<b>Greater Lake Tahoe Area</b>	<b>21</b>	<b>0730PST 1330PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			6 hour snow fall: Kings Beach CA 10 inches.						
<b>CAZ072</b>	<b>Greater Lake Tahoe Area</b>	<b>23</b>	<b>0340PST 1340PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			10 hour snow fall: Truckee CA 12 inches.						
<b>CAZ072</b>	<b>Greater Lake Tahoe Area</b>	<b>23</b>	<b>0800PST 1445PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			Kirkwood Ski Resort CA: 12-14 inches new snow, of which 4 inches fell in a one-half hour.						
<b>CAZ073</b>	<b>Mono</b>	<b>23</b>	<b>0845PST 1745PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			9 hour snow fall: 15 S Mammoth Lakes CA, at 7000 feet elevation, 22 inches.						
<b>CAZ071</b>	<b>Lassen/Eastern Plumas/Eastern Sierra</b>	<b>23</b>	<b>1024PST 1324PST</b>			<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
			3 hour snow fall: Susanville CA 5 inches.						
<b>CAZ072</b>	<b>Greater Lake Tahoe Area</b>	<b>23</b>	<b>1100PST 1500PST</b>			<b>0</b>	<b>0</b>		<b>Mud Slide</b>
			Mud Slide near Echo Summit closed U.S. 50 for four hours. A few cars were covered, but no injuries and no damage reported.						
<b>CALIFORNIA, Northwest</b>									
<b>CAZ001-003</b>	<b>Redwood Coast - North Coast Interior</b>	<b>01</b>	<b>0300PST 1000PST</b>			<b>0</b>	<b>0</b>		<b>High Wind (G48)</b>
			Gusty winds caused minor damage. Peak gusts included: 55 mph at Maple Creek, 45 mph at Eureka and 48 mph at Crescent City.						
<b>CAZ001</b>	<b>Redwood Coast</b>	<b>02</b>	<b>1700PST 2200PST</b>			<b>0</b>	<b>0</b>		<b>Wind</b>
			Peak wind of 51 mph in Arcata.						
<b>Mendocino County</b>	<b>Numerous</b>	<b>02</b>	<b>2100PST 08 1400PST</b>			<b>0</b>	<b>0</b>		<b>Urban/Sml Stream Fld</b>
			Widespread urban and small stream flooding in Mendocino County. The greatest impact was along Highway 20 between Willits and Fort Bragg, Highway 175 at the Russian River, Highway 128 from the intersection with Highway 1 to milepost 11.5, urban flooding in Ukiah and Highway 1 at the Garcia River. The most serious flooding was at Talmage where Mill Creek spilled over into a residential area.						
<b>Humboldt County</b>	<b>1 N Loleta</b>	<b>03</b>	<b>0900PST</b>			<b>0</b>	<b>0</b>		<b>Lightning</b>
			Three cows struck and killed by lightning.						
<b>CAZ002-076</b>	<b>Mendocino Coast - Mendocino Interior</b>	<b>05</b>	<b>0100PST 0700PST</b>			<b>0</b>	<b>0</b>		<b>Wind Damage</b>
<b>CAZ003</b>	<b>North Coast Interior</b>	<b>05</b>	<b>0100PST 0300PST</b>			<b>0</b>	<b>0</b>		<b>High Wind (G57)</b>
			Strong winds associated with a cold front caused widespread damage to trees, power lines and homes in Mendocino and Southern Humboldt Counties.						

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Northwest</b>									
<b>CAZ002</b>		<b>Mendocino Coast</b>							
	<b>05</b>	<b>1800PST</b>			<b>0</b>	<b>0</b>			<b>Coastal Flooding</b>
		<b>2200PST</b>							
	Heavy surf, strong winds and a high tide combined to cause coastal flooding at Arena Cove near the town of Point Arena.								
<b>CAZ001&gt;003</b>		<b>Redwood Coast - Mendocino Coast - North Coast Interior</b>							
	<b>05</b>	<b>1900PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G82)</b>
	<b>06</b>	<b>1400PST</b>							
<b>CAZ004-076</b>		<b>Upper Trinity River - Mendocino Interior</b>							
	<b>05</b>	<b>1900PST</b>			<b>0</b>	<b>0</b>			<b>Wind Damage</b>
	<b>06</b>	<b>1400PST</b>							
	A very strong Pacific cold front slammed into Northwest California bringing widespread damage to an area hit by high winds less than 24 hours earlier. Power was cut to all of the central Mendocino County coast and half of the Ukiah Valley. Many more outages were reported throughout the area. Downed trees damaged homes and vehicles, blocked roads and cut the power. The highest winds were measured in the coastal hills where Cooskie Mountain had 94 mph, Maple Creek 76 mph, five miles east of Honeydew 70 mph and Bunker Hill 81 mph. Many coastal locations had gusts between 50 and 60 mph.								
<b>CAZ003</b>		<b>North Coast Interior</b>							
	<b>08</b>	<b>1600PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2200PST</b>							
	Three inches of snow was reported 8 miles east of Bridgeville.								
<b>CAZ004</b>		<b>Upper Trinity River</b>							
	<b>10</b>	<b>0800PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2200PST</b>							
	Four inches of snow was reported in Trinity County above 2500 feet.								
<b>CAZ001-003</b>		<b>Redwood Coast - North Coast Interior</b>							
	<b>12</b>	<b>0240PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G50)</b>
		<b>1200PST</b>							
<b>CAZ003</b>		<b>North Coast Interior</b>							
	<b>14</b>	<b>1500PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2100PST</b>							
	Five inches of snow fell at the 3500 foot level near Buck Mountain, 8 miles east of Bridgeville.								
<b>CAZ002</b>		<b>Mendocino Coast</b>							
	<b>15</b>	<b>1520PST</b>			<b>0</b>	<b>0</b>			<b>Coastal Flooding</b>
	A rogue wave swept into the Point Arena harbor and into the parking lot. Thirty cars were moved across the lot but with only minor damage. A considerable amount of sand, logs and debris was deposited in the lot.								
<b>CAZ003&gt;004-076</b>		<b>North Coast Interior - Upper Trinity River - Mendocino Interior</b>							
	<b>16</b>	<b>1300PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>17</b>	<b>0000PST</b>							
	Between 3 and 9 inches of snow were reported above 3500 feet in the Northwest California mountains. Kettenpom in southwest Trinity County had 9 inches by 3 pm.								
<b>Humboldt County</b>									
<b>1 S Big Lagoon to Big Lagoon</b>	<b>17</b>	<b>1400PST</b>			<b>0</b>	<b>0</b>			<b>Beach Erosion</b>
	Beach erosion due to ongoing large surf began to crumble a bluff with several homes. The homes nearest the ocean were either condemned or moved away from the cliff. The erosion continued for several weeks.								
<b>Mendocino County</b>									
<b>Talmage</b>	<b>19</b>	<b>1000PST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
		<b>1600PST</b>							
	Mill Creek near Talmage overflowed its banks. The Russian River near Hopland closed Highway 175.								
<b>CAZ003&gt;004</b>		<b>North Coast Interior - Upper Trinity River</b>							
	<b>19</b>	<b>1000PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2000PST</b>							
	Widespread heavy snow fell above 2800 feet in the Northwest California mountains. On South Fork Mountain, 12 inches fell above 4300 feet while six inches accumulated above 4000 feet. Meanwhile 8 miles east of Bridgeville, 5 inches fell at the 3500 foot level on Buck Mountain. Between Weaverville and Covington Mill in Trinity County, six inches fell at the 2800 foot level.								
<b>CAZ004</b>		<b>Upper Trinity River</b>							
	<b>21</b>	<b>0500PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>1500PST</b>							
	Widespread snow of 4 or more inches above 2000 feet. Weaverville at 2000 feet reported 7 inches, Trinity Center at 2500 feet had 9 inches.								

# Storm Data and Unusual Weather Phenomena

February 1998

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

## CALIFORNIA, Northwest

### **Del Norte County**

Numerous	21	0800PST 2000PST			0	0			Urban/Sml Stream Fld
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### **Humboldt County**

Numerous	21	0800PST 2000PST			0	0			Urban/Sml Stream Fld
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### **Mendocino County**

Numerous	21	0800PST 2000PST			0	0			Urban/Sml Stream Fld
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Widespread small stream flooding in Del Norte, Humboldt and Mendocino Counties. Numerous road closures due to flooding. Del Norte County Sheriff's Dispatch described the county as "swampy". Highways 175 and 128 were closed in Mendocino County. Janes Creek, Arcata Bottoms and Tyee City all near Arcata were the strongest impacted areas of Humboldt County.

## CALIFORNIA, South Central

### **Fresno County**

Fresno	01 25	0000PST 1200PST			0	0	1.6M	1.8M	Heavy Rain
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### **Kern County**

Bakersfield	01 25	0000PST 1200PST			0	0	12.5M	5.4M	Heavy Rain
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### **Kings County**

Hanford	01 25	0000PST 1200PST			0	0	20K	1M	Heavy Rain
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### **Merced County**

Merced	01 25	0000PST 1200PST			0	0	2M	1.4M	Heavy Rain
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### **Tulare County**

Visalia	01 25	0000PST 1200PST			0	0	13.9M	1.5M	Heavy Rain
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The following figures reflect estimated losses from the much above-normal rains and flooding of February. Subsequent months with normally increasing agricultural field operations were more significantly impacted by above normal rainfall. Consider this February list abridged and estimated in many respects (note Madera County is omitted, for example). The total rain/flood damage to area agriculture from the cooler and wetter spring in Central California is presented in the May Storm data figures.

Fresno County	Ag Loss \$1.8M	Property \$1.6M
Kern County	Ag Loss \$5.4M	Property \$12.5M
Kings County	Ag Loss \$1.0M	Property \$20K
Merced County	Ag Loss \$1.4M	Property \$2.0M
Tulare County	Ag Loss \$1.5M	Property \$13.9M

Fresno County was hit by a series of storms that brought heavy rainfall to the Coast Range Mountains to the west and high wind and heavy rainfall to the Central San Joaquin Valley floor. Runoff from the Coast Range caused flooding in West Fresno County affecting agricultural areas around Mendota, Firebaugh, and Cantua Creek. Approximately 9,300 acres of farmland flooded. High wind from early February storms downed approximately 25,000 almond trees in Fresno County alone. Fields were muddied for the upcoming cotton planting date in early March, deciduous trees diseased, and dairy cows stressed to the point of limited milk production.

In Kern County agricultural losses occurred due to flooding and erosion of fields that were planted and to many almond trees blown down by high wind. Other losses were attributed to livestock injury, buildings and equipment damage, and employees unable to work. Areas most severely impacted are Arvin-Lamont and McFarland, although flooding has occurred in the Lebec-Frazier Park-Cuddy Valley and Kern River Valley areas.

In Kings County about \$1.0M in flood protection costs was expended to try to protect ag land with an additional \$20K in damages due to high water in local communities in the county. No February monthly summary reports for agriculture in Merced, Tulare, or Madera Counties.

To place in perspective the month's above normal rainfall for the agricultural area, consider the following:

Fresno(Fresno)	Normal Rainfall 1.80" Received 5.10"
Bakersfield(Kern)	Normal Rainfall 1.03" Received 5.36"
Hanford(Kings)	Normal Rainfall 1.45" Received 4.26" (4.42" in Lemoore)
Oakhurst (foothills of Madera County)	Received 17.05"

Late January and the month of February saw record amounts of precipitation due to the influence of El Nino. The Sacramento 8-station index for the 1998 water year increased 4.6 million acre-feet from 13.7 MAF to 18.3 MAF. January precipitation was 214% of average with the February amount at 265%! For the 8 reference stations, average precipitation is 7.9" but Feb 1998 had 20.9". The statewide snowpack water content by the end of February was running at 160% of normal.



# Storm Data and Unusual Weather Phenomena

February 1998

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**

**Mendota**

**03 1300PST  
2200PST** **0 0** **Urban/Sml Stream Fld**

Runoff from Panoche/Silver Creek began to arrive at Mendota but damage was minimized by use of ditches and channelling through town.

**CAZ020**

### **Central San Joaquin Valley**

**03 0630PST  
1800PST** **0 0** **500K** **Flood**

From Garzas Creek, flooding damaged 2 structures and 2 chicken farms by 0630 PST. Over 100K head of poultry died at this location 4 miles west of Gustine in West Merced County. By 1015 PST, 5 structures were flooded in Gustine from Garzas Creek. At a location 5 miles WNW of Los Banos 3 structures were flooded at 1000 PST with another 3 on the west side of Los Banos at 1100 PST from San Luis Creek. Los Banos area received 3.16 inches of rain in the previous 24 hours by 1000 PST on 2/3/98. In northeast Merced County numerous instances of stream flooding were occurring by 1116 PST. Los Banos Creek by midnight of 2/2/98 reached a flow of 14,480CFS into the Los Banos Creek Reservoir exceeding the 11,500CFS record flow set in 1955.

**CAZ021**

### **Southern San Joaquin Valley**

**03 0643PST  
1800PST** **0 0** **Flood**

Persistent and locally heavy rain with saturated soils is seeing the resurgence of "swamp-like" conditions on the west side of the Southern San Joaquin Valley 17 miles southwest of Bakersfield. Standing water in the old lake bed affecting many roads.

**CAZ022**

### **Southern Sierra Nevada-Yosemite National Park To Kings Canyon**

**03 0800PST  
1200PST** **0 0** **High Wind (G61)**

At Coarsegold wind during the morning hours were consistently gusty at speeds of 30 to 40 MPH with a peak of 64 MPH at 0800 PST on 2/3/98. Wind speed measured at Badger Pass Ski Resort at 0900 PST reached 61Kts (70MPH). Over 50 trees were downed in the Chinquapin area 19 miles NE of Mariposa and in Yosemite National Park from the high gradient winds. Southeast wind was also reported at Yosemite Lakes consistently at 30MPH gusts to 50MPH during the episode.

**CAZ020**

### **Central San Joaquin Valley**

**03 0825PST  
1600PST** **0 0** **High Wind (G50)**

Much like the Southern San Joaquin Valley but not quite as widespread, high wind in the Central San Joaquin Valley was also experienced...especially for Fresno County. Trees were uprooted in the Caruthers, Riverdale, and Easton areas at 0825 PST...with numerous autos and houses damaged in Selma by downed trees at 0855 PST. Powerlines were downed by felled trees causing power outages...over 22,000 electric customers in Fresno County were without power due to the high wind with several roads also closed due to wind-downed obstructions. The highest wind at the Fresno ASOS was a southeast wind gust to 37 Kts at 0949 PST. Some wind damage was still being reported at 1600 PST in the Clovis area. This gradient high wind episode accompanied the occurrence on 2/3/98 of the lowest Fresno February sea level pressure reading of 29.26" Hg eclipsing the old record of 29.32" Hg set in 1981.

### **Kern County**

**2 NNE Cantil**

**03 1015PST  
1215PST** **0 0** **Flash Flood**

After the fact by 7 hours but water cut a 20-foot section of the Redrock-Randsburg Road in the Kern Desert due to locally heavy rains. No injuries or vehicles involved.

### **Kern County**

**4 WSW Lost Hills**

**03 1108PST  
2000PST** **0 0** **Flash Flood**

Heavy and steady rain on the Eastern Slopes of the Coast Range Mountains led to State Highway 33 being affected by numerous flows from State Highway 46 south to McKittrick in West Kern County. Some minor flow of water was observed over Highway 33 at 1046 PST but the main flow at 1108 PST trapped some cars. No injuries reported.

**CAZ024**

### **Kern County Mountains**

**03 1530PST  
04 0600PST** **0 0** **Flood**

Continued steady and locally heavy rain provided small stream flow over low lying roads near Loraine in the extreme Southern Sierra Nevada and eastern Tehachapi Mountains in Kern County.

**CAZ020**

### **Central San Joaquin Valley**

**03 1837PST  
04 0200PST** **0 0** **Flood**

With substantial rain again in eastern Merced and western Mariposa Counties over the headlands of east Merced stream groups, Bear Creek again flooded. Creek banks were breached downstream of Merced to relieve pressure and direct flooding...no structures were involved but again agricultural land was flooded near Thornton 2 miles southwest of town. On Miles Creek and at a point 1 mile southwest of Planada, one structure was flooded at 1611 PST as a part of this overall event.

# Storm Data and Unusual Weather Phenomena

February 1998

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**

<b>CAZ021</b>	<b>Southern San Joaquin Valley</b>								
	<b>06</b>	<b>0410PST 1400PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G46)</b>
	Gradient wind from the southeast reached 46Kts (53MPH)...no damage reported.								
<b>CAZ020&gt;022</b>	<b>Central San Joaquin Valley - Southern San Joaquin Valley - Southern Sierra Nevada-Yosemite National Park To Kings Canyon</b>								
	<b>06</b>	<b>0600PST 1700PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G56)</b>
	A Coarsegold spotter in Madera County reported 56Kt wind at 1120 AM...Mariposa County wind was reported at 40 MPH during the day. Wind in the Madera County mountains began as early as 1745 PST 2/5/98 and peaking on the 6th...over 1800 electric utility customers were still without power in the Oakhurst area by the morning of the 7th. Strong southeast wind felled a tree into a house in the Caruthers area of Fresno County around 1000 PST on 2/6/98. Over 32,000 electric utility customers were without power in Merced, Madera, Fresno, Tulare, and Kings Counties. Strong southeast gradient wind again brought damage to Southern San Joaquin Valley locations beginning around 0600 PST. Powerlines and trees felled led to the loss of power to over 32,000 customers in the Kings, Tulare, and Fresno County areas, including 2000 in the Lemoore area of Kings County and 3500 in Dinuba in Tulare County.								
<b>CAZ022</b>	<b>Southern Sierra Nevada-Yosemite National Park To Kings Canyon</b>								
	<b>06</b>	<b>0600PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>10</b>	<b>0600PST</b>							
	12 inches of snow in the 1st 24 hours ending by 0600 on the 7th...an additional 18-24" by the 8th...then another 8" by the morning of 9th...and then an additional 8" by the morning of the 10th at Mammoth Mountain (Over 4 feet in 4 days). Badger Pass in Yosemite National Park received 6" of new snow in the early morning hours of the 6th with an additional 12" of new snow in the early morning hours of the 7th. At Fish Camp in Mariposa County at the 5000-foot level, a spotter reported over 30" of snow fell primarily on calendar day 2/7/98.								
<b>CAZ021</b>	<b>Southern San Joaquin Valley</b>								
	<b>06</b>	<b>0715PST 1400PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G83)</b>
	At the CHP weigh-station at the base of the Tehachapi Mountain Grapevine, 25 miles south of Bakersfield, wind was measured at 96 MPH. No damage reported.								
<b>CAZ021</b>	<b>Southern San Joaquin Valley</b>								
	<b>06</b>	<b>1000PST 1500PST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>High Wind</b>
	In the Dinuba area, a number of structures were also impacted by the area-wide high wind. The wind damage began at 1000 PS T with a few small roofs damaged, trees blown over, and a large number of powerlines downed. PG&E reported 74 poles, 11 transformers, and three miles of wire down in the Tulare, Fresno, Madera, Merced, and Kings County area from the 2/3 and 2/6/98 wind storms.								
<b>CAZ020&gt;021</b>	<b>Central San Joaquin Valley - Southern San Joaquin Valley</b>								
	<b>07</b>	<b>2000PST</b>			<b>0</b>	<b>0</b>	<b>2.5M</b>	<b>1M</b>	<b>Flood</b>
	<b>08</b>	<b>2300PST</b>							
	In Bakersfield significant rain again led to ponding water and flooding on many secondary roadways by 2130 PST on 2/7/98. Stream flow from Panoche/Silver Creek crested at 13,000CFS on 2/7/98 at 2000 PST at a gauge height of 12 feet. The resulting flooding downstream peaked in Mendota around 1800 PST on 2/8/98. Some flooding affected State Highway 198 west of Interstate-5 in far western Fresno County. In Merced County on the 7th, 0.77" of rain occurred in the Los Banos area on the 7th with flooding south of Gustine from breached banks in Quento and Garzas Creeks and water flow across highways into homes. High water from a canal into Los Banos Creek caused some minor flooding around the City of Los Banos by 1700 PST 2/8/98. Overwhelmed drainage systems also led to significant ponded water and street flooding in Hanford in Kings County by 1800 PST on 2/8/98. The first 8 days in February for Central California were extremely wet...rainfall in the Southern Sierra Nevada and Kern County Mountains ranged from 6-12" with snowfall accumulations of 3-6 feet. The Central and Southern San Joaquin Valley received anywhere from 2-7" of rain in the same period. A few of the large totals by county are listed: Wawona in Mariposa County had 12.88"...Los Banos in Merced County had 6.55"...In Madera County Oakhurst had 10.04" while Madera had 2.60"...In Fresno County Bass Lake had 8.83" and Fresno 2.32"...Lemoore in Kings County had 2.13" of rain...In Tulare County Visalia had 2.09"...and in Kern County Frazier Park had 8.38" and Bakersfield had 2.02". Normals for this time period would have had only 0.32" of rain on the valley floor and roughly double that in the mountains! Merced County had assessed the first 10 days of February causing \$1.8M damage in that area alone!								
<b>Mariposa County</b> 2 NNE Usona	<b>07</b>	<b>2030PST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Lightning</b>
	A lightning strike with thunderstorms caused electrical damage to homes due to a power surge through 8 area homes. Heavy rain and small hail also accompanied the lightning activity.								
<b>CAZ022</b>	<b>Southern Sierra Nevada-Yosemite National Park To Kings Canyon</b>								
	<b>14</b>	<b>0100PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>17</b>	<b>0600PST</b>							
	Again in the upper elevations of the Southern Sierra Nevada represented by Mammoth Mountain...8" of snow fell by 0600 on the								



# Storm Data and Unusual Weather Phenomena

February 1998

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

14th...another 16" by 0600 on the 15th...and 17" by 0600 on the 17th. Badger Pass in Mariposa County received 11" of new snow overnight by the morning of the 15th.

**Merced County**  
5 E Los Banos

14	1325PST 1326PST	0.1	5	0	0				<b>Tornado (F0)</b>
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Storm spotter videotaped a very brief touchdown of a funnel from a wall cloud in rural Merced County. No damage occurred.

**Fresno County**  
2 WNW Firebaugh to  
1 ESE Firebaugh

14	1441PST 1450PST	3	20	0	0	100K			<b>Tornado (F1)</b>
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Hail up to 1" hail occurred just after the storm. Several structures were damaged in downtown Firebaugh as the tornado passed. Roof damage, broken windows, trees uprooted, small structures destroyed, and moved trailers were all observed with its passage.

**Tulare County**  
3 WNW Porterville

14	1800PST 1805PST			0	0				<b>Funnel Cloud</b>
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Spotter observed funnel to the WNW of Porterville High School. Classic 'V' shape about 1/3 of the way toward the ground. No damage occurred in the area.

**CAZ021**

**Southern San Joaquin Valley**

14	1400PST			0	0				<b>Flood</b>
15	1800PST								

Locally heavy rain with some thundersorm activity on the 14th and residual showers on the 15th provided continued runoff on the Southern San Joaquin Valley floor in and around Lamont. The runoff head arrived in Lamont at 1130 PST on 2/15/98. Some flooding occurred in West Kern County near Elk Hills from convective activity at 1400 PST on 2/14/98.

**Kings County**  
Lemoore

14	1610PST 1640PST			0	0	50K			<b>Thunderstorm Wind</b>
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Afternoon convective activity on the 14th provided wind gusts to 40 MPH at 1610 PST damaging powerlines and dropping service to 1800 electric customers in the Lemoore area.

**Tulare County**  
Dinuba to  
Visalia

14	1630PST 1700PST			0	0	50K			<b>Thunderstorm Wind</b>
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Knocking down trees into powerlines, thunderstorm wind left 3100 customers without power in areas of Northwest Tulare County, including the Dinuba area.

**Madera County**  
Chowchilla Arpt

14	1400PST 1520PST			0	0				<b>Heavy Rain</b>
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A large thunderstorm brought 1" of rain within an hour to the Chowchilla area...with a 24-hour storm total of 1.5 inches since 0800 PST. The convective activity also provided locally heavy thundershowers for the adjacent mountain areas...a North Fork spotter indicated 1/4" hail with a 1604 PST thunderstorm.

**Fresno County**  
3 NW (Fat) Air  
Terminal

14	1700PST			0	0	5K			<b>Lightning</b>
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Lightning strike on a traffic signal at Cedar/Shaw in North Fresno.

**Fresno County**  
Fresno

14	1700PST			0	0	1K			<b>Thunderstorm Wind (G50)</b>
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Thunderstorm wind downed a tree at Van Ness and Garland in Fresno. Between 1700 PST and 1900 PST thunderstorms accompanied by gusty wind downed trees and powerlines taking out power to 3500 utility customers in Fresno, Clovis, Selma, and Auberry in Fresno County. Wind speed estimated.

**CAZ024**

**Kern County Mountains**

14	1800PST			0	0				<b>High Wind (G90)</b>
15	0400PST								

Locally strong wind funneled by terrain reached 90Kts reported by a spotter 4 miles west of Tehachapi in the Kern County Mountains. Gusts to 41Kts at Mountain Valley Airport were reported at 1852 PST. Near Lake Isabella at Mountain Mesa "strong" wind was reported by spotters after 2230 PST on 2/14/98.

**Madera County**  
Nipinnawasse

19	0600PST			0	0				<b>Heavy Rain</b>
20	0600PST								

**Tulare County**  
Springville

19	0600PST			0	0				<b>Heavy Rain</b>
20	0600PST								

While not necessarily excessive in the previous 24 hours...rainfall accumulations in Central California were very impressive by 02/20/98. For example...Nipinnawasse in the Madera County foothills of the Southern Sierra Nevada accumulated 13.17" of rain in

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **CALIFORNIA, South Central**

the first 3 weeks of February. In the Tulare County foothills of the Southern Sierra Nevada Springville had 27.62" of rain by early 02/20/98. While only specifically mentioning reports from Madera and Tulare Counties here...Mariposa/Merced/Fresno/Kings/ and Kern County figures also had much above normal rainfall by 02/20/98.

**CAZ022>024**

### **Southern Sierra Nevada-Yosemite National Park To Kings Canyon - Tulare County Mountains - Kern County Mountains**

<b>19</b>	<b>1500PST</b>								
<b>20</b>	<b>1200PST</b>					<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

Significant snowfall occurred throughout the Central California Mountain Areas beginning 2/19 and into 2/20/98. Mammoth Mountain reported 10" of new snow...Fish Camp in Mariposa County had 16" of new snow in the 24 hours preceding 0750 PST 02/20/98 and still snowing at 0944 PST 02/20/98 at Wawona. Sierra Summit in Fresno County had 15" of new snow overnight by 0705 PST 2/20/98. Badger Pass snow depth by this time in excess of 114" of packed snow. In the Tehachapi Mountains of Kern County 5" of new snow fell and accumulated in the Tehachapi Valley by 0645 PST 02/20/98.

**CAZ022**

### **Southern Sierra Nevada-Yosemite National Park To Kings Canyon**

<b>21</b>	<b>1500PST</b>								
<b>22</b>	<b>1000PST</b>					<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

Mammoth Mountain in eastern Madera County reported 18 inches of new snow overnight.

**Kern County**

**Lamont**

<b>22</b>	<b>2300PST</b>								
<b>25</b>	<b>0800PST</b>					<b>0</b>	<b>0</b>		<b>Urban/Sml Stream Fld</b>

**Kern County**

**Weed Patch**

<b>23</b>	<b>2000PST</b>								
						<b>0</b>	<b>0</b>		<b>Urban/Sml Stream Fld</b>

Rain in the Kern County area continued to have the Lamont area in the Southeast San Joaquin Valley plagued by runoff from Caliente and other area small streams. Pondered water in addition to small flows were already causing nuisance flooding with some damage to homes and small businesses by late afternoon and early evening of the 23rd. Near continuous rain through the month of February saturated soils throughout Central California. While not exceptionally heavy rain had not occurred in the 24 hours previous to 2/23/98...small stream flows were beginning to overburden downstream communities' ability to handle any runoff. Only 50CFS out of Caliente Creek was overtaxing drainage basins by 2300 PST on 2/22/98 in Lamont although the rain was not yet over in the Kern County area. Note other flooding areas on and around this date in Central California. More substantial flow was yet to come later in the evening of the 23rd and on the 24th for the Lamont area. Additional flooding was also reported in Weedpatch (south-Central Bakersfield Metro area) by late in the evening of the 23rd due to heavy rainfall contributing to substantial ponded water and runoff.

**Madera County**

**Oakhurst**

<b>23</b>	<b>1316PST</b>								
	<b>1330PST</b>					<b>0</b>	<b>0</b>	<b>10K</b>	<b>Thunderstorm Wind</b>

Thunderstorm activity through Central California included the mountain area. An Oakhurst spotter in Eastern Madera County reported a TSTM with 50 MPH wind and locally heavy rain early in the afternoon of 2/23/98.

**Fresno County**

**3 NNE (Fch) Chandler Af**

<b>23</b>	<b>1330PST</b>								
	<b>1400PST</b>					<b>0</b>	<b>0</b>	<b>100K</b>	<b>Thunderstorm Wind</b>

As a thunderstorm gust front swept through Fresno, trees and powerlines were downed. Over 18,000 electric utility customers were without power in the area and a tree was toppled onto a house near San Joaquin Memorial High School in north-Central Fresno beginning at 1:30 PM PST. With the thunderstorm activity some small hail was also reported...sizes less than 3/4" were reported at Selma in south-Central Fresno County near the same time. As a precursor to this event, gusty wind to 50 MPH was reported in the West Merced County area of Pacheco Pass at 1015 PST...but no damage was reported at that time in the area.

**CAZ022**

### **Southern Sierra Nevada-Yosemite National Park To Kings Canyon**

<b>23</b>	<b>1430PST</b>								
<b>24</b>	<b>0600PST</b>					<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

In the High Southern Sierra represented by Mammoth Mountain in Eastern Madera County, 20" of new snow fell in the 18 hours prior to 0600 PST on 2/24/98.

**Kern County**

**4 NE Mojave to 8 NE Mojave**

<b>23</b>	<b>1500PST</b>								
	<b>1800PST</b>					<b>0</b>	<b>0</b>	<b>10K</b>	<b>Flash Flood</b>

State Highway 14 closed from 4 miles northeast of Mojave to 8 miles northeast of Mojave due to water over the roadway caused by locally heavy rain in the adjacent Tehachapi Mountains. Cache Creek flooded from the Mojave area receiving 2.2" of rain in the previous 2 days on already moist soils.

**CAZ024**

### **Kern County Mountains**

<b>23</b>	<b>1730PST</b>								
<b>25</b>	<b>0800PST</b>					<b>0</b>	<b>0</b>		<b>Flood</b>

Steady rainfall in the Tehachapi Mountains led to Cuddy Creek flowing strong and high damaging homes along its path in Lake-of-the-Woods in Southwest Kern County. Unofficial reports were received of 6" of rain in 3 days (21st/22nd/and 23rd) causing problems by the afternoon of the 23rd along Cuddy Creek. In the Lake Isabella area...Bodfish Creek and Clear Creek

# Storm Data and Unusual Weather Phenomena

February 1998

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

flooded the Caliente-Bodfish Road and Erskine Creek just above the town of Lake Isabella washed over one lane of Lake Isabella Blvd by 1730 PST on Monday evening, 2/23/98. In the Weldon and Onyx area east of Lake Isabella, Kelso Creek began to flow heavily on the 23rd. Just above Weldon 1.5" of rain was observed on 2/22, an additional 1.75" on the 23rd, and the snowmelt runoff/lag was observed as a time delay of 12 hours by Tuesday morning the 24th with 1600CFS of flow at Weldon. Highway 178 was closed due to runoff over the roadway between East Lake Isabella and Walker Pass for a brief time on the 23rd.

**CAZ021**

### **Southern San Joaquin Valley**

<b>23</b>	<b>2000PST</b>	<b>0</b>	<b>0</b>	<b>18M</b>	<b>Flood</b>
<b>25</b>	<b>0800PST</b>				

Caliente Creek progressed from nuisance flow to flooding by the wee hours of the morning of 2/24/98. The flow climbed to a peak estimated at 6000CFS at Bena (in the foothills of the Tehachapi Mountains and upstream of Lamont) by 0230 PST on 2/24/98. Evacuation of Lamont was begun at 2000 PST on 2/23/98 in anticipation of flooding due to the steady accumulation of rain. Bakersfield Spotter Bob Niebel reported 0.88" of rain by 1822 PST on 2/23/98 and a seasonal total of 10.27" (normal yearly rain for Bakersfield is only near 5.72")...Meadows Field reported a rain total of 1.26" on 2/22 and 2/23. Further downstream of Lamont, water from Caliente Creek flooded and closed State Highway 99 northbound lanes at Herring Road 8 miles south of Bakersfield by 0800 PST on the 24th.

The White River in Southwest Tulare County had 700 CFS flow in its shallow channel by midnight on the 23rd. By 0130 PST on Tuesday 2/24/98, the White had breached its banks and flooded the town of Earlimart at an estimated loss of \$13.7M, in addition to closing State Highway 99 through the town. Up to 250 homes were impacted by the flooding, with 50 homes having 3' or more of water in them...220 people were forced to evacuate. All the tributaries of the White River (Speas, Chalaney, Coho, and Tyler Gulch Creeks) were all flowing heavy to raise the White River to flooding by late on the 23rd. Lewis Creek near Tonyville and Frazier Creek near Strathmore overflowed early on Tuesday the 24th causing an estimated \$1.5M in damage to area homes and businesses. Rainfall in the 24 hours prior to flooding early on the 24th was estimated at 1-1.5" in the lower Tulare County Mountain foothills. Seasonal rainfall 10 miles NE of Springville in Tulare County was 28.86" by 0740 PST on the 23rd! Yokohl Creek east of Exeter in Tulare County had minor flooding reported in CA Zone 21 by 0825 PST on the 24th.

Poso Creek in northwest Kern County breached its banks late the night of the 23rd with a flow estimate of 7000CFS by 0100 PST on 2/24/98 and flooded the Kern County town of McFarland (112 homes) at a cost of \$2.5M by 1300 PST on the 24th. The Poso Creek high water also threatened some rural homes downstream near Wasco later on the 24th.

**CAZ025**

### **Kern County Desert**

<b>24</b>	<b>0200PST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>Flood</b>
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Runoff from the nearby Tehachapi Mountains produced sheet flow flooding down into the Kern Desert community of Rosamond. Two homes and roads were damaged by the water flow early in the morning of the 24th.

**CAZ021**

### **Southern San Joaquin Valley**

<b>24</b>	<b>0700PST</b>	<b>1</b>	<b>0</b>		<b>Fog</b>
	<b>0900PST</b>				

With flood waters present on and near State Highway 99 3 miles south of McFarland, the fatality occurred at 0805 PST as dense fog shielded stopped traffic and inbound traffic was unable to stop due to water-slickened roads.  
F33VE

## CALIFORNIA, Southeast

**CAZ026**

### **Owens Valley**

<b>01</b>	<b>1400PST</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
<b>03</b>	<b>1400PST</b>				

Prolonged snowfall over the east slopes of the southern Sierra Nevada deposited two feet of new snow at Aspendell (8500 feet) in the first 30 hours and left a storm total of 31 inches during a 48 hour period.

**CAZ026**

### **Owens Valley**

<b>06</b>	<b>0400PST</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>2000PST</b>				

The first in a series of winter storms dropped heavy snow on the southern Sierra Nevada mountains. Aspendell (8500 feet) picked up 23 inches of new snow in a little more than 12 hours.

**CAZ026**

### **Owens Valley**

<b>07</b>	<b>1200PST</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
<b>08</b>	<b>1800PST</b>				

After a short break between storms, the southern Sierra Nevada received another dumping of snow with Aspendell reporting an additional 20 inches in a 30 hour period.

**CAZ026**

### **Owens Valley**

<b>23</b>	<b>0630PST</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>2000PST</b>				

**Inyo County  
Death Vly**

<b>23</b>	<b>0800PST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Heavy Rain</b>
	<b>1800PST</b>				

The last of the February storms pounded southern California with heavy snow in the mountains and heavy rain across the deserts. Aspendell, in the southern Sierra, saw a storm total of 19 inches of new snow in a little over 12 hours. Death Valley National Park

# Storm Data and Unusual Weather Phenomena

February 1998

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

was hit hard by heavy rains which caused a rock slide to block Highway 190 between Stovepipe Wells and Panamint springs. Also, several other roads were closed throughout the park due to minor flooding and standing water.

## CALIFORNIA, Southwest

### **CAZ042-042-042>043-043-043 Orange County Coastal Plain - San Diego County Coasts**

	<b>01</b>	<b>0000PST</b>		<b>0</b>	<b>1</b>	
	<b>26</b>	<b>1200PST</b>				<b>Heavy Surf</b>

A series of powerful storms, lined up across the Pacific, generated periods of towering surf and swell that battered beach-front buildings and piers, hammered crumbling sea cliffs, and swamped low-lying coastal roads. Ten to fifteen foot waves were common, with a few sets reaching twenty feet in favored coastal locations. The waves were particularly destructive at times of astronomical high tides, since the normal tides were already running as much as one foot above normal due to El Nino conditions in the eastern Pacific. Early on the eighth, 5 mobile homes collapsed in San Clemente under the waves, and the Balboa Pier was undermined. In Encinitas, beach-front restaurants were repeatedly damaged and a parking lot was destroyed. Early on the twenty-fourth, two sea-side homes succumbed in Del Mar, and three others were evacuated and in danger of collapsing. People standing too close to the waves were swept off their feet, and lifeguards made numerous rescues. The waves pinned a woman against the rocks at Moonlight Beach in Encinitas around 5:00 PM on the seventh. Lifeguards struggled to pull her to safety. She was treated for hypothermia and bruises at a local hospital. Damage continued to mount well after the surf subsided.

### **CAZ058 San Diego County Mountains**

	<b>02</b>	<b>0000PST</b>		<b>2</b>	<b>12</b>	<b>Cold</b>
	<b>04</b>	<b>1800PST</b>				

M25OU, M19OU

### **CAZ042-055-057 Orange County Coastal Plain - San Bernardino County Mountains - Santa Ana Mountains And Foothills**

	<b>03</b>	<b>0200PST</b>		<b>0</b>	<b>0</b>	<b>High Wind (G52)</b>
		<b>1000PST</b>				

#### **Orange County Countywide**

	<b>03</b>	<b>0800PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
		<b>1300PST</b>				

#### **San Diego County Ocean Beach to Chula Vista**

	<b>03</b>	<b>1000PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
		<b>1500PST</b>				

A deep low pressure trough moved through California accompanied by strong surface winds and heavy downpours. The strongest winds were clocked in Orange County and through the mountains of San Bernardino County, in advance of the storm. During the morning hours, winds gusted to 60 mph in many areas, felling trees, breaking tree branches, and causing scattered power outages. Moderate, to locally heavy rain flooded some intersections and streets throughout coastal areas, and left low-lying areas under water. Rising flood waters briefly stranded motorists, but in general, most flooding problems were routine. San Clemente was one of the hardest hit areas with almost 2.5 inches of rain and thunderstorm gusts to 55 mph. Snow fell as low as 4500 feet, and the weight of it snapped tree branches and power lines. On the third and the fourth, Border Patrol Agents found 12 illegal immigrants near Campo, suffering from hypothermia. Two other young men succumbed to the combination of strong winds, cold temperatures, and rain. Their bodies were found in rugged terrain near Campo on the seventh.

#### **Orange County Countywide**

	<b>06</b>	<b>1200PST</b>		<b>0</b>	<b>0</b>	<b>4.3M</b>	<b>242K</b>	<b>Urban/Sml Stream Fld</b>
		<b>1700PST</b>						

#### **Orange County Irvine**

	<b>06</b>	<b>1300PST</b>		<b>0</b>	<b>0</b>	<b>10K</b>	<b>Lightning</b>
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#### **Orange County Newport Beach to Irvine**

	<b>06</b>	<b>1300PST</b>		<b>0</b>	<b>0</b>	<b>880K</b>	<b>200K</b>	<b>Flood</b>
		<b>1500PST</b>						

#### **Riverside County**

	<b>06</b>	<b>1300PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
		<b>2359PST</b>				

Mira Loma to Temecula

#### **San Bernardino County**

	<b>06</b>	<b>1300PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
		<b>2359PST</b>				

Chino to Highland

#### **San Diego County**

	<b>06</b>	<b>1300PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
		<b>1600PST</b>				

Fallbrook to San Ysidro

#### **Orange County**

	<b>07</b>	<b>2200PST</b>		<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
	<b>08</b>	<b>0200PST</b>				

Costa Mesa to San Clemente

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **CALIFORNIA, Southwest**

### **San Bernardino County**

Chino to	07	2200PST			0	0			Urban/Sml Stream Fld
Highland	08	0200PST							

### **San Diego County**

(Ocs)Camp Pendleton to	07	2300PST			0	0			Urban/Sml Stream Fld
Dulzura	08	0600PST							

### **Riverside County**

Riverside to	08	0200PST			0	0			Urban/Sml Stream Fld
Temecula		0600PST							

### **CAZ043**

#### **San Diego County Coasts**

08		0400PST			0	0			Flood
		1500PST							

### **San Diego County**

Cardiff By The Sea to	09	0000PST	3	25	0	0			Tornado (F0)
Rancho Santa Fe		0005PST							

An exceptionally strong westerly jet-stream aloft, and a deep upper-level trough of low pressure off the coast, steered a barrage of weather systems through southern California for several days. The action started off with high winds and then heavy rain on the sixth. Rainfall up to three inches caused widespread flooding, stranding motorists, and resulting in sporadic road closures. The most serious flooding occurred in Newport Beach and Irvine during the early afternoon. Several Newport schools had flooded classrooms and were evacuated. In Irvine, water and mud rushing through Bommer Canyon flooded 25 townhomes and a city park. Lightning also struck a home in Irvine, blowing out windows, damaging the roof, and causing a gas line rupture. In Dana Point, a tree-covered hillside slid into a hotel parking structure, submerging at least six cars in rock and sand. Local State of Emergencies were declared in San Clemente, Laguna Beach, Dana Point, and Irvine. Elsewhere throughout the valley areas of southwest California, several mud slides closed roads and blocked drainage channels, exacerbating the already high water levels. Numerous swift-water and standing-water rescues were made as water quickly surrounded homes and cars. Gusty winds easily pushed over trees whose shallow root systems were anchored in water-logged soil, damaging homes and automobiles, and causing sporadic power outages. Sink holes began to open up, undermining some roadways. Over two inches of rain along the San Diego River late on the seventh and early on the eighth, sent the river out of its banks. It crested at 12.5 feet at Fashion Valley during the morning of the eighth, which is 1.2 feet above flood stage.

Another round of heavy showers during the predawn hours on the ninth, spawned a small tornado that flipped a 6x12 foot wood and metal shack in Cardiff, and blew down trees in Rancho Santa Fe.

### **Orange County**

La Habra to	14	1000PST			0	0			Urban/Sml Stream Fld
San Clemente		1800PST							

### **San Diego County**

(Ocs)Camp Pendleton to	14	1200PST			0	0			Urban/Sml Stream Fld
San Ysidro		2000PST							

### **San Diego County**

Pala to	14	1500PST			0	0			Urban/Sml Stream Fld
Jacumba		2200PST							

### **CAZ043**

#### **San Diego County Coasts**

14		2000PST			0	0			Flood
		1200PST							

Another in a series of strong low pressure troughs moved rapidly through California from the west. During the afternoon and evening hours, most coastal areas received between one and two inches of rain, with as much as four inches reported in Placentia, in northeast Orange County. Valley and mountain areas picked up anywhere from three to five inches. The rapid runoff forced the San Louis Rey River out of its banks in the Pauma Valley, and closed numerous roads due to high water, mud slides, and washed out or undermined bridges. Flooded intersections prompted several rescues. In northern San Diego County, previously torched hillsides gave way under the torrential downpours, sending rivers of mud onto many roads. A hillside slid into a restaurant in Laguna Beach, and a large sink hole forced the closure of Santiago Canyon Road for several days. Local two inch rains sent the San Diego River slightly above flood stage, submerging low-lying roads and parking facilities for the second time in two weeks.

### **CAZ055>056-058**

#### **San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains**

16		1900PST			0	0			Heavy Snow
		1500PST							

### **San Diego County**

5 SW Ocean Beach to	17	1800PST			0	0			Waterspout
6 SW Ocean Beach		1810PST							

A low pressure trough at the surface, and very cold air aloft, set the stage for heavy snow in the mountains. Snow was reported as low as 3500 feet. Eight to twelve inches of snow fell above 5500 feet, with six to eight inches as low as 4500 feet. The cold,

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **CALIFORNIA, Southwest**

unstable conditions triggered a waterspout which was visible off of Point Loma.

<b>CAZ060</b>			<b>Apple And Yucca Valleys</b>						
	23	0800PST			0	0			<b>High Wind (G52)</b>
		1200PST							
<b>CAZ055&gt;056-058</b>			<b>San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains</b>						
	23	1600PST			0	0			<b>Heavy Snow</b>
	24	1000PST							
<b>Orange County</b>									
Countywide	23	1700PST			2	2	29.7M	280K	<b>Flood</b>
	24	0500PST							
		M25PH, M44PH							
<b>San Bernardino</b>									
County									
Southwest Portion	23	1800PST			0	0	35.9M	14.1M	<b>Flood</b>
	24	0600PST							
<b>Riverside County</b>									
West Portion	23	1900PST			0	0	8.2M	4.2M	<b>Flood</b>
	24	0700PST							
<b>San Diego County</b>									
West Portion	23	2000PST			0	0	10.3M	6.9M	<b>Flood</b>
	24	0600PST							
<b>Orange County</b>									
Huntington Beach	24	0130PST	0.3	25	0	0	20K		<b>Tornado (F0)</b>
		0135PST							
<b>San Diego County</b>									
2 W Mission Beach to 1 W Mission Beach	24	0800PST			0	0			<b>Waterspout</b>
		0810PST							

A powerful Pacific storm fed by warmer than normal El Nino conditions in the eastern Pacific, slammed into southern California with strong winds, thunderstorms, and very heavy rain. This was the final in a series of heavy storms which pummelled the region this month. In many areas the ground was nearly saturated and some reservoirs were nearing or exceeding their capacity. The two, to locally five inches of rain which ensued, caused widespread flooding and property damage, prompting the President to declare all four counties Federal Disaster Areas. Strong winds gusting over 40 mph at times felled trees, whose support was weakened in the water-logged soils, which snapped utility lines, resulting in sporadic power outages. Snow levels dropped as low as 1400 feet in the high deserts of San Bernardino County and wind gusts to 60 mph knocked out power to thousands. In the mountains, 1 to 2 feet of heavy, wet snow above 6000 feet, snapped tree branches and power lines. Above 7000 feet, 3 to 4 feet of snow fell. In Laguna Beach, two hillsides gave way, sending a river of mud and water through homes and cars. Two men were killed and at least two others injured, and three hundred homes were damaged, 18 of them seriously. In Apple Valley and Hesperia, flooding caused major damage to scores of homes, while hundreds of homes and businesses in other communities suffered minor damage. In Apple Valley alone, two dozen families were evacuated, and damage to public and private property reached \$10 million. Parts of 74 roads had to be closed throughout the Victor Valley. Many roads, rail lines, and bridges were damaged or had to be closed for a time, including I-15 through the Cajon Pass. Dangerous swift-water rescues occurred in Colton, Pedley, Canyon Lake, Redlands, Sun City and San Jacinto. In San Diego County, 200 people were evacuated from three mobile home parks in Oceanside, and portions of Camp Pendleton were flooded, due to the raging Loma Alta Creek. Numerous sink holes developed. One near the I-15 and Balboa Avenue in San Diego, measured 550 feet long, 35 feet wide, and 65 feet deep. The San Diego River at Fashion Valley peaked at 15.1 feet at 4:00 am on the twenty-fourth, which is 3.8 feet above flood stage. For the third time this month, low lying roads, golf courses, and parking facilities were inundated.

The persistent wet weather damaged the strawberry crop, assorted winter vegetables, citrus and avocado groves, and hurt the flower industry in San Diego County, but losses to dairymen in San Bernardino and Riverside Counties was staggering. Thousands of cows succumbed to the weather. Some drowned, others died of exhaustion and fatigue from struggling through 3 to 4 feet of mud, and many lost calves.

Damage estimates to residences, businesses, property, infrastructure, agriculture, and the cost of emergency services, and for clean-up for all four counties exceeded \$100 million. While a large percentage of this figure is attributable to this storm, some portion was the result of previous storms this month. The environment that these storms created, helped facilitate the runoff and subsequent flooding which ensued during this final storm of the month.

Toward the end of the storm, a small tornado touched down in Huntington Beach at the Villa Huntington Mobile Estates. A carport and children's playroom was ripped up. Flying debris hit a transformer, knocking out power to 200 homes and a portion of a roof settled atop a tree one quarter mile away. Later that morning a waterspout was sighted off of Mission Beach.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Upper</b>									
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>01</b>	<b>0235PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G51)</b>
		<b>0740PST</b>							
	Spotter Report 9 miles north of Weed								
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>01</b>	<b>1613PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	Spotter 6 miles east of Black Butte reported 8 inches of snow past 24 hrs.								
<b>CAZ011-011</b>	<b>Siskiyou County</b>								
	<b>06</b>	<b>0319PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G52)</b>
		<b>0500PST</b>							
	Spotter 6 mi. S of Yreka								
<b>Siskiyou County Weed</b>	<b>06</b>	<b>1015PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
	Spotter in Weed recorded 12 hr. rainfall total of 1.75								
<b>Siskiyou County Weed</b>	<b>06</b>	<b>1625PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
	Spotter 6 mi. W of Black Butte recorded 24 hr. rainfall total of 3.21								
<b>Siskiyou County Mt Shasta</b>	<b>06</b>	<b>1705PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
	Mt. Shasta Coop Observer recorded 24 hr. rainfall total of 3.21 inches and 10.05 since Feb. 1								
<b>Siskiyou County Black Butte</b>	<b>06</b>	<b>1723PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
	Spotter 3 mi. NW of Mt. Shasta recorded 24 hr. rainfall total of 2.17 in.								
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>07</b>	<b>0800PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Winter Storm</b>
	<b>08</b>	<b>0800PST</b>							
	South-Southeast flow produced locally orographic driven heavy snow in the Mt. Shasta area and high winds in the Shasta Valley. 6 to 8 inches fell at Mt. Shasta City and 16 to 20 inches near Black Butte at 4000 ft. Wind gusts up to 67 mph were reported at Weed.								
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>10</b>	<b>0500PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Winter Storm</b>
		<b>2300PST</b>							
	South winds ahead of the next approaching Pacific storm system produced gusts to 74 mph at Weed. 6 inches of snow fell at Mt. Shasta City.								
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>12</b>	<b>0500PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind</b>
		<b>1600PST</b>							
	Next in series of Pacific storm systems produced south winds up to 40 to 60 mph in the Shasta Valley. Wind gusts reached 56 mph at Weed and 60 mph near Yreka.								
<b>CAZ011-011</b>	<b>Siskiyou County</b>								
	<b>16</b>	<b>0800PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Winter Storm</b>
	<b>17</b>	<b>0800PST</b>							
	Frontal system produced locally strong winds and heavy snow in favored orographic areas. Winds gusted to 48 mph at Weed and 58 mph at Big Springs. 5 inches of snow fell at Black Butte and 4 to 6 inches at Mt. Shasta City.								
<b>CAZ011</b>	<b>Siskiyou County</b>								
	<b>18</b>	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind</b>
		<b>2000PST</b>							
	South wind gusted to 53 mph at Weed.								
<b>CAZ011&gt;012</b>	<b>Siskiyou County - Modoc County Except Surprise Valley</b>								
	<b>20</b>	<b>1600PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Winter Storm</b>
	<b>21</b>	<b>2000PST</b>							
	A strong frontal system supported by a 150-170 kt jet brought high winds and heavy snow and rain to far northern California. Winds ahead of the front ranged from 30 to 50 mph but gusted higher in favored valley locations but gusted as high as 62 mph at Weed in the Shasta Valley.								

Impressive snowfall amounts accumulated mainly in the southern and western mountains of Siskiyou county. Up p to 3 ft. mainly in a 12 hr. period. Accumulations include: Mt. Shasta City 23", Spotter 1/2 mi. west of Mt. Shasta City 36", Mt. Shasta Ski Park 4 ft. Near Weed 12" with drifts to 3 ft., McCloud 30", Black Butte 15", Fort Jones 5-8", and Alturas 3".

The 23" reported by the Coop. Observer at Mt. Shasta City was a new 24 hr. record. This storm was one of several that produced heavy precipitation over the orographically favored areas of southern Siskiyou county. Mt. Shasta City received a monthly snowfall

# Storm Data and Unusual Weather Phenomena

February 1998

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

total of 62 inches with a total liquid equivalent of 21.80 inches. Dunsmir reported a monthly water equivalent total of 27.48 inches with 11.8 inches of snow. McCloud reported 41 inches of snow and a water equivalent of 28.80.

## CALIFORNIA, West South Central

**CAZ034>035-039>041** San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles  
**01 0200PST** 0 0 Heavy Surf  
**09 1000PST**

An extended heavy surf event, produced by a series of Pacific storms, battered coastal areas of Central and Southern California. Along the coasts of San Luis Obispo and Western Santa Barbara counties, waves as high as 25 feet were reported. Elsewhere, coastal areas reported 12 to 15 foot waves. The heavy surf produced some damage across coastal areas. In Port San Luis, widespread shoreline erosion was reported. At Santa Barbara Harbour, Stearns Wharf lost 150 wooden planks. The Port Hueneme Pier had 200 feet of pier washed away. In Zuma Beach, the surf collapsed a house into the ocean.

**CAZ052>054** Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range  
**02 1800PST** 0 0 Heavy Snow  
**03 2030PST**

**CAZ034>041-044>047-051>054-059** San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Ynez Valley - San Luis Obispo County Interior Valleys - Cuyama Valley - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles - Ventura County Interior Valleys - Ventura County Coastal Valleys - Santa Monica Mountains Recreation Area - Los Angeles County Valleys - San Luis Obispo County Mountains - Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range - Antelope Valley  
**02 2200PST** 0 0 High Wind (G78)  
**03 2030PST**

**Los Angeles County Countywide** **03 0500PST** 0 2 Flood  
**2030PST**

**San Luis Obispo County San Luis Obispo** **03 0500PST** 0 0 Urban/Sml Stream Fld  
**2030PST**

**Santa Barbara County Countywide** **03 0500PST** 0 0 Flood  
**2030PST**

**Ventura County Countywide** **03 0500PST** 0 1 Flood  
**2030PST**

The first powerful storm of the month slammed into Central and Southern California. Powerful winds buffeted the entire area. Hearst Castle, in San Luis Obispo county, reported winds gusting to 90 mph. Elsewhere, winds gusting in excess of 70 mph were reported. Hundreds of trees and power lines were blown down, resulting in numerous power outages. In Pacoima, the wind blew the roof off an apartment complex. Along with the strong winds, heavy rain drenched the entire area. On average, rainfall totals ranged from 2 to 8 inches over coastal areas, up to 12 inches in the mountains. Widespread flooding was reported in all areas. Forty homes were flooded in Solvang and 15 homes were flooded in Ojai. Flooding and mudslides closed parts of most major roadways across the area...including Highways 1, 33, 101, 118, 126, 150, 154, 166 and the 246. In Santa Maria, one thousand feet of the Santa Maria River levee washed away, flooding hundreds of acres of farmland. In Granada Hills, two teenage girls were rescued after falling into Bull Creek. In Valencia, a farm worker was rescued from Castaic Creek. In the mountains, reported snowfall totals were as high as 3 feet at some resort locations.

**San Luis Obispo County Morro Bay** **03 0310PST** 0 0 Waterspout  
**0320PST**

An observer at Morro Bay reported a waterspout two miles north of Morro Rock.



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, West South Central</b>									
<b>CAZ034&gt;041-044&gt;047-051&gt;054-059</b>	<b>San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Ynez Valley - San Luis Obispo County Interior Valleys - Cuyama Valley - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles - Ventura County Interior Valleys - Ventura County Coastal Valleys - Santa Monica Mountains Recreation Area - Los Angeles County Valleys - San Luis Obispo County Mountains - Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range - Antelope Valley</b>								
	05	2200PST			0	0			High Wind (G61)
	06	1815PST							
<b>CAZ052&gt;054</b>	<b>Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range</b>								
	05	2200PST			0	0			Heavy Snow
	06	1815PST							
<b>San Luis Obispo County</b>									
San Luis Obispo	05	2200PST			0	0			Urban/Sml Stream Fld
	06	1815PST							
<b>Santa Barbara County</b>									
Countywide	06	0835PST 1815PST			0	0			Flood
<b>Ventura County</b>									
Countywide	06	0910PST 1815PST			0	0			Flood
<b>Los Angeles County</b>									
Countywide	06	1010PST 1815PST			1	0			Flood
	F20IW								
	The second storm of the month struck Central and Southern California. Once again, strong winds, gusting up to 70 mph, knocked down many trees and power lines. Rainfall totals ranged from 1 to 3 inches over coastal areas, up to 6 inches in the mountains. Numerous flooding problems were reported across the area. Most highways, including the 1, 101, 126 and 154 were closed due to flooding or mudslides. In Santa Barbara, the airport was closed due to flooded runways. In Goleta, a shopping mall was flooded. The worst flooding occurred in Camarillo where a local state of emergency was declared. Camarillo City Hall, as well as hundreds of homes, was flooded after receiving 2.80 inches of rain in less than two hours. The Calleguas Creek overflowed, flooding the Camarillo Springs Golf Course. In Paramount, a female robbery suspect drowned in the Los Angeles River while trying to elude police. In the mountains, the storm produced up to 12 inches of snow at resort levels.								
<b>CAZ034&gt;041-044&gt;047-051&gt;054-059</b>	<b>San Luis Obispo County Central Coast - Santa Barbara County Central Coast - Santa Ynez Valley - San Luis Obispo County Interior Valleys - Cuyama Valley - Santa Barbara County South Coast - Ventura County Coast - Los Angeles County Coasts Including Downtown Los Angeles - Ventura County Interior Valleys - Ventura County Coastal Valleys - Santa Monica Mountains Recreation Area - Los Angeles County Valleys - San Luis Obispo County Mountains - Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range - Antelope Valley</b>								
	07	0500PST			0	0			High Wind (G61)
	08	0345PST							
<b>CAZ052&gt;054</b>	<b>Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range</b>								
	07	0500PST			1	0			Heavy Snow
	08	0345PST							
	M14OU								
<b>San Luis Obispo County</b>									
San Luis Obispo	07	0900PST			0	0			Urban/Sml Stream Fld
	08	0345PST							
<b>Santa Barbara County</b>									
Countywide	07	1600PST			1	0			Flood
	08	0345PST							
	M41CA								
<b>Ventura County</b>									
Countywide	07	1800PST			0	0			Flood
	08	0345PST							

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **CALIFORNIA, West South Central**

### **Los Angeles County**

#### **Countywide**

	<b>07</b>	<b>2205PST</b>			<b>1</b>	<b>2</b>			<b>Flood</b>
	<b>08</b>	<b>0345PST</b>							

M84VE

The third storm of the month brought more weather-related problems to Central and Southern California. Strong winds, gusting up to 70 mph, knocked down many trees and power lines. In Encino, the winds blew down Lang Oak, a one thousand year-old oak tree. Rainfall totals ranged from 1 to 4 inches over the coasts, up to 7 inches in the mountains. Widespread reports of urban and rural flooding were reported. In Santa Maria, Highway 101 was flooded by over one foot of water. Elsewhere, Interstate 5 as well as Highways 126, 166 and 246 reported closures due to flooding and mudslides. In the mountains of Santa Barbara county, a hiker drowned in Rattlesnake Creek. In the Angeles National Forest, a teenage snowboarder was found dead due to exposure. In the San Fernando Valley, a private road washed out, allowing a car to plummet 50 feet down a ravine. One man was killed and two others injured. In the mountains, up to 12 inches of snow fell at resort levels.

### **CAZ052>054**

#### **Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range**

	<b>16</b>	<b>1600PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>17</b>	<b>0800PST</b>							

Another powerful winter storm brought heavy snow to the mountains of Southern California. Below 6000 feet, 3 to 7 inches of new snow was reported. Above 6000 feet, ski resorts reported up to 16 inches of new snow.

### **San Luis Obispo**

#### **County**

#### **Templeton**

	<b>19</b>	<b>1440PST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
		<b>1445PST</b>							

Strong thunderstorms moving across San Luis Obispo county produced strong winds in the Templeton area. A spotter reported winds gusting to 58 mph.

### **CAZ052>054**

#### **Santa Barbara County Mountains - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range**

	<b>21</b>	<b>2000PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>22</b>	<b>0900PST</b>							

A quick moving storm system brought more snow to the mountains of Southern California. Ski resorts reported up to 10 inches of new snow.

### **San Luis Obispo**

#### **County**

#### **San Luis Obispo**

	<b>23</b>	<b>0400PST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
	<b>24</b>	<b>0900PST</b>							

### **Santa Barbara County**

#### **Countywide**

	<b>23</b>	<b>1130PST</b>			<b>2</b>	<b>0</b>			<b>Flood</b>
	<b>24</b>	<b>0900PST</b>							

M39VE, M41VE

### **Ventura County**

#### **Countywide**

	<b>23</b>	<b>1130PST</b>			<b>0</b>	<b>1</b>			<b>Flood</b>
	<b>24</b>	<b>0900PST</b>							

### **Los Angeles County**

#### **Countywide**

	<b>23</b>	<b>1400PST</b>			<b>3</b>	<b>0</b>			<b>Flood</b>
	<b>24</b>	<b>0900PST</b>							

M19VE, M19VE, M41IW

The final...and deadliest...storm of the month struck Central and Southern California. Rainfall totals ranged from 1 to 4 inches over the coast with up to 14 inches in the mountains. Widespread urban and small stream flooding was reported. Most major highways reported closures due to flooding or mudslides. In fact, the community of Ojai was left isolated when Highways 33, 101 and 150 were closed. In Palmdale, up to 3 feet of water was reported at some intersections. In Newhall, one woman suffered minor injuries after being rescued from a water channel. Five deaths were attributed to the storm. In Santa Maria, a section of Highway 166 eroded, killing two California Highway Patrol officers. In Claremont, two students died when a eucalyptus tree fell onto their utility vehicle. In San Dimas, a man drowned when he fell into San Dimas Creek.

### **Los Angeles County**

#### **Long Beach**

	<b>24</b>	<b>0110PST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
		<b>0125PST</b>							

A thunderstorm spawned a funnel cloud over eastern sections of the city of Long Beach. The funnel cloud affected homes on Ultimo and Los Altos streets. One home suffered significant damage when an acacia tree fell onto the house. Ten other homes suffered minor damage including shattered windows and smashed fences.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Western</b>									
<b>San Mateo County</b>									
Pescadero	02 03	1000PST 0245PST			0	0	200K		Flood
<b>Santa Cruz County</b>									
Felton to Santa Cruz	02 03	1100PST 0710PST			1	0	500K		Flood
Flash flood po San Lorenzo River from Felton to Santa Cruz. M62IW									
<b>Marin County</b>									
Novato	02 03	1840PST 0122PST			0	0			Flash Flood
Novato Creek									
<b>Sonoma County</b>									
Petaluma	02 03	1850PST 1257PST			0	0	2M		Flash Flood
Flash Flood on Willow Brook at Stoney Point Road near Petaluma. 25 homes near the river were evacuated as well as 40 to 50 residents of a Mobile home park.									
<b>Alameda County</b>									
Hayward	02 03	2020PST 0110PST			0	0			Flash Flood
Flash flood on Castro Valley Creek.									
<b>Monterey County</b>									
Lockwood	02 04	2030PST 0330PST			0	0			Flash Flood
San Antonio River near Lockwood									
<b>Napa County</b>									
Central Portion	02	2140PST 2158PST			0	0			Flash Flood
Flash flood on the Napa Creek on Hwy 29 near Napa.									
<b>San Mateo County</b>									
East Palo Alto	02 03	2300PST 0330PST			0	0			Flash Flood
San Francisquito Creek									
<b>Contra Costa County</b>									
Pittsburg	03	0000PST 1200PST			0	0			Flash Flood
Hwy 4 near bailey Rd flash flooded by runoff.									
<b>Contra Costa County</b>									
Walnut Creek	03	0000PST 1500PST			0	0			Flash Flood
people evacuated Walnut Creek due to flash Flood.									
<b>Santa Clara County</b>									
San Jose	03	0210PST			0	0			Flash Flood
Guadalupe River at Blossom Hill Blvd.									
<b>Monterey County</b>									
Carmel Vly	03	0230PST 0330PST			0	0			Flash Flood
Carmel River at Robles del Rio									
<b>Alameda County</b>									
Livermore	03	0500PST			0	0	250K		Flash Flood
<b>Alameda County</b>									
Dublin	03	0630PST			0	0	100K		Flood
<b>Alameda County</b>									
Niles	03	0700PST			0	0	200K		Flash Flood
<b>Alameda County</b>									
Sunol	03	0800PST			0	0			Flash Flood
<b>Monterey County</b>									
South Portion	03	0808PST 1205PST			0	0			Flood
flash flood on the the San Lorinzo creek near King City.									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Western</b>									
<b>Alameda County</b>									
Decoto	03	0900PST			0	0	150K		Flash Flood
<b>Sonoma County</b>									
Sonoma	03	0930PST			0	1	200K	159K	Flash Flood
<b>Sonoma County</b>									
Petaluma	05	1800PST 1820PST			0	0			Flash Flood
On Willow Brook									
<b>San Mateo County</b>									
East Palo Alto	06	1000PST 2030PST			0	0			Flash Flood
San Francisquito Creek									
<b>San Mateo County</b>									
Pescadero	06	1020PST 2145PST			0	0			Flash Flood
Pescadero Creek									
<b>Sonoma County</b>									
Petaluma	06	1222PST			0	0			Flash Flood
	07	0002PST							
On Willow Brook									
<b>San Francisco County</b>									
San Francisco	07	0930PST 1230PST			0	0			Flash Flood
Embarcadero in San Francisco Flooded due to flash flood and high tide with strong winds .									
<b>Alameda County</b>									
Niles District	07	1100PST 1500PST			0	0			Flash Flood
Alameda Creek									
<b>Marin County</b>									
Novato	07	1130PST 1520PST			0	0			Flash Flood
<b>Sonoma County</b>									
Petaluma	07	1318PST 2000PST			0	0			Flash Flood
On Willow Brook									
<b>Santa Clara County</b>									
San Jose	07	1350PST 1430PST			0	0			Flash Flood
Ross Creek at Cherry street.									
<b>San Mateo County</b>									
East Palo Alto	07	1400PST 2000PST			0	0			Flash Flood
San Francisquito Creek									
<b>San Mateo County</b>									
Pescadero	07	1450PST 2040PST			0	0			Flash Flood
Pescadero Creek									
<b>Santa Cruz County</b>									
Felton	07	1452PST 1750PST			0	0			Flash Flood
San Lorenzo at Felton									
<b>Monterey County</b>									
Lockwood	07	1500PST			0	0			Flood
	08	1630PST							
San Antioio River near Lockwood									
<b>San Benito County</b>									
Central Portion	07	1545PST 1900PST			0	0			Flash Flood
San Benito River at near Willow Creek School									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>CALIFORNIA, Western</b>									
<b>Monterey County</b> King City Arpt	07	1605PST 1930PST			0	0			Flash Flood
			San Lorinzo Creek near King City						
<b>Monterey County</b> Carmel Vly	07	1630PST 1815PST			0	0			Flash Flood
			Carmel River at Robles Del Rio						
<b>Santa Clara County</b> San Jose	08 09	1400PST 0828PST			0	0			Flash Flood
			Coyote Creek at Edenvale Levee Breached along Arroyo Mocha (a dry Creek) and caused damage to roads and property						
<b>San Francisco County</b> San Francisco	02	1600PST			0	0			Flash Flood
			Widespread road clousure, street flooding and a few mudslides.						
<b>Sonoma County</b> Rio Nido	03	0400PST			0	0	5M		Flash Flood
<b>Alameda County</b> East Portion	03	1100PST			0	0			Flood
			breached levee along the Arroyo Mocho in Livermore. Water reached Pleasanton and sheared off a bike lane, guard rail and fence.						
<b>Marin County</b> Corte Madera to Carte Madera	05 06	2200PST 0200PST			0	0			Flash Flood
			Buildoings and streets in Corte Madera were flash flooded.						
<b>Marin County</b> South Portion	06	0600PST			0	0	1.5M	500K	Flood
<b>Santa Cruz County</b> Santa Cruz	06	0600PST 0630PST			0	0	250K		Flood
<b>CAZ006</b>			<b>San Francisco County</b>						
	06	0630PST			0	0	50K		High Wind
			winds to 125 mph reported on Mt Diablo, widespread sustained winds of over 40 MPH.						
<b>Santa Cruz County</b> Santa Cruz to Big Basin	06	1400PST 1405PST			0	0			Tstm Wind/Hail
			3/4" inch hail repported by Storm Spotter.						
<b>Santa Clara County</b> Sunnyvale	06	1600PST 1602PST	0.1	30	0	0	100K		Tornado (F0)
			Very weak tornado touched down at Lockheed Martine plant in sunny vale with some minor damage.						
<b>Santa Clara County</b> Gilroy	06	1615PST 1620PST			0	0			Tstm Wind/Hail
			3/4" inch hail reported in hills west of Gilroy through the Gilroy area.						
<b>Monterey County</b> Pajaro	06	1800PST			0	0	300K		Flash Flood
<b>Monterey County</b> West Portion	06	2200PST			0	0	10M		Flash Flood
			Highway One closed all along big Sur Coast due to Flash flooding and resulting mudslides , and portion of the road washing away. Road not opened until May 98.						
<b>Contra Costa County</b> Walnut Creek	07	1300PST			0	0			Flash Flood
			Streets and businesses flash flood in Walnut Creek.						
<b>San Mateo County</b> Half Moon Bay	07	1400PST	0.2	50	0	0			Tornado (F0)
			Weak tornado ripped up some trees. Appears it began as a waterspout and moved on shore.						

# Storm Data and Unusual Weather Phenomena

February 1998

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

## CALIFORNIA, Western

### **Santa Cruz County**

<b>Boulder Creek</b>	07	1745PST 1750PST			0	0			<b>Tstm Wind/Hail</b>
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Lrge hail >1/2" covering ground from Spotter.

### **Santa Clara County**

<b>Gilroy</b>	07	1800PST 1810PST			0	0			<b>Tstm Wind/Hail</b>
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3/4" inch hail reported by County OES from law enforcement personnel.

### **Contra Costa County**

<b>Brentwood</b>	19	1230PST	0.2	30	0	0	50K		<b>Tornado (F0)</b>
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Weak tornado demolished a 120' by 40' shade structure at a nursery as well as a chicken coop nad a tool shed.

## COLORADO, Central and Northeast

### **COZ046 Eastern Elbert And Northern Lincoln Counties/Limon And Vicinity**

09	0800MST 1430MST	0	0	0	0	<b>Heavy Snow</b>
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Heavy snow occurred in southern Washington and northern Lincoln Counties as a slow moving storm system developed in eastern Colorado. Snowfall totals included: 7 inches 12 miles northeast of Limon, 5.5 inches 12 miles northwest of Anton, and 5 inches 4 miles south of Lindon.

### **COZ033>034 Rabbit Ears & Medicine Bow Ranges/Rocky Mountain National Park - Summit County/Mosquito Range/Indian Peaks**

24	2000MST	0	0	0	0	<b>Winter Storm</b>
25	1600MST					

A strong winter storm developed in the northern mountains as heavy snow coupled with very strong winds caused hazardous driving conditions. Most locations along and west of the Continental Divide received up to 10 inches of snowfall. In addition, strong winds developed along and east of the divide as the storm system started to exit the region. West to northwest winds 30 to 50 mph with stronger gusts in excess of 60 mph (52 kts) caused whiteout conditions in blowing and drifting snow. A few of the higher mountain passes had to be closed until conditions improved.

Snowfall totals included: 10 inches at Loveland Ski Area, 9 inches at Winter Park, with 8.5 inches at Berthoud Pass.

### **COZ035>036-040-042-048-050 Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Denver Metropolitan Area - Northeastern Weld County - Logan County/Sterling And Vicinity - Sedgwick And Phillips Counties**

25	0340MST 1530MST	0	0	0	0	<b>High Wind (G65)</b>
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A Bora wind storm developed in the northeast foothills and adjacent plains as wind gusts between 60 and 75 mph (65 kts) were common. As the storm intensified in the plains, the combination of light snow and strong winds caused very hazardous road conditions. In Logan, Phillips and Sedgwick Counties, several roads and schools were closed for the day until conditions improved. Several cars were reported in ditches as roads became slick and snowpacked in spots.

Peak wind gusts during the storm included: 75 mph (65 kts) at Blue Mountain, 71 mph (62 kts) 4 miles east of Haxtun, 70 mph (61 kts) 21 miles north of New Raymer, 68 mph (59 kts) 25 miles north of New Raymer and 60 mph (50 kts) in south Boulder, the Jefferson County Airport and 15 miles west northwest of Sterling.

### **COZ050 Sedgwick And Phillips Counties**

28	0830MST 1230MST	0	0	0	0	<b>High Wind (G54)</b>
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Strong upper level winds coupled with an intense surface pressure gradients to allow for the redevelopment of high winds in extreme northeastern Colorado. A peak wind gust to 62 mph (54 kts) was reported 4 miles east of Haxtun.

## COLORADO, East Central

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

25	0600MST 1800MST	0	0			<b>High Wind (G51)</b>
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Winds damaged roofs, trees, buildings, fences, awnings, windows. Isolated gusts to over 60 mph were reported.

## COLORADO, South Central and Southeast

### **COZ071>072 Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge**

03	2115MST	0	0			<b>Fog</b>
05	1200MST					

Shallow upslope flow associated with surface high pressure dropping south across Kansas allowed low clouds...dense fog...and occasional light freezing drizzle to occur for the majority of the time across El Paso county from the evening of the 3rd through the afternoon of the 5th. The fog redeveloped the evening of the 5th and lasted into the afternoon of the 6th.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## COLORADO, South Central and Southeast

**COZ071>072** Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge  
 05 2100MST 0 0 Fog  
 06 1300MST

**COZ071>072-076** Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Crowley And Otero Counties/La Junta And Vicinity  
 07 0030MST 0 0 Fog  
 1000MST

**COZ060>062-065>066-070-072-074>075** La Garita Mountains - Eastern San Juan Mountains - Northern San Luis Valley/Del Norte And Vicinity - Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Wet Mountains - Northern El Paso County/Monument Ridge - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity  
 15 0600MST 0 0 Winter Storm  
 16 1200MST

A strong winter storm system moved across southern Colorado, bringing snow to the southwest mountains the morning of the 15th, and to the southern and southeast mountains and foothills beginning the evening of the 15th. The snow lasted through midday of the 16th, with rain then spreading across the southeast plains on the 16th. Snowfall totals ranged from 8 to 12 inches across the Eastern San Juan and Southern Sangre de Cristo Mountains, 8 to 10 inches across the Wet Mountains, including Rye and Beulah, 6 inches in Walsenburg, 4 inches in Trinidad and Northern El Paso county, and 1 to 4 inches across the La Garita Mountains and the Northern San Luis Valley.

**COZ070>071-073>074** Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity  
 18 0600MST 1 0 Heavy Snow  
 1500MST

An upper level disturbance brought a blast of snow from the Palmer Divide north of Colorado Springs to the southeast mountains and foothills. Total snow accumulations ranged from 2 to 5 inches in western El Paso county, 6 inches in Canon City in western Fremont county, 8 inches across the Wet mountains including Rye and Beulah, and 13 inches in Walsenburg in Huerfano county. The snow caused numerous accidents along Interstate 25, including a 3 car pile up that injured 4 and caused 1 fatality on Monument Hill. M56VE

**COZ060>061-066** La Garita Mountains - Eastern San Juan Mountains - Southern Sangre De Cristo Mountains  
 24 1800MST 0 0 Winter Storm  
 25 1000MST

A strong winter storm system brought considerable snowfall and gusty winds to the southern Colorado mountains from the 24th into the 25th. Wolf Creek Ski Area in the Eastern San Juan Mountains reported 16 inches of snow, and Creede reported 5 inches of snow. The La Garita Mountains totalled 4 to 8 inches of snow. Cuchara in the Southern Sangre De Cristo Mountains recorded 8 inches of fresh snow.

**COZ066** Southern Sangre De Cristo Mountains  
 24 2000MST 0 0 High Wind (G82)  
 25 0600MST

As a strong winter storm passed across southern Colorado the night of the 24th, strong and gusty winds were reported at Cuchara in the Southern Sangre De Cristo mountains. Gusts to 95 mph were reported at 9:00 p.m.

**COZ067-071>072** Teller County/Rampart Range/Pikes Peak - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge  
 25 0620MST 0 0 High Wind (G64)  
 1200MST

West to northwest winds gusting between 60 and 75 mph were reported across eastern Teller and El Paso counties the morning of the 25th. The Air Force Academy reported sustained winds at 47 mph...with gusts to 61 mph. Law enforcement officials reported only one tree partially blown over in northwest El Paso county.

## COLORADO, West

**COZ004-010-018** Elkhead And Park Mountains/Flat Tops/White River Plateau - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - Northwestern San Juan Mountains  
 04 1600MST 0 0 Heavy Snow  
 05 0800MST

A moist north to northwest flow over the area resulted in 6 to 12 inches of snow in the northwest San Juan Mountains and also in the northern mountains of western Colorado.

**COZ004-009>010-012-018>019-021>022** Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch Mountains/Taylor Park - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Four Corners/Upper Dolores River/Cortez And Vicinity - Animas River Basin/Durango And Vicinity  
 07 0400MST 0 0 Heavy Snow  
 09 0400MST

# Storm Data and Unusual Weather Phenomena

February 1998

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

## COLORADO, West

A moist west to southwest flow produced 10 to 20 inches of snow in most mountain areas of western Colorado as well as 6 to 9 inches in the lower elevations in the southwest corner of Colorado. The largest reported storm total was 22 inches in the mountains just south of Marble.

**COZ009-019-021>023** **Grand And Battlement Mesas - Southwestern San Juan Mountains - Four Corners/Upper Dolores River/Cortez And Vicinity - Animas River Basin/Durango And Vicinity - San Juan River Basin/Pagosa Springs And Vicinity**

14	2000MST				0	0			Heavy Snow
15	2000MST								

A moist south to southwest flow produced 6 to 12 inches of snow on the Grand Mesa, the southwest San Juan Mountains, and also on the lower elevations in the southwest corner of Colorado.

**COZ004-009>010-012-017>019** **Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch Mountains/Taylor Park - Uncompahgre Plateau - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

22	1600MST				0	0			Winter Storm
23	1200MST								

A rather strong westerly flow transported Pacific moisture over the area which produced 6 to 12 inches of snow in most mountains of western Colorado. Some peak ridge-top winds recorded during this precipitation episode include 83 MPH at Telluride, 52 MPH at Whitehouse Mountain, and 50 MPH at Steamboat Springs.

**COZ006** **Grand Valley/Grand Junction And Vicinity**

24	1338MST				0	0	5K		High Wind (G49)
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Strong prefrontal winds blew down street signs and broke off a railroad crossing arm in metropolitan Grand Junction. There were also many power outages as a result of the winds. Peak gusts included 55 MPH (48 knots) at Walker Field Airport at 1304 MST, 56 MPH (49 knots) in the west part of Fruita at 1338 MST, and 53 MPH (46 knots) two miles west of Fruita at 1358 MST.

**COZ021** **Four Corners/Upper Dolores River/Cortez And Vicinity**

24	1425MST				0	0			High Wind (G50)
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**COZ003>004-009>010-012-017>019** **Roan And Tavaputs Plateaus - Elkhead And Park Mountains/Flat Tops/White River Plateau - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch Mountains/Taylor Park - Uncompahgre Plateau - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

24	1500MST				0	0			Winter Storm
25	2300MST								

A Pacific Trough generally produced 10 to 20 inches of snow and windy conditions in the mountains of western Colorado. Some of the largest reported snowfall totals include 30 inches at Bonham Reservoir, 22 inches near Hotel Lake on the Grand Mesa, 21 inches at Dry Lake north of Steamboat Springs, 20 inches at Telluride Ski Area, 19 inches at Monarch Pass, and 18 inches at Sunlight Ski Area. Peak gusts were clocked to 89 MPH on Mount Abrams near Red Mountain Pass and to 74 MPH on a ridge-top above Telluride.

## CONNECTICUT, Northeast

**CTZ002>004** **Hartford - Tolland - Windham**

24	0000EST				0	0			Strong Winds
25	1830EST								

Rain, strong winds, and 2 to 3 inches of snow occurred across parts of northern Connecticut as a strong low pressure area passed to the southeast of Cape Cod. Wind gusts to 40 to 45 mph from the northeast occurred with this storm system on February 24th. In the wake of the storm system, strong northwest winds were reported on February 25th. A tree, pole, and wires were reported down at mid-afternoon in Windsor. A peak wind gust to 53 mph was reported by a spotter in Bristol during the early evening. A transformer was dislodged from a pole.

## CONNECTICUT, Northwest

**CTZ001** **Litchfield**

04	2300EST				0	0			Freezing Rain
05	1000EST								

An intense low pressure system off the Mid-Atlantic coast produced freezing rain across Litchfield County. The freezing rain was occasionally mixed with sleet and wet snow. Icy roads caused many traffic accidents and school closings.

## CONNECTICUT, Southern

NONE REPORTED.

## DELAWARE

**DEZ002>004** **Kent - Inland Sussex - Delaware Beaches**

04	1000EST				0	0			High Wind (G70)
05	1600EST								



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>DELAWARE</b>									
<b>Kent County</b>									
Countywide	04	1000EST			0	0			Heavy Rain
	05	0100EST							
<b>Sussex County</b>									
Countywide	04	1000EST			0	0			Heavy Rain
	05	0100EST							
<b>DEZ002&gt;004</b>									
			<b>Kent - Inland Sussex - Delaware Beaches</b>						
	04	1300EST			0	5	1.7M		Coastal Flooding/Erosion
	09	0900EST							

The strongest northeaster of the winter battered Kent and Sussex Counties with damaging winds, severe coastal flooding, extensive beach erosion, several dune breaches and heavy rain. A state of emergency was declared for all or parts of Sussex County from 7 a.m. EST on the 5th through 7 p.m. EST on the 7th. The county was declared a disaster area. Damage was estimated at about 1.7 million dollars and was the worst storm to affect the area since January 1992. Hardest hit communities included North Shore and South Bethany on the ocean side, Broadkill Beach on Delaware Bay and Long Neck in the back bay. About 3,000 persons evacuated including most of the permanent residents of Dewey Beach. Shelters were opened at the Henlopen High School in Lewes and the Indian River High School in Frankford, but most persons stayed with friends and relatives. Aside from several cases of hypothermia from evacuations in the Long Neck area., no serious injuries were reported. The strongest wind gusts reached 81 mph at the Pilot Tower in Cape Henlopen. About 7,000 homes and businesses lost power, mostly on the 4th. Major roadways were closed for several days including Delaware State Routes 1, 16, 23, 26 and 54 and Sussex County Route 360. The heaviest rain reported was 5.2 inches in Delmar. Tidal departures reached between 4 and 5 feet above normal during the height of the storm in the afternoon of the 4th and morning of the 5th. The early morning high tide on the 5th contained the highest tides. At Lewes the high tide was 8.6 feet above mean low water, a departure of about 4.5 feet above normal. The extensive flooding and erosion forced the closure of all three state parks along the shore and unearthed relics. About 1,000 acres of farmland were also damaged by salt infiltration.

The storm system developed in the middle of the Gulf of Mexico during the night of February 1st and moved northeast. At 7 a.m. EST on the 3rd it was centered near Appalachicola, Florida and at 7 a.m. EST on the 4th it was located near Charlestown, South Carolina. From there it continued to move northeast and intensify and was just east of Cape Hatteras at 7 p.m. EST on the 4th. The strongest winds and the heaviest rain occurred from late morning on the 4th through the early morning hours on the 5th. The northeaster took a more easterly track overnight on the 4th and by 7 a.m. EST on the 5th was located about 150 miles southeast of Indian River Inlet. The storm then accelerated and was well east of the Delmarva Peninsula the morning of the 6th. A second storm developed in the Gulf of Mexico the morning of the 6th. This storm moved east and not northeast off the South Carolina coast on the 7th and 8th. This spared the region further damage, but the northeast flow around this second storm kept an onshore flow. While moderate or greater tidal flooding ended with the morning high tide on the 6th, minor tidal flooding continued through the morning high tide on the 9th.

In Sussex County damage along the Delaware Bay included the following. In Slaughter Beach, the tide broke through a dune at the south end of town. Water became trapped in the marshes between Slaughter Beach and Milford making the roadway impassable to conventional vehicles. The excessive rain and flooding also forced township residents to boil their tap water because of coliform bacteria contamination through Friday February 24th. The strong winds ripped shingles from houses. The tidal flooding extended inland along the Slaughter Neck Creek and the Mispillion River all the way to Milford. Flooding forced the closure of streets and businesses in downtown Milford and damaged 20 cars. Residents were evacuated from chest high water in Primehook Beach. In Broadkill Beach, thirty to forty percent of all homes in the municipality suffered either wind or tidal flooding damage. A few roofs were torn off and six homes lost their decks. Seven people had to be rescued and up to 50 feet of the beach was eroded. In Lewes, several roads, including the main road into town were closed through the 5th because of flooding from the Lewes and Rehoboth Canal. There also was a dune breach in Port Lewes. Twenty five homes suffered minor wind damage and forty street signs were damaged.

In Sussex County along the Indian River and Rehoboth Bays, in Long Neck, bayside flooding extended west to Duke's Marine. Four hundred persons were evacuated along a five mile stretch from Mariner's Cove to Massey's Landing starting 3 a.m. EST on the 5th. Eighty National Guard men assisted. Fuel spills occurred as tanks filled with oil and propane tipped over in the high water. Ironically two unoccupied homes burned completely in the Pot Nets area when fire fighters could not reach them because of the 5 to 6 feet of standing water on roadways. Residents were permitted to return Saturday evening the 7th. Several evacuations also occurred in Oak Orchard.

Along the Ocean side in Sussex County, North Shores and South Bethany were hit the hardest. Damage in North Shores alone was estimated at \$500,000. Ocean front villas were badly damaged losing many decks. The tide ripped through the bottom floor of a group of homes. Toilets, washers, dryers, heat pumps and propane tanks were strewn in the streets. The sand blanked streets as far as 300 feet from the ocean. In Henlopen Acres, an additional 35 trees were uprooted, bringing the total to over 100 from both northeasters. In Rehoboth Beach, the waves swept under the boardwalk and eroded sand on the west side. The boardwalk was badly damaged along a one mile stretch. Eleven roads leading to the ocean were impassable. The ocean broke through at Read Street and met the bay. The rough surf and tidal flooding caused damage to the seawalls, gazebos, concrete blocks and parking

# Storm Data and Unusual Weather Phenomena

February 1998

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

## DELAWARE

areas at the Boardwalk Plaza, Henlopen Acres and the Atlantic Sands Hotel and Suites. In Dewey Beach, many of the town's 250 residents voluntarily evacuated. The dunes at the end of seven streets gave way and allowed water and debris to clog Delaware State Route 1. Read Avenue was destroyed. Along the bay side cars were submerged up to their steering wheels. The erosion exposed remnants of peat marshes. North of Indian River Inlet, a three-quarter mile stretch of dune was flattened and this left Haven Road extremely vulnerable. In Bethany Beach and North Bethany a couple of bulkhead and dune breaches occurred. In South Bethany, Ocean Drive was destroyed. Homes on the oceanfront lost steps, windows and decks for a mile long stretch. Debris clogged 1st through 9th Streets. The boardwalk was severely damaged. In Fenwick Island, a dune breach occurred east of "The Curves". Most of the town's dunes were badly damaged. The ocean met Little Assawoman Bay at the north end of town.

In Kent County, tidal flooding inundated bay side homes in Woodland Beach, Port Mahon, Kitts Hummock and South Bowers. Water was still in yards even at low tide. Flooding also also reported along Delaware State Routes 6 and 9 inland.

The highest reported wind gust was 81 mph at the Pilot Tower in Cape Henlopen. A gust of 66 mph was also reported from Bethany Beach. Storm rainfall totals included 5.2 inches in Delmar, 3.28 inches in Salisbury (MD), 3.05 inches in Georgetown, 2.35 inches in Greenwood and 1.74 inches at the Dover AFB.

### **DEZ001**

#### **New Castle**

**04 1300EST**  
**05 1600EST**

**0 0**

**Wind**

The strongest northeaster of the winter battered coastal areas of Delaware and brought strong winds and rain north throughout New Castle County. The strongest winds occurred from the afternoon on the 4th into midday on the 5th and peaked toward midnight on the 4th. A wind gust of 51 mph was reported at the New Castle County Airport. No widespread power outages were reported.

### **DEZ004**

#### **Delaware Beaches**

**17 1200EST**  
**1800EST**

**0 0**

**Wind**

The difference in surface pressure between a strong high pressure system over Maine and a low pressure system over North Carolina produced strong gusty winds mainly during the afternoon of the 17th along coastal Delaware. The strongest wind gusts were around 50 mph. No significant damage or injuries were reported.

### **DEZ004**

#### **Delaware Beaches**

**17 2200EST**  
**18 0200EST**

**0 0**

**Coastal Flooding**

A low pressure system moved from coastal North Carolina the morning of the 17th to about 150 miles east of Manasquan Inlet, New Jersey the morning of the 18th. A strong high pressure system was anchored over Maine and the Canadian Maritimes at the same time. The difference in surface pressure between them produced strong gusty winds mainly during the afternoon of the 17th. This also prevented the tide from receding during the low tide cycle around 6 p.m. EST. Winds diminished by the time of the late evening/early morning high tide on the 17th and 18th, but the onshore flow helped produce some minor tidal flooding. The onshore winds lasted only one tide cycle and the astronomical tides were low. Thus, in spite of tidal departures of about 3 feet above normal, tidal flooding was only at the low end of the minor range. No serious damage was reported.

### **Kent County**

#### **Countywide**

**23 1300EST**  
**2300EST**

**0 0**

**Heavy Rain**

### **New Castle County**

#### **Countywide**

**23 1300EST**  
**2300EST**

**0 0**

**Heavy Rain**

### **Sussex County**

#### **Countywide**

**23 1300EST**  
**2300EST**

**0 0**

**Heavy Rain**

### **New Castle County**

#### **Coochs Bridge to Countywide**

**23 2013EST**  
**24 0006EST**

**0 0**

**Flood**

### **DEZ004**

#### **Delaware Beaches**

**24 0330EST**  
**0830EST**

**0 0**

**Coastal Flooding**

Another northeaster brought heavy rain and strong winds to Delaware on the 23rd and 24th. The onshore flow also brought some minor tidal flooding during the time of high tide the morning of the 24th. Since this northeaster moved rapidly, it was only a one tide cycle event and no major damage was reported. Rain overspread Delaware the morning of the 23rd and became heavy during the afternoon and early evening. While rain lingered well into the 24th, it was not as heavy. Enough heavy rain fell to cause

# Storm Data and Unusual Weather Phenomena

February 1998

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

## DELAWARE

flooding along the Christina River in New Castle County during the evening of the 23rd. The Christina River at Coochs Bridge was above its 9 foot flood stage from about 815 p.m. EST to midnight EST. It crested at 9.6 feet at 10 p.m. EST on the 23rd. The heavy rain caused the usual urban and poor drainage flooding, no other serious flooding was reported. The counterclockwise circulation around the northeaster produced wind gusts as strong as 40 to 50 mph during the afternoon and evening of the 23rd. No serious damage or injuries were reported.

Storm totals included 2.57 inches in Dover (Kent County), 2.30 inches in Lewes (Sussex County), 2.00 inches in Bridgeville (Sussex County), 1.92 inches in Odessa (New Castle County), 1.80 inches in Georgetown (Sussex County), 1.50 inches in Newark (New Castle County) and 1.39 inches at the New Castle County Airport. The peak wind gust at the New Castle County Airport was 46 mph on the 23rd.

The northeaster responsible for this wet weather was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach, South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

**DEZ001>004**

**New Castle - Kent - Inland Sussex - Delaware Beaches**

<b>25</b>	<b>0600EST 1800EST</b>	<b>0</b>	<b>0</b>	<b>Wind</b>
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Strong northwest winds around the intense northeaster that brought the heavy rain to the Delmarva Peninsula on the 23rd, buffeted the region during the daylight hours on the 25th. Peak wind gusts reached between 40 and 50 mph in most areas and tore down tree limbs. In most areas the highest gusts occurred within an hour or two of noon. Peak wind gusts included 48 mph in Dover, 44 mph at the New Castle County Airport and 43 mph in Georgetown. No serious damage or injuries were reported.

**DEZ001>004**

**New Castle - Kent - Inland Sussex - Delaware Beaches**

<b>28</b>	<b>2359EST</b>	<b>0</b>	<b>0</b>	<b>Unseasonably Warm</b>
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Continuing a trend that lasted the whole winter, February 1998 was unseasonably warm across the Delmarva Peninsula and ranked within the ten warmest Februarys on record. It was also an unseasonably wet month, especially across the lower half of the peninsula in Kent and Sussex Counties. At the New Castle County Airport near Wilmington, the mean temperature of 41.0 degrees for February was the 3rd warmest February of this century.

## DISTRICT OF COLUMBIA

**DCZ001**

**District Of Columbia**

<b>04</b>	<b>0800EST 2000EST</b>	<b>0</b>	<b>0</b>	<b>Gusty Winds</b>
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**District Of Columbia  
Northwest Portion**

<b>04</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
<b>05</b>	<b>1200EST</b>			

A powerful nor'easter, laden with abundant tropical moisture from the Gulf of Mexico and the Caribbean, dumped between 2 and 4 inches of rain across the Washington DC metropolitan region from early morning of the 4th through late evening on the 5th. In the city itself, storm totals ranged from 2 to 3 inches, with Reagan National Airport (DCA) recording 2.47 inches. The 2.01 inches that fell on the 4th shattered the 66 year old record of 1.61 inches for the date. Accompanying the rain were north to northeast winds which reached sustained values of 25 to 35 mph and gusted to 45 mph.

Routine flooding, especially given the already saturated soil, caused portions of Rock Creek to exceed bankful and closed the adjacent Rock Creek Parkway for various lengths of time on the 4th and 5th. The gusty winds may have uprooted a few trees and knocked some limbs down. Power outages were scattered around the metropolitan region.

**DCZ001**

**District Of Columbia**

<b>17</b>	<b>1300EST 1700EST</b>	<b>0</b>	<b>0</b>	<b>Gusty Winds</b>
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The gradient between developing low pressure over the southeast U.S. and departing strong high pressure over New England produced east winds which increased to 25 to 35 mph, with gusts to 40 mph, during the afternoon. The winds resulted in scattered tree and power line damage, causing some customers to lose electricity. No substantial property damage was reported.

**DCZ001**

**District Of Columbia**

<b>24</b>	<b>1200EST 1700EST</b>	<b>0</b>	<b>0</b>	<b>Gusty Winds</b>
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An intensifying storm off the middle Atlantic coast produced sustained winds of 25 to 35 mph with frequent gusts between 40 and 45 mph over the Washington DC metropolitan region during the afternoon. Winds gradually diminished after sunset; a combination of the departing storm and the loss of daytime heating. Scattered tree, limb, and power line damage may have occurred as well.

## FLORIDA, East Central

**FLZ041**

**Volusia**

<b>02</b>	<b>0001EST 0100EST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>High Wind (G55)</b>
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Strong sustained surface wind knocked down trees over much of Volusia County and damaged a gas station pump shelter in Daytona

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<b>FLORIDA, East Central</b>									
		Beach.							
<b>Okeechobee County</b>									
<b>Okeechobee</b>	<b>02</b>	<b>2220EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew down power lines in the town of Okeechobee.							
<b>Indian River County</b>									
<b>Vero Beach</b>	<b>02</b>	<b>2300EST</b>			<b>0</b>	<b>0</b>	<b>40K</b>		<b>Thunderstorm Wind (G55)</b>
		Downburst wind from a thunderstorm swept over a mobile home community in Vero Beach producing minor exterior damage to eight mobile homes. Most of the damage was to awnings and carports.							
<b>Martin County</b>									
<b>Stuart</b>	<b>02</b>	<b>2305EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G53)</b>
		A Skywarn spotter measured winds of 51 knots in Stuart.							
<b>St. Lucie County</b>									
<b>10 S Ft Pierce</b>	<b>02</b>	<b>2330EST</b>	<b>0.4</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>30K</b>		<b>Tornado (F0)</b>
		A small F-0 tornado touched down briefly on Hutchinson Island blowing down trees and blowing windows out of a condominium.							
<b>Volusia County</b>									
<b>Emporia</b>	<b>16</b>	<b>1519EST</b>	<b>0.2</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>80K</b>		<b>Tornado (F0)</b>
		A small F-0 tornado touched down near Emporia damaging 16 mobile homes and destroying one.							
<b>Seminole County</b>									
<b>Sanford</b>	<b>16</b>	<b>1529EST</b>	<b>0.1</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>200K</b>		<b>Tornado (F0)</b>
		A small F-0 tornado touched down in Sanford destroying the roof on a log cabin house.							
<b>Osceola County</b>									
<b>St Cloud</b>	<b>16</b>	<b>1530EST</b>			<b>0</b>	<b>0</b>	<b>80K</b>		<b>Thunderstorm Wind (G60)</b>
		Thunderstorm winds blew down trees and damaged mobile homes in the St. Cloud and Narcoossee areas.							
<b>Volusia County</b>									
<b>Barberville</b>	<b>16</b>	<b>1530EST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew down trees and damaged a mobile home near Barberville and Pierson.							
<b>Lake County</b>									
<b>Altoona</b>	<b>16</b>	<b>1545EST</b>			<b>0</b>	<b>0</b>	<b>30K</b>		<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew down trees that damaged a mobile home near Altoona.							
<b>Lake County</b>									
<b>Howey In The Hills</b>	<b>17</b>	<b>0420EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G55)</b>
		Thunderstorm winds blew down trees in Howey in the Hills and near Tavares.							
<b>Volusia County</b>									
<b>Daytona Beach</b>	<b>17</b>	<b>0530EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G55)</b>
		Thunderstorm winds blew down trees at Tusawilla Park.							
<b>Orange County</b>									
<b>Orlando</b>	<b>17</b>	<b>0625EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew down trees in the east part of Orlando.							
<b>Seminole County</b>									
<b>Chuluota</b>	<b>17</b>	<b>0625EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew down trees and power lines near Chuluota.							
<b>Orange County</b>									
<b>Bithlo</b>	<b>17</b>	<b>0630EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G50)</b>
		Thunderstorm winds blew the roof off a garage in Bithlo.							
<b>Brevard County</b>									
<b>Palm Bay</b>	<b>17</b>	<b>0700EST</b>			<b>0</b>	<b>0</b>	<b>15K</b>		<b>Thunderstorm Wind (G60)</b>
		Thunderstorm winds damaged the roof of a house in Palm Bay.							

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, East Central</b>									
<b>Brevard County</b> Indialantic	17	0710EST	1	40	0	0	500K		<b>Tornado (F1)</b> A waterspout-tornado came ashore from the Indian River Lagoon and passed over the town of Indialantic moving to the northeast. The tornado blew down trees and damaged 6 homes and severely damaged the roof of a grocery store.
<b>Brevard County</b> Cocoa	17	0718EST			0	0			<b>Thunderstorm Wind (G50)</b> Thunderstorm winds blew down trees in Cocoa.
<b>Brevard County</b> Cape Canaveral Misl S	17	0730EST	0.4	40	0	2	500K		<b>Tornado (F0)</b> A small tornado touched down briefly at the Titan launch Complex at Cape Canaveral AFS. The tornado damaged a trailer and blew down large metal doors off a missile hanger. Two people in the hanger were injured.
<b>Indian River County</b> Vero Beach	17	0735EST			0	0	10K		<b>Thunderstorm Wind (G50)</b> Thunderstorm winds blew down power lines and traffic signals in Vero Beach.
<b>St. Lucie County</b> Port St Lucie	17	0915EST			0	0	5K		<b>Thunderstorm Wind (G50)</b> Thunderstorm winds blew down trees and damaged roofs in Port St. Lucie.
<b>Orange County</b> Windermere	19	1740EST			0	0			<b>Hail (0.75)</b>
<b>Orange County</b> Pine Hills	19	1800EST			0	0	5K		<b>Thunderstorm Wind (G60)</b> Thunderstorm winds blew down a carport and blew windows out at a house.
<b>Seminole County</b> Geneva	19	1825EST			0	0			<b>Hail (1.00)</b>
<b>Osceola County</b> Kissimmee	22	1430EST			0	0	5K		<b>Hail (0.75)</b> Dime size hail fell in Kissimmee. Minor roof damage to a house was reported.
<b>Orange County</b> Orlando	22	1445EST			0	0			<b>Hail (1.75)</b>
<b>Seminole County</b> Chuluota	22	1515EST			0	0			<b>Hail (1.00)</b>
<b>Orange County</b> (Mco)Orlando Intl Ar	22	1545EST			0	0			<b>Hail (0.75)</b>
<b>Brevard County</b> Palm Bay	22	1630EST			0	0			<b>Hail (0.75)</b>
<b>Lake County</b> Altoona	22	2200EST			0	0			<b>Hail (0.75)</b>
<b>Lake County</b> 4 NW Paisley to 4 SW Paisley	22	2222EST			0	0			<b>Thunderstorm Wind (G50)</b> Thunderstorm winds blew down trees northwest of Paisley.
<b>Volusia County</b> 5 W Glenwood	22	2233EST			0	0			<b>Thunderstorm Wind (G60)</b> Thunderstorm winds blew down numerous trees west of Glenwood.
<b>Volusia County</b> De Leon Spgs	22	2238EST			0	0			<b>Hail (1.75)</b>
<b>Volusia County</b> 5 E De Leon Spgs	22	2240EST			0	0			<b>Thunderstorm Wind (G55)</b> Thunderstorm winds blew down trees in a rural area five miles east of De Leon Springs.
<b>Brevard County</b> Indialantic	22	1720EST	1	50	0	0	200K		<b>Tornado (F1)</b> A waterspout/tornado came on shore just north of U.S. Highway 192 in Indialantic. The tornado moved northeast at 30 mph blowing

# Storm Data and Unusual Weather Phenomena

February 1998

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

## FLORIDA, East Central

the roof off of one house and damaging 10 others. Numerous trees were blown down. A lot of carports, awnings, and pool enclosures were damaged.

### Volusia County

<b>5 SW Daytona Beach to Daytona Beach</b>	<b>22</b>	<b>2255EST 2305EST</b>	<b>8</b>	<b>150</b>	<b>1</b>	<b>3</b>	<b>4M</b>	<b>Tornado (F2)</b>
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The first tornado in a major tornado outbreak set down along Route 92 about 5 miles southwest of Daytona Beach. The category F2 tornado moved about 8 miles to the northeast passing over the junction of Interstate 95 and Interstate 4 and finally lifted in the south part of Daytona Beach west of the Intracoastal Waterway. Six hundred structures were damaged or destroyed. One person was killed in a mobile home and three others were injured. M41MH

### Lake County

<b>5 SSE Clermont to 7 ESE Clermont</b>	<b>22</b>	<b>2337EST 2341EST</b>	<b>4</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Tornado (F3)</b>
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The second tornado of the outbreak touched down in Lake County just east of Lake Louisa along Highway 27. It moved northeast at 45 mph through a rural area blowing down trees but otherwise causing little property damage. At 11:41 pm the tornado moved into Orange County.

### Orange County

<b>5 SW Winter Garden to Piedmont</b>	<b>22 23</b>	<b>2341EST 0000EST</b>	<b>14</b>	<b>200</b>	<b>3</b>	<b>70</b>	<b>15M</b>	<b>Tornado (F3)</b>
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The Lake County tornado moved into Orange County about 5 miles southwest of Winter Garden moving northeast at 45 mph. It rapidly intensified to a category F3 tornado with estimated winds near 200 mph. The tornado moved through Winter Garden between 11:47 pm and 11:55 pm destroying a mobile home community in Winter Garden. There were three fatalities and 70 injuries. Five hundred structures were either damaged or destroyed.

F68MH, M80MH, M80MH

### Seminole County

<b>Longwood to 5 E Sanford</b>	<b>23</b>	<b>0010EST 0025EST</b>	<b>14</b>	<b>200</b>	<b>12</b>	<b>36</b>	<b>30M</b>	<b>Tornado (F3)</b>
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The Seminole County category F3 tornado was produced by the same supercell that produced the Winter Garden tornado. It initially set down near Longwood and moved northeast at 45 mph. The tornado passed through several neighborhoods in the southeast portion of Sanford killing 12 people in mobile homes and injuring 70. It continued northeast and crossed into Volusia County 5 miles east of Sanford. The near 200 mph winds of the tornado damaged or destroyed 625 structures.

M9MH, F11MH, F21MH, M23MH, M26MH, M37MH, F39MH, F40MH, M41MH, M49MH, M53PH, M62MH

### Volusia County

<b>4 S Osteen</b>	<b>23</b>	<b>0025EST 0028EST</b>	<b>2</b>	<b>200</b>	<b>1</b>	<b>0</b>	<b>1M</b>	<b>Tornado (F3)</b>
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The Sanford tornado crossed into Volusia County near Highway 46 and the St. Johns River where it killed a 53 year old man in a recreational vehicle at a fish camp. The tornado continued northeast for 2 miles and dissipated in a rural part of south Volusia County. M53VE

### Osceola County

<b>1 SE Intercession City to 6 N St Cloud</b>	<b>23</b>	<b>0040EST 0055EST</b>	<b>14</b>	<b>250</b>	<b>24</b>	<b>145</b>	<b>50M</b>	<b>Tornado (F3)</b>
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The deadliest tornado of the outbreak was a category F3 that touched down initially one mile south of Intercession City. The tornado moved northeast at 45 mph and ripped through the town of Kissimmee killing 24 people. The hardest hit areas were the Morningside Acres mobile home community and the Ponderosa Recreational Vehicle Park. In all eight people were killed in recreational vehicles, fifteen in mobile homes and one in an automobile. The tornado continued northeast and moved into Orange County six miles north of St. Cloud. One hundred and fifty people were injured and over 1000 structures were damaged or destroyed.

M1MH, M22MH, M23MH, M30VE, F31MH, F33MH, M38MH, F45MH, F47MH, M50MH, M51VE, M55MH, F64VE, F65MH, F66MH, F67MH, M69VE, F70VE, F71VE, M71VE, M73VE, F75MH, F85VE, M51VE

### Volusia County

<b>5 W Oak Hill to Ariel</b>	<b>23</b>	<b>0045EST 0052EST</b>	<b>5</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>500K</b>	<b>Tornado (F2)</b>
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The same supercell that produced the Sanford tornado produced an F2 tornado that touched down just west of Interstate 95 about 5 miles west of Oak Hill. The tornado moved northeast at 45 mph blowing down trees destroying two barns and damaging 10 mobile homes and 2 houses. The tornado lifted at the town of Ariel at U.S. Highway 1.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## FLORIDA, East Central

### **Orange County**

3 SW (Mco)Orlando Intl Ar	23	0055EST			0	0	0		Hail (1.75)
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### **Orange County**

4 SE (Mco)Orlando Intl Ar to 8 ESE Christmas	23	0055EST 0138EST	24	250	0	5	5M		Tornado (F3)
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The Kissimmee tornado moved into Orange County southeast of Orlando International Airport as a category F3. The tornado affected rural swampy areas, striking few structures except for lakeside neighborhoods on the shores of Lake Hart and Lake Mary Jane. The tornado lifted as it approached the St. Johns River on the east central border of Orange County in the Tosohatchee State Preserve.

### **Brevard County**

3 NE Titusville Ti Co Arp	23	0138EST	1	100	0	0	500K		Tornado (F1)
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The supercell that produced the Kissimmee / Orange County tornado produced another category F1 tornado that touched down in Brevard County just east of Interstate 95 three miles northwest of Titusville Cocoa Airport. The tornado moved northeast at 45 mph and stayed on the ground for only one mile. It blew down trees and damaged 4 houses.

### **Brevard County**

Port Canaveral	23	0230EST	1	75	0	0	1M		Tornado (F1)
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The final tornado of the outbreak was a waterspout/tornado that moved onshore at Port Canaveral from the Banana River Lagoon. The F1 tornado damaged 30 structures and lifted before reaching the Atlantic Ocean.

### **Osceola County**

Kissimmee	28	1215EST			0	0			Hail (1.00)
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### **Osceola County**

1 N St Cloud	28	1230EST			0	0			Hail (1.00)
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### **Brevard County**

Cocoa	28	1320EST			0	0			Hail (0.75)
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### **Brevard County**

Port Canaveral	28	1345EST			0	0			Hail (1.00)
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### **Brevard County**

Patrick Afb	28	1415EST			0	0			Thunderstorm Wind (G56)
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Thunderstorms produced a wind gust to 56 knots at Patrick AFB.

### **Lake County**

1 S Leesburg	28	2205EST			0	0			Hail (1.00)
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### **Volusia County**

Deltona	28	2300EST			0	0			Hail (1.00)
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## FLORIDA, Northeastern

### **Suwannee County**

1 S Falmouth	15	2100EST			0	0	1.5K		Thunderstorm Wind
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Large trees were blown down.

### **Suwannee County**

Falmouth	15	2100EST			0	0	1.5K		Thunderstorm Wind
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Large trees were blown down.

### **Hamilton County**

Jasper	15	2245EST			0	0	250K		Thunderstorm Wind
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Roof blown off of a large building.

### **Flagler County**

Flagler Beach	16	1710EST 2300EST			0	0	10K		Flood
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A1A completely covered by water. Three other roads were under water.

### **Hamilton County**

Jasper	16	1957EST			0	0			Hail (1.00)
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### **Baker County**

Sanderson	16	2030EST			0	0			Hail (2.00)
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### **Baker County**

Taylor	16	2030EST			0	0			Hail (2.00)
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# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, Northeastern</b>									
<b>Hamilton County</b>									
<b>Jasper</b>	16	2135EST			0	0	1.5K		<b>Thunderstorm Wind</b>
			Large trees were blown down.						
<b>Baker County</b>									
<b>Macclenny</b>	16	2235EST			0	0			<b>Hail (1.00)</b>
<b>Hamilton County</b>									
7 E Jasper to 7.1 E Jasper	16	2245EST 2250EST	0.1	30	0	0	35K		<b>Tornado (F0)</b>
			One home destroyed						
<b>Hamilton County</b>									
<b>Jennings</b>	16	2315EST			0	0	3K		<b>Thunderstorm Wind</b>
			Large tress and power lines were blown down.						
<b>Columbia County</b>									
<b>Lake City</b>	16	2318EST			0	0	1.5K		<b>Thunderstorm Wind</b>
			Large tress and power lines were blown down.						
<b>Nassau County</b>									
<b>Hilliard</b>	17	0035EST			0	0	15K		<b>Thunderstorm Wind</b>
			Mobile home damaged. Large trees and power lines were blown down.						
<b>Suwannee County</b>									
10 W Live Oak to 10 NE Live Oak	17	0045EST			0	0	900K		<b>Thunderstorm Wind</b>
			More than 15 semi-trailers were overturned. Chicken processing plant damaged. One mobile home was destroyed. Large trees and power lines were blown down.						
<b>Baker County</b>									
<b>Macclenny</b>	17	0125EST			0	0	25K		<b>Thunderstorm Wind</b>
			Mobile home destroyed						
<b>Nassau County</b>									
<b>Nassauville</b>	17	0150EST			0	0	3K		<b>Thunderstorm Wind</b>
			Large trees and power lines were blown down.						
<b>Duval County</b>									
<b>Jacksonville</b>	17	0200EST			0	0			<b>Hail (0.75)</b>
<b>Alachua County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Old Bellamy Road Closed... Turkey Creek Development had several homes flooded. Some Small bridges were washed out.						
<b>Baker County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Numerous roads were closed due to flooding and many dirt roads were impassable.						
<b>Bradford County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Road damage, 65 secondary and dirt roads were impassable.						
<b>Clay County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Numerous roads were flooded, secondary roads impassable.						
<b>Columbia County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			32 roads damaged, two homes flooded.						
<b>Duval County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Flooding along Wills Branch with up to 5 feet of water in some locations. Widespread localized street flooding.						
<b>Flagler County</b>									
<b>Countywide</b>	17	0235EST 2000EST			0	0			<b>Flood</b>
			Widespread crop and field flooding. Numerous roads closed.						



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, Northeastern</b>									
<b>Gilchrist County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Road flooding along Route 337 South and 232.						
<b>Hamilton County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			US-41 undercut by water and several road were closed.						
<b>Marion County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Nicholas Pond overflowing. Numerous road flooded.						
<b>Nassau County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Road flooding. Many creeks were overflowing.						
<b>Putnam County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Numerous roads closed due to flooding.						
<b>St. Johns County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Extensive crop and field flooding.						
<b>Suwannee County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Numerous roads closed due to flooding. Several homes threatened.						
<b>Union County</b> Countywide	17	0235EST 2000EST			0	0			Flood
			Numerous road were closed due to flooding.						
<b>Columbia County</b> Lake City to Ft White	17	0330EST 1400EST			0	0	20K		Flood
			Numerous road were closed due to flooding.						
<b>Duval County</b> Jacksonville	17	0330EST 1400EST			0	0	20K		Flood
			Numerous road were closed due to flooding.						
<b>Suwannee County</b> Live Oak	17	0330EST			0	0	40K		Flood
			Numerous roads were closed due to flooding.						
<b>Hamilton County</b> Jasper	17	0330EST			0	0	30K		Flood
			Numerous road were closed due to excessive flooding.						
<b>Nassau County</b> Yulee	17	0330EST			0	0	20K		Flood
			Numerous roads were closed due to excessive flooding.						
<b>Suwannee County</b> Live Oak	22	1130EST			0	0	3K		Thunderstorm Wind
			Large trees and power lines were blown down.						
<b>Hamilton County</b> Jennings	22	1140EST			0	0			Hail (1.00)
<b>Columbia County</b> 2 W Lake City	22	1149EST			0	0			Hail (0.88)
<b>Union County</b> Lake Butler	22	1200EST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, Northeastern</b>									
<b>Baker County</b>									
Taylor	22	1245EST			0	0	1.5K		Hail (0.75)
									Large trees and power lines were blown down.
<b>Duval County</b>									
Jacksonville	22	1305EST			0	0	3.5K		Thunderstorm Wind
									Large trees and power lines were blown down.
<b>Clay County</b>									
Orange Park	22	1315EST			0	0	1.5K		Thunderstorm Wind
									Large trees and power lines were blown down.
<b>Alachua County</b>									
Archer	22	1420EST			0	0			Hail (0.75)
<b>Alachua County</b>									
Gainesville	22	1435EST			0	0	1.5K		Thunderstorm Wind
									Large trees and power lines were blown down.
<b>Marion County</b>									
Ocala	22	1610EST			0	0	3.5K		Thunderstorm Wind
									Large trees and power lines were blown down.
<b>Putnam County</b>									
Interlachen	22	1530EST			0	0			Hail (1.75)
<b>Putnam County</b>									
Palatka	22	1538EST			0	0			Hail (1.00)
<b>St. Johns County</b>									
Riverdale	22	1538EST			0	0			Hail (0.88)
<b>Putnam County</b>									
Hollister to .2 W Hollister	22	1545EST	0.2	30	0	0	4K		Tornado (F0)
									Large trees were blown down
<b>St. Johns County</b>									
Marineland	22	1703EST			0	0			Hail (0.75)
<b>Flagler County</b>									
Flagler Beach	22	1704EST			0	0			Hail (1.00)
<b>FLORIDA, Northwest</b>									
<b>Franklin County</b>									
St Teresa	16	1905EST			0	0			Hail (0.88)
									Nickel size hail damaged deputy squadcar windshield near Alligator Point.
<b>Taylor County</b>									
Perry	16	2000EST 2100EST			0	0			Hail (0.75)
									Numerous reports of marble to dime size hail from Perry, Salem and Athena.
<b>Taylor County</b>									
Perry	16	2030EST 2145EST			0	0			Hail (1.25)
									Numerous reports of quarter size hail received.
<b>Lafayette County</b>									
Mayo	16	2245EST 2315EST			0	0	15K		Thunderstorm Wind
									Thunderstorm winds downed trees and a transformer was struck by lightning. Power outages reported countywide.
<b>Bay County</b>									
Tyndall Afb	22	0900EST			0	0			Thunderstorm Wind (G63)
									72 mph wind gust observed on wind equipment located at end of runway.
<b>Gulf County</b>									
Indian Pass	22	0902EST			0	0			Thunderstorm Wind (G52)
									60 mph wind gust recorded at the Cape San Blas C-MAN station.
<b>Gulf County</b>									
Port St Joe	22	0925EST			0	0			Hail (0.75)
									Dime size hail covering the ground at the Gulf County Sheriffs office.
<b>Franklin County</b>									
East Pt	22	0929EST			0	0			Thunderstorm Wind (G64)
									72 mph wind gust recorded by wind equipment on the St. George Island toll bridge.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, Northwest</b>									
<b>Franklin County</b>									
<b>Apalachicola</b>	22	0935EST			0	0	5K		<b>Thunderstorm Wind</b>
									Thunderstorm winds blew down large trees onto power lines.
<b>Liberty County</b>									
<b>Hosford</b>	22	0955EST			0	0			<b>Hail (0.75)</b>
									Dime size hail reported by Liberty County Sheriffs deputy.
<b>Wakulla County</b>									
<b>Medart</b>	22	1015EST			0	0			<b>Hail (0.75)</b>
									Dime size hail reported by National Weather Service personnel.
<b>Leon County</b>									
<b>Tallahassee</b>	22	1035EST			0	0			<b>Hail (0.88)</b>
									Dime to nickel size hail reported in southeast Tallahassee.
<b>Jefferson County</b>									
<b>Lloyd</b>	22	1040EST			0	0	5K		<b>Thunderstorm Wind</b>
									Trees blown down onto State Highway 90 east of Lloyd.
<b>Taylor County</b>									
<b>Salem</b>	22	1049EST			0	0			<b>Hail (1.00)</b>
<b>Taylor County</b>									
<b>Perry</b>	22	1050EST			0	0	5K		<b>Thunderstorm Wind</b>
									Quarter size hail near Salem and dime size hail two miles west of Rocky Creek road. Trees down just north of Perry on Woods Creek Road. Power lines down near the Florida Highway Patrol Headquarters Post one mile north of Perry.
<b>Taylor County</b>									
<b>Keaton Beach</b>	22	1051EST			0	0			<b>Thunderstorm Wind (G53)</b>
									61 mph wind gust recorded at Keaton Beach C-MAN station.
<b>Taylor County</b>									
<b>Salem</b>	22	1055EST			0	0			<b>Hail (0.75)</b>
									Dime size hail reported near Salem.
<b>Lafayette County</b>									
<b>Day</b>	22	1110EST			0	0			<b>Hail (1.75)</b>
									WTWC TV News 40 Tallahassee meteorologist reported golfball size hail accumulated 4" deep in Day.
<b>Madison County</b>									
<b>Madison</b>	22	1115EST			0	0	5K		<b>Thunderstorm Wind</b>
									Thunderstorm winds downed trees along State Highway 53 10 miles south-southeast of Madison.
<b>Walton County</b>									
<b>Miramar</b>	26	2300EST 2315EST			0	0			<b>Thunderstorm Wind (G52)</b>
									Estimated 60 mph winds reported at Miramar Beach. The Walton County Sheriff dispatch center was evacuated. Minor flooding observed along County Road 1084.
<b>FLORIDA, Southern</b>									
<b>FLZ067&gt;069-071&gt;078</b>									
									<b>Inland Palm Beach - Coastal Palm Beach - Coastal Collier - Inland Broward - Coastal Broward - Inland Dade - Coastal Dade - Mainland Monroe - Monroe/Upper Keys - Monroe/Middle Keys - Monroe/Lower Keys</b>
	02	0800EST 2200EST			1	0			<b>High Wind (G40)</b>
									M35BO
<b>Monroe County</b>									
<b>Duck Key</b>	02	1540EST			0	0			<b>Thunderstorm Wind (G65)</b>
<b>Monroe County</b>									
<b>Big Pine</b>	02	1625EST 1630EST			0	0			<b>Thunderstorm Wind (G65)</b>
									Two trees fell into house.
<b>Monroe County</b>									
<b>Duck Key</b>	02	1725EST			0	0			<b>Thunderstorm Wind (G71)</b>
									Reported from Conch Key just north of Duck Key.
<b>Monroe County</b>									
<b>Marathon</b>	02	1735EST			0	0			<b>Thunderstorm Wind (G61)</b>
									Recorded at C-MAN SMKF.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **FLORIDA, Southern**

### **Monroe County**

<b>Duck Key</b>	02	1740EST 1750EST			0	0			<b>Thunderstorm Wind (G85)</b>
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Sustained wind 50 KTS at 1740 EST...Sustained 65 KTS at 1745...Gust to 85 KTS at 1750 EST.

### **Monroe County**

<b>Marathon</b>	02	1845EST			0	0			<b>Tstm Wind/Hail</b>
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Golf ball size hail. Several trees blown down.

### **Monroe County**

<b>Marathon</b>	02	1847EST 1850EST	1	50	0	0	20M		<b>Tornado (F1)</b>
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Tornado moved from south across Grassy Key near MM 56.5.

### **Monroe County**

<b>Islamadora</b>	02	1910EST 1915EST	0.5	25	0	0			<b>Tornado (F0)</b>
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Tornado moved from the south across Islamorada near MM 80. Extensive damage to homes and businesses. Widespread tree and vegetation loss.

### **Monroe County**

<b>Key Largo</b>	02	1952EST			0	0			<b>Thunderstorm Wind (G73)</b>
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Recorded at C-MAN MLRF.

### **Monroe County**

<b>Longkey</b>	02	2000EST			0	0			<b>Thunderstorm Wind (G104)</b>
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Recorded at C-MAN LONF1. Not reported in real time as primary sensor blew away and was found down the beach.

### **Dade County**

<b>(Hst)Homestead Afb</b>	02	2011EST 2020EST			0	0			<b>Thunderstorm Wind (G57)</b>
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### **Dade County**

<b>Cutler Ridge</b>	02	2015EST 2020EST			0	0			<b>Thunderstorm Wind (G61)</b>
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### **Dade County**

<b>(Mia)Miami Intl to Carol City</b>	02	2022EST 2034EST	14	200	0	0	175M		<b>Tornado (F2)</b>
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At 2022 est f1-f2 tornado touched down nw 36th st/curtis parkway damaging about 12 planes at mia international airport. The mia asos recorded a gust of 90 knots. The f2 tornado crossed through virginia gardens and south miami springs in a 100-200 yard path damaging many buildings and hurling a 2 by 4 board through an apartment door. Showing f1 intensity the tornado continued through miami springs uprooting trees and damaging roof tops. At 2027 est the tornado intensified to f2 into south hialeah severely damaging structures. the tornado weakened to f1 near hialeah race track and the path widened to one to three miles...with indications of three or four individual tornadoes of f1 intensity moving in tandem to the north.. at 2031 est the main tornado reintensified to f2 status as it approached opa locka airport severely damaging the roof of the ups facility then damaging or destroying 140 aircraft and a hangar at the airport blowing some debris nearly a half mile. The tornadoes weakened to f1 status as they moved through carol city damaging homes and utility poles.

### **Broward County**

<b>Miramar to Plantation</b>	02	2034EST 2044EST	7	200	0	0	30M		<b>Tornado (F1)</b>
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At 2034 est the f1 tornadoes crossed the dade-broward counties line and damaged a strip shopping center in miramar. The multiple tornadoes moved across north perry airport at 2036 est where 40 aircraft were destroyed and 40 aircraft were damaged. The tornadoes weakened to f0-f1 intensity as they continued north-northeast damaging a shopping center in davie near orange rd/hiatus rd.

...a developing low pressure over the north gulf of mexico resulted in a tightening pressure gradient over south florida and adjacent waters. Southeast winds sustained at gale force with higher gusts occurred through most of 02/02/98. A pre-frontal trough of low pressure developed over the southeastern gulf of mexico early 02/02/98. This resulted in a highly unstable airmass which was lifted by strong mid and upper level jets by late afternoon. Tornado and severe thunderstorm producing storms moved through the florida keys between 1530

And 1930 est. The thunderstorms moved over south florida between 1930 and 2130 est. The culmination of gail force winds...several severe thunderstorms and two tornadoes resulted in widespread damage in the florida keys. Trees...power lines and light poles were down most locations south of key largo. Some minor coastal flooding occurred. Boats were capsized and docks were damaged. A support buoy for an underwater lab was dislodged and drifted ashore. Fema reported one house completely destroyed and 23 homes damaged. Several businesses were damaged. Extensive damage occurred to the fishing industry primarily loss of lobster traps.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, Southern</b>									
<b>FLZ069</b>									
		<b>Coastal Collier</b>							
	02	1200EST 2200EST			0	0			<b>High Wind (G40)</b>
		Strong southeast winds sustained near 40 knots resulted in snapped tree limbs and downed power lines.							
<b>Collier County</b>									
Marco	02	1837EST 1845EST			0	0			<b>Funnel Cloud</b>
		Funnel cloud spotted west of the JUDGE S.S. JOLLEY bridge.							
<b>Broward County</b>									
Hollywood to Davie	02	2000EST			0	0			<b>Thunderstorm Wind (G60)</b>
		Widespread reports of downed trees and power lines. street flooding primarily in hollywood.							
<b>Glades County</b>									
Lakeport	02	2130EST 2200EST			0	0			<b>Thunderstorm Wind (G60)</b>
		One home lost porch roof and half of residences roof. Numerous trees and power lines down over much of eastern Glades county.							
<b>Hendry County</b>									
Clewiston	02	2130EST 2200EST			0	0			<b>Thunderstorm Wind (G60)</b>
		Metal utility building was blown off its foundation. Numerous trees and power lines down.							
<b>Glades County</b>									
Lakeport	02	2150EST 2200EST	0.2	25	0	0	100K		<b>Tornado (F1)</b>
		Tornado touched down in Buckhead Ridge. Two homes had their roofs torn off. Ten homes had roof damage. Numerous trees and powerlines down.							
<b>Collier County</b>									
Goodland	06	1956EST 2005EST	0.2	40	0	0			<b>Tornado (F1)</b>
		F1 tornado touched down near 321 Pear Tree AVE. Several trees were downed and a wooden storage shed was destroyed. Two mobile homes and a RV were extensively damaged.							
<b>Collier County</b>									
Marco	06	1959EST 2007EST	0.2	25	0	0	50K		<b>Tornado (F0)</b>
		F0 touched down near 1165 Bald Eagle DR. Roof was torn off screen enclosure. Large festival tents were blown down and damaged. Several trees were downed.							
<b>Collier County</b>									
Goodland	06	2000EST 2010EST			0	0			<b>Hail (1.00)</b>
		Hail reported in wake of tornado.							
<b>Palm Beach County</b>									
Loxahatchee to Lake Worth	06	2115EST 2140EST			0	0			<b>Tstm Wind/Hail</b>
		Three quarter inch hail covered the ground in many locations. Trees and power lines were down.							
<b>Palm Beach County</b>									
Delray Beach	06	2135EST 2145EST	0.2	25	0	0			<b>Tornado (F1)</b>
		Reported by Florida Highway Patrol crossing I95 at Linton BLVD. Uprooted 10 feet in diameter Ficus trees and downed power lines. Tipped over a tractor trailer.							
<b>FLZ074</b>									
		<b>Coastal Dade</b>							
	15	1200EST 2200EST			0	0			<b>High Wind (G40)</b>
		A 30 foot sailboat capsized with two people rescued. Two tugboats...one towing the other...lost power and grounded around 2200 est just off Sunny Isles near Newport pier.							
<b>Palm Beach County</b>									
Palm Beach Gardens	17	1020EST 1025EST			0	0			<b>Funnel Cloud</b>
		Three funnel clouds were spotted by teacher at H.L. WATKINS Middle School 9480 Macarther BLVD.							
<b>Broward County</b>									
Coral Spgs	28	1025EST 1030EST	0.2	10	0	0			<b>Tornado (F0)</b>
		Small funnel cloud touched down. Uprooted trees and downed street signs.							

# Storm Data and Unusual Weather Phenomena

February 1998

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

## FLORIDA, Southern

### **Broward County Pompano Beach**

28	1525EST 1535EST					0	0	10K	0	Thunderstorm Wind (G60)
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Tree fell on car. Some roof damage.

### **Broward County Deerfield Beach**

28	1530EST 1540EST	1	40			0	2	382K	0	Tornado (F1)
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Touched down near dixie just north of Sample Rd. Proceeded north northwest to Pompano Beach High School on SW 15th ST then proceeded northeast to SE 2nd AVE/SE 10th ST. The tornado may have skipped off the ground a few times. At Deerfield High School a dugout on the athletic field was destroyed. At SE 10th ST/SW First Way several trees were uprooted and roofing material travelled two blocks through the air. There was a report of a dumpster traveling rapidly down the street. Most of the damage was uprooted trees...damaged roofs and power outages. Car accidents resulted and commercial signs were destroyed.

## FLORIDA, West Central

### **Sarasota County 25 SE Sarasota**

01 13	0000EST 0800EST					0	0	10K	0	River Flood
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The Myakka River at Myakka State Park crested at 7.5 feet on the 1st, one half foot above the flood stage of seven feet.

### **De Soto County 1 W Arcadia**

01 02	0000EST 0800EST					0	0	5K	0	River Flood
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The Peace River along State Road 70 in Arcadia crested at 11.6 feet on the 1st, over one half foot above the flood stage of 11 feet.

### **Citrus County 1 N Citrus Spgs**

01 06	0000EST 0800EST					0	0	5K	0	River Flood
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The Withlacoochee River at Dunnellon crested at 29.2 feet, less than a half foot above the flood stage of 29 feet, on the 4th.

### **Citrus County Holder**

02 28	0800EST 2359EST					0	0	500K	0	River Flood
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The Withlacoochee River at Holder crested at 10.0 feet, two feet above the flood stage of eight feet, on the 28th. Several homes incurred water damage from the floodwaters.

### **Charlotte County Englewood to Port Charlotte**

02	1900EST 1915EST					0	0	50K	0	Thunderstorm Wind
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Thunderstorm winds estimated at 60 to 70 mph downed several trees and damaged the roofs of a few mobile homes from Englewood to Port Charlotte.

### **Lee County Cape Coral**

02	1900EST					0	0	10K	0	Thunderstorm Wind
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Thunderstorm winds estimated at 60 to 70 mph downed several trees in Cape Coral.

### **Sarasota County Venice**

02	1915EST					0	0	5K	0	Tstm Wind (G45)
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Thunderstorm winds estimated at 50 mph caused minor damage to a few lanais and carports in Venice.

### **Pinellas County Indian Rocks Beach to Belleair Beach**

02	1920EST					0	0	50K	0	Thunderstorm Wind
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Thunderstorm winds caused minor to moderate damage to a few homes and downed a few trees in Indian Rocks Beach and Belleair Beach. A cable television meteorologist estimated winds from the thunderstorm to be between 65 and 70 mph while he conducted an outdoor weathercast from Indian Rocks Beach.

### **Pasco County New Port Richey**

02	1940EST					0	0	50K	0	Thunderstorm Wind
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Thunderstorm winds snapped several power poles and downed trees in New Port Richey.

### **Pasco County 6 WSW Dade City**

02	1945EST	0.1	5			0	0	5K	0	Tornado (F0)
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A short-lived tornado touched down along State Road 52 near San Antonio and caused minor roof damage to a few homes before it lifted and dissipated. Several large tree limbs were also snapped by the brief tornado.

### **Pasco County 3 S Hudson**

02	1946EST					0	0	25K	0	Thunderstorm Wind (G56)
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A Skywarn Spotter reported a wind gust of 64 mph and several downed large branches.

### **Pinellas County 6 N St Petersburg to 3.5 N St Petersburg**

02	2032EST 2034EST					0	0	75K	0	Thunderstorm Wind
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Thunderstorm winds caused roof, lanai and carport damage to a few homes and downed numerous large tree branches along 4th

# Storm Data and Unusual Weather Phenomena

February 1998

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**

Street between 66th Avenue and Gandy Boulevard.

### **Hillsborough County**

**11 NW Tampa to  
13 N Tampa**      **02**      **2050EST  
2100EST**      **0**      **0**      **100K**      **0**      **Thunderstorm Wind**

Thunderstorm winds downed several trees and power lines from Citrus Park northeast to Lutz in northern Hillsborough County. Over 5,000 thousand electrical customers were without power from wind downed power lines.

### **Hernando County**

**Countywide**      **02**      **2100EST  
2300EST**      **0**      **0**      **20K**      **0**      **Urban/Sml Stream Fld**

### **Hillsborough County**

**Countywide**      **02**      **2100EST  
2300EST**      **0**      **0**      **10K**      **0**      **Urban/Sml Stream Fld**

### **Pasco County**

**Countywide**      **02**      **2100EST  
2300EST**      **0**      **0**      **10K**      **0**      **Urban/Sml Stream Fld**

### **Pinellas County**

**Countywide**      **02**      **2100EST  
2300EST**      **0**      **0**      **5K**      **0**      **Urban/Sml Stream Fld**

Three to five inches of rain in less than three hours caused localized street flooding between the U.S. Highway 19 and 41 corridors from Hillsborough County north to Hernando County. Several vehicles incurred water damage from standing water.

### **Pasco County**

**18 W Zephyrhills**      **03**      **0800EST  
28 2359EST**      **0**      **0**      **5K**      **0**      **River Flood**

The Cypress Creek at Worthington Gardens along State Road 54 crested at 12.0 feet, four feet above the flood stage of eight feet, on the 20th. Minor flooding and water damage occurred at a fish and trailer camp along State Road 54.

### **Manatee County**

**27 E Bradenton**      **03**      **0800EST  
05 0800EST**      **0**      **0**      **5K**      **75K**      **River Flood**

The Manatee River at Myakka Head along State Road 64 crested at 9.6 feet on the 4th, two and a half feet above the flood stage of seven feet. Minor crop damage occurred, mainly tomatoes, from the floodwaters.

### **Hillsborough County**

**Brandon**      **03**      **2100EST**      **0**      **0**      **30K**      **0**      **Thunderstorm Wind**

Thunderstorm winds downed several trees atop power lines and caused power outages in Brandon. Nearly 5,000 electrical customers in Brandon were without power for several hours.

### **Lee County**

**Cape Coral**      **04**      **1000EST  
1500EST**      **0**      **0**      **15K**      **0**      **High Wind (G40)**

Gradient wind of up to 45 mph caused \$15,000 dollars worth of damage to the front door of Fire Station No. 4 on Santa Barbara Boulevard in Cape Coral.

### **Polk County**

**Lakeland to  
Winter Haven**      **04**      **1000EST  
1500EST**      **0**      **0**      **3K**      **0**      **High Wind (G40)**

Gradient wind of up to 45 mph downed a few trees and caused roof and carport damage to a home in Lakeland.

### **Lee County**

**Cape Coral**      **06**      **2015EST**      **0**      **0**      **5K**      **0**      **Thunderstorm Wind**

Thunderstorm winds downed several power lines along Del Prado Boulevard in Cape Coral.

### **Manatee County**

**27 E Bradenton**      **15**      **0800EST  
21 0800EST**      **0**      **0**      **25K**      **250K**      **River Flood**

The Manatee River at Myakka Head along State Road 64 crested at 13.7 feet on the 17th, over six and a half feet above the flood stage of seven feet. Crop damaged occurred, mainly tomatoes, from the floodwaters.

### **Lee County**

**15 SW Cape Coral**      **15**      **1935EST**      **0.1**      **5**      **0**      **0**      **20K**      **0**      **Tornado (F0)**

A short lived tornado touched down along Sanibel Captiva Road near Blind Pass on Sanibel Island and downed a few trees before it lifted and dissipated.

### **Lee County**

**12 SW Cape Coral**      **15**      **1945EST**      **0**      **0**      **10K**      **0**      **Thunderstorm Wind**

Thunderstorm winds downed several power lines along Sanibel Captiva Road on Sanibel Island.

### **Lee County**

**2 SW Cape Coral**      **15**      **1945EST**      **0**      **0**      **0**      **0**      **Hail (0.75)**

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, West Central</b>									
<b>Lee County</b> 2 SW Cape Coral	15	1945EST 1955EST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds damaged pool cages and downed two large trees in Cape Coral.
<b>Charlotte County</b> Englewood	15	2000EST			0	0	5K	0	Tstm Wind (G45)
									Thunderstorm winds of 50 mph damaged a mobile home's lanai and roof on the 2800 block of Kiskadee Drive in Englewood.
<b>Hillsborough County</b> 21 SSE Tampa	16 25	0800EST 1300EST			0	0	300K	0	River Flood
									In Hillsborough County, heavy rains caused the Little Manatee River to crest at 16.6 feet, over five and a half feet above the eleven foot flood stage at U.S. Highway 301. Several homes were damaged by floodwaters in Ruskin.
<b>Citrus County</b> 1 N Citrus Spgs	16	0800EST			0	0	10K	0	River Flood
									The Withlacoochee River at Dunnellon crested at 29.4 feet, less than a half foot above the flood stage of 29 feet, on the 17th.
<b>Hillsborough County</b> 13 SE Tampa	16 25	0800EST 0800EST			0	0	400K	0	River Flood
									The Alafia River at Riverview crested at 17.3 feet, nearly four and a half feet above the flood stage of 13 feet, on the 21st. Several rental homes along and or near the Alafia River were damaged by floodwaters.
<b>Hardee County</b> 1 N Zolfo Spgs	16 26	0800EST 0800EST			0	0	7K	0	River Flood
									The Peace River at Zolfo Springs crested its banks and severely damaged the river gage.
<b>Citrus County</b> 1 NW Crystal River	16	0935EST	0.1	5	0	0	50K	0	Tornado (F0)
									A short-lived tornado touched down and destroyed a 10 by 18 foot building that housed well and pump equipment at the St. Martin's Marsh and Aquatic Preserve west of U.S. Highway 19.
<b>Citrus County</b> Citrus Spgs	16	0955EST			0	0	0	0	Hail (0.75)
									Dime sized hail was reported by a Skywarn Spotter.
<b>Citrus County</b> Countywide	16	1000EST 1800EST			0	0	10K	0	Urban/Sml Stream Fld
<b>Hernando County</b> Countywide	16	1000EST 1800EST			0	0	10K	0	Urban/Sml Stream Fld
<b>Hillsborough County</b> Countywide	16	1000EST 1800EST			0	0	30K	400K	Urban/Sml Stream Fld
<b>Pasco County</b> Countywide	16	1000EST 1800EST			0	0	40K	100K	Urban/Sml Stream Fld
<b>Pinellas County</b> Countywide	16	1000EST 1800EST			0	0	10K	0	Urban/Sml Stream Fld
<b>Polk County</b> Countywide	16	1000EST 1800EST			0	0	10K	200K	Urban/Sml Stream Fld
									Heavy rainfall of three to five inches in less than eight hours caused localized flooding of low-lying roads and areas of poor drainage from Lutz in Hillsborough County north to Crystal River in Citrus County.
									Over 70 percent of the strawberry crop in Hillsborough, Pasco and Polk Counties was destroyed by the heavy rainfall.
									Nearly 400 homes were inaccessible in the Fairway Springs subdivision along State Road 54 in New Port Richey due to the heavy rainfall. Water two to four deep covered roadways from the heavy rainfall over portions of Pasco County.
<b>Hernando County</b> Spring Hill	16	1245EST			0	0	100K	0	Thunderstorm Wind
									Thunderstorm winds damaged two metal commercial buildings on the 17000 block of Spring Hill Drive in Spring Hill.



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, West Central</b>									
<b>Hernando County</b>									
5 SSW Brooksville	16	1300EST	2	10	0	0	125K	0	Tornado (F0)
A tornado touched down and destroyed a large metal building near the Hernando County Airport. The tornado also caused significant structural damage to a building at a plant nursery and snapped several pine trees along Powell Road before it lifted and dissipated.									
<b>Manatee County</b>									
10 N Bradenton	16	1330EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported by a Skywarn Spotter.									
<b>Hillsborough County</b>									
10 NW Tampa	16	1334EST			0	0	0	0	Thunderstorm Wind (G52)
Thunderstorm winds produced a 60 mph wind gust along Lukes Lake Fern Road, near the intersection of Hillsborough Avenue and Dale Mabry Boulevard.									
<b>Hillsborough County</b>									
Ruskin	16	1355EST			0	0	0	0	Hail (0.75)
<b>Hillsborough County</b>									
Sun City	16	1355EST 1400EST			0	0	0	0	Hail (1.00)
Daisy shaped and clear one inch hailstones were reported in Sun City.									
<b>Hillsborough County</b>									
8 NE Ruskin	16	1359EST			0	0	0	0	Hail (1.00)
One inch hail was reported by a Skywarn Spotter near U.S. Highway 301 and Balm Road.									
<b>Sumter County</b>									
3 NW Wildwood	16	1425EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm wind destroyed a barn and downed trees and power lines at County Road 237 near State Road 466.									
<b>Polk County</b>									
5 S Lake Wales	16	1431EST 1432EST			0	0	0	0	Waterspout
A large waterspout touched down on Crooked Lake east of U.S. Highway 27 and south of County Road 640. The waterspout moved onshore near North Crooked Lake Drive.									
<b>Polk County</b>									
5 SE Lake Wales	16	1432EST 1433EST	1.5	10	0	0	150K	0	Tornado (F0)
A tornado touched down along U.S. Highway 27A and North Crooked Lake Drive and lifted near Gulf View Cutoff Road in Babson Park. Five homes in a Babson Park division incurred roof damage by the tornado while several trees and power lines were downed before the tornado lifted and dissipated.									
<b>Polk County</b>									
4 S Lakeland	16	1450EST			0	0	0	0	Hail (0.75)
<b>Polk County</b>									
Haines City	16	1520EST			0	0	50K	0	Thunderstorm Wind
Thunderstorm winds downed several power lines in the Haines City and Davenport areas.									
<b>Pinellas County</b>									
Largo	17	0348EST			0	0	10K	0	Thunderstorm Wind (G52)
Thunderstorm winds of 60 mph were reported by a Skywarn Spotter in Largo.									
<b>Pasco County</b>									
Land O Lakes	17	0400EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds peeled the roof off a home and downed several large trees along U.S. Highway 41 and Decision Road.									
<b>Hillsborough County</b>									
Temple Terrace	17	0415EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds damaged several windows of a home in Temple Terrace.									
<b>Sarasota County</b>									
5 N Venice	17	0425EST 0426EST			0	0	0	0	Waterspout
<b>Sarasota County</b>									
5 N Venice to 6 N Venice	17	0426EST 0428EST	0.2	10	0	0	200K	0	Tornado (F1)
A tornado touched down and blew over several large trees atop homes which caused significant roof damage along Bellini and Picasso Roads near Casey Key.									
A resident with an anemometer located 50 feet above ground level reported a wind gust of 109 mph at the 1800 block of Casey Key.									

# Storm Data and Unusual Weather Phenomena

February 1998

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

Several power poles, wires, trees and chimneys were downed by the tornado before it lifted and dissipated.

### Sarasota County

Sarasota

17 0430EST 0 0 4K 0 Thunderstorm Wind

Thunderstorm winds downed several large branches on Wilkenson and Proctor Roads in Sarasota.

### Manatee County

Palmetto

17 0445EST 0 0 100K 0 Thunderstorm Wind

Thunderstorm winds severely damaged the roof of a restaurant on 8th Avenue West and Riverside Drive. Numerous large tree limbs and power lines were also downed by the thunderstorm winds.

### De Soto County

Countywide

17 0500EST 0 0 10K 0 Urban/Sml Stream Fld  
1200EST

### Highlands County

Countywide

17 0500EST 0 0 10K 0 Urban/Sml Stream Fld  
1200EST

### Lee County

Countywide

17 0500EST 0 0 20K 0 Urban/Sml Stream Fld  
1200EST

### Manatee County

Countywide

17 0500EST 0 0 20K 0 Urban/Sml Stream Fld  
1200EST

### Sarasota County

Countywide

17 0500EST 0 0 40K 0 Urban/Sml Stream Fld  
1200EST

Heavy rain of five to seven inches caused localized flooding of roadways and low-lying areas from Sarasota east across Wauchula to Avon Park and southwest to Ft Myers.

### Manatee County

7 W Myakka City to  
2 W Myakka City

17 0511EST 5 10 0 0 200K 0 Tornado (F1)  
0522EST

A tornado tore off the roof of a milking facility, two barns and a shed, damaged feed silos and downed power lines in a rural area of eastern Manatee County along State Road 70.

### Polk County

6 E Ft Meade

17 0525EST 0.2 10 0 0 15K 0 Tornado (F1)

A tornado briefly touched down and damaged the Stokes and Imperial Citrus Nurseries along Stokes Road. Nearly 40 orange trees were uprooted along Stokes Road.

### Polk County

Lake Wales

17 0540EST 1.6 10 0 0 175K 0 Tornado (F1)  
0542EST

A tornado touched down at Fourth and Johnson Streets in Lake Wales and caused significant roof damage to 25 homes, damaged a few vehicles, downed numerous large tree limbs and power lines along an intermittent path. Five homes in the North Point subdivision incurred moderate roof and lanai damage. One large vehicle was rolled and severely damaged by the tornado before it lifted and dissipated in the Crown Pointe subdivision along Burns Avenue in Lake Wales.

### Hardee County

Wauchula

17 0545EST 0 0 5K 0 Thunderstorm Wind

Thunderstorm winds downed several large tree limbs and power lines along West Orange Street.

### Highlands County

Avon Park

17 0630EST 0 0 10K 0 Thunderstorm Wind

Thunderstorm winds removed the roof of a shed and downed several power lines in Avon Park.

### De Soto County

1 W Arcadia

17 0800EST 0 0 500K 0 River Flood  
28 0800EST

The Peace River along State Road 70 in Arcadia crested at 16.0 feet on the 16th, over five feet above the flood stage of eleven feet.

### Sarasota County

25 SE Sarasota

17 0800EST 0 0 200K 0 River Flood  
28 2359EST

The Myakka River at Myakka State Park crested at 10.1 feet on the 20th, over three feet above the flood stage of seven feet. Over 20 homes downstream were damaged from floodwaters of the Myakka.

### Polk County

1 E Bartow

17 0800EST 0 0 5K 0 River Flood  
28 2359EST

The Peace River along State Road 60 in Bartow crested at 9.0 feet, one foot above the flood stage of eight feet, on the 23rd.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, West Central</b>									
<b>Hillsborough County</b>									
21 NE Tampa	17	0800EST			0	0	10K	0	River Flood
	23	0800EST							
The Hillsborough River at Hillsborough State Park crested at 11.7 feet, over one and a half foot above the flood stage of ten feet on the 21st, before the river receded.									
<b>Lee County</b>									
Pineland	17	0940EST			0	0	2K	0	Thunderstorm Wind
Thunderstorm winds downed several large trees at a Pine Island golf course along County Road 767.									
<b>Lee County</b>									
Ft Myers	17	0950EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported at U.S. Highway 41 and Boy Scout Road.									
<b>De Soto County</b>									
8 W Arcadia	18	0800EST			0	0	50K	0	River Flood
	24	0800EST							
The Horse Creek crested at 15.0 feet, three feet above the flood stage of twelve feet, on the 19th. A few homes in the Hidden Acres subdivision received minor to moderate flood damage.									
<b>Pinellas County</b>									
Indian Rocks Beach	19	1605EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds of up to 70 mph downed several large branches in Indian Rocks Beach. A few homes had roof and tile damage from the thunderstorm wind.									
<b>Pinellas County</b>									
9 NNW St Petersburg	19	1608EST			0	0	50K	0	Thunderstorm Wind
Thunderstorm winds flipped and damaged a plane at the St. Petersburg-Clearwater Airport.									
<b>Hillsborough County</b>									
5 ENE Tampa	19	2029EST			0	0	5K	0	Thunderstorm Wind
Thunderstorm winds downed several power lines in Thonotosassa.									
<b>Pasco County</b>									
5 NW Zephyrhills	19	2100EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds downed several large limbs and power lines along State Road 52 near San Antonio.									
<b>Manatee County</b>									
10 W Bradenton	19	2210EST			0	0	117K	0	Thunderstorm Wind
Thunderstorm wind shattered the windows of 21 vehicles, blew off the roofs of several home and downed numerous large trees in Holmes Beach and Anna Maria.									
<b>Manatee County</b>									
8 NNE Bradenton	19	2230EST	0.1	5	0	0	50K	0	Tornado (F0)
A weak short-lived tornado caused minor damage to a mobile home park along Moccasin Wallow Road and Imperial Circle near Interstate 75.									
<b>Hillsborough County</b>									
Countywide	19	2245EST			0	0	40K	0	Urban/Sml Stream Fld
	20	1100EST							
<b>Manatee County</b>									
Countywide	19	2245EST			0	0	20K	0	Urban/Sml Stream Fld
	20	1100EST							
<b>Pasco County</b>									
Countywide	19	2245EST			0	0	30K	0	Urban/Sml Stream Fld
	20	1100EST							
<b>Pinellas County</b>									
Countywide	19	2245EST			0	0	30K	0	Urban/Sml Stream Fld
	20	1100EST							
<b>Polk County</b>									
Countywide	19	2245EST			0	0	20K	0	Urban/Sml Stream Fld
	20	1100EST							
Heavy rain of two to four inches caused localized flooding of roadways and areas of poor drainage from Bradenton in Manatee County, north to Port Richey in Pasco County and east across Hillsborough and Polk Counties. Several cars incurred water damage at flooded roadways and intersections.									
<b>Manatee County</b>									
Ellenton	19	2255EST			0	0	20K	0	Thunderstorm Wind
Thunderstorm wind severely damaged a mobile home and downed a few trees in Ellenton along U.S. Highway 301.									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, West Central</b>									
<b>Polk County</b> 2 S Lakeland	19	2325EST			0	0	10K	0	<b>Thunderstorm Wind (G77)</b>
	A thunderstorm wind gust of 88 mph was reported by a Skywarn Spotter. Several large trees and branches were downed by the thunderstorm winds.								
<b>Hillsborough County</b> Ruskin to Wimauma	20	0220EST 0230EST			0	0	50K	0	<b>Thunderstorm Wind</b>
	Thunderstorm winds downed numerous trees and power lines across the southern portion of Hillsborough County.								
<b>Manatee County</b> 2 NNE Bradenton	20	0225EST			0	0	5K	0	<b>Thunderstorm Wind</b>
	Thunderstorm winds destroyed a carport in Bradenton.								
<b>Polk County</b> 2 S Lakeland	20	0230EST			0	0	25K	0	<b>Thunderstorm Wind</b>
	Thunderstorm winds downed several power lines over southern parts of Lakeland.								
<b>Hernando County</b> 11 E Brooksville	20 28	0800EST 2359EST			0	0	10K	50K	<b>River Flood</b>
	The Withlacoochee at Croom crested at 9.7 feet, less than a foot above the flood stage of nine feet, on the 28th. Crops were also damaged by the floodwaters.								
<b>Pasco County</b> Tribby	22 28	0800EST 2359EST			0	0	500K	0	<b>River Flood</b>
	The Withlacoochee River rose to 14.0 feet on the 28th, nearly two feet above the flood stage of twelve feet, which caused water damage to properties along the river.								
<b>Levy County</b> 2 N Bronson	22	1407EST			0	0	0	0	<b>Hail (0.75)</b>
	Dime sized hail was reported by a Skywarn Spotter along County Road 337.								
<b>FLZ055</b> <b>Manatee</b>	22	1610EST			0	4	15K	0	<b>High Wind</b>
	Non-thunderstorm winds blew down a large tree atop a vehicle and injured four passengers.								
<b>Levy County</b> Bronson to Cedar Key	22	1730EST 2200EST			0	0	10K	0	<b>Urban/Sml Stream Fld</b>
	Heavy rainfall over three to four inches in less than five hours caused localized flooding on roadways between Bronson and Cedar Key. A few vehicles incurred water damage from the floodwaters.								
<b>Citrus County</b> Homosassa	22	2118EST			0	0	0	0	<b>Hail (0.75)</b>
	Dime sized hail was reported by a Skywarn Spotter.								
<b>Sumter County</b> Coleman	22	2150EST	0.1	5	0	0	20K	0	<b>Tornado (F0)</b>
	A short-lived tornado touched down along U.S. Highway 301 near County Road 468 and damaged a mobile home, a few sheds, downed trees and a few power lines before it lifted.								
<b>Polk County</b> Kathleen	23	0000EST			0	0	10K	0	<b>Thunderstorm Wind</b>
	Thunderstorm winds downed several power poles along County Road 35A in Kathleen.								
<b>Polk County</b> Polk City	23	0020EST			0	0	0	0	<b>Hail (0.88)</b>
	Nickel sized hail was observed in Polk City along State Road 33.								
<b>Pinellas County</b> 2 W Tarpon Spgs	27	0910EST			0	0	0	0	<b>Waterspout</b>
<b>Citrus County</b> Crystal River	28	0824EST			0	0	0	0	<b>Hail (0.75)</b>
<b>Pasco County</b> Port Richey	28	0930EST			0	0	0	0	<b>Hail (0.75)</b>
<b>Pasco County</b> Port Richey	28	0939EST			0	0	0	0	<b>Hail (0.88)</b>
<b>Citrus County</b> Crystal River to Chassahowitzka	28	1000EST 1100EST			0	0	10K	0	<b>Urban/Sml Stream Fld</b>

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>FLORIDA, West Central</b>									
<b>Hernando County</b>									
Spring Hill to Brooksville	28	1000EST 1100EST			0	0	20K	0	Urban/Sml Stream Fld
<b>Hillsborough County</b>									
Tampa to Lutz	28	1000EST 1100EST			0	0	50K	0	Urban/Sml Stream Fld
<b>Pasco County</b>									
Holiday to Port Richey	28	1000EST 1100EST			0	0	40K	0	Urban/Sml Stream Fld
<b>Pinellas County</b>									
Dunedin to Tarpon Spgs	28	1000EST 1100EST			0	0	20K	0	Urban/Sml Stream Fld
<b>Sumter County</b>									
Wildwood to Bushnell	28	1000EST 1100EST			0	0	10K	0	Urban/Sml Stream Fld
Heavy rainfall of two to four inches caused localized street flooding from Port Richey in Pasco County northeast to Bushnell in Sumter County. Several vehicles incurred water damage from standing water at low-lying intersections.									
<b>Polk County</b>									
Winter Haven	28	1157EST			0	0	1K	0	Thunderstorm Wind
Thunderstorm winds downed two large trees on 14th Street and Lake Link Road in Winter Haven.									
<b>Pasco County</b>									
New Port Richey	28	2040EST			0	0	150K	0	Hail (3.00)
Isolated tea cup sized hail was reported by the public at a restaurant in New Port Richey. A few vehicles and commercial rooftops incurred damage from the large hail.									
<b>Pasco County</b>									
New Port Richey	28	2053EST			0	0	0	0	Hail (0.75)
<b>Pasco County</b>									
New Port Richey	28	2058EST			0	0	10K	0	Thunderstorm Wind
Thunderstorm winds caused roof and shingle damage to a single family dwelling near County Road 587 and County Road 1.									
<b>Pasco County</b>									
14 ENE New Port Richey	28	2113EST			0	0	0	0	Hail (0.75)
<b>Hernando County</b>									
Spring Hill	28	2113EST			0	0	0	0	Hail (0.75)
Dime sized hail was reported near Cortez Boulevard in Spring Hill.									
<b>Pasco County</b>									
Port Richey	28	2130EST			0	0	100K	0	Thunderstorm Wind
Thunderstorm winds downed several large trees, numerous power lines, and damaged vehicles and the roofs of a few homes and businesses, mainly in the 6200 block of Florida Avenue in Port Richey.									
<b>FLORIDA, West Panhandle</b>									
<b>Santa Rosa County</b>									
Pace to Milton	11	0230CST 0300CST			0	0	5K		Thunderstorm Wind (G50)
High winds damaged a building in Pace and damaged siding on a couple of homes just east of Milton. A few trees were also blown down in both Pace and Milton. A mobile home along with a barn and a couple of outbuildings were damaged just east of Berrydale.									
<b>FLZ002</b>									
<b>Coastal Escambia</b>									
	15	1500CST 2100CST			0	0	30K		Flood
Coastal Flooding... Strong east to southeast winds caused high waves from Orange Beach Alabama to near Pensacola Pass. (See Alabama, Lower Baldwin and Mobile counties, for more information).									
<b>Escambia County</b>									
Pensacola Beach	16	1540CST 1541CST			0	0			Hail (0.75)
Dime size hail was reported on the eastern end of Pensacola Beach.									
<b>Santa Rosa County</b>									
Milton	16	1600CST 1601CST			0	0			Hail (1.00)
Quarter size hail was reported just north of Milton.									

# Storm Data and Unusual Weather Phenomena

February 1998

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

## FLORIDA, West Panhandle

### **Santa Rosa County**

Navarre	22	0445CST 0446CST			0	0			Hail (0.75)
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Dime size hail was reported just east of Navarre.

### **Okaloosa County**

Niceville	22	0530CST 0531CST			0	0			Hail (0.75)
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Dime size hail was reported just west of Niceville.

### **Okaloosa County**

Crestview	22	0600CST 0601CST			0	0			Hail (1.00)
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Quarter size hail was reported along I-10 just east of Crestview.

### **Santa Rosa County**

Holley	26	2030CST 2031CST			0	0			Hail (0.75)
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Dime size hail was reported just north of Holley.

## GEORGIA, East Central

NONE REPORTED.

## GEORGIA, Lower

### **Coffee County**

1 E Pridgen to 1.2 E Pridgen	03	1800EST	0.2	20	0	0	3K	Tornado (F0)
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Trees and power lines were blown down.

### **Charlton County**

Folkston	16	1000EST			0	0	2K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Camden County**

1 NE Tarboro to 1.2 NE Tarboro	17	0026EST	0.2	25	0	1	35K	Tornado (F0)
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Mobile home overturned. One house damaged. Large trees and power lines were blown down.

### **Glynn County**

1 SW St Simons Is to St Simons Is	17	0030EST	0.5	40	0	0	500K	Tornado (F0)
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15-20 Homes were damaged. Large trees and power lines were blown down.

### **Clinch County**

Homerville	22	1205EST			0	0	2.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Echols County**

Statenville	22	1218EST			0	0	1.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Camden County**

Woodbine	22	1325EST			0	0	2.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Charlton County**

12 S Folkston to 12.5 SW Folkston	22	1705EST	0.5	30	0	0	5K	Tornado (F0)
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Large trees were blown down. One mobile home was damaged. Power line poles were snapped.

### **Appling County**

Baxley	28	0145EST			0	0	2K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Bacon County**

Alma	28	0205EST			0	0	1.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Brantley County**

Atkinson	28	0210EST			0	0	2.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

### **Coffee County**

Douglas	28	0211EST			0	0	1.5K	Thunderstorm Wind
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Large trees and power lines were blown down.

# Storm Data and Unusual Weather Phenomena

February 1998

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

**GEORGIA, Lower**

**GEORGIA, North and Central**

**GAZ013>014-020>025-027-031>037-042>043-043>047**     **Pickens - Dawson - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton**

<b>03</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>100K</b>	<b>Strong Wind</b>
<b>04</b>	<b>1800EST</b>				

Strong surface winds knocked down scattered to numerous trees across the area. The tightening pressure gradient between a strong low pressure moving out of the gulf and high pressure to the northeast produced northeast winds of 20 to 30 mph with occasional gusts near 45 mph. Trees falling onto houses and fences caused a lot of damage. Power outages resulted from trees falling onto power lines. Nearly saturated soil conditions and additional heavy rainfall were largely to blame for the trees being blown over. The winds diminished some overnight, but were again almost as gusty on the 4th before weakening by early evening.

**Pulaski County**  
**Southwest Portion to**  
**Southeast Portion**

<b>03</b>	<b>1340EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flood</b>
	<b>1600EST</b>				

Localized flooding was reported by the county EMA. 5 county roads were closed and 1 was washed out. Nearly two inches of rain had fallen onto nearly saturated soil in the past 24 hours.

**Carroll County**  
**Southwest Portion**

<b>03</b>	<b>1600EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flood</b>
	<b>1900EST</b>				

Localized flooding was reported southwest of Carrollton by the Carroll county EMA. Several roads were closed.

**Polk County**  
**Cedartown to**  
**Rockmart**

<b>03</b>	<b>1815EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flood</b>
	<b>2200EST</b>				

Flooding occurred along and near the Big Cedar Creek. Water was in the basement of some homes. A trailer park along the creek was voluntarily evacuated.

**Floyd County**  
**Rome**

<b>03</b>	<b>1900EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Flood</b>
	<b>2300EST</b>				

Mainly street flooding in downtown Rome was noted.

**GAZ012**

**Gordon**

<b>03</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Flood</b>
<b>04</b>	<b>1800EST</b>				

Flooding closed 19 roads in the county on the 3rd. By the morning of the 4th, there were still 10 closed.

**GAZ022-034**

**Forsyth - Gwinnett**

<b>03</b>	<b>2300EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>04</b>	<b>2300EST</b>				

Several roads in the two county area were closed due to water from flooded creeks and streams.

**GAZ060-069-073>074-081>085-094>098-105>112**

**Putnam - Upson - Baldwin - Washington - Crawford - Bibb - Twiggs - Wilkinson - Johnson - Peach - Houston - Bleckley - Laurens - Treutlen - Dooly - Crisp - Pulaski - Wilcox - Dodge - Telfair - Wheeler - Montgomery**

<b>04</b>	<b>0000EST</b>	<b>0</b>	<b>0</b>	<b>400K</b>	<b>Flood</b>
<b>08</b>	<b>0000EST</b>				

Another in a series of "El Nino" influenced storm systems moved from the southwest U.S. into the Gulf of Mexico. The low pressure center tracked across southeast Georgia, then northeastward along the Atlantic seaboard. Rainfall amounts ranged from 2.5 to 4.5 inches over north and central Georgia from the 2nd to the 4th. With the ground nearly saturated from previous similar events, runoff caused widespread flooding over much of central Georgia, especially along and near the Oconee and Ocmulgee river basins. Some floodgates were opened at Lake Sinclair, which also contributed to the flooding. Rivers and creeks rose as much as 20 feet during the event, flooding homes and businesses near them. In Laurens county 11 school children had to be evacuated from a school bus that had stalled in standing water. No one was injured, but the bus floated away down the Oconee River. The river stage at Dublin rose to its highest level in 32 years, cresting at 30.5 feet.

**GAZ001>005-008>009-011>013-020-030>033-041>043-043>044-053**

**Dade - Walker - Catoosa - Whitfield - Murray - Union - Towns - Chattooga - Gordon - Pickens - Bartow - Polk - Paulding - Cobb - North Fulton - Haralson - Carroll - Douglas - South Fulton - Coweta**

<b>04</b>	<b>0100EST</b>	<b>0</b>	<b>0</b>		<b>Snow</b>
	<b>1500EST</b>				

By around 1 A.M. on the 4th, the rain began changing to snow in the northwest Georgia mountains. Between 4 A.M. and 8 A.M. the snow had spread southward into counties in the western Atlanta suburbs and eastward into the northeast Georgia mountains. It

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **GEORGIA, North and Central**

was occasionally mixed with sleet. Accumulations of snow and sleet were generally 1 to 2 inches, with locally higher amounts of 3 to 4 inches. Larger amounts were reported in the mountains. The snow ended or diminished to flurries in northwest Georgia by late morning, and in northeast Georgia by mid afternoon. . The main effect was more than a normal amount of traffic accidents. Schools were cancelled in several counties also.

### **GAZ006>007**

**Fannin - Gilmer**  
**04 0500EST**  
**1400EST**

**0      0                      Heavy Snow**

County 911 offices reported up to 6 inches of snow on the ground. The temperature was in the lower 30s. Snow covered roads made travel dangerous.

### **Cobb County Countywide**

**04 0500EST**  
**1100EST**

**0      0                      2K                      Flood**

### **De Kalb County Countywide**

**04 0500EST**  
**1100EST**

**0      0                      2K                      Flood**

### **Fulton County Countywide**

**04 0500EST**  
**1100EST**

**0      0                      2K                      Flood**

Minor to moderate flooding occurred as another batch of heavy rain moved across the area. Several roads were closed.

### **GAZ005>006**

**Murray - Fannin**  
**15 2200EST**  
**16 0700EST**

**0      0                      70K                      Strong Wind**

Surface winds associated with a tight pressure gradient blew at 20 to 30 mph with higher gusts over north Georgia and particularly in the Murray and Fannin county areas. The winds did considerable damage to a few buildings and trailers. Rain and a few thunderstorms added to the already saturated soil conditions. Trees were blown out of the wet ground. Power was lost due to downed power lines. Some 4000 residents were without power until 7 am.

### **Heard County Franklin**

**17 0545EST**

**0      0                      Hail (0.75)**

Dime size hail was reported by Heard county 911.

### **Carroll County Carrollton**

**17 0610EST**

**0      0                      Hail (0.75)**

Dime size hail was reported by Carroll county 911.

### **Polk County Rockmart**

**17 0625EST**

**0      0                      Hail (0.75)**

Dime size hail was reported by Polk county 911.

### **Cobb County Powder Spgs to Marietta**

**17 0730EST**  
**0745EST**

**0      0                      Hail (1.00)**

Serveral reports were received of dime to quarter size hail across Cobb county from Powder Springs to Marietta.

### **Troup County La Grange**

**17 0735EST**

**0      0                      Hail (0.88)**

A spotter reported nickel size hail.

### **Cobb County Marietta to 8 NE Marietta**

**17 0746EST**

**0      0                      Hail (1.00)**

Several reports of dime to quarter size hail were received. Hail covered the ground in some spots.

### **Coweta County Newnan**

**17 0750EST**

**0      0                      Hail (0.75)**

Three-quarter inch hail was reported at the intersection of highway 34 and I-85. Pea size hail covered the ground just east of this location.

### **Fulton County Union City to Alpharetta**

**17 0750EST**  
**0820EST**

**0      0                      Hail (0.75)**

Numerous reports of dime size hail were received from all across Fulton county.

### **Cherokee County Woodstock**

**17 0755EST**

**0      0                      Hail (0.88)**

The public reported dime to nickel size hail.



# Storm Data and Unusual Weather Phenomena

February 1998

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>GEORGIA, North and Central</u></b>									
<b>Gwinnett County</b>									
Norcross to Buford	17	0800EST 0825EST			0	0			Hail (0.88)
Several reports of dime to nickel size hail were received from the public from all around the county.									
<b>Fulton County</b>									
5 N Alpharetta	17	0803EST			0	0			Thunderstorm Wind (G76)
A thunderstorm wind gust to 88 mph was reported by the public using a wind speed indicator.									
<b>Clayton County</b>									
2 E Riverdale	17	0815EST			0	0	0.50K		Hail (0.75)
Dime size hail was reported to have damaged a car.									
<b>Fayette County</b>									
Peachtree City to 1 N Brooks	17	0815EST 0827EST			0	0			Hail (1.00)
Dime to quarter size hail was reported by the public. A tree was also blown down.									
<b>De Kalb County</b>									
Clarkston	17	0830EST			0	0			Hail (0.75)
<b>Gwinnett County</b>									
Suwanee to 2 E Dacula	17	0830EST			0	0			Hail (0.88)
Dime to nickel size hail was reported by the public.									
<b>Hall County</b>									
Flowery Branch to 5 E Gainesville	17	0830EST 0845EST			0	0			Hail (0.75)
Widespread dime size hail was reported by GEMA.									
<b>Lumpkin County</b>									
Dahlonega	17	0845EST			0	0			Hail (0.75)
<b>Barrow County</b>									
Auburn	17	0850EST 0900EST			0	0			Hail (0.75)
<b>Henry County</b>									
Stockbridge	17	0850EST			0	0			Hail (0.75)
<b>Jackson County</b>									
Braselton	17	0855EST			0	0			Hail (0.75)
<b>Rockdale County</b>									
Conyers to 5 SE Conyers	17	0855EST 0900EST			0	0			Hail (0.88)
The public reported dime to nickel size hail.									
<b>Banks County</b>									
Alto	17	0900EST 0915EST			0	0			Hail (0.75)
The public reported dime size hail covering the ground.									
<b>Rockdale County</b>									
Conyers to 5 S Conyers	17	0905EST			0	0			Hail (1.75)
The public reported quarter to golfball size hail. Winds were estimated at 50 mph. One tree was knocked down.									
<b>Newton County</b>									
8 SW Covington to Covington	17	0910EST 0922EST			0	0			Hail (0.88)
The public reported dime to nickel size hail.									
<b>Troup County</b>									
La Grange	26	2330EST			0	0	5K		Thunderstorm Wind
Severe thunderstorm winds blew out windows of a storefront and caused roof damage and other damage to the building.									

## **GEORGIA, Northeast**

<b>Elbert County</b>									
Countywide	03	1200EST 2000EST			0	0			Flood

# Storm Data and Unusual Weather Phenomena

February 1998

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

## GEORGIA, Northeast

### Franklin County

Countywide	03	1200EST 2000EST			0	0			Flood
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### GAZ018-026-028>029 Stephens - Franklin - Hart - Elbert

03	1200EST 1800EST			0	0	20K		High Wind (G50)
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### Habersham County

Countywide	03 04	1200EST 0300EST			0	0		Flood
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### Habersham County

Countywide	04	0700EST 1500EST			0	0		Flood
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### Hart County

Countywide	04	0700EST 1800EST			0	0		Flood
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### Franklin County

Countywide	04	0900EST 1500EST			0	0		Flood
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A strong, slow-moving winter storm moved from the Gulf of Mexico through southeastern Georgia and into the Carolinas on the 3rd and 4th. Heavy rain accompanying this storm contributed to many roads being flooded across Elbert, Habersham, and Franklin counties on the 3rd. Creeks and streams began to overflow their banks by the 4th, resulting in 10 roads closed in Hart county and additional road closures in Habersham and Franklin counties. The tight pressure gradient set up between strong high pressure in the upper Midwest and the passing strong low pressure, caused high gradient winds that blew down numerous trees and power lines from Stephens county to Elbert county. Numerous power outages occurred and roads were blocked into the early evening on the 3rd.

### Rabun County

2 E Clayton	17	0840EST			0	0		Thunderstorm Wind (G50)
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### Stephens County

Toccoa	17	0935EST			0	0		Hail (0.75)
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### Stephens County

Toccoa	17	0940EST			0	0		Thunderstorm Wind (G50)
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A few severe thunderstorms developed along a frontal boundary and ahead of a strong low pressure system in Tennessee. Straight line winds downed trees and large hail fell in Stephens county.

## GEORGIA, Southeast

### GAZ088-101-114 Screven - Effingham - Tattnall

01	0000EST			0	0			Flood
28	2359EST							

The Savannah River at Burton's Ferry (flood stage 15.0 ft) crested at 18.7 ft on the 11th and Clyo (flood stage 11.0 ft) crested at 17.8 ft on the 13th. The Ogeechee River crested at Midville (flood stage 6.0) at 10.2 ft on the 8th; crested at 11.5 ft at Scarborough (flood stage 8.0 ft) on the 9th; and at Eden (flood stage 9.0 ft) at 13.9 ft on the 13th. The Ochopee River crested at 20.1 ft on the 8th at Reidsville (flood stage 11.0 ft). All rivers were above flood stage the entire month except at Midville, which went below flood stage for a couple of days during the third week of the month. Considerable inconvenience was caused as water covered numerous yards and a couple of inches of water got into a few peoples' homes. Flooding was also reported in Chatham and McIntosh Counties along stretches of rivers where there were no official river gages.

### Mcintosh County

Cox to South Newport	16	2145EST 2210EST			0	0		Thunderstorm Wind (G50)
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Numerous trees down countywide

### Mcintosh County

2 W Darien to Darien	16	2210EST 2215EST			0	0		Hail (0.88)
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### Chatham County

Savannah	28	2225EST 2230EST			0	0		Hail (1.00)
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## GEORGIA, Southwest

### Thomas County

Metcalf	16	2050EST			0	0	5K	Lightning
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Lightning struck a mobile home igniting several small fires inside the home. An adjoining word porch was set ablaze as the current blasted a twelve-inch hole in the floor.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## GEORGIA, Southwest

### **Berrien County**

**Ray City**      **22**      **1300EST**                **0**      **0**      **10K**      **Lightning**  
 Lightning struck the main water pump servicing Ray City. Water service restored within 48 hours.

### **Thomas County**

**Thomasville**      **28**      **0010EST**  
    **0020EST**                **0**      **0**           **Hail (1.00)**  
 Thomas County Sheriff observed dime to quarter size hail.

### **Brooks County**

**Pavo**      **28**      **0102EST**  
    **0112EST**                **0**      **0**           **Hail (1.00)**  
 Numerous public reports of quarter size hail.

### **Ben Hill County**

**Fitzgerald**      **28**      **0105EST**                **0**      **0**           **Hail (1.00)**  
 Sheriffs office reported dime to quarter size hail covering the ground.

### **Dougherty County**

**Dougherty Co Arprt**      **28**      **0217EST**                **0**      **0**           **Hail (1.00)**  
 Ham radio report of quarter size hail near the Albany airport.

### **Dougherty County**

**Albany**      **28**      **0218EST**                **0**      **0**           **Hail (0.75)**  
 Ham radio report of dime size hail on east side of Albany.

### **Decatur County**

**Climax**      **28**      **0303EST**                **0**      **0**           **Hail (1.75)**  
 Decatur County 911 reported golfball size hail at Climax.

### **Grady County**

**Whigham**      **28**      **0310EST**                **0**      **0**           **Hail (0.75)**  
 Cairo SKYWARN spotter report of dime size hail two miles northwest of Whigham.

## GEORGIA, West Central

NONE REPORTED.

## HAWAII

### **HIZ002>005**

#### **Oahu - Maui - Island Of Hawaii - Molokai**

**01**      **0000HST**                **0**      **0**           **100K**      **Drought**  
**28**      **2359HST**

Below average precipitation occurred statewide in February, with all first order rain gauges, and all but one automated rain gauge, receiving less than average rainfall. Sixty-three of the 73 rain gauges in the state reported less than 50 percent of average for the month, while 57 received less than 25 percent of average. This continued the four to five month trend of drier than usual conditions for the entire state.

February weather patterns were dominated by a strong upper level zonal jet stream across the Pacific Ocean north of the islands and by multiple upper level ridges over and to the west of the state. These combinations of phenomena responsible for the rainfall shortage are indicative of the effects that El Nino has on weather in the state of Hawaii. February is normally one of the wetter months, and precipitation for the month is usually associated with synoptic scale weather systems or trade wind regimes. However, with the overall weather dominated by upper level ridging for much of February, few synoptic scale systems affected the island chain and trade winds were generally weak or nonexistent.

The following are rainfall statistics (in inches) for selected locations on Oahu, Maui, the Island of Hawaii, and Molokai for February 1998. For comparison, the average for the month and percent of average, respectively, are listed for each site in the next two columns. The following two columns represent the rainfall totals and the average rainfall totals for the three-month period December-February. The last column shows rainfall totals from February 1983, which was another El Nino-influenced time period.

	Feb. 98	Avg.	% Avg.	3 Month	Avg. for 3 Months	Feb. 83
Oahu						
Honolulu	0.21	2.2	10	1.42	9.6	0.06
Waianae	0.11	2.3	5	1.04	9.4	0.05
Hawaii Kai	0.17	3.2	5	3.07	11.9	N/A
Manoa						
Lyon A	2.48	10.2	24	21.29	37.7	1.29
Waialua	0.64	3.9	16	3.71	14.5	0.68
Ahuimanu						
(windward)	1.40	8.9	24	16.71	32.2	N/A

# Storm Data and Unusual Weather Phenomena

February 1998

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

## HAWAII

Maui									
	Kahului	0.49	2.9	17	2.60	10.2	0.07		
	Hana	0.47	6.8	8	5.13	22.4	1.01		
	Kihei	0.09	2.2	4	0.77	8.7	0.16		
	Lahainaluna	0.03	2.7	1	0.47	10.5	N/A		
	Wailuku	1.01	3.8	27	5.04	13.3	0.42		
Island Of Hawaii									
	Hilo	2.40	10.3	23	10.64	32.3	0.83		
	Pahala	0.07	6.1	1	1.15	19.2	0.17		
	Honaunau								
	(Captain Cook)	0.22	3.2	7	1.08	10.0	0.28		
	Kamuela	3.27	6.0	55	12.20	19.9	0.22		
	Laupahoehoe	3.08	13.2	23	10.06	41.5	4.00		
Molokai									
	Kaunakakai	0.44	2.6	17	2.38	8.9	3.25		

Water restrictions and conservation notices were posted on the Island of Hawaii and in Maui. Most of the Island of Hawaii's 33,000 water customers were asked to eliminate most outdoor uses of water such as washing cars and/or boats and watering lawns, and to limit agricultural use. Many residents in the Puna and South Hilo districts of the isle were asked to lower their water consumption by 25 percent. Residents of Upcountry Maui, from Haiku to Kanaio, were ordered to reduce their water use by 10 percent. More than 8000 homes and farms were affected by the order. Many people on the Island of Hawaii and in Maui who use rooftop catchment systems were running out of water completely.

So far, commercial flower growers on the Island of Hawaii have lost about \$100,000 in revenue because of the drought conditions. Hawaiian Commercial & Sugar Company on Maui, with the largest plantation in Hawaii and with 37,000 acres in production, has stopped planting about 500 acres in Haliimaile because of the lack of rainfall. Other farmers on Maui have also stopped planting on some of their land.

The drought conditions on the Island of Hawaii contributed to the severity of a brush fire that burned more than 2500 acres in the Hawaii Beaches Estate subdivision in the Puna district.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

01	0000HST	0	0	<b>High Surf</b>
02	0500HST			

Storm low far northwest of the Hawaiian Islands produced surf of 8 to 10 feet on west facing shores of all the islands.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

01	0000HST	0	0	<b>High Surf</b>
02	1600HST			

A storm low far northwest of the Hawaiian Islands generated surf of 12 to 18 feet along the north and northwest facing shores of the islands.

**HIZ004**

**Island Of Hawaii**

01	0400HST	0	0	<b>High Wind (G70)</b>
02	0200HST			

West winds of 60 to 80 mph occurred near the summits of Mauna Kea and Mauna Loa.

**HIZ004**

**Island Of Hawaii**

03	0500HST	0	0	<b>High Wind (G87)</b>
05	0800HST			

West to northwest winds of 80 to 100 mph occurred near the summits of Mauna Kea and Mauna Loa.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

04	2200HST	0	0	<b>High Surf</b>
07	0200HST			

Storm low far north of the Hawaiian Islands produced surf of 15 to 20 feet along north and northwest facing shores and 10 to 15 feet along west facing shores of all the islands.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

08	1200HST	0	0	<b>High Surf</b>
11	1100HST			

Storm low far northwest of the Hawaiian Islands produced surf of 8 to 12 feet along the north and northwest facing shores of the islands.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## HAWAII

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

12 0500HST  
15 1000HST

0      0

**High Surf**

Intense storm low far west of the Hawaiian Islands generated surf of 10 to 15 feet along west facing shores of the islands.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

12 0500HST  
17 0600HST

0      0

**High Surf**

Strong storm low far west of the Hawaiian Islands produced surf of 18 to 25 feet along the north and northwest facing shores of all the islands.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

20 0800HST  
22 0200HST

0      0

**High Surf**

Storm low far northwest of the Hawaiian Islands generated surf of 10 to 15 feet along the north and northwest facing shores of the islands.

**HIZ001>006**

**Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai**

26 0600HST  
1200HST

0      0

**High Surf**

Gale low northwest of the Hawaiian Islands generated surf of 8 to 12 feet along the north and northwest facing shores of all the islands.

## IDAHO, Extreme Southeast

NONE REPORTED.

## IDAHO, North

NONE REPORTED.

## IDAHO, Northwest

NONE REPORTED.

## IDAHO, Southeast

NONE REPORTED.

## IDAHO, Southwest

**IDZ015**

**Southwest Highlands**

11 0000MST  
1200MST

0      0

**Heavy Snow**

During the morning of February 11th, 7 inches of snow fell at Silver City and 4 inches at Delmar Mine in the Owyhee Mountains of southwest Idaho.

**IDZ018**

**Sawtooth Mountains**

14 1000MST  
1800MST

0      0

**Heavy Snow**

A winter storm struck the central mountains of Idaho with 3 to 6 inches of accumulation over the West Central Mountains and Boise Mountains. In the Salmon/Sawtooth Mountains, Ketchum Ranger Station reported an accumulation of 9 inches from this storm.

**IDZ021>023-025**

**Lower Snake River Plain - South Central Highlands - Caribou Highlands - Wasatch Mountains/Idaho**

**Portion**

15 0000MST  
16 0800MST

0      0

**Heavy Snow**

A winter storm system tracked across Utah during the 15th and 16th of February dumping heavy snow across much of south eastern Idaho. In the South Central Highlands 6 to 8 inches fell at Oakley and Almo, with 11 inches reported at Pomerelle ski resort. Interstate 84 between Burley and the Utah border was closed for a period. In the Lower Snake River Plain Pocatello measured 8 inches, with up to 14 inches reported from the highlands near the city. In the Caribou Highlands of south eastern Idaho Pebble Creek reported a total of 20 inches of snow with only 5 inches reported at Irwin.

**IDZ011-013-018>019**

**West Central Mountains - Boise Mountains - Sawtooth Mountains - Upper Snake Highlands**

21 0000MST  
2200MST

0      0

**Heavy Snow**

A winter storm struck the central mountains and eastern highlands on the 21st. In the Salmon/Sawtooth Mountains Ketchum reported 11 inches. In the West Central Mountains Donnelly and McCall reported 12 inches of snow. Remote weather stations in the Boise Mountains reported up to 8 inches of snow. In the Upper Snake Highlands Island Park reported 9 inches, with blowing snow reducing visibilities and forcing the closure of Interstate 15 for two hours.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## IDAHO, Southwest

**IDZ023**

**Caribou Highlands**

**24 0000MST  
0800MST**

**0 0**

**Heavy Snow**

During the night of February 24th 4 to 7 inches of snow fell across the Caribou Highlands. Malad reported 7 inches of accumulation.

## ILLINOIS, Central

**ILZ073**

**Lawrence**

**04 1700CST  
05 1100CST**

**0 0**

**Heavy Snow**

A strong low pressure system along the east coast caused precipitation in the form of snow to wrap back into Southeastern Illinois. Snowfall amounts of 3 to 5 inches were common across Lawrence County. No significant problems resulted because of the snow as temperatures hovered at or above the freezing mark.

**ILZ036-040>041-047**

**Fulton - Schuyler - Mason - Cass**

**15 0000CST  
26 1800CST**

**0 0**

**Flood**

Widespread rainfall amounts of 1.25 to 2.25 inches occurred across Central Illinois on February 10 and 12. This created subsequent rises on the Illinois River. The Illinois River from Havana to Beardstown rose above the flood stages by about 1 foot. Mainly low land flooding resulted immediately adjacent to the river with no damage reports noted.

**ILZ066-071**

**Effingham - Clay**

**18 0000CST  
21 1800CST**

**0 0**

**Flood**

Widespread heavy rainfall of 1 to 1.5 inches fell across Southeast Illinois on February 16 to 18. This was enough to create flooding on the Little Wabash River at Clay City. Only minor flooding resulted of low land areas adjacent to the river with no damage noted as river levels only crested about 2 feet above flood stage.

**ILZ036-040>041-047**

**Fulton - Schuyler - Mason - Cass**

**27 0000CST  
28 2359CST**

**0 0**

**Flood**

Another half to one inch rainfall across Central Illinois, falling on saturated grounds and already high Illinois River levels, created additional flooding on the Illinois River from Havana to Beardstown. Once again, only minor flooding of low lying areas adjacent to river occurred so far in February, but river levels were still rising at the end of the month with crests expected in March.

## ILLINOIS, Northeast

NONE REPORTED.

## ILLINOIS, Northwest

NONE REPORTED.

## ILLINOIS, South

**ILZ075>078-080>094**

**Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac**

**01 0100CST  
28 2300CST**

**0 0**

**Abnormal Warmth**

The month of February was one of the six warmest Februarys on record at both Paducah and Evansville. The mild temperatures provided area residents with unusual opportunities for outdoor recreation. Many trees and plants, including daffodils and forsythia, blossomed early. Unfortunately, the premature blossoms were vulnerable to late season cold snaps.

**ILZ078-083-087**

**Wabash - White - Gallatin**

**04 1600CST  
06 0600CST**

**0 0**

**Heavy Snow**

A major storm moving slowly north up the Atlantic coast combined with an east-west oriented trough over the Ohio Valley produced heavy snow. The western edge of the heavy snow shield extended into the lower Wabash River Valley, from Mt. Carmel to Carmi and Shawneetown. A storm total of 4 to 6 inches fell in these areas. Slippery road conditions contributed to a number of accidents, however no serious injuries or fatalities were reported.

**ILZ084**

**Jackson**

**19 0800CST  
24 1200CST**

**0 0**

**Flood**

Heavy rains during mid month sent the Big Muddy River above flood stage at Murphysboro for several days. The river crested about two feet above its 16-foot flood stage. This resulted in very minor flooding of low lying, mainly agricultural areas. No damage was reported.

## ILLINOIS, Southwest

NONE REPORTED.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## INDIANA, Central

**INZ057-061>065-067>072 Rush - Greene - Monroe - Brown - Bartholomew - Decatur - Knox - Daviess - Martin - Lawrence - Jackson - Jennings**

<b>04</b>	0700EST	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>07</b>	0700EST			

A strong and nearly stationary upper level low pressure area over the lower Ohio Valley, in combination with a strong and cold anticyclone over the upper Great Lakes resulted in a 3 day period of heavy snow across southern Indiana. Airflow from the Atlantic Ocean pushed west into the Ohio Valley yielding anywhere from 4 to 10 inches of snow north of the Ohio valley. Counties along the Ohio River in both Indiana, Kentucky and Ohio experienced record snowfall events for a single storm with amounts reaching from 18 to 24 inches.

## INDIANA, Northeast

NONE REPORTED.

## INDIANA, Northwest

NONE REPORTED.

## INDIANA, South Central

**INZ076>079-083>084-089>092 Orange - Washington - Scott - Jefferson - Dubois - Crawford - Perry - Harrison - Floyd - Clark**

<b>04</b>	0700EST	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>06</b>	0800EST			

A freak winter storm dumped 10 to 20 inches of snow across south central Indiana from around daybreak February 4 to the morning of February 6. Roads were slick and hazardous and in some spots impassable. Trees and power lines were also downed due to the weight of the wet snow. Floyd and Harrison counties were declared states of emergencies. The responsible storm system took a typical winter time path from the Gulf Coast and northeast along the Atlantic Coast. However, due to the strength of the system and its slow movement, enough deep layered moisture was pulled into the system from the Atlantic Ocean, that the moisture was able to negotiate the Appalachian Mountains bringing heavy snows much further west than typical "nor'easters." The system finally wended down during the day of February 6 as the responsible low pressure system lifted northeast further out to sea.

## INDIANA, Southeast

**INZ066-073>075-080 Franklin - Ripley - Dearborn - Ohio - Switzerland**

<b>04</b>	0800EST	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
<b>05</b>	2300EST			

A slow moving East coast storm brought significant moisture back into Southeastern Indiana. By the time the storm was over, from 6 to 16 inches of snow had fallen. Travel problems were widespread as the snow fell too fast at times for road crews to keep the roads clear.

## INDIANA, Southwest

**INZ081>082-085>088 Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer**

<b>01</b>	0100CST	<b>0</b>	<b>0</b>	<b>Abnormal Warmth</b>
<b>28</b>	2300CST			

The month of February averaged well above normal. At Evansville, this was the sixth warmest February on record. The mild temperatures provided area residents with unusual opportunities for outdoor recreation. Many trees and plants, such as forsythia and daffodils, blossomed early. Unfortunately, the premature blossoms were vulnerable to late season cold snaps.

**INZ081>082-085>088 Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer**

<b>04</b>	1300CST	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
<b>06</b>	0600CST			

One of the heaviest snowfalls in recent memory blanketed southwest Indiana with a total of 10 to 14 inches of snow. The snow fell in two distinct bursts. The first period of heavy snow from the afternoon of the 4th into the wee morning hours of the 5th produced 6 to 8 inches. Snowfall rates during the peak of this burst were 1 to 2 inches per hour. The most intense snowfall occurred during the late afternoon rush hour, which caused major traffic headaches. A motorist was killed in a two-car accident on the Lloyd Expressway around 4 P.M. on the 4th. Countless minor accidents occurred, which slowed traffic to a crawl. A tractor trailer rig overturned on Interstate 164, closing that highway for a couple of hours. Strong wind gusts around 30 MPH caused some problems with snow drifting across roads that had been cleared. Almost every school, college, and university was closed. Some businesses were closed, and many clubs and associations cancelled meetings. The second burst of snow began during the afternoon of the 5th and continued into the wee morning hours of the 6th. Although snowfall rates were not as intense as in the first round of heavy snow, an additional 4 to 5 inches of snow fell. This brought snowfall totals for the two-day period up to a foot across most of southwest Indiana. This storm total was enough to make this the sixth snowiest February on record at Evansville. Despite the heavy snow totals, relatively warm ground temperatures combined with air temperatures right near the melting point helped road crews clear the primary roads fairly easily. The long duration of the storm was the result of a prolonged easterly flow of moist air from the Atlantic Ocean. A nor'easter type of low pressure system moved slowly north along the Atlantic seaboard. Lots of moisture from this storm was drawn westward into the Ohio Valley by an east-west oriented upper level trough.

# Storm Data and Unusual Weather Phenomena

February 1998

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

### IOWA, Central

<b>IAZ006-016</b>		<b>Winnebago - Hancock</b>							
	<b>01</b>	<b>0400CST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Heavy Snow</b>
		<b>1200CST</b>							

Mild weather was in place across Iowa as February began. An upper level low pressure system swept out of the southwest U.S. and moved into the central states. The temperatures were marginal for snow. During the early morning hours of the 1st, a weak cold front sank south into Iowa. Enough cold air was drawn south to change rain that was falling over the state to a brief period of freezing rain before changing over to snow. Most areas did not receive much snow, with the southeast counties receiving none at all. A narrow band of heavier snow fall from west central Iowa into the north central counties. Most areas received 2 to 4 inches of snow in this band, however 6 inches fell at Forest City, in Winnebago County and at Britt in Hancock County. Travel was not hampered a great deal, however roads did become slick with some accidents reported.

### IOWA, East Central and Southeast

<b>IAZ051&gt;052-063&gt;064-078-088&gt;089-099</b>		<b>Benton - Linn - Iowa - Johnson - Louisa - Henry - Des Moines - Lee</b>							
	<b>28</b>	<b>1600CST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
		<b>2359CST</b>							

Snowfall of 1 to 3 inches and a rapid drop in temperatures resulted in trecherous driving conditions across eastern and southeastern Iowa. Numerous accidents were reported along with many minor injuries. In one city as many as 70 accidents were reported with at least 5 multi-vehicle accidents ranging from 3 to 14 vehicles.

### IOWA, Northeast

NONE REPORTED.

### IOWA, Northwest

NONE REPORTED.

### IOWA, Southwest

NONE REPORTED.

### KANSAS, East

NONE REPORTED.

### KANSAS, Extreme Southeast

NONE REPORTED.

### KANSAS, North Central

NONE REPORTED.

### KANSAS, Northeast

NONE REPORTED.

### KANSAS, Northwest

<b>KSZ002&gt;003-013&gt;015-027&gt;029</b>		<b>Rawlins - Decatur - Sherman - Thomas - Sheridan - Wallace - Logan - Gove</b>							
	<b>25</b>	<b>0600MST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>High Wind (G57)</b>
		<b>1800MST</b>							

High winds damaged roofs, buildings, trees. Gusts 60 to 70 mph were common.

<b>Cheyenne County</b>									
<b>Bird City Arpt</b>	<b>25</b>	<b>0820CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G57)</b>
									Gust to 65 mph recorded.

### KANSAS, Southeast

<b>Woodson County</b>									
<b>Toronto</b>	<b>25</b>	<b>1818CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
<b>Woodson County</b>									
<b>3 NW Vernon</b>	<b>25</b>	<b>1840CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>



# Storm Data and Unusual Weather Phenomena

February 1998

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

## KANSAS, Southwest

NONE REPORTED.

## KENTUCKY, Central

**KYZ023>024-  
026>043-045>049-  
053>057-061>067-  
070>078-081>082**

**Hancock - Breckinridge - Ohio - Grayson - Hardin - Bullitt - Jefferson - Oldham - Trimble - Henry - Shelby - Franklin - Scott - Harrison - Spencer - Anderson - Woodford - Fayette - Bourbon - Nicholas - Nelson - Washington - Mercer - Jessamine - Clark - Larue - Marion - Boyle - Garrard - Madison - Butler - Edmonson - Hart - Green - Taylor - Casey - Lincoln - Logan - Warren - Simpson - Allen - Barren - Monroe - Metcalfe - Adair - Russell - Cumberland - Clinton**

<b>03</b>	<b>1800EST</b>	<b>3</b>	<b>4</b>		<b>Heavy Snow</b>
<b>06</b>	<b>0800EST</b>				

A freak winter storm dumped as much as 25 inches of snow on parts of Kentucky from the evening of February 3 to the morning of February 6. Most of the Kentucky counties were declared states of emergency by the morning of February 5 as trees and power lines were down across a large area of the Louisville County Warning Area and roads became snow covered, slick, hazardous and in some remote places impassable. Over the three days, 3 people were killed and four injured across the Louisville CWA. One four year old boy was killed and 4 injured in a multi-car pileup on Interstate 65 in Louisville. A 71 year old man in Louisville was run crushed by his own truck as he and another man tried to free it from a snow drift. Also, a 35 year old man was killed in a traffic accident in Taylorsville. The storm system took a typical winter time path from the Gulf Coast and northeast along the Atlantic coast. However, due to the strength of the system and its slow movement, enough deep layered moisture was pulled into the system from the Atlantic Ocean, that the moisture was able to negotiate the Appalachian Mountains bringing heavy snows much further west than typical "nor'easters". The initial heavy snows started on the evening of February 3 in the southeast parts of the Louisville CWA and then spread north reaching the Louisville metropolitan area by shortly before sunrise on February 4. By 7 am est February 4, an area of 10 plus inch accumulations spread from Adair county northeast into Clark county and by 7 pm est, 10 plus accumulation totals stretched all the way to the Ohio River. By the afternoon of February 5, most of the heavy snow was confined to an area north of a Lexington to Louisville line. Snowfall depths as of the afternoon of February 6 ranged from 4 inches across southwest portions of the Louisville CWA (Cumberland, Logan, and Simpson counties) to as much as 25 inches at New Castle in Henry county. However, these numbers were lower than the actual snowfall amounts due to packing and some melting. 36 of the 49 counties in the Kentucky portion of the Louisville CWA had at least 10 total inches of snow on the ground at this time. Louisville had an all-time storm total snowfall of 22.4 inches eclipsing the old record (15.9 inches on January 16-17, 1994) by an astonishing 6.5 inches. From the evening of February 5 until daybreak February 6, parts of Oldham county had an addition 11 inches of new snow on the ground. Highest snowfall amounts were in the central and north parts of the state where anywhere from 12 to to near 30 inches of snow was reported over the entire period. Areas well to the southwest of Louisville generally ranged from 5 to 10 inches of total snow. The system finally wended down during the day Friday as the responsible low pressure system lifted northeast further out to sea. M4OT, M71OT, M35OT

**KYZ042>043-045**

**Bourbon - Nicholas - Nelson**

<b>12</b>	<b>0400EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>14</b>	<b>0500EST</b>				

Stoner Creek at Paris had minor flooding cresting at 19.2 feet (flood stage is 18 feet) at 6 pm est on January 12. The Rolling Fork of the Salt River crested at 36.0 feet (flood stage is 35 feet) at 6 pm est on January 13. This resulted in minor flooding with agricultural bottomland under water. Finally, the Licking River at Blue Lick Springs crested at 26.3 feet (flood stage is 25 feet) at 445 pm est on January 12 resulting in minor agricultural bottomland flooding.

## KENTUCKY, Eastern

**KYZ044-050>052-  
058>060-068>069-  
079>080-083>088-104-  
106>120**

**Fleming - Montgomery - Bath - Rowan - Estill - Powell - Menifee - Rockcastle - Jackson - Pulaski - Laurel - Wayne - McCreary - Whitley - Knox - Bell - Harlan - Elliott - Morgan - Johnson - Wolfe - Magoffin - Floyd - Lee - Breathitt - Knott - Owsley - Perry - Clay - Leslie - Letcher - Martin - Pike**

<b>03</b>	<b>1800EST</b>	<b>2</b>	<b>1</b>	<b>10M</b>	<b>0</b>	<b>Heavy Snow</b>
<b>06</b>	<b>1100EST</b>					

A major snowstorm affected eastern Kentucky from the evening of February 3 into the morning of February 6. Snowfall totals for the storm ranged from around 4 inches in valley locations near the Virginia border to as much as 2 feet in areas from Whitley City to Flemingsburg.

The greatest snowfalls during the storm occurred in two distinct periods. The first round of heavy snow, which affected nearly all of eastern Kentucky, began during the evening of February 3, and extended into February 4. Heavy snow tapered off during the night of February 4-5, but redeveloped again during the afternoon of February 5 and extended into the early morning of February 6. This second round of heavy snow mainly affected the northern half of eastern Kentucky.

The first round of heavy snow resulted in a general 10 to 18 inches in areas along and west of a line from Williamsburg to Morehead, with amounts decreasing to around 4 inches in valley locations near the Virginia border. The second round of heavy snow brought 4 inches or more to areas generally along and north of a line from Irvine to Phelps. The second round of heavy snow resulted in as much as 10 inches in areas from Frenchburg to near Flemingsburg. The first round of heavy snow was extremely wet, with snow to water ratios around 6 to 1. The snow to water ratio was about 10 to 1 during the second round of heavy snow.

# Storm Data and Unusual Weather Phenomena

February 1998

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

In most areas the greatest snow depths occurred on February 6. Some snow depths reported on February 6: Wallingford 25 inches; Frenchburg 24 inches; Stearns 23 inches; Mt. Sterling 22 inches; Owingsville 20 inches; London 19 inches; Campton 16 inches; Flemingsburg, Stanton, and Mt Vernon -15 inches; Morehead, Monticello, Sandy Hook, and McKee - 14 inches; Somerset 12 inches; Irvine, West Liberty, and NWSO Jackson -11 inches; Williamsburg, Manchester, Salyersville, and Booneville - 10 inches; Beattyville and Inez - 8 inches; Paintsville 7 inches; Prestonsburg 6 inches; Raccoon and Majestic - 5 inches; Hindman, Barbourville, Hyden and Skyline- 4 inches.

At NWSO Jackson 17.6 inches of snow fell from February 3 to February 6, with the maximum depth of 11 inches occurring on February 6. The greatest 24 hour amount recorded at NWSO Jackson during the storm was 9.7 inches from February 3 to February 4.

Because of the extremely wet nature of the snow, damage from this storm was extensive. The most widespread damage occurred in a swath of the Daniel Boone National Forest from Whitley City to Frenchburg. Power outages were widespread as falling trees brought down power lines and poles. Power outages affected 100% of the electric customers in many counties. As many as 9000 customers were still without power on February 9, and some areas were without power for 2 weeks. Numerous roads were blocked by trees, and bulldozers had to be used to reach people who were stranded. There were numerous buildings which collapsed under the weight of the snow, including trailer homes, houses, barns, and commercial buildings. One industrial building near Monticello sustained \$1.5 million in damage when the roof collapsed, and machinery and stock were damaged.

Many people remained in unheated homes during the extended power outages. A woman in McCreary County died in her home as a result of a hypothermia induced heart attack, and a man in Wolfe County died from hypothermia in his home. One man in McCreary County was injured when a carport collapsed on him. F75PH, M55MH

### **Harlan County**

<b>Harlan</b>	<b>17</b>	<b>1049EST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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Trees were downed in the Harlan area along U.S. Route 421, and Kentucky Routes 522 and 987.

### **Letcher County**

<b>Whitesburg</b>	<b>17</b>	<b>1115EST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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Trees were downed at numerous locations in the county.

### **Breathitt County**

<b>5 NE Jackson</b>	<b>17</b>	<b>1138EST</b>		<b>0</b>	<b>0</b>	<b>3K</b>	<b>0</b>	<b>Thunderstorm Wind (G50)</b>
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A hanger at the Julian Carroll Airport was damaged.

### **Wolfe County**

<b>Hazel Green</b>	<b>17</b>	<b>1150EST</b>		<b>0</b>	<b>0</b>	<b>20K</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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A barn was destroyed.

### **Magoffin County**

<b>2 NE Salyersville</b>	<b>17</b>	<b>1200EST</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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Trees were downed on Route 40 northeast of Salyersville.

### **Lee County**

<b>Primrose</b>	<b>17</b>	<b>1200EST</b>		<b>0</b>	<b>0</b>	<b>20K</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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Trees were downed, and a barn was destroyed.

### **Floyd County**

<b>Prestonsburg</b>	<b>17</b>	<b>1200EST</b>		<b>0</b>	<b>0</b>	<b>15K</b>	<b>0</b>	<b>Thunderstorm Wind</b>
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In Prestonsburg a large commercial sign was damaged. Just outside of town several mobile homes sustained roof damage, and in the Cliff community the roof was blown off a storage building.

## KENTUCKY, Northeast

### **KYZ101>103-105**

<b>Greenup - Carter - Boyd - Lawrence</b>								
	<b>03</b>	<b>2100EST</b>		<b>0</b>	<b>0</b>	<b>900K</b>		<b>Heavy Snow</b>
	<b>06</b>	<b>0800EST</b>						

A slow moving coastal storm and a prolong period of easterly wind aloft, gave northeast Kentucky several periods of snow and sleet. The end result was widespread snow depths of over one foot. No snow was on the ground prior to the storm. Maximum snow depths on the 6th were Olive Hill of Carter County with 18 inches, Warnock of Greenup County 16 to 18 inches, Grayson of Carter County 15 to 17 inches, South Shore of Greenup County 16 inches, Louisa of Lawrence County 14 inches. Ashland of Boyd County had less snow, with 8 inches on the ground.

Many large tree branches fell, causing power outages. The most destructive period of heavy wet snow was from 2200 EST on the 3rd to around 0900 EST on the 4th. During that period, 5 to 10 inches of snow fell. Another significant period of snow occurred late on the 5th to near dawn on the 6th.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## KENTUCKY, Northeast

Debris removal from the 4 counties was estimated at \$20,000 by state officials. A roof to a small grocery store in Olive Hill collapsed under the weight of the snow. A large storage building in Coalton of western Boyd County also caved in. One indirect death was an elderly man that died while shovelling snow off his mobile home roof in Wurtland of Greenup County.

### **Lawrence County**

#### **Blaine**

	<b>17</b>	<b>1245EST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind</b>
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Wind gusts were estimated at 60 mph.

### **Boyd County**

#### **Ashland**

	<b>17</b>	<b>1340EST</b>		<b>0</b>	<b>0</b>	<b>5K</b>	<b>Thunderstorm Wind</b>
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Trees fell across power lines.

## KENTUCKY, Northern

### **KYZ089>100**

**Carroll - Gallatin - Boone - Kenton - Campbell - Owen - Grant - Pendleton - Bracken - Robertson - Mason - Lewis**

	<b>03</b>	<b>2200EST</b>		<b>0</b>	<b>0</b>		<b>Winter Storm</b>
	<b>06</b>	<b>0500EST</b>					

A slow-moving East coast storm brought significant moisture west of the Appalachians and by the time it was finished, had dumped 15 to 30 inches of snow across Northern Kentucky. The Cincinnati-Northern Kentucky airport in Boone county received 18.5 inches, which was a new record total for a single storm. Numerous traffic accidents occurred as the snow fell too fast for road crews to keep the roads clear.

## KENTUCKY, Southwest

### **KYZ001>022**

**Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd**

	<b>01</b>	<b>0100CST</b>		<b>0</b>	<b>0</b>		<b>Abnormal Warmth</b>
	<b>28</b>	<b>2300CST</b>					

The month of February averaged about 7 degrees above normal at Paducah, making it the fourth warmest February on record there. This provided area residents with unusual opportunities for outdoor recreation. The mild temperatures caused many trees and plants to blossom early, including creeping phlox, daffodils, and forsythia. The premature buds were vulnerable to late season cold snaps.

### **KYZ009>010-012>022**

**Calloway - Crittenden - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd**

	<b>04</b>	<b>1200CST</b>		<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>06</b>	<b>0600CST</b>					

A storm moving slowly northward up the Atlantic coast combined with an east/west oriented trough over the Ohio Valley produced heavy snow over parts of west Kentucky. The heavy snow was confined to areas east of Kentucky Lake, including Hopkinsville and Owensboro. Snowfall totals were generally in the 4 to 10 inch range. Specific amounts included 4 inches at Hopkinsville and Princeton, 6 inches at Calhoun, 9 inches at Madisonville, and 10 inches at Henderson, Owensboro, and Central City. During this first major winter storm of 1998, a traffic fatality occurred. One man was killed in a single vehicle accident about 6 miles north of Hopkinsville around 2 P.M. on the 4th. Many schools dismissed early on the 4th and remained closed on the 5th and 6th. A combination of relatively warm ground temperatures and air temperatures near the melting point made snow removal unusually easy for road crews. Even so, rapid snowfall rates during the height of the storm made roads treacherous, and many accidents occurred. Portions of U.S. 41 were closed near Madisonville when several accidents blocked traffic. Kentucky State Police were swamped with reports of vehicles off of roads.

### **KYZ005**

#### **Mccracken**

	<b>11</b>	<b>0700CST</b>		<b>0</b>	<b>0</b>	<b>10K</b>	<b>High Wind (G50)</b>
		<b>1600CST</b>					

An intense low pressure system over southeast Missouri during the early morning hours moved northeast across the Ohio Valley. This storm system produced strong gusty winds across the region. Although most gusts were in the 40 to 50 MPH range, one report of damage was received near Paducah. A funeral home under construction near Lone Oak collapsed around noon.

### **KYZ017**

#### **Christian**

	<b>26</b>	<b>1920CST</b>		<b>0</b>	<b>0</b>	<b>5K</b>	<b>High Wind (G50)</b>
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A deepening low pressure center near St. Louis was responsible for strong gusty winds across the region. An isolated case of wind damage occurred near Hopkinsville, where a gas grill was blown off a deck, a tree fell on a utility pole, and storm doors were bent in.

## LOUISIANA, Northeast

### **Catahoula Parish**

#### **Enterprise**

	<b>10</b>	<b>1620CST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind</b>
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Several trees and power lines were blown down.

# Storm Data and Unusual Weather Phenomena

February 1998

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>Richland Parish</b> Rayville	10	1625CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
<b>Franklin Parish</b> Winnsboro	10	1640CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
<b>Morehouse Parish</b> Bastrop	10	1640CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
<b>Morehouse Parish</b> Mer Rouge	10	1640CST			0	0	150K		Thunderstorm Wind (G61)
									At least twenty houses had roof damage. Three mobile homes were destroyed and two others were blown off their foundations. Numerous trees were blown down.
<b>Concordia Parish</b> Ferriday	10	1645CST			0	0	4K		Thunderstorm Wind
									Numerous trees were blown down throughout the parish.
<b>Madison Parish</b> Tallulah	10	1645CST			0	0	2K		Thunderstorm Wind
									Several trees and power lines were blown down.
<b>Tensas Parish</b> Somerset	10	1650CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
<b>Concordia Parish</b> Clayton	10	1705CST			0	0	5K		Thunderstorm Wind
									Numerous trees were blown down.
<b>Catahoula Parish</b> Archie	26	0930CST			0	2	25K		Thunderstorm Wind
									Two mobile homes were overturned. Two injuries occurred in one of the mobile homes. Many trees were blown down.
<b>Catahoula Parish</b> Jonesville	26	0930CST			0	0	30K		Thunderstorm Wind
									A rodeo arena was destroyed. A church was blown off of its foundation. An eighteen-wheeler was blown 150 feet off the highway.
<b>Concordia Parish</b> Ferriday	26	1000CST			0	0	50K		Thunderstorm Wind
									The roof of a bowling alley was completely blown off.
<b>Concordia Parish</b> St Genevieve	26	1000CST			0	0	25K		Thunderstorm Wind
									The roofs of several houses were blown off. Many houses had shingles blown off of the roofs. Numerous trees were blown down.
<b>Tensas Parish</b> St Joseph	26	1030CST			0	0	50K		Thunderstorm Wind
									Many houses had roof damage. Three farm sheds were destroyed. Numerous trees and power lines were blown down throughout the county.
<b>Madison Parish</b> Tallulah Arpt	26	1046CST			0	0			Thunderstorm Wind (G53)
									The damage in northeast Louisiana was caused by a very intense bow echo which had moved across much of south Louisiana earlier in the morning. Widespread damage occurred all along this line of intense storm. The line/bow echo moved across the Mississippi River and cause more damage in Mississippi.
<b><u>LOUISIANA, Northwest</u></b>									
<b>Caddo Parish</b> Hosston	09	2235CST			0	0			Hail (0.75)
<b>Sabine Parish</b> 1 N Converse	10	1430CST			0	0	5M		Thunderstorm Wind (G100)
									Numerous trees and powerlines were blown down in and around town. State highway 175 looked like a roadside timber harvest with pines and hardwoods littering ditches. The roof was blown off the High School where students were having classes but no injuries occurred. In addition, several mobile homes were damaged by fallen trees and high winds.
<b>Natchitoches Parish</b> 9 NW Natchitoches	10	1500CST			0	0	3M		Thunderstorm Wind (G100)
									Numerous trees and powerlines were felled across the area. At one point, power companies said electricity was off to the entire

# Storm Data and Unusual Weather Phenomena

February 1998

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

## LOUISIANA, Northwest

parish. Natchitoches suffered a total blackout affecting about 26,000 customers. Wind gusts overturned one tractor-trailer and blew two others off Interstate-49. Damage to houses, businesses and vehicles were widespread.

### Red River Parish 2 W Coushatta

<b>10</b>	<b>1505CST</b>			<b>0</b>	<b>0</b>	<b>6M</b>	<b>Thunderstorm Wind (G100)</b>
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Almost every highway and road in the area was blocked by fallen trees and powerlines. Pine, hickory and oak trees, some over 200 years old toppled onto residences, yards and fences. Powerlines were knocked down and virtually every house and business was without power for two or more days. Over 600 residences suffered various kinds of damage. The Red Cross and local power companies were called in to distribute nearly 30,000 pounds of dry ice and over 1500 five gallon bottles of distilled water.

### De Soto Parish 5 E Mansfield

<b>10</b>	<b>1515CST</b>			<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (G70)</b>
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### De Soto Parish 5 E Mansfield

<b>10</b>	<b>1515CST</b>			<b>0</b>	<b>3</b>	<b>4M</b>	<b>Thunderstorm Wind (G90)</b>
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A multitude of downed trees and powerlines left the area without electricity for more than 12 hours. Electrical companies estimate that nearly 60,000 people in the region were without power. There were three injuries reported, no seriously, coming from drivers hitting downed trees with their vehicles. Numerous signs were bent and twisted, portable signs were blown down the road, a vacant mobile home was overturned and every street and neighbourhood was littered with limbs and uprooted trees. Scores of residents reported damaged roofs and flattened cars. The local Red Cross was called in to provide food and water. Nineteen homes without insurance suffered major damage.

### Bienville Parish Ringgold

<b>10</b>	<b>1520CST</b>			<b>0</b>	<b>2</b>	<b>1M</b>	<b>Thunderstorm Wind (G70)</b>
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Numerous reports of trees and powerlines were felled. School buses were trapped on the highways during the storm when the roads were blocked from fallen trees. There were two injuries when a tree fell across a pickup truck on La Hwy 151. The men were transported to a local hospital and only one appeared to have serious injuries. Damage to several homes and mobile homes were also reported.

### Grant Parish 7 N Colfax

<b>10</b>	<b>1530CST</b>			<b>0</b>	<b>0</b>	<b>30K</b>	<b>Thunderstorm Wind (G65)</b>
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Numerous trees and powerlines fell across the area. A roof was blown off the Georgetown High School.

### Grant Parish Colfax

<b>10</b>	<b>1530CST</b>			<b>0</b>	<b>1</b>		<b>Lightning</b>
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A woman mail carrier on Colfax's Route 3 was struck by lightning while on her route. She was closing a mail box off Hwy 8 when lightning struck the ground, ran up the mailbox post and into her fingers. The jolt then travelled down her arm exiting her elbow which was resting on the door of her car and grounded out her vehicle. At the time she remembers hearing a load explosion like a firecracker and being thrown across the seat of her vehicle. She was sent to a local hospital where she received treatment to her arm for severe burns.

### Winn Parish Winnfield

<b>10</b>	<b>1530CST</b>			<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (G60)</b>
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Numerous trees and powerlines were toppled across the community leading to power outages.

### LAZ002>004-012

#### Bossier - Webster - Claiborne - Bienville

<b>10</b>	<b>1545CST</b>			<b>1</b>	<b>0</b>	<b>230K</b>	<b>High Wind (G100)</b>
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Damaging winds associated with a wake high pressure area caused minor tree and power damage. Damage was mainly to the eastern half of the Parish. Hwy 537, Hwy 2, and Hwy 157 were blocked by trees..  
M42PH

### Lincoln Parish 5 N Ruston

<b>10</b>	<b>1550CST</b>			<b>0</b>	<b>0</b>	<b>400K</b>	<b>Thunderstorm Wind (G70)</b>
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Thunderstorm winds toppled numerous trees and powerlines. Forty nine roads were closed from fallen trees. A 34 year old cooling tower collapsed at the city electric generating plant. Six vehicles ran into downed trees but no injuries were reported.

### LAZ003

#### Webster

<b>10</b>	<b>1555CST</b>			<b>0</b>	<b>0</b>		<b>High Wind (G60)</b>
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Strong gradient winds associated with a low pressure system toppled numerous trees and power lines 5 north of Minden.

### Jackson Parish Quitman

<b>10</b>	<b>1555CST</b>			<b>0</b>	<b>2</b>	<b>200K</b>	<b>Thunderstorm Wind (G70)</b>
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Numerous reports of trees and powerlines down. Some homes were damaged by fallen trees and one mobile home was rolled by the high winds with 2 people inside. Two children ages 12 and 4 were inside. The mobile home was said to be secured to the ground.

### Claiborne Parish Homer

<b>10</b>	<b>1600CST</b>			<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (G55)</b>
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Trees and powerlines fell producing numerous power outages.

### Caldwell Parish 8 N Columbia

<b>10</b>	<b>1605CST</b>			<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (G60)</b>
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# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>LOUISIANA, Northwest</b>									
<b>Caldwell Parish</b>									
Grayson	10	1605CST			0	0			Thunderstorm Wind (G60)
<b>La Salle Parish</b>									
8 W Jena	10	1610CST			0	0			Thunderstorm Wind (G60)
									Trees and powerlines were felled across Hwy 8 and Hwy 165.
<b>Union Parish</b>									
Bernice	10	1615CST			0	0	250K		Thunderstorm Wind (G70)
									Numerous roads were closed from fallen trees and up to 10,000 residents were left without power. Several structures sustained minor damage.
<b>Ouachita Parish</b>									
Monroe	10	1617CST			0	0	100K		Thunderstorm Wind (G70)
									Numerous trees and powerlines were felled with about 29,000 homes without power. The roof was blown off the Howard Griffin and three vehicles suffered minor damage.
<b>Caddo Parish</b>									
Mooringsport	19	1800CST			0	0			Hail (1.00)
<b>Caddo Parish</b>									
Shreveport	19	1805CST			0	0			Hail (0.75)
<b>Caddo Parish</b>									
Shreveport	19	1807CST			0	0	120K		Hail (1.50)
									Numerous vehicles suffered hail damage in southwest Shreveport.
<b>Caddo Parish</b>									
Shreveport	19	1807CST			0	0			Hail (1.50)
<b>Caddo Parish</b>									
Shreveport	19	1807CST			0	0			Hail (1.75)
<b>Caddo Parish</b>									
Shreveport	19	1810CST			0	0			Hail (1.75)
<b>Caddo Parish</b>									
Shreveport	19	1815CST			1	0			Lightning
									A man was struck by lightning and killed instantly as he rode his bicycle in the 2700 block of Alkay Drive. M39OU
<b>De Soto Parish</b>									
Pelican	19	1815CST			0	0			Hail (1.00)
<b>Bossier Parish</b>									
5 S Bossier City	19	1843CST			0	0			Hail (0.75)
<b>Bienville Parish</b>									
Ringgold	19	1905CST			0	0			Hail (1.75)
<b>Webster Parish</b>									
Doyline	19	1908CST			0	0			Hail (1.75)
<b>Natchitoches Parish</b>									
Clarence	19	1920CST			0	0			Hail (0.88)
<b>Caddo Parish</b>									
Vivian	26	0213CST			0	0			Thunderstorm Wind (G60)
<b>De Soto Parish</b>									
Mansfield	26	0220CST			0	0			Thunderstorm Wind (G60)
<b>Caddo Parish</b>									
Keithville	26	0230CST			0	0			Thunderstorm Wind (G60)
<b>Bossier Parish</b>									
(Bad)Barksdale Afb	26	0231CST			0	0			Thunderstorm Wind (G50)
<b>Bossier Parish</b>									
Haughton	26	0235CST			0	0	100K		Thunderstorm Wind (G70)
									Numerous trees and powerlines were felled. An area about a half mile wide by 3 miles long was suffered major damage. A roof was ripped off a local business and a radio station lost its transmitter.
<b>Webster Parish</b>									
Minden	26	0255CST			0	0			Thunderstorm Wind (G60)
<b>Sabine Parish</b>									
8 SW Many	26	0305CST			0	0			Thunderstorm Wind (G60)

# Storm Data and Unusual Weather Phenomena

February 1998

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, Northwest</u></b>									
<b>Red River Parish</b>									
Loggy Bayou	26	0314CST			0	0			Thunderstorm Wind (G60)
<b>Claiborne Parish</b>									
5 SE Homer	26	0315CST			0	0			Thunderstorm Wind (G60)
<b>Red River Parish</b>									
6 N Coushatta	26	0316CST			0	0			Thunderstorm Wind (G60)
<b>La Salle Parish</b>									
Jena	26	0910CST			0	0			Hail (0.75)
<b>La Salle Parish</b>									
Jena	26	0922CST			0	0			Hail (0.75)
<b><u>LOUISIANA, Southeast</u></b>									
<b>St. Bernard Parish</b>									
Delacroix to Yscloskey	02	0900CST 1800CST			0	0			Storm Surge
A low pressure system moving across the northern Gulf of Mexico caused strong east and northeast winds of 20 to 30 mph across southeast Louisiana. The strong winds resulted in tides 1 to 2 feet above normal along portions of the southeast Louisiana coast with minor coastal flooding outside of the hurricane protection levee systems. The St. Bernard Parish Office of Emergency Preparedness reported 6 inches of water over Louisiana State Highway 624.									
<b>Iberville Parish</b>									
Maringouin to Rosedale	10	1600CST 1606CST			0	0	0.50K		Thunderstorm Wind
Parish emergency management reported several large trees were blown down and five utility poles were downed.									
<b>Iberville Parish</b>									
Sunshine	10	1600CST			0	0	0.50K		Thunderstorm Wind
Several trees were knocked down on Bayou Paul Lane.									
<b>Tangipahoa Parish</b>									
Amite to Ponchatoula	10	1715CST 1730CST			0	0	1.5K		Thunderstorm Wind
A line of severe thunderstorms moved east across the parish from Amite to Pumpkin Center parish and damaged a utility shed by blowing it against a neighboring house. Trees were blown down in the communities of Ponchatoula, Hammond, Amite and Tickfaw.									
<b>Livingston Parish</b>									
Albany to Springfield	10	1715CST			0	0	0.40K		Thunderstorm Wind
Several trees were reported blown down									
<b>Pointe Coupee Parish</b>									
Livonia	10	1715CST			0	0	0.60K		Thunderstorm Wind
Trees and power lines were downed by thunderstorm wind gusts.									
<b>West Feliciana Parish</b>									
St Francisville	10	1715CST			0	0	20K		Thunderstorm Wind
Parish emergency management official reported a roof was blown off a building in St. Francisville, and trees were blown down in several areas of the parish.									
<b>East Baton Rouge Parish</b>									
Baton Rouge to Baker	10	1728CST 1730CST			0	0	25K		Thunderstorm Wind
A large commercial sign was blown down and pea to marble size hail covered the ground. A 48 knot wind gust was recorded at the Baton Rouge airport. The public works department reported 15 trees blown down in the parish. In Baker, the roof of a mausoleum sustained roof damage.									
<b>Iberville Parish</b>									
Plaquemine	10	1745CST			0	0	3K		Thunderstorm Wind
Utility poles and trees were downed, transformer destroyed and a shed roof blown off.									
<b>Iberville Parish</b>									
St Gabriel	10	1830CST			0	0	0.30K		Thunderstorm Wind
The parish emergency management agency reported several trees downed by thunderstorm wind gusts.									
<b>Iberville Parish</b>									
Maringouin to Grosse Tete	10	1830CST			0	0	0.20K		Thunderstorm Wind
Three trees were reported blown down.									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>LOUISIANA, Southeast</b>									
<b>East Feliciana Parish</b>									
Jackson	10	1915CST			0	0	0.50K		Thunderstorm Wind
									Several trees were blown down.
<b>St. Helena Parish</b>									
Greensburg	10	1930CST			0	0	0.30K		Thunderstorm Wind
									The Office of Emergency Management reported two trees blown down.
<b>Ascension Parish</b>									
Donaldsonville	10	2020CST			0	0	5K		Thunderstorm Wind
									Parish emergency management officials reported that thunderstorm wind gusts blew down a tree and damaged the roof of a mobile home.
<b>Orleans Parish</b>									
New Orleans	10	2133CST			0	0			Thunderstorm Wind (G50)
									A television station meteorologist reported a wind gust to 58 mph.
<b>St. Tammany Parish</b>									
Mandeville	10	2145CST			0	0			Thunderstorm Wind (G53)
									A 53 knot wind gust was recorded on the Causeway Bridge at the northshore of Lake Pontchartrain.
<b>Jefferson Parish</b>									
Grand Isle	15	1000CST 1800CST			0	0			Storm Surge
<b>Lafourche Parish</b>									
Leeville to Port Fourchon	15	1000CST 1800CST			0	0			Storm Surge
<b>Orleans Parish</b>									
Chef Menteur to Ft Pike	15	1400CST 2000CST			0	0			Storm Surge
<b>Plaquemines Parish</b>									
Bohemia	15	1400CST 2000CST			0	0			Storm Surge
<b>St. Bernard Parish</b>									
Delacroix to Yscloskey	15	1400CST 2000CST			0	0			Storm Surge
									A low pressure system in the northern Gulf of Mexico intensified in strength on February 15 before moving inland over extreme southeast Louisiana and south Mississippi during the late afternoon and evening hours. Sustained winds of 25 to 35 mph were common across southeast Louisiana during the day with wind gusts of 40 to 50 mph being reported during the afternoon and early evening. The sustained gusty winds caused a few tree limbs to break. A few power outages occurred when broken limbs landed on power lines. Tides were 2 to 3 feet above normal along the open coast with a few areas around Lake Pontchartrain and Lake Borgne reporting tides levels 4 to 5 feet above normal. The high water resulted in coastal flooding of low lying roadways in several areas of southeast Louisiana outside of the hurricane protection levee system. In the coastal waters, a barge being pushed by a tug boat struck an oil platform south of Bootheville resulting in injuries to eight people. In Lake Pontchartrain, strong winds also pushed two barges into a bridge over the Industrial Canal resulting in minor damage.
<b>Livingston Parish</b>									
Denham Spgs	15	1930CST			0	0	15K		Thunderstorm Wind
									A house sustained considerable damage when a tree fell on it.
<b>Lafourche Parish</b>									
Port Fourchon	22	0420CST			0	0	50K		Thunderstorm Wind
									A line of severe thunderstorms produced damaging wind gusts. A large barge and approximately 12 shrimp trawlers were torn loose from their anchors tangling nets and booms. A mobile home was knocked over by thunderstorm wind gusts and another pushed off its blocks.
<b>Jefferson Parish</b>									
Grand Isle	22	0420CST			0	0	50K		Thunderstorm Wind (G70)
									A line of severe thundestorms produced damaging wind gusts when it moved through Grand Isle. An automated weather station on the east end of Grand Isle recorded a wind gust of 70 knots or 81 mph. Roofs were blown off several houses by the strong wind gusts.
<b>Plaquemines Parish</b>									
Venice	22	0431CST			0	0			Thunderstorm Wind (G50)
									A wind gust of 58 mph was recorded at a heliport in Venice.
<b>Pointe Coupee Parish</b>									
Innis	26	0950CST			0	0	0.30K		Thunderstorm Wind



# Storm Data and Unusual Weather Phenomena

February 1998

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

## LOUISIANA, Southeast

The Sheriff's Office reported two trees downed in Innis and numerous trees elsewhere causing power outages parish wide.

### **East Baton Rouge Parish**

<b>Zachary</b>	<b>26</b>	<b>1020CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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The public reported dime size hail.

## LOUISIANA, Southwest

### **Beauregard Parish**

<b>5 N Merryville</b>	<b>10</b>	<b>1440CST</b>			<b>0</b>	<b>0</b>	<b>30K</b>		<b>Thunderstorm Wind</b>
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Severe thunderstorms blew down several trees in the Junction area around Highway 111 to 464. Minor structural damage was reported to several homes, mostly lost shingles or a tree blown down on the roof.

### **Vernon Parish**

<b>Leesville</b>	<b>10</b>	<b>1450CST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Thunderstorm Wind</b>
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Numerous trees were blown down across Vernon Parish, especially in the Leesville area. Several homes in Leesville had trees fall on them. Numerous roads were blocked for several hours by fallen trees.

### **Calcasieu Parish**

<b>Moss Bluff</b>	<b>10</b>	<b>1450CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### **Cameron Parish**

<b>Hackberry</b>	<b>10</b>	<b>1500CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Trees were blown down on the north side of town.

### **Vernon Parish**

<b>Ft Polk</b>	<b>10</b>	<b>1503CST</b>			<b>0</b>	<b>0</b>	<b>200K</b>		<b>Thunderstorm Wind (G61)</b>
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The telephone exchange building was damaged, as well as two barracks at Fort Polk due to the severe thunderstorm winds. At least 50 vehicles received damage from falling trees.

### **Calcasieu Parish**

<b>Sulphur</b>	<b>10</b>	<b>1520CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Several trees were blown down in Sulphur due to a severe thunderstorm.

### **Calcasieu Parish**

<b>Vinton</b>	<b>10</b>	<b>1530CST</b>			<b>0</b>	<b>1</b>	<b>75K</b>		<b>Thunderstorm Wind</b>
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One mobile home was destroyed, another rolled over, and a third one had the roof blown off. One girl was injured when her mirror fell and hit her neck and head. She was treated at a local hospital and released.

### **Allen Parish**

<b>Mittie</b>	<b>10</b>	<b>1530CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Several trees were blown down.

### **Rapides Parish**

<b>Pineville</b>	<b>10</b>	<b>1545CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
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### **Rapides Parish**

<b>Alexandria</b>	<b>10</b>	<b>1615CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Trees were blown down between Alexandria and LeCompte.

### **Calcasieu Parish**

<b>Lake Charles</b>	<b>10</b>	<b>1615CST</b>			<b>0</b>	<b>0</b>	<b>80K</b>		<b>Thunderstorm Wind</b>
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At the Southgate Shopping Mall, a large sign was blown down on top of several parked vehicles. A utility pole was also snapped.

### **Cameron Parish**

<b>8 W Holly Beach</b>	<b>10</b>	<b>1620CST</b>			<b>0</b>	<b>0</b>	<b>60K</b>		<b>Thunderstorm Wind</b>
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Three camps at Constance Beach were damaged. One camp was completely flattened, and another was knocked off its pilings.

### **Allen Parish**

<b>Oberlin</b>	<b>10</b>	<b>1630CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Trees were blown down.

### **Jefferson Davis Parish**

<b>Raymond</b>	<b>10</b>	<b>1630CST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Thunderstorm Wind</b>
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Trees and power lines were blown down in Raymond, blocking LA 395 north of LA 102.

### **Evangeline Parish**

<b>5 NE Turkey Creek</b>	<b>10</b>	<b>1630CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Trees were blown down near Long Pine.

### **Cameron Parish**

<b>Grand Chenier</b>	<b>10</b>	<b>1645CST</b>			<b>0</b>	<b>0</b>	<b>225K</b>		<b>Thunderstorm Wind</b>
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Five mobile homes were destroyed, one permanent home was damaged, and eight telephone poles were blown down in a severe thunderstorm.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>LOUISIANA, Southwest</b>									
<b>Avoyelles Parish</b> Marksville	10	1700CST			0	0	25K		<b>Thunderstorm Wind</b>
									Trees were blown down between Marksville and Bunkie. Several of them landed on roofs, damaging them at a trailer park near Bunkie.
<b>Vermilion Parish</b> Kaplan	10	1720CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees and power lines were blown down.
<b>St. Landry Parish</b> Washington	10	1730CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees and power lines were blown down.
<b>Lafayette Parish</b> Lafayette	10	1730CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees were blown down across the city.
<b>Acadia Parish</b> Rayne	10	1730CST			0	4	100K		<b>Thunderstorm Wind</b>
									Ten mobile homes were overturned south of Rayne. Four people received minor injuries.
<b>Acadia Parish</b> Mire	10	1800CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees were blown down around Mire, Crowley, and Rayne.
<b>St. Landry Parish</b> Port Barre	10	1800CST			0	0	20K		<b>Thunderstorm Wind</b>
									Trees were blown down from Port Barre to Palmetto.
<b>Iberia Parish</b> New Iberia	10	1830CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees and power lines were blown down.
<b>St. Martin Parish</b> Breux Bridge	10	1830CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees and power lines were blown down.
<b>Vermilion Parish</b> Erath	10	1830CST			0	0	10K		<b>Thunderstorm Wind</b>
									Trees and power lines were blown down.
<b>St. Mary Parish</b> Morgan City	10	1930CST			0	0	5K		<b>Thunderstorm Wind (G65)</b>
									Coast Guard Station recorded 75 mph. One of their radio antennas were snapped off.
<b>Vernon Parish</b> Leesville	19	1513CST			0	0			<b>Hail (0.75)</b>
<b>Vernon Parish</b> Pitkin	19	1630CST			0	0			<b>Hail (0.75)</b>
<b>Rapides Parish</b> Glenmora	19	1645CST			0	0			<b>Hail (0.75)</b>
<b>Evangeline Parish</b> Pine Prairie	19	1755CST			0	2	20K		<b>Hail (0.75)</b>
									Local residents commented they had never seen so much hail in their life. Hail was at least a couple of inches deep, making it look like it snowed. Area roadways were hazardous until the hail melted. A single car accident was directly attributed to the icy roads. Two people were slightly injured in the accident.
<b>Cameron Parish</b> 75 SE Cameron	22	0250CST			0	0	750K		<b>Thunderstorm Wind</b>
									On several offshore oil rigs, two helicopters were blown off the platforms into the water, and another one was tipped over. Winds were estimated at 112 mph. No injuries were reported.
<b>Cameron Parish</b> 25 SW Cameron	26	0730CST			0	0	10K		<b>Thunderstorm Wind</b>
									On an offshore oil rig, winds blew in excess of 100 mph, damaging a fiberglass storage shelter.
<b>Cameron Parish</b> 2 W Hackberry	26	0758CST			0	0	25K		<b>Thunderstorm Wind</b>
									A door was blown off a residence, and many trees were blown down across the Parish. At Boone's Cornder, trees were down on Highway 385. A barn was destroyed on Highway 27 S.
<b>Calcasieu Parish</b> Lake Charles	26	0807CST			0	0	30K		<b>Thunderstorm Wind</b>

# Storm Data and Unusual Weather Phenomena

February 1998

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

Numerous trees were blown down on Lake Street, and the garden center at Wal-Mart on Highway 14 was damaged. One telephone pole was blown down, and a roof of a mobile home was damaged.

### Calcasieu Parish

Lake Charles

26	0815CST								
				0	0				<b>Hail (0.75)</b>

### Jefferson Davis Parish

Fenton

26	0825CST								
				0	0	250K			<b>Thunderstorm Wind</b>

Across northern Jeff Davis Parish, damage occurred in a line from Fenton to Elton. In Fenton, one permanent home was completely destroyed, and another five homes were severely damaged. In the countryside between Fenton and Elton, a few homes received moderate to severe damage in the form of lost roofs and sometimes a caved in wall. Numerous trees and power lines were blown down. Large power poles designed to withstand hurricane force winds were completely knocked down.

### Jefferson Davis Parish

3 W Lacassine

26	0830CST								
				0	3	200K			<b>Thunderstorm Wind</b>

Three mobile homes and three barns were completely destroyed on Pousson Road, half way between Lacassine and Iowa. Five homes had roof damage. Several power poles were bent. At least two vehicles were completely destroyed. Winds were estimated to be between 80 and 100 mph. An elderly couple was injured when they tried to escape their mobile home and debris hit them. A teenage boy was injured when the mobile home he was in rolled over. Debris from the mobile homes was pushed over one mile into the rice fields nearby.

### Rapides Parish

Alexandria

26	0834CST								
				0	5	100K			<b>Thunderstorm Wind</b>

Numerous trees and power lines were blown down across the Alexandria area. Two vehicles had trees land on them, slightly injuring five people. At least two homes were damaged from trees falling on them.

### Jefferson Davis Parish

Lacassine

26	0845CST								
				0	3	300K			<b>Thunderstorm Wind</b>

One mobile home was destroyed, twenty homes received roof damage, numerous trees and power lines were blown down, blocking roads, and a rice dryer was severely damaged in the town of Lacassine. On Interstate 10, three tractor trailer trucks were blown off the road, slightly injuring the drivers.

Across Jeff Davis Parish, damage was evident. A couple of miles north of Roanoke, two power poles were snapped, and several homes had roof damage.

South of Elton, three homes were damaged, and at least two to three miles worth of power poles were snapped.

Parish-wide statistics: 80 homes and businesses were damaged or destroyed. The worst hit areas were Pousson Road between Lacassine and Iowa, Hathaway, Fenton, and Welsh.

### Evangeline Parish

Ville Platte

26	0856CST								
				0	2	2M			<b>Thunderstorm Wind</b>

Winds clocked at 77 mph roared through Ville Platte, uprooting trees, and damaging the roofs of over 50 homes and businesses.

In Mamou, major damage occurred to a rice dryer, and several power poles were snapped. Several people were trapped in cars due to debris covering area roadways. An 18-wheeler was flipped over, slightly injuring the driver, and a local gas station had its pumps damaged.

Near Reddell, many trees were uprooted. One mobile home was rolled over, destroying it. Several other homes had roof damage. Miles of power poles were snapped due to the high winds.

In Duralde, a lady was slightly injured (concussion) when her mobile home was rolled over.

### Evangeline Parish

St Landry

26	0908CST	8	20						
				0	0	1M			<b>Tornado (F1)</b>

An F1 tornado touched down in Chicot State Park, and moved northeast across the Park towards St. Landry. A park ranger's residence was damaged, and three vehicles had trees fall on them. At least one hundred trees were downed in the park, which was closed for nearly a week to cleanup the debris.

In St. Landry it severely damaged a CLECO power plant, and damaged up to 150 homes and businesses in town.

### St. Landry Parish

Washington

26	0914CST								
				0	0	150K			<b>Thunderstorm Wind</b>

Many trees were blown down in Washington.

Also, damage occurred in western sections of the parish. Near Basile, one mobile home was destroyed, a carport was blown down, and numerous trees were uprooted. Near Eunice, over five miles of power poles were downed, and two barns were destroyed.

# Storm Data and Unusual Weather Phenomena

February 1998

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

### **Acadia Parish**

2 N Iota

26 0915CST 0 3 20K **Thunderstorm Wind**  
Three people were injured when their mobile home was blown off it's blocks.

### **Avoyelles Parish**

Moreauville

26 0920CST 0 2 200K **Thunderstorm Wind**  
In the Moreauville/Cottonport area, several homes had their roofs damaged, and a mobile home was destroyed. Numerous garages and sheds were damaged, some used by the lumber industry in storing wood. Two tractor trailer trucks were blown off Highway 71 in southwestern Avoyelles Parish, resulting in minor injuries to the drivers.

## MAINE

**MEZ003>004-  
007>008-010-014-  
018>019-021**

**Northern Somerset - Northern Piscataquis - Northern Oxford - Northern Franklin - Southern Piscataquis - Southern Somerset - Interior York - Interior Cumberland - Kennebec**

18 0500EST 0 0 **Moderate Snowfall**  
1900EST

**MEZ009-012>013-020**

**Central Somerset - Southern Oxford - Southern Franklin - Androscoggin**

18 0600EST 0 0 **Heavy Snow**  
1900EST

A large low pressure area in the Ohio Valley and a developing low off the New England Coast combined to bring moderate to heavy snow to the state. Snowfall amounts ranged from less than an inch along the coast, in downeast Maine, and in northern Maine to more than ten inches in central Somerset County. Generally, however, snowfall amounts ranged from 4 to 8 inches in the mountains and foothills of western Maine.

**MEZ020-024**

**Androscoggin - Coastal Cumberland**

18 1100EST 0 0 **Urban/Street Flooding**  
1700EST

One to three inches of rain along coastal Maine caused minor street flooding in Portland and Auburn.

**MEZ006-011-017**

**Southeast Aroostook - Central Penobscot - Interior Washington**

19 0100EST 0 0 300K **Ice Storm**  
1800EST

A large low pressure area in the Ohio Valley and a developing low off the New England Coast brought rain and freezing rain to parts of Eastern Maine. The greatest accretions of freezing rain occurred in elevated areas of southeastern Aroostook, central Penobscot, and northern Washington Counties. About 6700 homes in rural areas lost power during the storm; some remained without power for up to 5 days.

**MEZ001-003>004-009**

**Northwest Aroostook - Northern Somerset - Northern Piscataquis - Central Somerset**

24 1100EST 0 0 **Moderate Snowfall**  
25 1100EST

**MEZ007>008**

**Northern Oxford - Northern Franklin**

24 1100EST 0 0 **Heavy Snow**  
25 1100EST

A deep low pressure center that developed off the southeast coast of the United States on Monday, the 23rd, moved slowly northeastward to off the New England coast by Wednesday bringing a mixture of precipitation to the state. In the western mountains, as much as a foot of new snow fell. In the remainder of northwestern Maine, snowfall amounts were generally 4 to 7 inches. Elsewhere, the mixed precipitation changed quickly to rain and little, if any, accumulation was reported.

## MARYLAND, Central

**MDZ002>003**

**Allegany - Washington**

04 0600EST 0 0 5K **Winter Storm**  
05 1800EST

A powerful nor'easter, laden with deep moisture from the Gulf of Mexico and the Caribbean, produced a prolonged period of mixed snow, sleet, freezing rain, and rain across northwestern Maryland. As had been the case with previous events, snow totals varied greatly with elevation. For example, barely an inch of snow fell in Hagerstown (MDZ003) before precipitation changed to rain. However, immediately west, between 3 and 5 inches fell from Clear Spring to Hancock. Accumulation increased dramatically with elevation in Allegany Co. In the Cumberland area, 6 to 8 inches fell, but accumulations increased to 12 inches in Frostburg with an estimated 16 to 20 inches along nearby ridge tops.

### **Calvert County**

Countywide

04 0800EST 0 0 30K **Flood**  
05 1400EST

### **Charles County**

Countywide

04 0800EST 0 0 25K **Flood**  
05 1400EST

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>MARYLAND, Central</b>									
<b>MDZ004&gt;007- 009&gt;011-013&gt;014- 016&gt;018</b>	<b>Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert</b>								
	<b>04</b>	<b>0800EST</b>			<b>0</b>	<b>0</b>	<b>145K</b>	<b>200K</b>	<b>Gusty Winds</b>
		<b>2000EST</b>							
<b>MDZ014-016&gt;018</b>	<b>Anne Arundel - Charles - St. Mary'S - Calvert</b>								
	<b>04</b>	<b>0800EST</b>			<b>0</b>	<b>0</b>	<b>650K</b>		<b>Coastal Flooding</b>
	<b>05</b>	<b>1400EST</b>							
<b>St. Mary'S County Countywide</b>	<b>04</b>	<b>0800EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Flood</b>
	<b>05</b>	<b>1400EST</b>							
<b>Anne Arundel County Countywide</b>	<b>04</b>	<b>1000EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Flood</b>
	<b>05</b>	<b>1400EST</b>							
<b>Prince George'S County Countywide</b>	<b>04</b>	<b>1000EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Flood</b>
	<b>05</b>	<b>1400EST</b>							
<b>Washington County East Portion</b>	<b>04</b>	<b>1400EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Flood</b>
	<b>05</b>	<b>1400EST</b>							

A powerful nor'easter, carrying copious moisture from the Gulf of Mexico and Caribbean region, dumped between 2 and 4 inches of rain across much of Maryland between the foothills and the Chesapeake Bay. Highest totals, ranging from 3 to 5 inches, fell in lower southern Maryland, causing widespread flooding of low lying areas and small streams and creeks. The nor'easter, coming on the heels of one just a week earlier, caused tides of 3 to 4 feet above normal from the Calvert Co/Anne Arundel Co line south to Point Lookout in extreme southeastern St Mary's Co; and along the lower tidal Potomac River along the Charles and St Mary's shoreline, including Cobb Island and St George Island. A daily rainfall record was broken at Baltimore/Washington International Airport (BWI); the 1.65 inches that fell on the 4th broke the 78 year-old Baltimore area mark of 1.48 inches.

Flooding was most pronounced in St Mary's Co. During the peak of the storm, 26 roads were closed due the combination of wind and rain. Nine roads were closed due to flooding alone. State thoroughfares affected included routes 5, 237, 238, 243, and 271.

Evacuations were initiated in Great Mills and on St George Island due to rapid increases in tide levels. At least 200 residents were evacuated, including one 3 year-old boy who required a water rescue. Four fire fighters were treated for hypothermia at St Mary's hospital. Some cars were nearly submerged in low-lying areas. In the Golden Beach neighborhood, Lake White overspilled its banks, and poor drainage contributed to the misery. The dam at St Mary's Lake held; overflow problems were minimal.

The sewage system serving Lexington Park failed due to the abnormally heavy flow of water which caused manholes to flood. For example, the treatment plant, which normally has a flow of 3.5 million gallons in a two-day period, had a flow of nearly six times that much (18 million gallons) on the 4th and 5th. Schools closed at noon on the 4th and didn't reopen until the 6th.

Other minor sewage backups were reported farther north in Frederick and Carroll Cos.

Inland flooding was less extensive in Charles and Calvert Cos, but a problem nonetheless. In Charles Co, 25 roads were closed at the peak of the flooding; numerous vehicles were reportedly stranded throughout the county. Hydrologic observers recorded up to 4 1/2 inches of rain. Coastal flooding forced evacuations of Cobb Island; the island was cutoff from the mainland at around 0700EST on the 5th, with conditions returning to normal by 1600EST.

Other coastal flooding affected Calvert Co, from Solomons Point to North Beach. The moderate flooding extended into extreme southern Anne Arundel Co just north of North Beach. Local officials in North Beach noted that up to one-half of the beach was pushed southward by the pounding waves; an outfall was trapped open by the action of the shifting sand, causing Bay water to inundate local roads and some establishments. The degree of erosion was greater than that associated with the remnants of hurricane Fran in 1996.

Minor flooding affected the Annapolis City Dock (MDZ014), but sandbags protected most establishments. Around 1 foot of water covered the dock area.

Other flooding across the state closed seven roads in Anne Arundel Co. Across Washington Co, especially in and near Hagerstown, early snow quickly changed to heavy rain. Minor flooding closed at least a dozen secondary and tertiary roads, and numerous basements were flooded. Only minor flooding was observed in the remaining counties east of the mountains.

The heavy rains may have contributed to an automobile accident in Westminster (Carroll Co) where three persons were killed in the

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MARYLAND, Central

two vehicles involved.

The storm was accompanied by gusty winds, especially over and east of the piedmont. In general, sustained winds averaged 25 to 35 mph, except 30 to 40 mph along the coastal plain. Wind gusts likely exceeded 50 mph along the coastal plain, especially on the immediate shoreline of the Bay and tidal Potomac River. Dozens of trees fell, many onto local roadways. In Charles Co alone, eighty trees and large limbs were reported down, thirty on Cobb Island. Other road closures in St Mary's, Calvert, Anne Arundel, and southeastern Prince George's Co were due to fallen trees or limbs. The combination of BG&E, PEPCO, and SMECO reported nearly 15,000 customers without power at the height of the storm. Four thousand customers were affected in St Mary's, 5000 in Anne Arundel, 1793 in Calvert, and 1550 in southeastern Prince George's and Charles Cos. Two homes in the Severna Park (MDZ014) area received minor structural damage from fallen trees. In Montgomery Co, a new football scoreboard was blown down at a Germantown high school. A tractor-trailer flipped over along interstate 70 in western Frederick Co (MDZ004) near the Myersville exit (S.R. 17).

**MDZ005>007-  
009>011-013>014**

**Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel**

<b>17</b>	<b>1300EST 1700EST</b>	<b>0</b>	<b>0</b>	<b>25K</b>	<b>Gusty Winds</b>
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The gradient between developing low pressure over the southeast U.S. and departing strong high pressure over New England produced east winds which increased to 25 to 35 mph with frequent gusts to 45 mph during the afternoon. The winds produced scattered tree and power line damage, causing an estimated 5000 customers in the Baltimore/Washington metropolitan region to be without electricity. An individual feeder line in northeastern Howard Co (MDZ010) was struck by a tree, knocking out power to an additional 10,000 customers. No substantial property damage was reported.

**Charles County  
La Plata**

<b>17</b>	<b>2310EST</b>	<b>0</b>	<b>0</b>		<b>Hail (1.00)</b>
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A line of strong to severe thunderstorms moved through lower southern Maryland in association with the passage of a warm front followed by an occluded front. Nickel to quarter sized hail fell just north of La Plata.

**MDZ002**

**Allegany**

<b>23</b>	<b>1500EST</b>	<b>0</b>	<b>0</b>		<b>Snow</b>
<b>24</b>	<b>0400EST</b>				

Low pressure over the southeast U.S. combined with just enough cold air along and just east of the Appalachian Mountains to produce light to moderate snow across Allegany Co during the afternoon and overnight hours spanning the 23rd and 24th. As with previous events, elevation made a large difference in total accumulation. For example, while nearly 4 inches fell at Sideling Hill just west of Hancock, only 1 to 3 inches fell in Barton, LaVale, and Cumberland. Highest totals (4 inches or more) fell in Frostburg and nearby higher terrain.

**MDZ004**

**Frederick**

<b>24</b>	<b>0700EST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>High Wind</b>
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Channelling high winds slammed into west central Frederick Co along Jefferson Pike, causing substantial damage to an established home. Damage included half a roof ripped off of a 20 by 40 foot garage; concrete blocks were zipped off of one garage wall. Siding was stripped from one wall of the house; two parked automobiles sustained minor damage from wind-driven debris.

**MDZ002>007-  
009>011-013>014-  
016>018**

**Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

<b>24</b>	<b>1200EST 1700EST</b>	<b>0</b>	<b>1</b>	<b>70K</b>	<b>Gusty Winds</b>
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An intensifying storm off the middle Atlantic coast produced sustained northwest winds of 25 to 32 mph with frequent gusts in excess of 40 mph over all of Maryland west of the Bay during the afternoon. Winds gradually diminished after sunset; a combination of the departing storm and the loss of daytime heating. There was one instance of substantial property damage. In Owings Mills (MDZ006), an unfinished townhouse collapsed as the walls were being constructed. One worker suffered facial abrasions; he had just walked out of the building but was briefly trapped underneath fallen walls. Another carpenter escaped unharmed. Scattered tree, limb, and power line damage likely occurred as well.

## MARYLAND, Northeast

**Caroline County  
Countywide**

<b>04</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
<b>05</b>	<b>0100EST</b>				

**Talbot County  
Countywide**

<b>04</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
<b>05</b>	<b>0100EST</b>				

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **MARYLAND, Northeast**

<b>MDZ019&gt;020</b>	<b>Talbot - Caroline</b>								
	<b>04</b>	<b>1100EST</b>			<b>0</b>	<b>0</b>			<b>Tidal Flooding</b>
	<b>06</b>	<b>1800EST</b>							
<b>MDZ019&gt;020</b>	<b>Talbot - Caroline</b>								
	<b>04</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind</b>
	<b>05</b>	<b>1500EST</b>							

The strongest northeaster of the winter brought heavy rain, damaging winds and minor tidal flooding to the southern half of the Maryland Eastern Shore. The strongest winds occurred during the afternoon and evening of the 4th, although gustiness continued through midday on the 5th. The heaviest rain occurred also at about the same time as lighter rain persisted well into the 5th. The combination of the strong winds and heavy rain made it easier for the trees to be knocked down because of the loose ground. Minor tidal flooding started during the afternoon high tide on the 4th and persisted in some areas through the 6th. The combination of the heavy rain, strong winds and higher than normal tides caused the worst problems the afternoon of the 4th with several road closures in each county.

In Talbot County, flooding was reported along low lying areas of Neavitt, Oxford, Saint Michaels and Unionville during the afternoon of the 4th. Roadway flooding was also reported in Trappe. A few roads were closed and minor outages were reported because of the downed trees. In Caroline County, along tidal sections of the Choptank River, a couple of roads were closed on the 5th. Minor small stream flooding was reported in Greensboro and Preston. The Marshyhope River also overflowed its banks and caused some minor flooding on hiking and bike trails in Federalsburg. The heavy rain and high winds contributed to the collapse of a warehouse in Federalsburg. About a dozen trees were knocked down by the high winds from around 3 p.m. EST on the 4th into the early morning hours of the 5th. Storm precipitation totals included 2.5 inches in Federalsburg. The heavy rain might have also damaged the 275,000 acres of winter wheat planted across the lower Eastern Shore, especially if precipitation continues above normal for the rest of the winter.

<b>MDZ008-012-015</b>	<b>Cecil - Kent - Queen Annes</b>								
	<b>04</b>	<b>1400EST</b>			<b>0</b>	<b>0</b>			<b>Wind</b>
	<b>05</b>	<b>1500EST</b>							
<b>MDZ012-015</b>	<b>Kent - Queen Annes</b>								
	<b>05</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>			<b>Tidal Flooding</b>
	<b>06</b>	<b>1800EST</b>							

The strongest northeaster of the winter for coastal areas brought strong winds and caused some minor tidal flooding along the northern parts of the Maryland Eastern Shore. The strongest winds occurred from the afternoon of the 4th through the midday hours on the 5th with most peak gusts between 40 and 50 mph. Minor tidal flooding occurred on the 5th and 6th, with the worst conditions reported the afternoon of the 5th.

In Queen Anne's County wide loads, empty box trailers, and recreational vehicles were prohibited from passing the William Preston Junior Memorial Bridge. Minor tidal flooding occurred and warning signs were posted on 15 roadways on Kent Island, Kent Narrows and Grasonville including Maryland State Route 18 in both Grasonville and Queenstown. Minor tidal flooding continued through the 6th in the Kent Narrows. The strong winds also knocked down a few weak trees. In Kent County, minor tidal flooding was reported in Rock Hall, Cliffs City and McKinleyville. Signs were posted on roads. A few trees were knocked down, but no power outages were reported. In Cecil County, the only reported damage was a pool that was crushed by a falling tree in Fair Hill. The tree also slightly damaged the pool owner's roof.

<b>Caroline County</b> Countywide	23	1300EST 2300EST			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
<b>Cecil County</b> Countywide	23	1300EST 2300EST			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
<b>Kent County</b> Countywide	23	1300EST 2300EST			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
<b>Queen Anne'S County</b> Countywide	23	1300EST 2300EST			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
<b>Talbot County</b> Countywide	23	1300EST 2300EST			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>

Another northeaster brought heavy rain and strong winds to the Maryland Eastern Shore on the 23rd and 24th. Rain overspread the

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MARYLAND, Northeast

Eastern Shore the morning of the 23rd and became heavy during the afternoon and early evening. While rain lingered well into the 24th, it was not as heavy. Storm totals included 2.40 inches in Federalsburg (Caroline County), 2.23 inches in Royal Oak (Talbot County), 1.96 inches in Conowingo (Cecil County) and 1.64 inches in Salisbury (Wicomico County). The heavy rain caused some poor drainage flooding and kept farm fields saturated. The counterclockwise circulation around the northeaster produced wind gusts as strong as 40 to 45 mph during the afternoon and evening of the 23rd. No serious damage or injuries were reported.

The northeaster responsible for this wet weather was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach, South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

**MDZ008-012-015-019>020**

### **Cecil - Kent - Queen Annes - Talbot - Caroline**

<b>25</b>	<b>0600EST 1800EST</b>	<b>0</b>	<b>0</b>			<b>Wind</b>
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Strong northwest winds around the intense northeaster that brought the heavy rain to the Delmarva Peninsula on the 23rd, buffeted the region during the daylight hours on the 25th. Peak wind gusts reached between 40 and 50 mph in most areas and tore down tree limbs. No serious damage or injuries were reported.

**MDZ008-012-015-019>020**

### **Cecil - Kent - Queen Annes - Talbot - Caroline**

<b>28</b>	<b>2359EST</b>	<b>0</b>	<b>0</b>			<b>Unseasonably Warm</b>
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Continuing a trend that lasted the whole winter, February 1998 was unseasonably warm across the Delmarva Peninsula and ranked within the ten warmest Februaries on record. It was also an unseasonably wet month, especially across the lower half of the peninsula in Queen Anne's, Talbot and Caroline Counties.

## MARYLAND, South

### **Dorchester County**

<b>Cambridge</b>	<b>04 06</b>	<b>0000EST 1200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
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### **Somerset County**

<b>Princess Anne</b>	<b>04 06</b>	<b>0000EST 1200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
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### **Wicomico County**

<b>Salisbury</b>	<b>04 06</b>	<b>0000EST 1200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
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### **Worcester County**

<b>Ocean City</b>	<b>04 06</b>	<b>0000EST 1200EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
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A Nor'easter produced heavy rain and strong winds across the Lower Maryland Eastern Shore from Tuesday, February 3rd through Thursday, February 5th. Rainfall totals generally ranged from 2 to 4 inches. Heavy rain caused some urban flood/poor drainage flood problems with a few roads closed due to high water.

**MDZ024>025**

### **Inland Worcester - Maryland Beaches**

<b>04 06</b>	<b>0000EST 1200EST</b>	<b>0</b>	<b>0</b>	<b>1.5M</b>		<b>Coastal Flooding</b>
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A Nor'easter battered the Lower Maryland Eastern Shore from Tuesday, February 3rd through Thursday, February 5th. The slow movement of the storm resulted in an extended period of gale to storm force onshore winds which drove tides to an estimated 8.5 feet above MLLW at Ocean City. These tide levels resulted in moderate to severe coastal flooding throughout the Lower Maryland Eastern Shore. The south end of Ocean City, from 15th street to the inlet, received significant street flooding and flooding of homes. Significant beach erosion occurred in Ocean City, with major dune and beach damage experienced in Assateague Island. In addition, there were widely scattered power outages.

**MDZ024**

### **Inland Worcester**

<b>04</b>	<b>1640EST</b>	<b>0</b>	<b>0</b>	<b>15K</b>		<b>High Wind</b>
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High winds associated with a nor'easter blew the roof off a car dealership in Berlin.

## MARYLAND, West

**MDZ001**

### **Garrett**

<b>04 05</b>	<b>0000EST 0200EST</b>	<b>0</b>	<b>0</b>			<b>Winter Storm</b>
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Eight to fourteen inches of snow was reported across the county. The highest amount reported was in the extreme northeast part of the county; 20 inches fell at Finzel. The snow was mixed with sleet at times.

An intensifying low pressure system of the Florida panhandle moved slowly up the Atlantic Coast to the North Carolina Coast. This storm system spread a mix of heavy snow and sleet into western Maryland.



# Storm Data and Unusual Weather Phenomena

February 1998

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

## MARYLAND, West

**MDZ001**

**Garrett**

**17 1015EST  
1700EST**

**0 0 4K**

**High Wind**

A few trees, large limbs and power lines were downed by high winds throughout the county. Strong east to southeast winds, in advance of an intensifying storm system moving northeast up the Ohio Valley, caused some wind damage. Much of the damage was confined to the foothills and ridges of the Allegheny Plateau.

**MDZ001**

**Garrett**

**23 1200EST  
24 0600EST**

**0 0**

**Heavy Snow**

Six to eight inches of snow fell across the county. A low pressure system across the southeast United States moved up the coast to Virginia late on the 23rd. The system rapidly intensified and spread heavy snow into western Maryland.

## MASSACHUSETTS, Central and East

**MAZ019>024**

**Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket**

**04 2300EST  
05 1800EST**

**0 0**

**Strong Winds**

A strong storm system passing offshore to the southeast of Cape Cod caused strong northeast winds over coastal sections of Plymouth County and over Cape Cod and the Islands. In addition, large breaking waves resulted in some minor coastal flooding and beach erosion along exposed shores. Astronomical tides were not unusually high, preventing any serious effects of flooding. The storm produced more than 2 inches of precipitation at Nantucket but amounts tapered off rapidly to only a third of an inch in northern Plymouth County, just south of Boston. Some peak wind gusts included: Nantucket, 53 mph; Falmouth, 52 mph; Martha's Vineyard and Plymouth, 48 mph; Provincetown, 47 mph; New Bedford, 46 mph; Fairhaven, 44 mph; and Boston, 39 mph.

**MAZ005>007-  
013>016-018>022**

**Western Middlesex - Western Essex - Eastern Essex - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable**

**18 0000EST  
1500EST**

**0 0**

**Heavy Rain**

**MAZ007-013>024**

**Eastern Essex - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket**

**18 0000EST  
1200EST**

**0 0**

**Strong Winds**

**Bristol County  
Westport**

**18 0600EST**

**0 0**

**Thunderstorm Wind (G56)**

**Bristol County  
Collins Corner**

**18 0825EST**

**0 0**

**Flood**

Heavy rainfall, strong winds, and thunderstorms occurred over eastern Massachusetts as a strong low pressure system tracked northeastward from the Mid Atlantic coast to a position southeast of Cape Cod. A severe thunderstorm was reported in Bristol County at 6:00 AM, February 18th, where an estimated peak wind gust of 65 mph occurred. A commuter plane flying from Maine to Boston was struck by lightning but landed safely at Boston with no significant damage and no injuries. Rainfall totals of 2 to 3.5 inches were commonly reported over the southeastern portion of the state, the western part of Cape Cod, Martha's Vineyard, and along the coast northeast of Boston. Most of this heavy rainfall occurred during a 12-hour period. In northern Plymouth County, a total of 3.17 inches at Hull and 3.00 inches at Hingham set new records for a maximum one-day rainfall for the month of February. Some other totals included: West Wareham, 3.7 inches; Gloucester, 3.37 inches; Plymouth, 3.15 inches; Acushnet, 3.13 inches; New Bedford, 2.77 inches; Norton, 2.76 inches; Newburyport, 2.73 inches; Taunton, 2.33 inches; Wakefield, 2.10 inches; and Boston, 2.02 inches. Thunderstorms embedded in the general area of rain produced downpours which caused some minor brief street flooding and flooding of some low-lying areas. A tunnel was flooded on Storrow Drive in Boston hampering traffic in that area. There was considerable flooding in low-lying flood-prone areas of most of Bristol and Plymouth Counties. At 8:25 AM, a small stream in Bristol County in Collins Corner reportedly overflowed its banks. No significant damage was reported from the heavy rainfall, however.

Strong northeast winds affected most of east coastal Massachusetts, including Cape Cod and the Islands. Some peak wind gusts included: Chatham, 54 mph; Falmouth, 53 mph; Blue Hill in Milton, 50 mph; Nantucket, 46 mph; and Hyannis, 44 mph.

**MAZ005>007-  
013>014-016>022**

**Western Middlesex - Western Essex - Eastern Essex - Western Norfolk - Southeast Middlesex - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable**

**23 2300EST  
24 2300EST**

**0 0**

**Heavy Rain**

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MASSACHUSETTS, Central and East

<b>MAZ004&gt;007-012&gt;024</b>	<b>Northern Worcester - Western Middlesex - Western Essex - Eastern Essex - Southern Worcester - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket</b>								
	24	0000EST			0	1	20K		Strong Winds
	25	1200EST							
<b>MAZ022&gt;024</b>	<b>Barnstable - Dukes - Nantucket</b>								
	24	0800EST			0	0	50K		Coastal Flood
		1100EST							
<b>MAZ005-016-019</b>	<b>Western Middlesex - Eastern Norfolk - Eastern Plymouth</b>								
	24	0830EST			0	0			High Wind (G55)
		0900EST							
<b>Norfolk County Cohasset</b>	24	1600EST			0	0			Flood
		2330EST							
<b>Plymouth County Central Portion</b>	24	1700EST			0	0			Flood
		2330EST							
<b>Middlesex County Winchester to Wayland</b>	24	1800EST			0	0			Flood
		2330EST							

The second powerful nor'easter to affect the region in less than a week brought a deluge of rain to southeastern Massachusetts, gale force winds along the coast, and coastal flooding to Chatham on Cape Cod and to Martha's Vineyard and Nantucket. An extremely intense low pressure system moving to the northeast and passing just to the southeast of Nantucket had a central barometric pressure just under 29 inches of mercury.

Maximum rainfall totals for this storm exceeded 4 inches in Plymouth County along a north-south axis extending from Plymouth on the south end to Hingham and Hull on the north end. At least 3 inches fell across southern Bristol County, almost all of Plymouth County, and in southeast Norfolk County just to the south of Boston. Two inches or more fell across Essex County, eastern Middlesex County, and across all of southeastern Massachusetts, including all of Cape Cod and Martha's Vineyard. Plymouth had 4.26" and Hingham had 4.03". At Hingham, 3.81" fell in just 24 hours and, for the second time within a week, established a new maximum 24-hour rainfall amount for the month of February.

The James Brook, a small stream in Cohasset (Norfolk County) jumped out of its banks flooding Ripley Road, which was closed by the local police. A spotter reported that a small stream had gone over its banks in Plymouth County as well. In Middlesex County, beginning around 6 PM on the 24th, the Aberjona River in Winchester went out of its banks, flooding a ball field near a school. This flooding continued through about 1130 PM. Meanwhile, also in Middlesex County, around 11 PM, the Sudbury River in Wayland briefly went out of its banks. There were numerous reports of flooded basements throughout Plymouth and southern Bristol Counties.

High winds were reported at several locations. Some peak gusts in the category of high winds included: Blue Hill Observatory, Milton, 63 mph; Hull, 61 mph; Wayland, 59 mph; and Edgartown on Martha's Vineyard, 58 mph. Strong winds gusted to 40 to 47 mph at many locations, including 47 mph at Nantucket and 46 mph at Boston. In Boston, one person was slightly injured when winds blew down a plaster canopy at the World Trade Center. Inland, gusts of 47 mph occurred at Framingham and 45 mph at Littleton. Farther inland, strong winds were felt in Worcester County, where some tree limbs were blown down causing scattered power outages. A large tree limb fell on a house in Leicester.

Coastal flooding occurred on Martha's Vineyard where Beach Road was closed from Edgartown to Oak Bluffs. Waves were reported splashing over the top of houses in the Eastville section of Oak Bluffs. Beach erosion occurred on Nantucket, where there was a loss of about 20 feet of dunes on the east side of the Island. Up to 12 to 15 feet was lost along Sconset Bluff. There were a few reports of coastal flooding at Chatham on Cape Cod. Dozens of basements were flooded and coastal roads had to be closed as the aftermath of the heavy rain and a high tide overwhelmed drainage systems in the Sand Hills section of Scituate on February 25th, a day after the storm.

## MASSACHUSETTS, West

<b>MAZ001</b>	<b>Berkshire</b>								
	04	2300EST			0	0			Freezing Rain
	05	1000EST							

An intense low pressure system off the Mid-Atlantic coast produced freezing rain across Berkshire County. The freezing rain was occasionally mixed with sleet and wet snow. Icy roads caused many traffic accidents and school closings.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **MICHIGAN, East**

**MIZ063-069>070-076-083 St. Clair - Oakland - Macomb - Wayne - Monroe**

<b>17</b>	<b>1600EST</b>	<b>0</b>	<b>0</b>	<b>1.1M</b>	<b>Flood</b>
<b>18</b>	<b>1200EST</b>				

A strong low pressure system moved from Arkansas to the lower Ohio Valley on the 17th, then proceeded to the eastern Great Lakes on the 18th. Strong southerly flow ahead of the low advected high amounts of moisture toward the Great Lakes from the Gulf of Mexico. Rain fell occasionally on the 16th, 17, and 18th. In southeast Michigan, the heaviest rain occurred in the Detroit area on the 17th. Rainfall totals during the three days were commonly over two inches, most of that falling from about 10 am to 6 pm EST on the 17th. Some of the higher rainfall amounts over the three days were: 2.85 inches in Dundee, 2.55 inches in Adrian, 2.48 inches in Mt Clemens, 2.65 inches in Grosse Pointe Farms, and 2.69 inches in Dearborn. Detroit Metropolitan Airport recorded 2.81 inches over the three days, of which 2.24 inches fell on the 17th. Average rainfall for the entire month of February at Detroit is 1.74 inches.

The resulting flooding hit hardest in eastern Monroe County, where lakeshore flooding exacerbated runoff problems. East winds gusted as high as 45 mph, pushing the Lake Erie water level to 3.5 feet above normal at Luna Pier. This water level was the highest in recent memory according to area residents, and was topped by 6 foot waves on the night of the 17th. The high water and pounding surf destroyed two private docks in Luna Pier, and flooded many roads near the lakeshore. In addition, the abnormally high lake levels prevented effective runoff further inland. As a result, some flooding of roads and basements occurred across all of Monroe County.

Urban flooding was a significant problem in parts of Wayne County. Hundreds of basements and many streets were flooded in the cities west and southwest of Detroit. A state of emergency was declared for much of Wayne County. Taylor, Dearborn Heights, Westland, and Grosse Ile were among the hardest hit communities. High water briefly closed the Southfield Freeway just north of Interstate 94.

In Macomb County, Warren, St. Clair Shores, and Clinton Township were among the communities that experienced urban and lowland flooding. Again the most common problems were basement and road flooding. Lakeshore flooding from Lake St. Clair closed some roads all along the Macomb County shoreline, but problems here were not as severe as further south in Monroe County.

Limited flooding occurred in St. Clair and Oakland Counties. A few roads were closed in southern St. Clair County due to high water. A few roads and basements flooded in southern Oakland County, most notably in the Farmington area.

Runoff caused several area rivers to exceed flood stage (see below).

**MIZ070**

**Macomb**

<b>17</b>	<b>2000EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>18</b>	<b>2200EST</b>				

The Clinton River near Fraser went above its 16 foot flood stage at 8 pm EST on the 17th. The river crested at 18.0 feet at 2 am EST on the 18th, then fell below flood stage at 10 pm EST on the 18th.

**MIZ076**

**Wayne**

<b>18</b>	<b>0500EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>19</b>	<b>1400EST</b>				

The Rouge River at Detroit went above its 15 foot flood stage at 5 am EST on the 18th. The river crested at 17.8 feet at noon EST on the 18th, then fell back below flood stage at 5 am EST on the 19th.

The Lower Rouge River at Inkster went above its 10 foot flood stage at 5 am EST on the 18th. The river crested at 12.3 feet at 8 pm EST on the 18th, then fell back below flood stage at 2 pm EST on the 19th.

**MIZ082**

**Lenawee**

<b>19</b>	<b>0900EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
<b>21</b>	<b>1500EST</b>				

The River Raisin at Blissfield went above its 683 foot flood stage at 9 am EST on the 19th. The river crested at 684.1 feet at 1 am EST on the 20th, then fell back below flood stage at 3 pm EST on the 21st.

**MIZ083**

**Monroe**

<b>21</b>	<b>0700EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
	<b>2200EST</b>				

The River Raisin at Dundee went above its 650 foot flood stage at 7 am EST on the 21st. The river crested at 650.3 feet at 9 am EST on the 21st, then fell back below flood stage at 10 pm EST on the 21st.

# Storm Data and Unusual Weather Phenomena

February 1998

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

NONE REPORTED.

**MICHIGAN, North**

NONE REPORTED.

**MICHIGAN, Upper**

NONE REPORTED.

**MICHIGAN, West**

NONE REPORTED.

**MINNESOTA, Central and South Central**

NONE REPORTED.

**MINNESOTA, Northeast**

NONE REPORTED.

**MINNESOTA, Northwest**

NONE REPORTED.

**MINNESOTA, Southeast**

NONE REPORTED.

**MINNESOTA, Southwest**

NONE REPORTED.

**MINNESOTA, West**

NONE REPORTED.

**MINNESOTA, West Central**

NONE REPORTED.

**MISSISSIPPI, Central**

**MSZ048-062-073**

**Hinds - Lincoln - Lamar**

**10    1730CST  
         2030CST**

**0    0    4K**

**High Wind (G50)**

Several trees were blown down from gradient wind near Edwards. No thunderstorms were in the area.

**Sharkey County**

**Onward**

**10    1735CST**  
Several trees were blown down.

**0    0    1K**

**Thunderstorm Wind**

**Claiborne County**

**Port Gibson**

**10    1745CST**  
Several trees were blown down. One house was damaged when a tree fell on it.

**0    0    10K**

**Thunderstorm Wind**

**Issaquena County**

**Mayersville**

**10    1745CST**  
Several power lines were blown down.

**0    0    2K**

**Thunderstorm Wind**

**Issaquena County**

**Fitler**

**10    1750CST**  
Several power lines were blown down.

**0    0    2K**

**Thunderstorm Wind**

**Washington County**

**Greenville**

**10    1750CST**  
A casino boat was blown from its moorings.

**0    0**

**Thunderstorm Wind (G50)**

**Warren County**

**Vicksburg**

**10    1755CST**  
Several trees were blown down.

**0    0    1K**

**Thunderstorm Wind**

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MISSISSIPPI, Central

<b>Bolivar County</b>									
2 W Pace	10	1817CST			0	0			Thunderstorm Wind (G53)
	A sixty mile an hour wind was recorded from a thunderstorm gust.								
<b>Copiah County</b>									
Hazlehurst	10	1830CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
<b>Humphreys County</b>									
3 NW Belzoni	10	1830CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
<b>Hinds County</b>									
Jackson	10	1900CST			0	0	4K		Thunderstorm Wind
	Trees and powerlines were blown down throughout the county.								
<b>Leflore County</b>									
Money	10	1905CST	1.5	50	0	0	3K		Tornado (F0)
	This weak tornado was sighted by a spotter. This short track tornado damaged a farm shop.								
<b>Grenada County</b>									
Grenada	10	1924CST			0	0			Hail (1.00)
<b>Madison County</b>									
Madison	10	1945CST			0	0	5K		Thunderstorm Wind
	Trees and power lines were blown down throughout the county.								
<b>Carroll County</b>									
Carrollton	10	2000CST			0	0	10K		Thunderstorm Wind
	The roof of a large building was torn off by strong wind.								
<b>Copiah County</b>									
Georgetown	10	2000CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
<b>Hinds County</b>									
Byram	10	2000CST			0	0	3K		Thunderstorm Wind
	Several power lines were blown down.								
<b>Rankin County</b>									
Brandon	10	2000CST			0	0	10K		Thunderstorm Wind
	Numerous trees and power lines were blown down throughout the county.								
<b>Simpson County</b>									
Mendenhall	10	2030CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
<b>Lincoln County</b>									
Ruth	10	2050CST			0	0	2K		Thunderstorm Wind
	Several trees were blown down.								
<b>Lawrence County</b>									
Monticello	10	2100CST			0	0	10K		Thunderstorm Wind
	Numerous trees were blown down throughout the county.								
<b>Marion County</b>									
5 S Columbia	10	2130CST			0	0			Hail (0.75)
<b>Jefferson Davis County</b>									
Prentiss	10	2145CST			0	0	10K		Thunderstorm Wind
	Numerous trees were blown down throughout the county.								
<b>Lamar County</b>									
Purvis	10	2200CST			0	0	5K		Thunderstorm Wind
	Numerous trees were blown down throughout the county.								
<b>Covington County</b>									
3 N Collins	10	2215CST			0	0	1K		Thunderstorm Wind
	Several trees were blown down.								
<b>Jones County</b>									
1 N Laurel	10	2243CST			0	0			Hail (0.75)
<b>Clarke County</b>									
3 E Quitman	10	2300CST			0	0	1K		Thunderstorm Wind
	Several trees were blown down.								

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>MISSISSIPPI, Central</b>									
<b>Lauderdale County</b>									
Meridian	10	2300CST			0	0	1K		Thunderstorm Wind
									Several trees were blown down.
<b>Adams County</b>									
Natchez	26	1010CST			0	4	30M		Thunderstorm Wind (G70)
									An intense line of thunderstorms or bow echo configuration moved across the Mississippi River and struck the city of Natchez. Strong outflow from the bow echo produced estimated winds of 80 to 100 miles an hour in the city. These strong winds damaged many of the historic buildings and peeled roofs off of many of the buildings. Numerous windows were broken out of buildings and debris was scattered over a three mile wide area. Four people were injured but none of the injuries were serious. Numerous trees were also blown down.
<b>Jefferson County</b>									
Fayette to Union Church	26	1020CST 1040CST			0	0	100K		Thunderstorm Wind
									Thousands of trees were blown down in eastern Jefferson county. A few buildings were also damaged.
<b>Franklin County</b>									
Little Spgs	26	1030CST			0	0	50K		Thunderstorm Wind
									The roofs of two houses were blown off. Hundreds of trees were blown down.
<b>Claiborne County</b>									
2 SE Port Gibson to 1 E Rocky Spgs	26	1050CST 1110CST	13	1232	0	0	100K		Tornado (F1)
									This tornado formed in the rotating comma head of a bow echo. The tornado moved through a mostly wooded area and blew down hundreds of trees. It took much of the day to remove trees from the Natchez Trace Parkway before traffic could resume. One house had a tree fall on it and a mobile home had the major damage.
<b>Copiah County</b>									
Crystal Spgs	26	1100CST			0	0	10K		Thunderstorm Wind
									Numerous trees were blown down throughout the county.
<b>Warren County</b>									
Bovina	26	1105CST			0	0	20K		Thunderstorm Wind
									Extensive damage was done to barns and trees.
<b>Warren County</b>									
Vicksburg	26	1106CST			0	0	3K		Thunderstorm Wind
									A number of trees were blown down in Vicksburg.
<b>Lincoln County</b>									
10 N Brookhaven to Brookhaven	26	1112CST			0	0	2K		Thunderstorm Wind
									Several trees were blown down.
<b>Hinds County</b>									
Jackson	26	1115CST			0	0	10K		Thunderstorm Wind
									Numerous trees were blown down throughout the county.
<b>Lawrence County</b>									
Sontag	26	1125CST			0	0	2K		Thunderstorm Wind
									Several trees were blown down.
<b>Madison County</b>									
Gluckstadt	26	1130CST			0	0			Thunderstorm Wind (G52)
<b>Rankin County</b>									
Richland	26	1130CST			0	0	2K		Thunderstorm Wind
									Several trees and power lines were blown down.
<b>Simpson County</b>									
Mendenhall	26	1135CST			0	0	5K		Thunderstorm Wind
									Many trees were blown down.
<b>Smith County</b>									
Polkville	26	1150CST			0	0			Hail (0.75)
<b>Simpson County</b>									
Magee	26	1155CST			0	0	2K		Thunderstorm Wind
									Several trees were blown down.
<b>Simpson County</b>									
Mendenhall	26	1200CST			0	0	2K		Thunderstorm Wind
									Several trees were blown down.

# Storm Data and Unusual Weather Phenomena

February 1998

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>MISSISSIPPI, Central</u></b>									
<b>Smith County</b>									
Raleigh	26	1220CST			0	0			Hail (0.75)
<b>Newton County</b>									
Conehatta	26	1230CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						
<b>Neshoba County</b>									
Philadelphia	26	1240CST			0	0	2K		Thunderstorm Wind
			Trees were blown down.						
<b>Lauderdale County</b>									
5 SW Meridian	26	1315CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						
<b>Clarke County</b>									
Stonewall	26	1330CST			0	0			Hail (1.00)
<b>Clarke County</b>									
Stonewall	26	1330CST			0	0	2K		Thunderstorm Wind
			Trees were blown down.						
<b>Newton County</b>									
Newton	26	1340CST			0	0	2K		Thunderstorm Wind
			Trees were blown down.						
<b>Newton County</b>									
Newton	26	1340CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						
<b>Marion County</b>									
7 E Columbia	26	1445CST			0	0			Hail (0.88)
<b>Jones County</b>									
Ellisville	26	1452CST			0	0			Hail (0.75)
<b>Jones County</b>									
7 W Ellisville to 7 SW Laurel	26	1453CST 1500CST	5.5	100	0	0	25K		Tornado (F1)
			This tornado moved through a sparsely populated area but did extensive damage to trees.						
<b>Lamar County</b>									
Oak Grove	26	1510CST			0	0	2K		Thunderstorm Wind
			Trees were blown down.						
<b>Clarke County</b>									
Basic City	26	1535CST			0	0			Hail (1.00)
<b>Forrest County</b>									
Hattiesburg	26	1540CST			0	0			Hail (0.88)
<b>Jones County</b>									
3 E Eastabuchie	26	1600CST			0	0	20K		Thunderstorm Wind
			Two chicken houses were destroyed.						
<b>Lamar County</b>									
Lumberton	26	1600CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down.						
<b><u>MISSISSIPPI, North</u></b>									
<b>Tallahatchie County</b>									
Charleston	10	1910CST 1915CST			0	0	0.75K		Hail (1.75)
<b>Yalobusha County</b>									
Oakland	10	1935CST 1940CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
<b>Lafayette County</b>									
Oxford	10	2025CST 2030CST			0	0	1K		Thunderstorm Wind
			A few trees were knocked down.						
<b>Marshall County</b>									
Countywide	10	2055CST 2110CST			0	0	10K		Thunderstorm Wind
			Trees and power lines were blown down across the county.						

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MISSISSIPPI, North

### **Itawamba County**

Clay	16	0330CST 0335CST			0	0	10K		<b>Thunderstorm Wind</b>
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A storage building was destroyed. The underpinnings from a trailer were torn. Several trees were knocked down.

## MISSISSIPPI, South

### **Pike County**

Magnolia	10	1600CST			0	0	0.50K		<b>Thunderstorm Wind</b>
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A few trees were blown down across county roads and Mississippi State Highway 51. Fallen tree limbs downed power lines, interrupting electrical service to over 2,000 customers.

### **Amite County**

5 SE Smithdale	10	1600CST			0	0	0.50K		<b>Thunderstorm Wind</b>
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Several trees were blown down by thunderstorm wind gusts.

### **Walthall County**

Tylertown	10	1600CST			0	0	0.40K		<b>Thunderstorm Wind</b>
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Several trees were blown down.

### **Pearl River County**

Poplarville	10	2125CST			0	0	5K		<b>Thunderstorm Wind</b>
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The Sheriff's Office reported numerous trees down across the county.

### **Hancock County**

Lakeshore to Bay St Louis	15	1300CST 2000CST			0	0	500K		<b>Storm Surge</b>
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### **Harrison County**

Pass Christian to Biloxi	15	1300CST 2000CST			0	0	250K		<b>Storm Surge</b>
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### **Jackson County**

Ocean Spgs to Pascagoula	15	1300CST 2000CST			0	0	250K		<b>Storm Surge</b>
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A strong Gulf of Mexico low pressure system moved onshore the Mississippi coast during the late afternoon and evening producing strong winds, heavy rain and high tides. The combination of wind and high tides caused considerable damage along the Mississippi coast. Tides were 2 to 4 feet above normal, increasing 1 foot between 5 pm and 6 pm, and rising above the docks in several harbors. Sustained winds of 25 to 30 mph prevailed during the afternoon with wind gust of 40 to 55 mph recorded at several locations during the late afternoon and evening. The combination of wind and tides eroded large segments of beach as indicated by the 100,000 cubic yards of sand lost in Harrison County. Several private and two public piers were heavily damaged in Waveland and Bay St. Louis. An 80 foot shrimp boat broke loose and damaged a pier and pilings in Back Bay of Biloxi. Several barges broke their moorings. One was driven aground in a marshy area and a 400 foot casino barge blocked the shipping channel in Port Bienville. Seven commercial shrimping boats were heavily damaged. In the nearby coastal waters a crane barge was tipped over the by high wind and seas, and a tug boat sank in the Mississippi Sound. In Hancock County 38 houses, 7 mobile homes and 39 automobiles had some water damage. Fifty cars in a Pascagoula casino parking lot were flooded. Numerous trees were blown down causing extensive power outages. Lightning and high winds caused at least three fires in the Waveland area. Damage costs were estimated from newspaper accounts and reports from civil defense offices.

### **Pearl River County**

Poplarville	15	1800CST			0	0	10K		<b>Thunderstorm Wind</b>
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Thunderstorm winds tore a metal canopy off a convenience store. A pine tree fell damaging a pick-up truck, and an oak tree was sheared off a few feet above the ground.

### **Wilkinson County**

Woodville	26	1000CST			0	0	0.80K		<b>Thunderstorm Wind</b>
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Thunderstorm winds downed several trees and caused minor damage to several houses and buildings. The Sheriff's Office reported trees down on Mississippi State Highway 61.

### **Amite County**

2 W O Neil	26	1058CST			0	0	1K		<b>Thunderstorm Wind</b>
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The Sheriff's Office reported that a tree fell on a mobile home.

### **Walthall County**

15 SE Tylertown	26	1435CST			0	0	0		<b>Hail (0.75)</b>
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## MISSISSIPPI, Southeast

### **Stone County**

Wiggins	10	2255CST 2256CST			0	0	3K		<b>Thunderstorm Wind (G50)</b>
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Several trees were blown down along State Highway 26 just east of Wiggins.



# Storm Data and Unusual Weather Phenomena

February 1998

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

## MISSISSIPPI, Southeast

<b>Wayne County</b> Clara	10	2305CST 2306CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down just east of Clara.									
<b>Perry County</b> New Augusta	10	2310CST 2311CST			0	0	3.5K		Thunderstorm Wind (G50)
Trees and power lines were blown down near New Augusta.									
<b>Greene County</b> 5 W Leakesville	10	2345CST 2346CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down along State Highway 57, about five miles west of Leakesville.									
<b>Wayne County</b> Whistler	26	1615CST 1616CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down on Eucutta Road just north of Whistler.									
<b>Perry County</b> New Augusta	26	1635CST 1636CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down along State Highway 29 just south of New Augusta.									
<b>Greene County</b> Sand Hill	26	1655CST 1656CST			0	0	3K		Thunderstorm Wind (G50)
Several trees were blown down along State Highway 63 just north of Sand Hill.									

## MISSOURI, East

NONE REPORTED.

## MISSOURI, Lower

NONE REPORTED.

## MISSOURI, Northwest

<b>MOZ039-044-046</b>	<b>Saline - Johnson - Cooper</b>				0	0			Flood
	11	0000CST							
	13	2359CST							
Minor flooding occurred along the Petite Saline Creek, Blackwater River and Lamine River in Northcentral Missouri during February 1998.									
Petite Saline Creek Boonville, MO									
	Flood Stage	16 ft							
	Above Flood Stage	2/11-2/12							
	Crest	19.2 ft on 2/12							
Blackwater River Valley City, MO									
	Flood Stage	22 ft							
	Above Flood Stage	2/11-2/12							
	Crest	Estimated 22.5 ft on 2/12							
Blue Lick, MO									
	Flood Stage	24 ft							
	Above Flood Stage	2/12-2/13							
	Crest	24.26 ft on 2/12							
Lamine River Otterville, MO									

# Storm Data and Unusual Weather Phenomena

February 1998

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

Flood Stage                    15 ft  
 Above Flood Stage        2/11  
 Crest                            15.47 ft

### **Cooper County** 5 S Boonville

	<b>20</b>	<b>1145CST</b>							
	<b>21</b>	<b>0200CST</b>		<b>0</b>	<b>0</b>				<b>Heavy Rain</b>

One to three inches of rain fell over Cooper County on the evening of the 20th and early morning hours of the 21st. This resulted in flooding of roadways. Route U, about 2 miles south of I-70 was completely closed due to high water.

### **Howard County** 3 W New Franklin

	<b>20</b>	<b>1145CST</b>							
	<b>21</b>	<b>0200CST</b>		<b>0</b>	<b>0</b>				<b>Heavy Rain</b>

Heavy rains resulted in minor flooding of roadways. The worst of the road flooding was in southwest Howard County where Route Z just off of Highway 87 was closed due to high water.

### **Holt County** 3 W Fortescue to 4 NW Mound City

	<b>25</b>	<b>1710CST</b>							
		<b>1730CST</b>		<b>0</b>	<b>0</b>				<b>Hail (0.75)</b>

Storm spotters reported dime-size hail from severe thunderstorms over Holt County 3 miles west of Fortescue and 4 miles northwest of Mound City.

## MISSOURI, Southeast

### **MOZ076-086>087- 100-107>112-114**

### **Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid**

	<b>01</b>	<b>0100CST</b>							
	<b>28</b>	<b>2300CST</b>		<b>0</b>	<b>0</b>				<b>Abnormal Warmth</b>

Temperatures averaged well above normal during the month, giving area residents unusual opportunities for outdoor recreation. At Paducah, KY, the month averaged about seven degrees above normal, which made it the fourth warmest February on record there. Trees budded early, and many plants such as creeping phlox and daffodils bloomed early. The premature blossoms were vulnerable to late season cold snaps in March.

### **MOZ076-086>087- 100-107>112-114**

### **Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid**

	<b>08</b>	<b>0600CST</b>							
		<b>1000CST</b>		<b>0</b>	<b>0</b>				<b>Fog</b>

Dense fog reduced visibility to as low as 100 feet. The fog was most dense in regions from Cape Girardeau to New Madrid.

### **Cape Girardeau County** Burfordville

	<b>17</b>	<b>0800CST</b>							
		<b>1100CST</b>		<b>0</b>	<b>0</b>	<b>5K</b>			<b>Urban/Sml Stream Fld</b>

Persistent moderate to locally heavy rain during the previous night brought rainfall totals to around 2 inches in 8 hours. Since the ground was already saturated, the runoff raised small stream levels very rapidly. The Whitewater River overflowed across County Road 351 near Burfordville. A station wagon stalled as it attempted to cross the flooded roadway. No injuries were reported.

## MISSOURI, Southwest

### **Webster County** North Portion

	<b>26</b>	<b>1835CST</b>							
				<b>0</b>	<b>0</b>	<b>0</b>			<b>Flash Flood</b>

### **Christian County** East Portion

	<b>26</b>	<b>1900CST</b>							
				<b>0</b>	<b>0</b>	<b>0</b>			<b>Flash Flood</b>

### **Wright County** Countywide

	<b>26</b>	<b>1915CST</b>							
				<b>0</b>	<b>0</b>	<b>0</b>			<b>Flash Flood</b>

### **Douglas County** West Portion

	<b>26</b>	<b>1920CST</b>							
				<b>0</b>	<b>0</b>	<b>0</b>			<b>Flash Flood</b>

Rainfall of over an inch in three hours caused flooding of numerous low water crossings and creeks. The flooding lasted approximately 3 to 4 hours, before receding.

### **Miller County** Countywide

	<b>26</b>	<b>2158CST</b>							
				<b>0</b>	<b>0</b>	<b>0</b>			<b>Flash Flood</b>

Rainfall in excess of one inch in three hours caused flooding of low water crossings along county highways 1710 and 1712.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## MONTANA, Central

NONE REPORTED.

## MONTANA, East

**MTZ018>020-023>027 Daniels - Sheridan - Roosevelt - McCone - Richland - Dawson - Prairie - Wibaux**

25	0700MST	1	0		<b>Blizzard</b>
28	0700MST				

A powerful winter storm brought blizzard conditions to eastern Montana. Up to a foot and a half of snow in combination with sustained winds 30 to 40 miles an hour and gusts to 50 mph reduced visibility to zero. Snow drifts ranged between 5 and 12 feet. All roads leading into North Dakota were closed including U.S. Highway 2 and Interstate 94. Sections of these roads were closed for four days. Numerous travellers were stranded. With basketball tournaments going on, hotels filled up rapidly and many stranded motorists had to stay at the National Guard Armory in Glendive. Even though roads were closed, several semis tried to negotiate I-94 and ended up jack knifed which lead to a longer time in opening the interstate. Restaurants and stores began running out of food toward the end of the blizzard. There were some cattle loses as this storm hit in the early part of calving season. Miraculously given the number of motorists stranded only one fatality was reported when a 41 year old man left the safe shelter and attempt to walk 26 miles to his home. M410U

## MONTANA, South

**MTZ032>033-036>037 Custer - Fallon - Powder River - Carter**

25	0500MST	0	0		<b>Blizzard</b>
28	1200MST				

A strong winter storm which began February 25th created blizzard conditions across southeastern Montana and dumped large amounts of snow. The hardest hit areas were Fallon and Carter Counties in extreme Eastern Montana. The following are snow depth totals from the storm. In Fallon County...Baker 15 inches with 10 FT drifts. Ismay 15-18 inches with 5-6 FT drifts. Plevna 14 inches. In Carter County...Alzada 15 inches with 10-15 FT drifts. Mill Iron 13 inches with 10 FT drifts. Ekalaka 10 inches. Ekelaka 20SSE 8 inches with 3-4 FT drifts. In Custer County...Mizpah 12 inches with 8 FT drifts. Powderville 10 inches. Volberg 12 inches with 4-5 FT drifts. In Powder River County..Biddle12 inches with 6Ft drifts. Biddle 8SW 8 inches with 5 FT drifts.

## MONTANA, West

**MTZ004**

**Lower Clark Fork Region**

12	0300MST	0	0		<b>Heavy Snow</b>
14	0300MST				

Ten inches of snow fell at Lookout Pass Ski Area for the period ending at 0700 on the 13th, then another 8 inches fell in the 24 hours following.

**MTZ007**

**Butte / Pintlar Region**

25	0900MST	0	0		<b>Heavy Snow</b>
26	0900MST				

Eight inches of new snow at Maverick Mountain Ski Area.

## NEBRASKA, Central

**NEZ037>038**

**Logan - Custer**

03	0700CST	2	1	16K	<b>Ice Storm</b>
	1100CST				

Light freezing drizzle on highway surfaces caused hazardous driving conditions during the morning. A few accidents occurred in which motorists hit patches of ice, lost control and rolled over. One of the accidents happened four miles north of Stapleton in which the driver and passenger were killed. F57VE, F75VE

**NEZ004>010-022>029-035>038-056>059-069>071 Sheridan - Cherry - Keya Paha - Boyd - Brown - Rock - Holt - Garden - Grant - Hooker - Thomas - Blaine - Loup - Garfield - Wheeler - Arthur - Mcpherson - Logan - Custer - Deuel - Keith - Perkins - Lincoln - Chase - Hayes - Frontier**

25	1000CST	0	0	82K	<b>Winter Storm</b>
28	1600CST				

An intense winter storm dumped up to eight inches of snow in the Northeast Nebraska Panhandle. Snow and blowing snow made travel almost impossible so that roads were closed and school was canceled. High winds in excess of 60 mph blew a metal utility building into cars in a nearby parking lot in Broken Bow. The winds flipped a metal building into a motel in Valentine. The destructive winds also lifted and tore off roof shingles, damaged a garage door and tore siding off of a country school south of North Platte.

## NEBRASKA, East

**NEZ044-051**

**Dodge - Saunders**

01	0000CST	0	0	3K	<b>Flood</b>
08	1100CST				

A three mile long ice jam continued along the Platte river to the southwest of Fremont upstream from the highway 77 bridge to Big Island. The jam was in the process of breaking up and the water gradually receded during the first part of February. The jam resulted in lowland flooding at Ridgeland Road, the YMCA Camp, and Big Island. Also 8 homes along the Platte river were

# Storm Data and Unusual Weather Phenomena

February 1998

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

## NEBRASKA, East

flooded receiving 1 to 4 inches of water in the main level. Most of the flooding occurred in January and the water receded from the homes during the first few days of February.

**Sarpy County**  
5 NW Bellevue

25	1615CST		0	0			<b>Hail (0.75)</b>
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## NEBRASKA, Extreme Northeast

NONE REPORTED.

## NEBRASKA, Extreme Southwest

NEZ079>081

**Dundy - Hitchcock - Red Willow**  
25 0600CST  
1800CST

			0	0	100K		<b>High Wind (G51)</b>
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Winds damaged roofs, trees, buildings, fences, awnings, windows. Winds gusted 60 to 70 mph at times. A mobile home at the North Shore Marina west of Trenton was destroyed by estimated 80 mph wind gust. Power lines were downed in isolated areas.

## NEBRASKA, South Central

NONE REPORTED.

## NEBRASKA, West

NEZ055

**Cheyenne**  
06 0700MST  
0930MST

			0	0	12K	0	<b>Icy Roads</b>
--	--	--	---	---	-----	---	------------------

Icy roads created by light snow caused a few accidents across Cheyenne County. The accidents occurred within a 6 mile radius of Sidney, NE. No one was injured in any of the accidents reported.

NEZ001>003-019>021-054>055

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

25	0800MST		0	1	40K	0	<b>Blizzard</b>
27	2200MST						

Blizzard conditions and snow packed roads occurred across the panhandle. On the 25th, winds were sustained at 35 to 45 MPH with gusts over 60 MPH, caused several accidents around the Scottsbluff area. A 59 year old man was seriously injured when his semi-tractor trailer slid into a ditch 13 miles north of Scottsbluff on Nebraska highway 71. In Sidney, winds were sustained at 35 to 45 MPH, with gusts up to 55 mph, and knocked out power to schools and neighborhoods. Many schools and highways were closed, including Interstate 80 west of Sidney to the Nebraska-Wyoming border. On the 26th, winds gusting to 72 MPH combined with 9 inches of snow across the northern half of the panhandle, caused near zero visibilities for most of the day. Schools remained closed and Chadron and Alliance were isolated because of closed roads, due to snow drifts up to 6 feet deep. Much of Chadron and Alliance were without power. The high winds peeled roofs off local businesses across the panhandle. A 5 car pileup occurred 14 miles from Chadron, in Esther Canyon. There were no injuries and damage was minor. On the 27th, 70 MPH winds continued across the panhandle. Many roads around Chadron were still closed due to the high winds and blowing snow. Dozens of vehicles remained in ditches. Final snowfall totals across the panhandle ranged from 3 to 12 inches.

## NEVADA, North

NVZ007

**Northern Elko**  
11 0800PST

			0	0			<b>Heavy Snow</b>
--	--	--	---	---	--	--	-------------------

A winter storm dropped locally heavy snow over parts of extreme Northeast Nevada. A 12 hour snowfall total of 7 inches was reported at Wildhorse Reservoir.

NVZ008>009-011>012

**Southwest And South Central Elko - Southeast Elko - White Pine - Lander/Eureka**  
15 0500PST

			0	0			<b>Heavy Snow</b>
--	--	--	---	---	--	--	-------------------

A winter storm dropped heavy snow over much of Northeast and East Central Nevada. 12 hour snowfall totals ending at 5:00 am PST included: 7 inches at Ely airport, 6 inches at Spring Creek, Lamoille, Wells and Ruth and 5 inches in the city of Eureka.

NVZ008-012

**Southwest And South Central Elko - Lander/Eureka**  
20 0800PST

			0	0			<b>Heavy Snow</b>
--	--	--	---	---	--	--	-------------------

Locally heavy snow fell over parts of Northeast Nevada with 4 hour snowfall totals ending at 8:00 am PST including: 4 inches at Emigrant Pass (20 W of Elko), 3 inches at Carlin and 2 inches at Battle Mountain.

NVZ011>012

**White Pine - Lander/Eureka**  
22 1400PST

			0	0			<b>Heavy Snow</b>
--	--	--	---	---	--	--	-------------------

A winter storm dropped locally heavy snow over parts of East Central Nevada. 6 hour snowfall totals ending at 2:00 pm PST included: 5 inches at Diamond Valley, 4 inches at both Cherry Creek and Lages Junction, and 3 inches at both Eureka and Austin.

NVZ008>009-011>012

**Southwest And South Central Elko - Southeast Elko - White Pine - Lander/Eureka**  
23 0800PST  
24 0800PST

			0	0			<b>Heavy Snow</b>
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# Storm Data and Unusual Weather Phenomena

February 1998

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

## NEVADA, North

A very strong winter storm dropped extremely heavy snow over White Pine county and heavy snow over much of the remainder of East Central Nevada. Due to the extreme snow amounts over White Pine county, most roads were closed, along with schools and many businesses. In addition power outages were common due to the heavy and wet nature of the snow. 24 hour snowfall amounts ending at 8:00 am PST included: 18 inches at Ruth, 17 inches at Ely, 10 inches at Lund, 6 inches at both Lages Junction and Spring Creek, 5 inches at McGill, and 3 inches at Wells, Eureka and Pilot Valley.

## NEVADA, South

### NVZ013

#### Northern Nye

<b>03</b>	<b>0300PST</b>								
	<b>1700PST</b>			<b>0</b>	<b>0</b>	<b>400K</b>			<b>High Wind (G80)</b>

Strong gradient winds, enhanced by local terrain, produced damaging winds in northwest Nye County in the small town of Gabbs. One resident with a home weather station recorded sustained winds of 65 mph before his equipment was blown away. Wind gusts were estimated at 80 to 100 mph during the peak of the event, between 4:00 am and 10:00 am. The relentless winds destroyed seven mobile homes, damaged many roofs and small buildings, downed numerous trees and knocked out power for almost the entire day. Nye County commissioners declared Gabbs a disaster area the following day.

### NVZ019

#### Spring Mountains

<b>03</b>	<b>1600PST</b>								
	<b>0800PST</b>			<b>0</b>	<b>0</b>				<b>Heavy Snow</b>

An overnight snowstorm dumped 10 to 15 inches of snow in the Spring Mountains of extreme southern Nevada.

### NVZ013

#### Northern Nye

<b>06</b>	<b>0600PST</b>								
	<b>2000PST</b>			<b>0</b>	<b>0</b>	<b>50K</b>			<b>High Wind (G70)</b>

Another unusual damaging wind event occurred in the town of Gabbs ... just three days after the previous event. The Gabbs Fire Dept. reported southeast winds again gusting to over 80 mph with several power poles and trees down. Additional damage to some mobile homes was noted, but mainly to already weakened and damaged structures.

### Clark County Henderson

<b>06</b>	<b>2130PST</b>								
	<b>2330PST</b>			<b>0</b>	<b>0</b>	<b>10K</b>			<b>Urban/Sml Stream Fld</b>

### Clark County Las Vegas

<b>06</b>	<b>2130PST</b>								
	<b>2330PST</b>			<b>0</b>	<b>0</b>	<b>5K</b>			<b>Urban/Sml Stream Fld</b>

A wet Pacific Storm produced moderate to heavy rainfall over the Las Vegas Valley for a few hours during the evening. The resulting storm runoff filled some underpasses, drainage culverts and washes. Firefighters had to rescue a driver from one vehicle which was submerged near Oakey and Western. Two other vehicles were caught in drainage waters near Duck Creek Wash and Boulder Highway and the occupants had to be rescued.

### NVZ015-019

#### Lincoln County Except The Sheep Range - Spring Mountains

<b>14</b>	<b>1130PST</b>								
	<b>0400PST</b>			<b>0</b>	<b>0</b>				<b>Heavy Snow</b>

A potent Pacific Storm traversed southern Nevada and deposited significant amounts of snow in the higher elevations. In Lincoln County, Pioche (5700 feet) received up to nine inches of snow in less than twelve hours. The Spring Mountains of extreme southern Nevada received a total of eight inches in Kyle Canyon (7000 feet) and 14 inches in Lee Canyon (8500 feet).

### NVZ019

#### Spring Mountains

<b>16</b>	<b>2200PST</b>								
	<b>1400PST</b>			<b>0</b>	<b>0</b>				<b>Heavy Snow</b>

A moist winter storm hit the southwest U.S. and covered the Spring Mountains with 12 inches of new snow at Mt. Charleston (7,000 feet) and 20 inches of new snow at the Las Vegas Ski and Snowboard Resort (8,500 feet).

### NVZ019

#### Spring Mountains

<b>19</b>	<b>2100PST</b>								
	<b>0900PST</b>			<b>0</b>	<b>0</b>				<b>Heavy Snow</b>

The Spring Mountains saw another round of snow from a Pacific Storm. Mt. Charleston (7,000 feet) reported seven inches of new snow in a 12 hour period and the ski area in Lee Canyon (8,500 feet) had eight inches.

### NVZ013-015-019

#### Northern Nye - Lincoln County Except The Sheep Range - Spring Mountains

<b>23</b>	<b>0900PST</b>								
	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>50K</b>			<b>Heavy Snow</b>

The final El Nino enhanced storm for February hit south central and extreme southern Nevada hard. Much of northern Nye county above 6,000 feet saw a foot or more of snow in 18 hours. Manhattan (7,100 feet), 50 miles north of Tonopah, reported 14 inches of new snow. The Spring Mountains of extreme southern Nevada were blanketed with heavy snow. Mt. Charleston received 20 inches of new snow and the Lee Canyon ski area picked up around 30 inches. In Lincoln County, the 24 hour snowfall at the 6,000 foot level, near Pioche, was 20 inches. Many power poles were downed and several tractor-trailers were jack-knifed on the summit of Highway 93 between Panaca and Pioche.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>NEVADA, West</b>									
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		01 0600PST			0	0			Heavy Snow
		02 0600PST							
		24 hour storm total: Mt. Rose Ski Area 12-18 inches.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		02 0330PST			0	0			Heavy Snow
		1530PST							
		Spotter reported 16 inches of snow in 12 hours at Incline Village NV.							
NVZ002			<b>Greater Lake Tahoe Area</b>						
		02 0600PST			0	0			Heavy Snow
		03 0600PST							
		24 hour snow total: 24-30 inches at Mt. Rose Ski Area, NV.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		02 0900PST			0	0			Heavy Snow
		1345PST							
		Incline Village NV reported 6 inches of snow in 5 hours (since 9am) and a 24 hour total of 12 inches of snow at 6700 feet elevation.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		02 1010PST			0	0			Heavy Snow
		1610PST							
		4-5 inches of new snow in 6 hours at Sattley CA.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		07 0600PST			0	0			Heavy Snow
		2330PST							
		Reno NV: 4 inches snow in 10 hours in north Reno, and 4 inches snow in 1.5 hours in south Reno.							
NVZ002			<b>Greater Lake Tahoe Area</b>						
		07 0600PST			0	0			Heavy Snow
		08 0600PST							
		24 hour storm total: Mt. Rose Ski Area 30-36 inches.							
NVZ002			<b>Greater Lake Tahoe Area</b>						
		14 0600PST			0	0			Heavy Snow
		15 0600PST							
		24 hour storm total: Mt. Rose Ski Area 24-30 inches.							
NVZ001			<b>Mineral/Southern Lyon</b>						
		14 1449PST			0	0			High Wind (G58)
		1450PST							
		Peak wind gust of 58 knots at Yerington NV. No damage reported.							
NVZ002			<b>Greater Lake Tahoe Area</b>						
		19 0600PST			0	0			Heavy Snow
		1800PST							
		12 hour snow fall: Incline Village NV, at 6500 feet elevation, 6-8 inches.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		21 0804PST			0	0			High Wind (G70)
		0805PST							
		Peak wind gust to 70 knots reported by spotter over Windy Hill, SW of Reno NV. No damage reported.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		21 1019PST			0	0			High Wind (G63)
		1020PST							
		Peak wind gusts of 63 knots over SW Reno NV. No damage reported.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		23 0700PST			0	0			Heavy Snow
		1500PST							
		8 hour snow fall: Sun Valley NV (near Reno) 4 inches.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		23 0800PST			0	0			Heavy Snow
		1400PST							
		6 hour snow fall: Sparks NV 4 inches.							
NVZ003			<b>Greater Reno/Carson City/Minden Area</b>						
		23 0800PST			0	0			Heavy Snow
		1530PST							
		6-7 hour snow fall: West Reno NV 6 inches in 6 hours, N Reno NV, near Red Rock Road, 7 inches in 7 hours, and Virginia City NV 6 inches in 7 hours.							

# Storm Data and Unusual Weather Phenomena

February 1998

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, West</u></b>									
<b>NVZ003</b>			<b>Greater Reno/Carson City/Minden Area</b>						
	23	0830PST 1230PST			0	0			<b>Heavy Snow</b>
		4 hour snow fall: Carson City NV 5 inches.							
<b>NVZ002</b>			<b>Greater Lake Tahoe Area</b>						
	23	1425PST 1430PST			0	0			<b>Avalanche</b>
		Mt. Rose Highway: avalanche briefly closed highway, no vehicles involved or damages noted.							
<b><u>NEW HAMPSHIRE, North and Central</u></b>									
<b>NHZ001-003-005&gt;009</b>			<b>Northern Coos - Northern Grafton - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap</b>						
	18	0700EST 1600EST			0	0			<b>Moderate Snowfall</b>
<b>NHZ002-004</b>			<b>Southern Coos - Northern Carroll</b>						
	18	0800EST 1700EST			0	0			<b>Heavy Snow</b>
		A large low pressure area in the Ohio Valley and a developing low off the New England Coast combined to bring moderate to heavy snowfall to the state. Snowfall amounts ranged from less than an inch in southern sections of the Connecticut River Valley and southeastern New Hampshire to up to 8 inches in southern Coos and northern Carroll Counties.							
<b>NHZ014</b>			<b>Coastal Rockingham</b>						
	18	0900EST 1500EST			0	0			<b>Urban/Street Flooding</b>
		One to three inches of rain along coastal New Hampshire caused minor street flooding in Portsmouth and Hampton.							
<b>NHZ002&gt;003</b>			<b>Southern Coos - Northern Grafton</b>						
	24	0400EST 1100EST			0	0			<b>Moderate Snowfall</b>
<b>NHZ001</b>			<b>Northern Coos</b>						
	24	0500EST			0	0			<b>Heavy Snow</b>
	25	1100EST							
		A deep low pressure center that developed off the southeast coast of the United States on Monday, the 23rd, moved slowly northeastward to off the New England coast by Wednesday bringing a mixture of precipitation to the state. In northern Coos County, 8 to 11 inches of snow was reported during the period. In southern Coos County and northern Grafton Counties, 2 to 6 inches of snow was reported. Elsewhere, the mixed precipitation changed quickly to rain and little, if any, accumulation was reported.							
<b><u>NEW HAMPSHIRE, Southern</u></b>									
<b>NHZ012</b>			<b>Hillsborough</b>						
	25	1000EST 1210EST			0	0			<b>Strong Winds</b>
		Strong northwest winds in the wake of a departing low pressure system that passed southeast of Cape Cod occurred across much of southern New Hampshire. Wind gusts to 50 mph were reported at Nashua.							
<b><u>NEW JERSEY, Northeast</u></b>									
<b>NJZ011</b>			<b>Union</b>						
	04	2135EST			0	0			<b>High Wind (G50)</b>
		A Nor'Easter produced strong and gusty northeast winds that downed branches and power lines in Union County.							
<b>NJZ006</b>			<b>Hudson</b>						
	05	0530EST 0930EST			0	0			<b>Coastal Flood</b>
		A low pressure system formed in the Gulf Of Mexico during Monday, February 2nd. As it moved slowly northeast, it developed into a Nor'Easter, which passed off the Mid-Atlantic Coast (south of the region) during Thursday, February 5th.							
		The Nor'Easter caused strong gusty northeast winds, high seas, heavy surf, beach erosion, and minor to moderate coastal flooding.							
		Moderate tidal flooding occurred along the Hackensack River at Kearny forcing parts of several roads to close, including Rte. 7.							
<b>NJZ003-006</b>			<b>Bergen - Hudson</b>						
	24	0430EST 0830EST			0	0			<b>Coastal Flood</b>

# Storm Data and Unusual Weather Phenomena

February 1998

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

## NEW JERSEY, Northeast

A low pressure system that formed off the South Carolina Coast on Monday, February 23rd developed into a Nor'Easter as it moved northeast and passed southeast of Long Island during Tuesday, February 24th.

This Nor'Easter produced strong gusty northeast winds, high seas, heavy rain, and minor to moderate coastal flooding mainly across the inland bays where water piled-up and remained trapped.

In Bergen County, flooding occurred along the Passaic River at North Arlington. In Hudson County, flooding occurred along the Hackensack River at Kearny. Route 7 was forced to close due to flooding.

**NJZ011**

**Union**

<b>24</b>	<b>0800EST</b>			<b>0</b>	<b>0</b>				<b>High Wind (G50)</b>
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A Nor'Easter produced strong gusty northeast winds that blew shingles off and caused roof damage to a house in Roselle.

## NEW JERSEY, South and Northwest

**Atlantic County**

**Countywide**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>				<b>Heavy Rain</b>
<b>05</b>	<b>0400EST</b>								

**Cape May County**

**Countywide**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>				<b>Heavy Rain</b>
<b>05</b>	<b>0400EST</b>								

**Monmouth County**

**Countywide**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>				<b>Heavy Rain</b>
<b>05</b>	<b>0400EST</b>								

**NJZ013>014-020>026**

**Western Monmouth - Eastern Monmouth - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>High Wind (G64)</b>
<b>05</b>	<b>1600EST</b>								

**NJZ014-024>026**

**Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>	<b>17.0M</b>			<b>Coastal Flooding/Erosion</b>
<b>09</b>	<b>0900EST</b>								

**Ocean County**

**Countywide**

<b>04</b>	<b>1300EST</b>			<b>0</b>	<b>0</b>				<b>Heavy Rain</b>
<b>05</b>	<b>0400EST</b>								

The strongest northeaster of the winter battered Coastal New Jersey, especially from Ocean County southward, with damaging winds, moderate to severe coastal flooding, extensive beach erosion, several dune breaches and heavy rain. A state of emergency was declared for all the coastal counties and both Atlantic and Cape May Counties were declared federal disaster areas. Damage statewide was estimated at about 17 million dollars and was the worst storm to affect the area since December 1992. While beach erosion was the largest problem in Monmouth and Ocean Counties, damage from the wind and heavy rain became more extensive farther south in Atlantic and Cape May Counties. About 100 persons were evacuated in Ocean, Atlantic and Cape May Counties. No serious injuries were reported. Schools were closed in most coastal communities on both the 4th and 5th. Service was suspended on the Cape May-Lewes Ferry for two days.

The strongest wind gusts reached 74 mph in Seaside Park and 73 mph in West Wildwood. About 13,000 homes and businesses lost power, mostly on the 4th. There were still 1,700 without power the morning of the 5th in Atlantic and Cape May Counties. Numerous access roads to the barrier islands were closed due to tidal flooding on the 5th and the morning of the 6th. The heaviest rain occurred along the immediate shore and exceeded two inches. Tidal departures averaged around 4 feet above normal. Fortunately this storm did not coincide with the spring tide cycle. Nevertheless, the highest tide during the early morning on the 5th reached 9.5 feet above mean low water in North Wildwood, the second highest on record only surpassed by the September 1944 hurricane. For most other locations, this was the highest tide since the December 1992 northeaster.

Cape May County suffered an estimated 3.63 million dollars in damage. The National Guard deployed 270 troops to help with evacuations. In Ocean City, 14 people were evacuated, mainly from the Pecks Beach Village. In Strathmere, the pounding surf rendered five homes "unsafe". In Sea Isle City, the north end dunes were breached. There were no dunes at all left between First and Twelfth Streets. All but one cross town road was impassable. County Route 619 was clogged with sand and water and the pavement was broken near Whale Beach. The strong winds also uprooted numerous red cedar trees. In Avalon, the beach erosion left 10 foot cliffs. The reopening of the Townsends Inlet Beach damaged during the previous northeaster was postponed until this northeaster passed. In North Wildwood, 300 homes and businesses were damaged by the wind and tidal flooding. The Hereford Inlet Bulkhead was destroyed. In West Wildwood, chest high water around Maple Avenue forced the evacuation of about thirty persons. Countless road and commercial signs were blown down by the wind. Three bulkheads were also destroyed with pilings strewn across the streets and sidewalks. Seaweed was left on fences by the receding tides and boats were tossed into neighbor's yards. In Cape May City, back bay flooding was reported. At Cape May Point, severe beach erosion was reported. There was



# Storm Data and Unusual Weather Phenomena

February 1998

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

## NEW JERSEY, South and Northwest

flooding in the eastern parts of town and this was exacerbated by the heavy rain that caused the overflow of Lily Lake and the Lighthouse Pond. In West Cape May, the Cape Island Creek overflowed and numerous trees and power lines were knocked down.

Atlantic County suffered an estimated 3.9 million dollars in damage. Twenty-two persons from Brigantine and Atlantic City were sheltered. Throughout the county one home and one business suffered major damage, 93 other dwellings and businesses suffered minor damage while tidal flooding affected but caused little damage to 219 others. Brigantine suffered substantial flooding and beach erosion, especially at the north end of the island. About 75 percent of its sand was carried away. Within Atlantic City, the 84 residents of the Oceanside Nursing Home were removed to 14 other nursing homes on the mainland. The boardwalk was ripped at New Hampshire Avenue. All access roads into the city were closed on the morning of the 5th, except for the Atlantic City Expressway. The worst tidal flooding occurred in the back bay with much of Venice Park, the Chelsea Bay Front and Chelsea Heights inundated. Dozens of parked cars had water up to their doors. The beach was described as "destroyed" in Margate. In Longport, the ocean met the bay from 11th through 24th Streets. The erosion caused vertical cliffs of 4 to 5 feet and streets had to be cleared of debris. The mainland was not spared in the county as the heavy rain caused basement flooding in the Donald J. Adams School in Northfield and trees were uprooted in Linwood.

In Ocean County, damage was estimated at 9 million dollars, mostly due to beach erosion. Thirty five persons were evacuated, most from the Tuckerton Beach section of Tuckerton. Long Beach Island was harder hit than the northern barrier islands. Nevertheless, the beaches from Point Pleasant to Island Beach State Park suffered moderate to severe erosion. In Bay Head, the remnants of its old boardwalk were uncovered. The borough lost 10 feet of dunes and 125 feet of beach at its south end. Ortley Beach's dune line was flattened. The pounding surf washed away marker number 6 on the rocks of the north monument at Barnegat Light. Bay flooding forced the closure of several roads in Barnegat Township. In Harvey Cedars, the erosion was worse at the south end of the municipality where the surf exposed the gravel base. The handicap ramp at 80th Street ended with a six foot vertical drop. There were even larger cliffs at Ship bottom, which reached around 10 feet at 14th Street. In addition, the wind damaged the windows and shingles. In Stafford Township, both Mallard and Cedar Bonnet Islands were badly flooded. Long Beach Boulevard was closed in Long Beach Township from Ship Bottom to 95th Street. Brant Beach suffered the worst erosion in the county as the ocean broke through in two places. The handicap ramp was washed away. One house was evacuated because of a downed pole. The erosion also exposed the home's gas and water lines. Farther south in Beach Haven, a breach occurred at Dolphin Avenue. An emergency call for 19 loads of dirt filled the breach and saved a home. Most of the dune fencing was lost and thirty homes along the oceanfront were left vulnerable to the next storm. In the bay, 12 families were evacuated from the Tuckerton Beach Section around Green Street during the early morning of the 5th. Their homes looked like islands. In Little Egg Township, on Mystic Islands, Twin Lakes Boulevard and several side streets were flooded and impassable. The winds caused the most problems on mainland Ocean County as downed trees were reported in Brick, Jackson and Ocean Counties.

In Monmouth County, damage was estimated at \$500,000 dollars as the county was spared by the eastward movement of the northeaster off of Cape Hatteras. The continuous onshore flow caused moderate to severe beach erosion. Two to four feet of beach were lost in most areas. At Sandy Hook about 80 percent of the new sand placed in a replenishment project was lost as several hundred feet of beach disappeared. Both Bradley Beach and Ocean Grove were hard hit by erosion. The waves washed sand onto Ocean Avenue in Bradley Beach. New Jersey State Route 36 was flooded in Sea Bright. In Raritan Bay, tidal flooding caused road closures in Middletown Township. The strong winds caused power to be lost by 3,000 homes and businesses along the northern New Jersey Coast.

The early morning high tide on the 5th contained the highest tides. These included (all above mean low water): 10.0 feet at West Wildwood, Wildwood and Wildwood Crest, 9.8 feet in Ocean City, 9.7 feet in Avalon, 9.6 feet in Sea Isle City, 9.5 feet in North Wildwood, 9.0 feet in Absecon, 8.5 feet in Longport, 8.4 feet at the Cape May Ferry Terminal (3.5 feet above normal), 8.0 feet in Ventnor, 7.9 feet at Sandy Hook (3.2 feet above normal) and 7.8 feet in Atlantic City (3.9 feet above normal).

Strongest wind gusts included 74 mph in Seaside Park, 73 mph in West Wildwood, 68 mph in Brighton Beach, 65 mph in Harvey Cedars, 59 mph at nine miles southwest of Millville, 58 mph at the Marina within Atlantic City, 55 mph in Estell Manor, 52 mph at the Atlantic City International Airport and Ocean Grove and 50 mph in Toms River. Storm rainfall totals included 2.44 inches at the Marina within Atlantic City, 2.28 inches in Cape May City, 2.06 inches in Matawan and 1.88 inches in Harvey Cedars.

The storm system developed in the middle of the Gulf of Mexico during the night of February 1st and moved northeast. At 7 a.m. EST on the 3rd it was centered near Appalachicola, Florida and at 7 a.m. EST on the 4th it was located near Charlestown, South Carolina. From there it continued to move northeast and intensify and was just east of Cape Hatteras at 7 p.m. EST on the 4th. The strongest winds and the heaviest rain occurred from the afternoon on the 4th through the early morning hours on the 5th. The northeaster took a more easterly track overnight on the 4th and by 7 a.m. EST on the 5th was located about 175 miles southeast of Atlantic City. This spared the north end of New Jersey from further damage. The storm then accelerated and was well east of the Delmarva Peninsula the morning of the 6th. A second storm developed in the Gulf of Mexico the morning of the 6th. This storm moved east and not northeast off the South Carolina coast on the 7th and 8th. This spared the region further damage, but the northeast flow around this second storm kept an onshore flow. While moderate or greater tidal flooding ended with the morning high tide on the 6th, minor tidal flooding continued through the morning high tide on the 9th.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed    Injured		Estimated Damage Property    Crops		Character of Storm
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## **NEW JERSEY, South and Northwest**

**NJZ009>010-012-015>019**      **Hunterdon - Somerset - Middlesex - Mercer - Salem - Gloucester - Camden - Burlington**

<b>04</b>	1600EST				<b>0</b>	<b>0</b>			<b>Wind</b>
<b>05</b>	1600EST								

**NJZ018>019**      **Camden - Burlington**

<b>06</b>	0800EST				<b>0</b>	<b>0</b>			<b>Tidal Flooding</b>
	1200EST								

The strongest northeaster of the winter battered coastal New Jersey and brought strong winds farther west across the state. The strongest winds occurred from the afternoon on the 4th through the afternoon on the 5th and peaked within a few hours of midnight on each side. The strongest wind gusts were between 40 and 50 mph in most areas. The combination of the strong winds and rain, knocked over some weak trees throughout the region and caused scattered power outages. Downed trees and power outages were reported in Deptford Township (Gloucester County), Medford Township (Burlington County), Oldmans and Quinton Townships (Salem County) and Winslow Township (Camden County). Storm totals averaged around one inch and this caused some minor flooding along the Pennsauken Creek in Cinnaminson (Burlington County). The rain across the Delaware Basin and the higher than normal tides funneling up the Delaware River caused some minor tidal flooding along the Delaware River and tidal sections of its tributaries on the 6th in Camden and Burlington Counties. The Riverside Bridge in Delanco was closed to traffic the morning of the 6th.

**NJZ001-007>008**      **Sussex - Warren - Morris**

<b>04</b>	1800EST				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
<b>05</b>	1500EST								

The strongest northeaster of the winter battered coastal areas and caused a prolong period of snow, sleet and freezing rain across Northwest New Jersey. The storm system developed in the middle of the Gulf of Mexico during the night of February 1st and moved northeast. At 7 a.m. EST on the 3rd it was centered near Appalachicola, Florida and at 7 a.m. EST on the 4th it was located near Charlestown, South Carolina. From there it continued to move northeast and intensify and was just east of Cape Hatteras at 7 p.m. EST on the 4th. The northeaster took a more easterly track overnight on the 4th and by 7 a.m. EST on the 5th was located about 175 miles southeast of Atlantic City. The storm then accelerated and was well east of the Delmarva Peninsula the morning of the 6th.

Precipitation started as snow during the early evening of the 4th and changed over to rain as warmer air moved into higher levels of the atmosphere. Unfortunately the northeast winds circulating around this storm trapped cold air in the valleys of Sussex, Warren and Morris Counties and caused precipitation to fall as mainly freezing rain throughout the night of the 4th into the morning of the 5th. Precipitation changed back to snow before it ended the afternoon of the 5th. Around an inch water equivalent of precipitation fell, most as freezing rain in the valleys. Snowfall accumulations averaged around two inches mainly in Sussex County. GPU reported 12,500 customers lost power the night of the 4th and the morning of the 5th. Five thousand were in Sussex County. The last two thousand to get power restored the evening of the 5th were in Mount Olive and Roxbury Townships in Morris County as numerous wires were knocked down.

**NJZ014-024>026**      **Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

<b>17</b>	1200EST				<b>0</b>	<b>0</b>			<b>Wind</b>
	1900EST								

The difference in surface pressure between a strong high pressure system over Maine and a low pressure system over North Carolina produced strong gusty winds mainly during the afternoon of the 17th along the New Jersey Coast. The strongest wind gusts were around 50 mph. No significant damage or injuries were reported.

**NJZ001**      **Sussex**

<b>17</b>	1400EST				<b>0</b>	<b>0</b>	<b>0</b>		<b>Freezing Rain</b>
	2359EST								

A low pressure system over the Lower Tennessee Valley the morning of the 16th pushed moisture over a dome of cold dry air near the surface provided by a high pressure system over the New England and Middle Atlantic States on the 17th. Precipitation began as light freezing rain in the valleys of Sussex County during the afternoon of the 17th. As the low reached the Middle Atlantic Coast late on the 17th, enough warm air moved into the region by midnight to lift temperatures above the freezing mark throughout the county and make the precipitation fall as plain rain. Before then about one tenth of an inch of freezing rain fell in some of the deeper valleys and made driving hazardous on untreated roadways.

**NJZ014-024>026**      **Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

<b>17</b>	2200EST				<b>0</b>	<b>0</b>			<b>Coastal Flooding</b>
<b>18</b>	0200EST								

A low pressure system moved from coastal North Carolina the morning of the 17th to about 150 miles east of Manasquan Inlet, New Jersey the morning of the 18th. A strong high pressure system was anchored over Maine and the Canadian Maritimes at the same time. The difference in surface pressure between them produced strong gusty winds mainly during the afternoon of the 17th. This also prevented the tide from receding during the low tide cycle around 6 p.m. EST. Winds diminished by the time of the late evening/early morning tide on the 17th and 18th. Nevertheless, the onshore flow helped produce some minor tidal flooding. The onshore winds lasted only one tide cycle and the astronomical tides were low. Thus, in spite of tidal departures of about 3 feet above normal, tidal flooding was only at the low end of the minor range. No serious damage was reported.

# Storm Data and Unusual Weather Phenomena

February 1998

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

### **Gloucester County**

#### **Clarksboro**

<b>18</b>	<b>1000EST</b>				<b>0</b>	<b>0</b>	<b>0</b>		<b>Hail (1.50)</b>
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Ping pong ball size hail was reported in Clarksboro in Gloucester County. There were several other reports of smaller hail in western Gloucester County including within Swedesboro.

### **Camden County**

#### **Camden**

<b>18</b>	<b>1025EST</b>				<b>0</b>	<b>0</b>	<b>0</b>		<b>Hail (1.50)</b>
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Ping pong ball size hail was reported in Camden by a SKYWARN Spotter as he was entering the Walt Whitman Bridge on his way to Philadelphia. Pea size hail was reported elsewhere in the city of Camden and marble size hail was reported in Moorestown in neighboring Burlington County.

### **Atlantic County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Burlington County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Camden County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Cape May County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Cumberland County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Gloucester County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Hunterdon County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Mercer County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Middlesex County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Monmouth County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Morris County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Ocean County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Salem County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Somerset County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### **Warren County**

#### **Countywide**

<b>23</b>	<b>1300EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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Another northeaster brought heavy rain and strong winds to New Jersey on the 23rd and 24th. The heaviest rain fell across coastal areas. Rain overspread the state during the morning and early afternoon on the 23rd and became heavy during the afternoon and early evening in the southern part of the state and the late afternoon into the evening in the northern part of the state. The rain lingered well into the 24th, but was not as heavy. While the heavy rain caused the usual urban and poor drainage flooding and some isolated flooding along the North Branch of the Rancocas Creek, no serious flooding was reported.

# Storm Data and Unusual Weather Phenomena

February 1998

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

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

Storm totals included 3.85 inches in Harvey Cedars (Ocean County), 3.23 inches at the Marina in Atlantic City, 2.91 inches in Brick Township (Ocean County), 2.90 inches in Absecon (Atlantic County), 2.77 inches at the Atlantic City International Airport, 2.66 inches in Estell Manor (Atlantic County), 2.60 inches in Middletown Township (Monmouth County), 2.24 inches in Iselin (Middlesex County), 2.20 inches in Cape May Courthouse, 2.18 inches in Sandy Hook (Monmouth County), 2.09 inches in Chatham (Morris County), 2.04 inches in Princeton (Mercer County), 2.01 inches in Washington's Crossing (Mercer County) and Stewartville (Warren County), 1.97 inches in New Brunswick (Middlesex County), 1.87 inches in Atsion (Burlington County), 1.94 inches in Piney Hollow (Gloucester County), 1.83 inches in Millville (Cumberland County), 1.74 inches in Mount Holly (Burlington County), 1.67 inches in Boonton (Morris County), 1.60 in Somerdale (Camden County), 1.58 inches in Flemington (Hunterdon County) and Pottersville (Somerset County), 1.31 inches in Verga (Gloucester County). The counterclockwise circulation around the northeaster produced wind gusts as strong as 40 to 45 over inland locations, but much stronger gusts near the coast. Please refer to the separate wind and coastal flooding entry for the New Jersey Shore on this storm.

The northeaster responsible for this wet weather was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach, South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

**NJZ001**

### **Sussex**

<b>23</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
<b>24</b>	<b>2200EST</b>			

Another winter storm brought a mixture of snow, sleet and freezing rain to Sussex County. Precipitation type was elevation dependent with the heaviest snow in the hills of the county and the most freezing rain in the valleys. Precipitation started as rain and snow around 6 p.m. EST on the 23rd. Northeast winds circulating around the intensifying northeaster brought colder air into the county from upstate New York. Therefore, precipitation fell as freezing rain throughout most of the night in the county and also in adjacent sections of northern Warren and Morris Counties. As colder air moved in aloft during the day on the 24th, precipitation changed back to snow, especially over the higher terrain. The snow ended the evening of the 24th. Accumulations were elevation dependent and included 6.5 inches in High Point, 5.9 inches in Highland Lake and 2.5 inches in Wantage. Ice accretions were highest in the valleys and averaged around half an inch. Untreated roadways were very treacherous.

The northeaster responsible for this winter storm was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

**NJZ013-020-022>025**

### **Western Monmouth - Western Ocean - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic**

<b>23</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>Wind</b>
<b>24</b>	<b>0600EST</b>			

**NJZ014-026**

### **Eastern Monmouth - Eastern Ocean**

<b>23</b>	<b>1800EST</b>	<b>0</b>	<b>0</b>	<b>High Wind (G58)</b>
<b>24</b>	<b>0600EST</b>			

**NJZ014-024>026**

### **Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

<b>24</b>	<b>0330EST</b>	<b>0</b>	<b>0</b>	<b>Coastal Flooding</b>
	<b>0830EST</b>			

Another strong northeaster brought very strong winds and coastal flooding to the New Jersey Shore. The northeaster responsible for this was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach, South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th. Very strong winds buffeted the shore from the late afternoon on the 23rd through the early morning on the 24th.

There was also minor to moderate coastal flooding around the time of high tide during the morning of the 24th. But, unlike the previous northeasters, the worst conditions affected Monmouth County. Tidal departures averaged around 3 feet above normal. In Monmouth County, a breach in the sea wall occurred in Allenhurst Borough. Flooding forced the closure of New Jersey State Routes 35 and 36 in Keyport, Ocean Avenue in Sea Bright and the entrance road to Sandy Hook. Several roads were closed along the bay side of Sea Bright. In Ocean County, the pounding surf ate away at the dune line in Bay Head and ate away much of the sand that was replaced at the foot of the 48th street beach in Brant Beach. Some back bay flooding was also reported in Ocean City in Cape May County. Wind gusts reached as strong as 67 mph in Seaside Park (Ocean County), 64 mph in Harvey Cedars (Ocean County), 61 mph in Ocean Grove (Monmouth County) and 47 mph at both the Marina and the International Airport in Atlantic City.



# Storm Data and Unusual Weather Phenomena

February 1998

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

## NEW YORK, Central

**NYZ009-017>018-023>025-036>037-044>046-055>057-062**     **Northern Oneida - Southern Cayuga - Onondaga - Schuyler - Chemung - Tompkins - Madison - Southern Oneida - Cortland - Chenango - Otsego - Tioga - Broome - Delaware - Sullivan**

<b>24</b>	<b>0100EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
<b>25</b>	<b>0200EST</b>							

A powerful storm system moved from the Tennessee Valley to the Delmarva coast. Once there, the storm intensified rapidly as it only gradually moved further offshore. The combination of cold air in place, a deep easterly flow of Atlantic moisture, and intense upper level energy produced widespread heavy snow across central New York.

Snow began falling just after midnight on the 24th. It quickly became heavy as it persisted through the day, not tapering off until early in the morning on the 25th. A relatively narrow band of very heavy snow set up during the morning of the 24th from sections of the Mohawk Valley southward across Chenango and eastern Broome counties. By the time the storm wound down, snowfall tallies of 20 to 30 inches were common in this corridor. The highest official total was 30 inches in Conklin Forks in southern Broome county. Several reports of near 30 inch totals were also received from higher elevation sections of Chenango county. The heavy wet nature of the snow also brought down numerous power lines that resulted in widespread outages. In some more isolated locations, power was not restored for 3 to 4 days.

Across much of the remainder of central New York, 10 to 20 inch amounts were common. From valley sections of Sullivan county into southern Delaware county, somewhat lesser amounts of 4 to 12 inches were recorded. Several hours of sleet and freezing rain mixed in across these locations, helping to keep snowfall accumulations down. The higher elevations in this region saw amounts approaching a foot. This included such places as Dale Mountain in Sullivan county and Stamford in Delaware county.

## NEW YORK, Coastal

**NYZ071>072**     **Southern Westchester - New York (Manhattan)**

<b>04</b>	<b>2250EST</b>			<b>0</b>	<b>1</b>			<b>High Wind (G50)</b>
	<b>2300EST</b>							

A Nor'Easter produced strong and gusty northeast winds that caused bricks to blow off a building in the upper-west side of Manhattan. High winds also downed a large tree that took down power lines in the town of Greenburgh.

**NYZ074-077-077-080-080>081-081**     **Richmond (Staten Is.) - Nassau - Southwest Suffolk - Southeast Suffolk**

<b>05</b>	<b>0100EST</b>			<b>0</b>	<b>0</b>	<b>750K</b>		<b>Coastal Flood</b>
<b>06</b>	<b>0600EST</b>							

A low pressure system formed in the Gulf Of Mexico during Monday, February 2nd. As it moved slowly northeast, it developed into a Nor'Easter, which passed off the Mid-Atlantic Coast (south of the region) during Thursday, February 5th.

The Nor'Easter caused strong gusty northeast winds, high seas, heavy surf, moderate beach erosion, and minor to moderate coastal flooding for three successive high tides starting with the early morning high tides on February 5th.

During the first high tides, water inundated streets, yards, and basements in Oakwood Beach and Crescent Beach in Staten Island. Water also inundated streets in Mastic Beach (Southeast Suffolk) and in Freeport and Massapequa (Nassau County).

Up to 1 foot of water inundated Woodcleft Ave. in Freeport (Nassau) and in several streets in Babylon (Southwest Suffolk) during the afternoon high tides on February 5th.

On February 6th, a state of emergency was declared in Ocean Beach (Southwest Suffolk) as half of the community was under two feet of water. Seven separate areas on Fire Island also saw significant washovers. Major beach erosion occurred at Smith Point County Park. The most significant damage occurred in Southampton, where a \$750k home was completely destroyed.

**Suffolk County  
Ridge**

<b>12</b>	<b>0750EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Lightning</b>
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**Suffolk County  
Southold**

<b>12</b>	<b>0821EST</b>			<b>0</b>	<b>0</b>			<b>Lightning</b>
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Showers and thunderstorms developed ahead of an approaching warm front.

Lightning caused significant structural damage to a house at 59 Giant Oak Road in Ridge. According to the Ridge Fire Department, lightning struck the house. Two-by-fours in the roof exploded and struck and punctured the house next to the one that caught fire. The second floor of this two-story Cape Cod was totally destroyed.

Lightning also struck a house on Bay Haven Road in Southold. It gouged a hole at the base of a tree and carved a furrow across the



# Storm Data and Unusual Weather Phenomena

February 1998

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

From February 23 through 25, a winter storm tracked from the South Carolina coast to the Cape Cod area. This storm dumped heavy snow across the eastern Catskills, eastern Mohawk Valley, southern Adirondacks, Washington County and eastern Rensselaer County. The greatest snow totals occurred in the higher elevations of the Catskills and in the eastern Mohawk Valley. In southern Herkimer County, snow laden trees fell onto power lines and cut power to approximately 500 customers. Across the rest of eastern New York, snow totals were less because accumulations were elevation dependent. In the lower elevations the snow frequently mixed with rain and sleet which reduced the snowfall totals to the 2 to 4 inch range. Some specific snowfall totals included: 16 inches at Berne in Albany County, 19 inches at East Jewitt in western Greene County, 16 inches at Indian Lake in Hamilton County, 20 inches at Chepachet in southern Herkimer County, 18 inches at North Blenheim in Schoharie County, 25 inches at Slide Mountain in western Ulster County, 9 inches at North Creek at Warren County and 9 inches at Whitehall in Washington County.

## NEW YORK, North

### **NYZ027>031-034>035 Northern Franklin - Northeast Clinton - Southern St. Lawrence - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex**

<b>24</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>	<b>50K</b>	<b>Winter Storm</b>
<b>25</b>	<b>1400EST</b>				

A storm system along the Virginia coast early Tuesday morning (February 24) moved northeast along the New Jersey coast during Tuesday to a position off the southern New England coast Tuesday night (February 24) before moving slowly east.

Snow spread across the region Tuesday afternoon and became heavy Tuesday night. A number of traffic accidents were reported. The snow tapered off to light snow or flurries by or during Wednesday afternoon (February 25). Snow accumulations were generally 8 to 15 inches across this area. A few specific snowfall reports from these areas were:

Peru	(Clinton county).....	15.2 inches
Ellenburg Depot	(Clinton county).....	15.0 inches
Lake Placid	(Essex county).....	13.5 inches
Malone	(Franklin county).....	8.5 inches
Tupper Lake	(Franklin county).....	9.0 inches
Wanakana	(St Lawrence county)....	10.0 inches.

### **NYZ026**

#### **Northern St. Lawrence**

<b>24</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>	<b>Light Snow</b>
<b>25</b>	<b>1000EST</b>			

A storm system along the Virginia coast early Tuesday morning (February 24) moved northeast along the New Jersey coast during Tuesday to a position off the southern New England coast Tuesday night (February 24) before moving slowly east.

Snow spread across the region Tuesday afternoon and Tuesday night mixing with rain at times on Wednesday (February 25) before ending. Snow accumulations were generally 4 to 6 inches across this area.

## NEW YORK, West

### **NYZ006>008**

#### **Oswego - Jefferson - Lewis**

<b>24</b>	<b>2110EST</b>	<b>0</b>	<b>0</b>	<b>45K</b>	<b>Heavy Snow</b>
	<b>2300EST</b>				

A slow moving coastal storm off the New England coast brought heavy, wet snow to the eastern Lake Ontario region. Specific snow measurements included: in Oswego County 16 inches at West Monroe, 12 inches at Hastings, 10 inches at Redfield, and 8 to 12 inches at Oswego; in Lewis County 22 inches at Montague, 14 inches at Castorland; 12 inches in Highmarket and Lowville and 10 inches at Barnes Corners; and in Jefferson County 8 inches at Watertown.

## NORTH CAROLINA, Central

### **Alamance County**

<b>Burlington</b>	<b>03</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>04</b>	<b>2300EST</b>			

### **Anson County**

<b>Wadesboro</b>	<b>03</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>04</b>	<b>2300EST</b>			

### **Chatham County**

<b>Siler City</b>	<b>03</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>04</b>	<b>2300EST</b>			

### **Cumberland County**

<b>Fayetteville</b>	<b>03</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>04</b>	<b>2300EST</b>			

### **Davidson County**

<b>Lexington</b>	<b>03</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>04</b>	<b>2300EST</b>			



# Storm Data and Unusual Weather Phenomena

February 1998

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, Central</u></b>									
<b>Durham County</b>									
Durham	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Edgecombe County</b>									
Tarboro	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Forsyth County</b>									
Kernersville	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Franklin County</b>									
Louisburg	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Granville County</b>									
Oxford	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Guilford County</b>									
Greensboro	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Halifax County</b>									
Halifax	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Harnett County</b>									
Lillington	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Hoke County</b>									
Raeford	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Johnston County</b>									
Smithfield	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Lee County</b>									
Sanford	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Montgomery County</b>									
Troy	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Moore County</b>									
Robbins	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Nash County</b>									
Red Oak	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Orange County</b>									
Hillsborough	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Person County</b>									
Roxboro	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Randolph County</b>									
Asheboro	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Richmond County</b>									
Rockingham	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Sampson County</b>									
Clinton	03	1200EST			0	0			Heavy Rain
	04	2300EST							
<b>Scotland County</b>									
Laurinburg	03	1200EST			0	0			Heavy Rain
	04	2300EST							



# Storm Data and Unusual Weather Phenomena

February 1998

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, Central</u></b>									
<b>Anson County</b>									
Ansonville	16	1200EST			0	0			Heavy Rain
<b>Chatham County</b>									
Pittsboro	16	1200EST			0	0			Heavy Rain
<b>Cumberland County</b>									
Fayetteville	16	1200EST			0	0			Heavy Rain
<b>Durham County</b>									
Durham	16	1200EST			0	0			Heavy Rain
<b>Edgecombe County</b>									
Tarboro	16	1200EST			0	0			Heavy Rain
<b>Franklin County</b>									
Franklinton	16	1200EST			0	0			Heavy Rain
<b>Halifax County</b>									
Scotland Neck	16	1200EST			0	0			Heavy Rain
<b>Harnett County</b>									
Angier	16	1200EST			0	0			Heavy Rain
<b>Hoke County</b>									
Raeford	16	1200EST			0	0			Heavy Rain
<b>Johnston County</b>									
Clayton	16	1200EST			0	0			Heavy Rain
<b>Lee County</b>									
Sanford	16	1200EST			0	0			Heavy Rain
<b>Montgomery County</b>									
Candor	16	1200EST			0	0			Heavy Rain
<b>Moore County</b>									
Aberdeen	16	1200EST			0	0			Heavy Rain
<b>Nash County</b>									
Nashville	16	1200EST			0	0			Heavy Rain
<b>Orange County</b>									
Chapel Hill	16	1200EST			0	0			Heavy Rain
<b>Randolph County</b>									
Seagrove	16	1200EST			0	0			Heavy Rain
<b>Richmond County</b>									
Ellerbe	16	1200EST			0	0			Heavy Rain
<b>Sampson County</b>									
Roseboro	16	1200EST			0	0			Heavy Rain
<b>Scotland County</b>									
Gibson	16	1200EST			0	0			Heavy Rain
<b>Wake County</b>									
Raleigh	16 17	1200EST 1800EST			0	0			Heavy Rain
<b>Warren County</b>									
Warrenton	16	1200EST			0	0			Heavy Rain
<b>Wayne County</b>									
Goldsboro	16	1200EST			0	0			Heavy Rain
<b>Wilson County</b>									
Wilson	16	1200EST			0	0			Heavy Rain

The second heavy rain event of the month began during the early afternoon hours on the 16th and continue through the morning on the 17th. Storm totals were greatest just to the south and east of a line extending from Wadesboro to Greensboro to Oxford. Storm totals included nearly 4.0 inches at Clinton, 3.5 inches at Goldsboro, 2.7 inches at Raleigh/Durham, 2.5 inches at Fort Bragg, and 1.7 inches at Greensboro and Roxboro.

Flooding of low-lying and flood prone areas was significant again. "The News and Observer" of Raleigh reported that flooding in the Triangle area was the worst since Hurricane Fran in 1996. Some of the counties hardest hit included Orange, Durham, Wake, Sampson, Wayne, Edgecombe, Halifax, and Moore. In Durham county, officials declared a State of Emergency due to flooding of creeks and streams and the Eno River. Numerous roads were closed on the 17th due to high water and water flowing across them. In Orange county, Chapel Hill police evacuated the Camelot Village Apartments after a nearby creek overflowed flooding the lower

# Storm Data and Unusual Weather Phenomena

February 1998

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

## NORTH CAROLINA, Central

level. Numerous roads and streets were also closed. In Wake county, Atlantic Avenue had to be closed due to high water from Crabtree Creek. In Wayne and Sampson counties, numerous roads were also closed.

Winds gusted to 52 mph at Goldsboro during the storm and to 35 mph across much of central North Carolina. Several thousand people lost power due to downed trees and power lines mainly south and east of the Triangle and Fayetteville areas.

**NCZ007>011-021>028-038>043-073>078-083>086-088>089**

**Person - Granville - Vance - Warrren - Halifax - Forsyth - Guilford - Alamance - Orange - Durham - Franklin - Nash - Edgecombe - Davidson - Randolph - Chatham - Wake - Johnston - Wilson - Stanly - Montgomery - Moore - Lee - Harnett - Wayne - Anson - Richmond - Scotland - Hoke - Cumberland - Sampson**

**16 2200EST 0 0 High Wind (G52)**

Strong winds with gusts to 35 mph were common across central North Carolina during the night of the 16th and into the morning hours of the 17th. The strongest gust was recorded at Goldsboro (52 mph). Several trees were downed in almost all of the counties in central North Carolina from Winston-Salem to Raleigh/Durham to Goldsboro and Rocky Mount. A combination of the wind and very soggy soils led to many of the trees to fall. Several homes were damaged in Sampson, Wayne, Wake, and Cumberland counties.

**NCZ073>074**

**Stanly - Montgomery**

**17 0600EST 0 0 Flood**  
**1500EST**

The Rocky River at Norwood crested at 7.0 feet above flood stage during February 17th.

**Stanly County  
Albemarle**

**17 0615EST 0 0 Flash Flood**  
**0815EST**

Heavy rain led to Flash Flooding in numerous areas of the county. Numerous rural roads had to be closed. Street flooding also occurred in New London, Richfield, and Albemarle.

**Montgomery County  
Biscoe to  
Candor**

**17 0630EST 0 0 Flash Flood**  
**0755EST**

Flash Flooding was reported throughout Montgomery county. Many roads were closed due to high water including portions of NC-73 near Norwood.

**Moore County  
Cameron to  
Southern Pines**

**17 0640EST 0 0 Flash Flood**  
**0840EST**

Flash Flooding was reported throughout many rural areas of Moore county. Heavy rain on already saturated ground led to high water across many rural roads.

**Randolph County  
Seagrove**

**17 0645EST 0 0 Flash Flood**  
**0755EST**

Flash Flooding occurred mainly in the southern sections of Randolph county around the Seagrove area. NC-705 was reported flooded with some lane closures near the Moore county line. Other rural roads were closed due to flooding. Streams and creeks were reported out of their banks from near Denton to near Seagrove.

**NCZ040**

**Chatham**

**18 0700EST 0 0 Flood**  
**22 1800EST**

Significant flooding occurred along the Haw River in Alamance and Chatham counties during the heavy rain event of February 17-18. The crests reached 4.0 feet above flood stage at the gauge at Haw River on the 17th and 5.0 feet above flood stage at Bynum on the 18th.

**NCZ077**

**Harnett**

**18 1200EST 0 0 Flood**  
**22 1500EST**

The Cape Fear River Basin had significant flooding for the second time in February during the week of February 18 through 22. The crests were recorded at 4.0 feet above flood stage at Fort Bragg and 2.5 feet above flood stage at Fayetteville on February 18-19.

## NORTH CAROLINA, Central Coastal

**NCZ029-044>047-080>081-090>095-098-103>104**

**Martin - Pitt - Washington - Tyrrell - Western Dare - Beaufort - Western Hyde - Duplin - Lenoir - Jones - Craven - Pamlico - Carteret - Onslow - Eastern Dare - Eastern Hyde**

**03 1200EST 0 0 22.2M Winter Storm**  
**06 1200EST**

An intense coastal low moved northeast along the immediate coastline producing strong winds and heavy rain across the region. Seas of 14 to 16 feet ate away at the beaches from Topsail Island to the Outer Banks. In Nags Head alone 18 houses were condemned and along the 11-mile stretch of shoreline an average of 45 feet of beach washed away. Three piers lost pilings and

# Storm Data and Unusual Weather Phenomena

February 1998

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

planks and one house fell into the ocean. Damage was estimated at \$21.8 million. On the Bogue Banks 15 to 20 feet of dunes washed away destroying beach access walkways. Dune lines were breached in North Topsail threatening a stretch of condominiums. The storm brought 3-5 inches of rain further aggravating already swollen rivers and streams. The Neuse in Kinston rose to 19.5 feet, 5.5 feet above flood stage and the Tar at Greenville crested over 18 feet. In both cases there was lowland flooding and some secondary roads were impassable. Floodwaters made their way into Belhaven's Town Hall in Beaufort County and other buildings on Main Street. Flooding also occurred in the Whichard's Beach Road area near Washington. N.C. Route 12 on Ocracoke Island was washed over and much of the dune structure on the northern end of the island was washed away.

**NCZ029-044-044>046-080>081-091-091>092-094>095-098** **Martin - Pitt - Washington - Tyrrell - Beaufort - Western Hyde - Lenoir - Jones - Pamlico - Carteret - Onslow**

<b>17</b>	<b>0400EST</b>	<b>4</b>	<b>0</b>	<b>25K</b>	<b>Winter Storm</b>
<b>18</b>	<b>1000EST</b>				

The third coastal storm in less than 3 weeks struck mainly coastal areas from Onslow to Hyde County. Up to 5 inches of rain fell along the coast. Belhaven had almost three feet of water standing in low-lying streets and City Hall was flooded. A marina in Swan Quarter was flooded. Large areas of flooding occurred in the Southwest and Bear Creek areas of Onslow County leading to cancellation of school in the county. A 68-foot fishing vessel sank off Cape Lookout with the loss of 4 crewmen. M?BO, M?BO, M?BO, M?BO

### **Carteret County**

<b>Atlantic</b>	<b>17 0830EST</b>	<b>0</b>	<b>0</b>	<b>25K</b>	<b>Waterspout</b>
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Waterspout came ashore and destroyed a trailer.

## NORTH CAROLINA, Extreme Southwest

### **Cherokee County**

<b>Murphy</b>	<b>17 0835EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Tstm Wind/Hail</b>
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Thunderstorm winds damaged a building in the Murphy area.

### **Cherokee County**

<b>Marble</b>	<b>17 0840EST</b>	<b>0</b>	<b>0</b>		<b>Hail (1.00)</b>
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## NORTH CAROLINA, North Coastal

### **Bertie County**

<b>Windsor</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Camden County**

<b>Camden</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Chowan County**

<b>Edenton</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Currituck County**

<b>Currituck</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Gates County**

<b>Gates</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Hertford County**

<b>Ahoskie</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Northampton County**

<b>Jackson</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Pasquotank County**

<b>Elizabeth City</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

### **Perquimans County**

<b>Hertford</b>	<b>04 0000EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06 1200EST</b>				

A Nor'easter produced heavy rain and strong winds across northeast North Carolina from Tuesday, February 3rd through Thursday, February 5th. Rainfall totals generally ranged from 2 to 4 inches across most of the region, with the heaviest amounts (in the 5 to 7.5 inch range) occurring over portions of Currituck county. Heavy rain caused some urban flood/poor drainage flood problems with a few roads closed due to high water.

# Storm Data and Unusual Weather Phenomena

February 1998

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

**NCZ001-018**     **Ashe - Watauga**  
**03**     **1700EST**     **0**     **0**     **25K**     **Heavy Snow**  
**04**     **0015EST**  
 Rain changed to heavy snow during the evening hours on the 3rd and continued to around midnight. Snowfall amounts were mainly around 4 inches before the precipitation changed back to rain.

The heavy wet snow from late January and the weight of the snow and rain from this storm resulted in the collapse of the roof of a Boone business. Hazardous road conditions resulted in several traffic accidents .

**NCZ005-018>019**     **Rockingham - Watauga - Wilkes**  
**04**     **0015EST**     **0**     **0**     **10K**     **High Wind**  
**0600EST**  
 High winds not associated with a thunderstorm combined with a saturated ground in Wilkes and Rockingham Counties resulted in wind damage in portions of North Carolina.

High winds knocked down a barn near Boone in Watauga County, broke off several large tree limbs mainly in the northern portion of Watauga County, and knocked down trees and broke off tree limbs in Wilkes and Rockingham Counties.

**NCZ003**     **Surry**  
**17**     **0300EST**     **0**     **0**     **15K**     **High Wind**  
**0600EST**  
 High winds on the 17th tore the roof off a barn near Level Cross in Surry County.

**Caswell County**  
**2 E Yanceyville**     **17**     **1230EST**     **0**     **0**     **Urban/Sml Stream Fld**  
 Heavy rain resulted in Country Line Creek flooding and the closing of route 158 about 2 miles east of Yanceyville.

**NCZ006**     **Caswell**  
**17**     **2100EST**     **0**     **0**     **Flood**  
**18**     **2200EST**  
 Heavy rainfall on the 16th and during the morning and afternoon hours on the 17th resulted in minor flooding on the Dan River in Caswell County.

**NCZ001>002**     **Ashe - Alleghany**  
**24**     **0730EST**     **0**     **0**     **25K**     **High Wind**  
**1000EST**  
 High winds not associated with a thunderstorm ripped a roof off a building and toppled several trees in Glade Valley in Alleghany County and knocked down trees and produced minor damage to homes in Idlewild in Ashe County.

**NCZ003-019**     **Surry - Wilkes**  
**24**     **0800EST**     **0**     **0**     **10K**     **High Wind**  
**2000EST**  
 High winds on the 24th knocked down trees in Surry and Wilkes Counties and destroyed a horse barn in Mulberry in Wilkes County. In Wilkes County, there were scattered power outages and some chicken houses were damaged.

## NORTH CAROLINA, South Coastal

**Brunswick County**  
**Caswell Beach to Calabash**     **03**     **1130EST**     **0**     **0**     **Storm Surge**  
**04**     **0130EST**  
 A nor'easter caused heavy surf and high tides 2 feet above normal, eroding 4 feet of dune and undermining homes along Caswell Beach. 400 Christmas trees used for erosion control were lost there. At Sunset Beach, the high tide forced closure of the swing bridge.

**New Hanover County**  
**Wrightsville Beach to Kure Beach**     **03**     **1130EST**     **0**     **0**     **Storm Surge**  
**04**     **0130EST**  
 A nor'easter caused heavy surf and high tides 2 feet above normal, eroding dunes 4 feet and causing overwash at the north end of Carolina Beach, as Canal Drive flooded due to high water.

**Pender County**  
**Surf City to Topsail**     **03**     **1130EST**     **0**     **0**     **Storm Surge**  
**04**     **0130EST**  
 A nor'easter caused heavy surf and high tides two feet higher than normal, causing 4 feet of dune erosion and minor overwash.

**Brunswick County**  
**Calabash to Leland**     **03**     **1930EST**     **0**     **0**     **Flash Flood**  
**2215EST**  
 Heavy afternoon and evening rains measured 3-4 inches, mainly in the western half of the county, causing ditches to flood over roadways.

# Storm Data and Unusual Weather Phenomena

February 1998

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, South Coastal</u></b>									
<b>Columbus County</b>									
Tabor City to Whiteville	03	1930EST 2200EST			0	0			Flash Flood
									Heavy afternoon and evening rains measured around 3 inches caused flooding of ditches and ponding of water across roads in the western half of the county.
<b>Robeson County</b>									
Rowland to Lumberton	03	1930EST 2200EST			0	0			Flash Flood
									Heavy afternoon and evening rains measuring 3-4 inches caused flooding of roads in the Southeast part of the county.
<b>Bladen County</b>									
Bladenboro to White Lake	03	1945EST 2215EST			0	0			Flash Flood
									Heavy afternoon and evening rains measured 3-4 inches, with the heaviest accumulation in the southeast area, causing flooding of ditches and extensive standing water.
<b>New Hanover County</b>									
Carolina Beach to Castle Hayne	03	1945EST 2215EST			0	0			Flash Flood
									Heavy afternoon and evening rains measured 3-4 inches, setting record for a February day at Wilmington airport. Extensive ponding of water occurred, and Carolina Beach Lake overflowed.
<b>Pender County</b>									
Burgaw to Surf City	03	1945EST 2215EST			0	0			Flash Flood
									Heavy afternoon and evening rains measured 3-4 inches and flooded many roads, as well as houses near NC53 East of Burgaw. Afternoon and evening rains measured 2.5 to 3.5 inches, causing extensive ponding of water on roads across county.
<b>Brunswick County</b>									
Calabash to Leland	17	0530EST 1000EST			0	0			Flash Flood
									Described as Roads Flooded Like Never Before, rainfall 3-5 inches in the early morning caused many roads to flood.
<b>Columbus County</b>									
Cerro Gordo to Delco	17	0530EST 1000EST			0	0			Flash Flood
									Rainfall measured 3-5 inches during the early morning hours, resulting in widespread road closures due to flooding.
<b>New Hanover County</b>									
Castle Hayne to Kure Beach	17	0530EST 1000EST			0	0			Flash Flood
									Rainfall measured 3-5 inches during the early morning hours caused widespread flooding, forcing delayed school openings, causing Carolina Beach Lake to flood into the neighborhood, and caused massive traffic delays across the county.
<b>Pender County</b>									
Burgaw to Surf City	17	0530EST 1000EST			0	0			Flash Flood
									Rainfall measured 2.5-4 inches during the early morning hours, causing widespread ponding of water on roads.
<b><u>NORTH CAROLINA, Southwest</u></b>									
<b>NCZ033-049-055</b>	<b>Avery - Yancey - Burke</b>								
	03	0000EST 2030EST			0	0			Heavy Snow
<b>NCZ048-050-052&gt;053-064&gt;065</b>	<b>Madison - Mitchell - Haywood - Buncombe - Transylvania - Henderson</b>								
	03	0000EST 1800EST			0	0			Snow
<b>Buncombe County</b>									
Candler	03	0500EST			0	0	20K		Heavy Rain
<b>Henderson County</b>									
Countywide	03 04	1200EST 0300EST			0	0			Flood
<b>NCZ036-049-052&gt;053-059-063-067</b>	<b>Iredell - Yancey - Haywood - Buncombe - Northern Jackson - Southern Jackson - Rutherford</b>								
	03	1200EST 1800EST			0	0	100.0K		High Wind

# Storm Data and Unusual Weather Phenomena

February 1998

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>									
<b>Haywood County</b>									
Countywide	03	1628EST			0	0			Flood
	04	0300EST							
<b>Polk County</b>									
Countywide	03	1745EST			0	0			Flood
	04	0300EST							
<b>Mitchell County</b>									
Countywide	03	1900EST			0	0			Flood
	04	0300EST							
<b>Transylvania County</b>									
Countywide	03	1900EST			0	0			Flood
	04	0300EST							
<b>Henderson County</b>									
Fletcher	03	2100EST			0	0			Flood
	04	0300EST							
<p>A strong slow-moving winter storm moved from the Gulf of Mexico north through the Carolinas on the 3rd and 4th, bringing with it heavy rain, snow and high winds. Snow accumulated between 1 and 3 inches across the higher elevations of the mountains by early afternoon on the 3rd. Newland, Beech Mountain and Jonas Ridge had 4 inches of snow by early evening. Mount Mitchell ended up with 20 inches of snow. Roads were icy across the higher elevations and contributed to some wrecks. Heavy rain in Candler early in the morning caused a mobile home to collapse, destroying its contents. Flooding developed across portions of the mountains during the afternoon as creeks overflowed, covering roads in many areas. High gradient winds between strong high pressure in the upper Midwest and the passing strong low pressure combined with wet ground conditions to down numerous trees and power lines. Power outages and blocked roads were common into the evening hours. A building collapsed in Statesville due to the wind.</p>									
<b>NCZ033-050</b>									
<b>Avery - Mitchell</b>									
	06	0100EST			0	0			Freezing Rain
		0900EST							
<p>Freezing rain fell during the early morning hours, causing icy roads.</p>									
<b>NCZ033-049&gt;050</b>									
<b>Avery - Yancey - Mitchell</b>									
	16	0400EST			0	0			Snow/Sleet
		1000EST							
<p>A mixture of snow and sleet fell across the northern mountains during the early morning and accumulated between 1 and 2 inches. One inch of ice developed on roads in Yancey county.</p>									
<b>McDowell County</b>									
Old Ft	16	1015EST			0	0			Rock Slide
<p>A sudden rock slide induced by heavy rain closed 2 lanes of Interstate 40 for some time.</p>									
<b>Iredell County</b>									
Statesville	17	0400EST			0	0	2K		Thunderstorm Wind (G50)
<b>Rowan County</b>									
5 E Salisbury	17	0530EST			0	0	10K		Thunderstorm Wind (G50)
<b>Henderson County</b>									
Hendersonville	17	1000EST			0	0			Flood
		1400EST							
<b>Avery County</b>									
Countywide	17	1015EST			0	0			Flood
		1315EST							
<b>Mitchell County</b>									
Countywide	17	1015EST			0	0			Flood
		1315EST							
<b>Yancey County</b>									
2 W Bee Log	17	1100EST			0	0	15K		Thunderstorm Wind (G50)
<b>Graham County</b>									
Robbinsville	17	1315EST			0	0			Hail (0.75)
<b>Iredell County</b>									
Statesville	17	1435EST			0	0	2.5K		Thunderstorm Wind (G50)

Intense low pressure moving north through the Tennessee Valley brought heavy rain and severe weather to western North Carolina. During the pre-dawn hours, severe thunderstorms developed along a stationary boundary in the piedmont, producing damaging winds. Power poles and trees were blown down in Statesville. Trees were blown down just east of Salisbury, some on homes and a shed was destroyed. Flooding developed due to persistent heavy rain by mid-morning across a few mountain counties. Small streams came out of their banks, covering several roads and bridges. Isolated severe thunderstorms returned in the late morning and early afternoon along and ahead of a cold front. Damaging thunderstorm winds destroyed a garage and peeled a tin roof of a mobile



# Storm Data and Unusual Weather Phenomena

February 1998

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, Southwest

home in western Yancey county. A stand of baseball lights was blown down in Statesville.

<b>NCZ049</b>	<b>Yancey</b>								
	23	0300EST			0	0			<b>Heavy Snow</b>
		1900EST							

<b>NCZ033-049&gt;050-067</b>	<b>Avery - Yancey - Mitchell - Rutherford</b>								
	23	1900EST			0	0			<b>High Wind (G50)</b>
	24	0400EST							

High gradient winds on the backside of a strong storm system exiting the mid-Atlantic coast blew down numerous trees and power lines. Heavy snow fell at the highest elevations of Yancey county during the day, totalling 13 inches on Mt. Mitchell by early evening.

<b>NCZ034&gt;037-054&gt;057-066&gt;072-082</b>	<b>Caldwell - Alexander - Iredell - Davie - McDowell - Burke - Catawba - Rowan - Polk - Rutherford - Cleveland - Lincoln - Gaston - Mecklenburg - Cabarrus - Union</b>								
	24	0900EST			0	0	20K		<b>High Wind (G50)</b>
		1700EST							

High gradient winds in the wake of an exiting strong storm system combining with saturated soil conditions to blow down some trees and power lines across the foothills and piedmont. Some trees fell on structures and a steeple was blown off a church in Casar (Cleveland county).

## NORTH DAKOTA, Central and West

<b>NDZ001&gt;005-009&gt;013-017&gt;021-031&gt;034-040-042&gt;045</b>	<b>Divide - Burke - Renville - Bottineau - Rolette - Williams - Mountrail - Ward - Mchenry - Pierce - Mckenzie - Dunn - Mercer - Oliver - Mclean - Golden Valley - Billings - Stark - Morton - Slope - Grant - Bowman - Adams - Sioux</b>								
	25	1600CST			0	5	200K		<b>Blizzard</b>
	28	2300CST							

The first major winter storm to hit North Dakota in the 97/98 winter season waited until the last few days of February. A Colorado low pressure system brought a three day blizzard to western and north central North Dakota. Five injuries were reported and all were due to vehicular accidents in blowing snow and poor visibilities. Icy power lines combined with wind gusts over 45 mph dropped power poles in many counties. Numerous power outages were reported from Dickinson to Williston to Minot to Bottineau, especially in rural areas. One estimate had 3,500 rural electric customers without power at one time. Some areas near Newtown, Sherwood, Mohall and Landsford were without power for 70 hours. The strong winds caused 20 foot snow drifts in Beach which stranded 200 truck drivers and numerous other travellers. Interstates and highways were blocked due to snow and low visibilities. An estimated 100 people had to be rescued by emergency response officials during the storm. Blizzard warnings were in effect for 60 hours. Most schools and businesses were closed during this storm. The highest snowfall report was 29 inches in Westhope, other reports included 23 inches in Minot, 18 inches in Williston, and 15 inches in Dickinson. Lightning was reported with the snow in Minot on Wednesday, February 25.

## NORTH DAKOTA, East

<b>NDZ006&gt;008-014&gt;016-024-026&gt;030-038</b>	<b>Towner - Cavalier - Pembina - Benson - Ramsey - Walsh - Eddy - Nelson - Grand Forks - Griggs - Steele - Traill - Barnes</b>								
	27	1530CST			0	0			<b>Winter Storm</b>
	28	0500CST							

A very strong low pressure system travelled across Minnesota, bringing rain and snow to eastern North Dakota. Temperatures started out in the 30s, much above average for February, with dew points in the 20s. As the low tracked across Minnesota, the storm began with thunder and lightning. Echoes on radar almost seemed more like those seen in the summer months. As the cold air dropped south from Canada into northeast North Dakota, the rain changed to snow. 5 inches fell across most of northeast North Dakota. Strong winds picked up across the Devils Lake area, prompting law enforcement officials to close US Highway 2 west of Devils Lake.

## OHIO, East

NONE REPORTED.

## OHIO, North

<b>Erie County Sandusky</b>	04	1000EST			0	0	75K		<b>Storm Surge</b>
	05	0500EST							
<b>Lucas County Toledo</b>	04	1000EST			0	0	75K		<b>Storm Surge</b>
	05	0500EST							
<b>Ottawa County Port Clinton</b>	04	1000EST			0	0	75K		<b>Storm Surge</b>
	05	0500EST							

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>OHIO, North</b>									
Northeast winds up to 35 miles per hour caused flooding of the immediate lakeshore and beach erosion.									
<b>Henry County North Portion</b>	17	1530EST 1840EST			0	0			Flood
<b>Lucas County Countywide</b>	17	1530EST 1830EST			0	0	70K		Flood
<b>Fulton County Countywide</b>	17	1540EST 1645EST			0	0			Flood
<b>Ottawa County Oak Harbor</b>	17	1600EST 2000EST			0	0			Flood
<b>Wood County Central Portion</b>	17	1630EST 1840EST			0	0			Flood
Heavy thunderstorm rain caused flooding of roads, basements and low lying areas. Basement flooding was particularly prevalent in Point Place near Toledo in Lucas County.									
<b>Erie County Sandusky</b>	17 18	1600EST 0200EST			0	0	500K		Storm Surge
<b>Lucas County Toledo</b>	17 18	1600EST 0200EST			0	0	100K		Storm Surge
<b>Ottawa County Port Clinton</b>	17 18	1600EST 0200EST			0	0	100K		Storm Surge
Northeast winds up to 40 miles per hour increased the water level at the Toledo Coast Guard Station (Lucas County) to around seven feet above low water datum. Waves of seven to ten feet caused major flooding and beach erosion along the western shoreline of Lake Erie, particularly at Crystal Rock and Whites Landing (Erie), where homes and yards were flooded.									
<b>Henry County North Portion</b>	17	1840EST 2000EST			0	0			Flood
Heavy thunderstorm rain caused flooding of Route 110 and low lying areas.									
<b>OHZ009</b>		<b>Erie</b>							
	17 19	2030EST 1030EST			0	0			Flood
The Huron River at Milan exceeded its flood stage of 14 feet and crested at 16.5 feet on 02/18/98 at 0515 EST. There was flooding of lagoon communities from Milan to near Huron with some cottages and homes completely surrounded by flood waters.									
<b>OHZ008</b>		<b>Sandusky</b>							
	18 20	0045EST 1330EST			0	0			Flood
The Portage River at Woodville exceeded its flood stage of nine feet and crested at 12.4 feet on 02/19/98 at 0637 EST. Flood water s affected residents along Riverside Drive and the eastern end of Erie Street.									
<b>OHZ003</b>		<b>Lucas</b>							
	18 21	1000EST 0815EST			0	0			Flood
The Maumee River at Waterville exceeded its flood stage of nine feet and crested at 10.5 feet on 02/19/98 at 0700 EST. Flooding was confined to low lying areas.									
<b>OHZ036</b>		<b>Marion</b>							
	20	0545EST 2330EST			0	0			Flood
The Scioto River at Prospect exceeded its flood stage of nine feet and crested at 9.2 feet on 02/20/98 at 1500 EST. Flooding was confined mainly to low lying areas including Highway 203 north of Water Street and along Elm Street.									
<b>Huron County North Fairfield</b>	28	1800EST			0	0			Hail (0.75)
<b>Marion County Green Camp</b>	28	2000EST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

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

## OHIO, North

**Marion County**  
Caledonia

28	2030EST 2050EST				0	0			Hail (0.75)
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**Morrow County**  
Iberia

28	2030EST 2050EST				0	0			Hail (0.75)
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Large hail fell for up to 20 minutes and covered the ground at Caledonia and Iberia. Also, at Fulton in Morrow County, large hail (0.75") fell for 10 minutes.

## OHIO, Northwest

NONE REPORTED.

## OHIO, Southeast

**OHZ075-083>087**

**Athens - Jackson - Vinton - Meigs - Gallia - Lawrence**

03	2200EST				0	0	250K		Winter Storm
06	0700EST								

A slow moving coastal storm and a prolong period of easterly wind aloft, resulted in several periods of snow, sleet, and freezing rain. The deepest snow cover over southeast Ohio was in Lawrence, Gallia, Jackson, and Vinton Counties. On the 6th, Ironton had 9 inches on the ground, South Point and Waterloo had 7 inches, Patriot of Gallia County had 8 inches, the city of Jackson had 5 inches, while McArthur had 4 to 5 inches. No old snow was on the ground prior to the storm. A roof to a South Point home caved in, due to the weight of the snow.

More sleet than snow fell further to the northeast, resulting in 1 to 3 inches of snow and ice over Meigs and Athens Counties.

**Lawrence County**  
Coal Grove

17	1333EST				0	0	2K		Thunderstorm Wind
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**Gallia County**  
Rio Grande

17	1355EST				0	0	3K		Thunderstorm Wind
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Wind gusts were estimated at 60 mph.

**Gallia County**  
Morgan Center

17	1400EST				0	0	2K		Thunderstorm Wind
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Several large tree branches were blown down.

**Vinton County**  
2 E Prattsville

17	1440EST				0	0	2K		Thunderstorm Wind
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Trees were knocked across County Route 29.

## OHIO, Southwest

**OHZ063-070>073-077>082-088**

**Fayette - Butler - Warren - Clinton - Ross - Hamilton - Clermont - Brown - Highland - Adams - Pike - Scioto**

03	2300EST				0	0			Winter Storm
05	2200EST								

A powerful East coast storm brought significant moisture west of the Appalachians and by the time it was over, from 8 to 24 inches of snow had accumulated over southern Ohio. The Cincinnati-Northern Kentucky airport received 18.5 inches for the storm total, which set a record amount for any snowstorm in Cincinnati history. Numerous traffic accidents occurred as the snow fell too quickly for road crews to keep the roads clear.

**Scioto County**  
Bloom Jct

18	1340EST 1345EST				0	0	2K		Thunderstorm Wind (G50)
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Several trees downed.

## OKLAHOMA, Eastern

**Pittsburg County**  
Savanna

25	1912CST				0	0			Hail (0.75)
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**Pittsburg County**  
Blocker

25	1955CST				0	0	0.10K		Thunderstorm Wind
----	---------	--	--	--	---	---	-------	--	-------------------

Tree blown down in Blocker

**Choctaw County**  
Boswell

25	2050CST				0	0			Hail (0.75)
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**Le Flore County**  
Muse

25	2255CST				0	0			Hail (0.88)
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# Storm Data and Unusual Weather Phenomena

February 1998

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

A line of thunderstorms, some containing dime to nickel-sized hail, and strong thunderstorm winds, developed over southeast and eastcentral Oklahoma on the evening of Feb. 25. Most severe reports came from southeast Oklahoma between 7:00 and 9:00 pm, although an isolated severe thunderstorm with nickel hail occurred shortly before 11:00 pm near Muse in LeFlore County.

The thunderstorms formed in an unseasonably warm and moist air mass along a pre-frontal trough as an upper level disturbance in southwest flow aloft passed overhead.

<b>Sequoyah County</b> Sallisaw	26	1510CST			0	0			<b>Hail (0.88)</b>
<b>Sequoyah County</b> 2 E Sallisaw	26	1515CST			0	0			<b>Hail (0.88)</b>
Nickel-size hail along I-40 east of Sallisaw									
<b>Le Flore County</b> 2 N Pocola	26	1553CST			0	0			<b>Hail (0.75)</b>
<b>Latimer County</b> 3 S Red Oak	26	1640CST			0	0			<b>Hail (0.75)</b>
<b>Le Flore County</b> Le Flore	26	1703CST			0	0			<b>Hail (0.75)</b>
<b>Le Flore County</b> 2 E Howe	26	1800CST			0	0			<b>Hail (0.75)</b>
<b>Le Flore County</b> 1 N Heavener	26	2000CST			0	0			<b>Hail (0.75)</b>

Severe thunderstorms containing dime to nickel-sized hail developed over far eastern Oklahoma between 3:00 and 4:00 pm on Feb. 26. These thunderstorms moved eastward into Arkansas by 4:00 pm. Another severe thunderstorm producing dime-sized hail developed over eastern Latimer County around 4:30 pm and moved eastward to the Arkansas state line through 6:15 pm. Finally, an isolated severe thunderstorm produced dime-sized hail in Heavener around 8:00 pm.

These thunderstorms developed in advance of a cold front moving into unseasonably warm and moist air. A large-scale upper level trough moving into the plains also helped to increase instability.

## OKLAHOMA, Extreme Southeast

NONE REPORTED.

## OKLAHOMA, Panhandle

NONE REPORTED.

## OKLAHOMA, Western, Central and Southeast

<b>OKZ021-033&gt;034-036</b>	<b>Beckham - Harmon - Greer - Jackson</b>								
	04	2300CST			0	0			<b>Heavy Snow</b>
	05	1300CST							

Rain changed to snow across portions of western Oklahoma and western north Texas late in the evening of February 4th, then moderate to heavy snow lasted through midday of the 5th. Snow accumulations of 2 to 3 inches were reported across far southwestern Oklahoma from Beckham County south across Greer, Jackson, and Harmon Counties in Oklahoma and across the Red River into Hardeman and Foard Counties in Texas. The heaviest snow was reported in Harmon County, where Hollis measured 4 inches.

<b>Carter County</b> 5 NW Ardmore	25	1533CST			0	0			<b>Hail (0.88)</b>
<b>Carter County</b> Gene Autry	25	1545CST			0	0			<b>Hail (0.88)</b>
<b>Carter County</b> 3 N Springer	25	1550CST			0	0			<b>Hail (0.88)</b>
<b>Love County</b> 6 W Marietta	25	1610CST			0	0			<b>Hail (0.88)</b>
<b>Pontotoc County</b> 6 W Stonewall	25	1619CST			0	0			<b>Hail (0.88)</b>
<b>Pontotoc County</b> 8 S Ada	25	1623CST			0	0			<b>Hail (0.88)</b>

# Storm Data and Unusual Weather Phenomena

February 1998

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>Pontotoc County</b>									
7 SE Ada	25	1625CST			0	0			Hail (0.75)
<b>Carter County</b>									
4 W Ardmore	25	1635CST 1650CST			0	0			Hail (0.75)
<b>Johnston County</b>									
Mannsville	25	1705CST			0	0	3K		Thunderstorm Wind
Severe thunderstorm winds blew the roof off a hog barn.									
<b>Hughes County</b>									
Calvin	25	1710CST			0	0			Hail (0.75)
<b>Pontotoc County</b>									
Stonewall	25	1710CST			0	0			Hail (1.75)
<b>Coal County</b>									
Coalgate	25	1755CST			0	0			Hail (0.75)
<b>Hughes County</b>									
3 E Citra	25	1800CST			0	0			Hail (0.75)
<b>Johnston County</b>									
Bromide	25	1803CST			0	0			Hail (0.75)
<b>Coal County</b>									
2 E Clarita	25	1807CST			0	0			Hail (0.75)
<b>Coal County</b>									
Coalgate	25	1845CST			0	0			Hail (0.75)
<b>Atoka County</b>									
Wardville	25	1850CST			0	0			Hail (0.75)
<b>Atoka County</b>									
Wardville	25	2000CST			0	0			Hail (0.75)
<b>Bryan County</b>									
Yuba	25	2032CST			0	0			Hail (0.75)

Summary of events of February 25, 1998:

Severe thunderstorms developed along a cold front and moved across south-central and southeastern Oklahoma during the late afternoon and early evening hours of the 25th. Numerous reports of 3/4-inch to nickel-sized hail were received. An isolated report of golf ball hail came from Stonewall in Pontotoc County. In Mannsville (Johnston County) severe thunderstorm winds unroofed a barn. See preceding individual Storm Data entries for further information and additional reports.

## OREGON, Central and East

<b>ORZ019</b>	<b>Northeast Oregon</b>								
	08	1300PST			0	0			Avalanche
A man was thrown down a mountainside and temporarily buried by an avalanche while snowmobiling in the Wallowa Mountains near Fish Lake, about fifteen miles north of Halfway. He was able to free all but one leg that was trapped under his machine. His friends came back and were able to free him. He was not hurt.									
<b>ORZ019</b>	<b>Northeast Oregon</b>								
	14	2300PST			0	0			Heavy Snow
	15	0700PST							
A weather spotter 17 miles southeast of Heppner reported close to six inches of snowfall overnight.									
<b>ORZ014</b>	<b>Central Oregon</b>								
	20	1900PST			0	0			Heavy Snow
	21	0800PST							
Up to a foot of snow fell overnight in an area from south of La Pine to north of Bend. Snow drifts up to two and a half feet were also reported.									
<b>ORZ019</b>	<b>Northeast Oregon</b>								
	25	1000PST 1830PST			0	0			Winter Storm
Three to four inches of snow fell during the day.									

## OREGON, Northwest

<b>ORZ002</b>	<b>Central Coast</b>								
	06	1200PST 1700PST			0	0			High Wind (G60)
The first significant Pacific storm of the month caused winds of 46 mph gusting to 69 mph at Sea Lion Caves and 55 mph gusting to									

# Storm Data and Unusual Weather Phenomena

February 1998

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

67 mph at Florence.

<b>ORZ002</b>	<b>Central Coast</b>	<b>07 1200PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G52)</b>
		<b>08 2100PST</b>							

Winds of 43 mph with gusts to 60 mph were reported at Florence.

<b>ORZ002</b>	<b>Central Coast</b>	<b>10 0600PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G58)</b>
		<b>1100PST</b>							

Sustained Winds of 44 mph with gusts to 67 mph were reported at Sea Lion Caves as another Pacific storm struck the Central Oregon Coast.

<b>ORZ001&gt;002</b>	<b>Northern Coast - Central Coast</b>	<b>12 0800PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G66)</b>
		<b>1200PST</b>							

A strong Pacific storm caused high winds along the Northern and Central Oregon Coast. On the North coast wind gusts to 69 mph were reported at Netarts and 66 mph at Cannon Beach, and along the Central Coast reported winds were 53 mph gusting to 76 mph at Florence and 54 mph gusting to 69 mph at Sea Lion Caves.

<b>ORZ001&gt;002</b>	<b>Northern Coast - Central Coast</b>	<b>20 1500PST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G68)</b>
		<b>2000PST</b>							

The last strong windstorm of the month caused sustained winds of 45 mph gusting to 78 mph at Netarts on the North Coast and 49 mph gusting to 64 mph at Sea Lion Caves on the Central Coast.

<b>ORZ011</b>	<b>Northern Cascades</b>	<b>20 2200PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>21 2300PST</b>							

A strong storm with low snow levels dumped heavy snow on the Cascades. Reported snowfall totals from this storm included 27 inches at Mt Hood Meadows, 24 inches at Santiam Pass, and 16 inches at Timberline Lodge and Mt Bachelor.

<b>ORZ011</b>	<b>Northern Cascades</b>	<b>26 0000PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>2000PST</b>							

The last significant storm of the month dropped 15 inches of new snow at Timberline Lodge and Government Camp on Mt Hood and 10 inches at Mt Hood Meadows and Bennett Pass.

## OREGON, Southeast

<b>ORZ022</b>	<b>Southeast Oregon</b>	<b>14 0400PST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
		<b>1300PST</b>							

A localized winter storm dumped 8 to 12 inches of snow around Burns, Oregon.

## OREGON, Southwest

<b>ORZ003-007&gt;008-012-015</b>	<b>Southern Coast - Umpqua Basin - Rogue Basin - Southern Cascades And Siskiyou Mountains - South Central Oregon</b>	<b>05 2329PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind</b>
		<b>06 1600PST</b>							

A deep surface low travelled northward off of the Oregon coast creating a strong south-southeast pressure gradient. Sustained winds of 20 to 40 mph with gusts of 50 to 70 mph were reported across Southwest and South Central Oregon. This resulted in a few downed trees and power lines. Minor structural damage was reported in Grants Pass with a small section of a roof blown off. The highest reported gusts was reported along the coast at Cape Blanco with 81 mph. Other gusts include: 60 mph at Chiloquin, 65 mph Mt. Ashland Ski Lodge, 55 mph at Onion Mtn., 55 mph at Red Mound, 49 mph at NWSO MFR, 55 mph at Brookings, 50 mph at Bandon, 52 mph at North Bend and 44 mph at Talent. Approximately 2200 homes and businesses lost power in Jackson Co.

<b>Curry County Port Orford</b>		<b>07 0000PST</b>			<b>0</b>	<b>0</b>	<b>300K</b>		<b>Storm Surge</b>
		<b>2300PST</b>							

Unusually heavy surf battered the coast washing away part of Port Orford's sewage treatment system and threatened the town's water supply. Dune that separates the ocean from Garrison Lake (Port Orford's water supply) was eroded allowing some salt water to spill into the lake.

<b>ORZ003-008-012</b>	<b>Southern Coast - Rogue Basin - Southern Cascades And Siskiyou Mountains</b>	<b>07 0800PST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind</b>
		<b>2300PST</b>							

A series of incoming low pressure systems sustained tight south-southeast pressure gradients. High wind gusts were localized but were as high as 70 mph in Ashland where trees and power lines were downed. A roof was also reported to have blown off of a

# Storm Data and Unusual Weather Phenomena

February 1998

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

house. The highest gusts was 81 mph at Cape Blanco. Wind gusts include: 50 mph at Talent, 63 mph at Ashland airport, 62 mph at Buckhorn Mtn, 55 mph at Brookings, 47 mph at NWSO MFR, 43 mph at Brookings. 1500 homes and businesses in Ashland lost power.

<b>ORZ003</b>	<b>Southern Coast</b>							
	<b>10</b>	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind</b>
		<b>2200PST</b>						

Winds ahead of the next Pacific storm system produced wind gusts of 83 mph at Cape Blanco and 54 mph at Bandon.

<b>ORZ003-008</b>	<b>Southern Coast - Rogue Basin</b>							
	<b>12</b>	<b>0600PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind</b>
		<b>2300PST</b>						

Next in series of Pacific low pressure systems produced 35 to 50 mph over the South Oregon Coast and portions of the southwest Oregon interior. Winds gusts reached 86 mph at Cape Blanco. Other gusts include: 67 mph at Port Orford, 49 mph at Brookings, 64 mph at Onion Mtn., 60 mph at Mt. Sexton, 40 mph at NWSO MFR. Thunderstorms with up 1/2 inch hail were reported at Sixes and Gold Beach.

<b>ORZ003</b>	<b>Southern Coast</b>							
	<b>13</b>	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind</b>
		<b>2000PST</b>						

Series of systems continued to bring strong winds to the coast with gusts to 86 mph at Cape Blanco.

<b>ORZ012</b>	<b>Southern Cascades And Siskiyou Mountains</b>							
	<b>13</b>	<b>1800PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
	<b>14</b>	<b>0800PST</b>						

9 inches of snow past 24 hrs. at Crater Lake.

<b>ORZ003</b>	<b>Southern Coast</b>							
	<b>18</b>	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind</b>
		<b>2200PST</b>						

Frontal system produced south winds of 30 to 50 mph along the coast. Winds gusted up to 79 mph at Cape Blanco, 53 mph at Bandon. Siding was reported to have been blown off a motel Port Orford.

<b>ORZ012</b>	<b>Southern Cascades And Siskiyou Mountains</b>							
	<b>19</b>	<b>1500PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>Heavy Snow</b>
		<b>2300PST</b>						

Northerly flow behind exiting front brought heavy orographic snow across the Siskiyou. 6 inches of snow fell on Siskiyou summit (I-5) between 630 and 1030 pm resulting in numerous accidents and two tractor-trailors jackknifed. I-5 was closed during the evening.

<b>ORZ003-007&gt;008-012-015</b>	<b>Southern Coast - Umpqua Basin - Rogue Basin - Southern Cascades And Siskiyou Mountains - South Central Oregon</b>							
	<b>20</b>	<b>1200PST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>Winter Storm</b>
	<b>21</b>	<b>2000PST</b>						

A strong slow moving frontal system supported by a 150 to 170 kt jet brought strong winds, heavy rain and snow, and small stream flooding to Southwest Oregon. Winds ahead of the front ranged between 30 to 60 mph but gusted up 98 mph on the coast. Reports include: Port Orford 62 mph, Bandon 75 mph, Phoenix 45 mph, Onion Mtn. 70 mph, North Bend 56 mph, Gold Beach 98 mph, Cape Blanco 98 mph, Cape Ferrelo 70 mph.

As the frontal band moved to the California border late on the 20th the winds subsided but precipitation dramatically increased resulting in impressive mountain snow and urban and small stream flooding in some valleys. 1 to 3 inches of rain most of which fell in a 8 hr. period overnight and early the 22nd resulted in minor flooding of roads including highway 99, Biddle rd. and W. Main St. in Medford, Other flooded roads in Jackson county included Highway 238 in the Oak Grove Area, Agate Rd in the upper Applegate area, and Candas Dr. in Eagle Point where water was up to doorways. Numerous streets and areas of low lying flooding in Josephine Co. Minor flooding in Douglas Co. mainly along Deer Creek where some apartments were threatened.

Impressive snowfall amounts fell in the mountains with 2 to 3 feet falling in the Southern Oregon Cascades and Siskiyou in a 12 hr. period while lighter accumulations fell as low as 1000 feet in Southwest Oregon. I-5 over Siskiyou Summit was closed for an extended period. Accumulations include: Mt. Ashland 30", Crater Lake 22", Siskiyou Summit 19", Hyatt Lake 13", Crescent 11", Chiloquin 6" Lower elevation snow between 1-3000 ft. included: Wimer 3" and Shady Cove 2".

## PACIFIC

<b>Guam</b>								
<b>Mangilao</b>	<b>01</b>	<b>0000HST</b>			<b>0</b>	<b>0</b>	<b>25K</b>	<b>Wild/Forest Fire</b>
	<b>28</b>	<b>2359HST</b>						

<b>GUZ001&gt;002-006</b>	<b>Belau - Micronesia - Guam</b>						
	<b>01</b>	<b>0000HST</b>			<b>0</b>	<b>0</b>	<b>Drought</b>
	<b>28</b>	<b>2359HST</b>					

# Storm Data and Unusual Weather Phenomena

February 1998

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

## PACIFIC

Drought conditions continue across the Western Pacific. The dry conditions have given rise to numerous fires across the island of Guam.

In Pohnpei, water must be shipped to the outer islands. Many wells on Pohnpei itself are dangerously low with increasing levels of salinity in them. Many rivers have also dried up and this has led to poor water quality across Pohnpei. This has resulted in an increase in illness due to an increase in bacteria and contaminants in the remaining water supplies. There also has been a few cases of Typhoid across Pohnpei. Plant and agricultural activities are being adversely affected due to a lack of adequate rainfall. There is also an increase in uncontrolled fires across Pohnpei. The Federated States of Micronesia has declared a State of Emergency for these drought related effects. In the Republic of Belau water rationing was begun with only water available from 2 to 10 pm.

## PENNSYLVANIA, Central

<b>PAZ033&gt;035</b>	<b>Somerset - Bedford - Fulton</b>								
	<b>04 1600EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>

<b>PAZ024&gt;025</b>	<b>Cambria - Blair</b>								
	<b>04 2200EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>

Deep low pressure system moved east across South Carolina with a strong easterly flow of moisture north across North Carolina, Virginia, and Pennsylvania into New York. Typical storm total precipitation across southern parts of Pennsylvania were in excess of an inch, with over 2 inches reported in Somerset and Bedford counties where the precipitation fell as snow. Heavy wet snow totaled up to 22 inches in Somerset County at Mount Davis, with 4 to 8 inch accumulations reported across the central mountains as far north as Altoona and 4 to 5 inches into Clearfield and State College. Some higher amounts included 16 inches at Buffalo Mills in Bedford County, 14 inches in Myersdale, Somerset County, and 11 inches at Laurel Summit in Cambria County. At lower elevations, amounts ranged from 4 to 8 inches, with 7 inches reported in Altoona and 6 inches in Johnstown. Across much of the Cumberland Valley from Greencastle northeast to Chambersburg and Carlisle, much of the precipitation fell as a mix of rain, sleet, and snow, but up to 5 inches of snow fell in the Shippensburg area.

<b>PAZ024-063</b>	<b>Cambria - Cumberland</b>								
	<b>17 1515EST</b>				<b>0</b>	<b>0</b>			<b>High Wind (G51)</b>
	<b>1700EST</b>								

Higher elevations of central Pennsylvania had reports of strong winds. Trees and powerlines were blown down in Westmont, Johnstown, and Carrolltown. A mobile home on Baltimore Road in Southampton Township of Cumberland County had a roof completely removed around 3:45 p.m. by the strong winds.

<b>Somerset County</b>									
<b>Davidsville</b>	<b>17 1735EST</b>				<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G51)</b>
	Trees were blown down by thunderstorm winds.								

<b>Lycoming County</b>									
<b>South Portion</b>	<b>18 0245EST</b>				<b>0</b>	<b>0</b>			<b>Flash Flood</b>
	<b>0500EST</b>								

<b>Union County</b>									
<b>Countywide</b>	<b>18 0300EST</b>				<b>0</b>	<b>0</b>			<b>Flash Flood</b>
	<b>0900EST</b>								

Rain of up to 2.5 inches fell across the area overnight, causing flooding of small streams and roads.

<b>PAZ006-011&gt;012-017-019-024-028-033-037-041&gt;042-049&gt;050-053-058</b>	<b>Potter - Cameron - Northern Clinton - Clearfield - Southern Centre - Cambria - Juniata - Somerset - Tioga - Northern Lycoming - Sullivan - Union - Snyder - Columbia - Schuylkill</b>								
	<b>23 0000EST</b>				<b>0</b>	<b>0</b>			<b>Heavy Snow</b>

Low pressure moved east along the Gulf Coast, then turned northeast across the Carolinas. A deep flow of moisture from the Atlantic spread westward into Pennsylvania. Snowfall was highly dependent on elevation with rain mixing with snow in the valleys and remaining all snow at higher elevations. Snowfall totals ranged from a couple inches in the valleys to close to 2 feet on the mountain tops, with 22 inches in Laporte in Sullivan County and 17 inches at Trough Creek in Huntingdon County. The heavy snow extended across the mountains extending southwest to northeast from the Maryland to New York borders. A line from Somerset to Wellsboro defined the western boundary and a line from South Mountain to Nordmont measured the eastern limits of the heavy snow. A little more than 6 inches also fell across the high elevations of Schuylkill County.

## PENNSYLVANIA, East

<b>PAZ067&gt;071</b>	<b>Chester - Montgomery - Bucks - Delaware - Philadelphia</b>								
	<b>04 1600EST</b>				<b>0</b>	<b>0</b>			<b>Wind</b>
	<b>05 1700EST</b>								

The strongest northeaster of the winter season for coastal areas brought strong winds into Southeastern Pennsylvania from the late afternoon of the 4th into the mid day hours on the 5th. The strongest winds occurred within a few hours of midnight on either side and were between 40 and 50 mph in most locations. The strongest wind gusts included 45 mph in Souderton (Montgomery County) and 44 mph at the Philadelphia International Airport.



# Storm Data and Unusual Weather Phenomena

February 1998

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

## PENNSYLVANIA, East

The storm system developed in the middle of the Gulf of Mexico during the night of February 1st and moved northeast. At 7 a.m. EST on the 3rd it was centered near Appalachicola, Florida and at 7 a.m. EST on the 4th it was located near Charlestown, South Carolina. From there it continued to move northeast and intensify and was just east of Cape Hatteras at 7 p.m. EST on the 4th. The northeaster took a more easterly track overnight on the 4th and by 7 a.m. EST on the 5th was located about 150 miles southeast of Indian River Inlet. The storm then accelerated and was well east of the Delmarva Peninsula the morning of the 6th.

**PAZ054>055-060>062**

### **Carbon - Monroe - Berks - Lehigh - Northampton**

<b>04</b>	<b>1700EST</b>	<b>0</b>	<b>0</b>	<b>Wintry Mix</b>
<b>05</b>	<b>0900EST</b>			

The fringe of the precipitation associated with the strongest northeaster of the winter affected the Poconos, Lehigh Valley and Berks County. In the Lehigh Valley and Berks County, precipitation fell mainly as a mixture of sleet and rain. Farther north across the Poconos, precipitation fell as a mixture of snow, sleet, freezing rain and rain. Precipitation fell as snow at both the beginning (late afternoon on the 4th) and end (morning of the 5th) of this event. Accumulations were generally between 1 and 3 inches. Untreated roads were slippery.

The storm system developed in the middle of the Gulf of Mexico during the night of February 1st and moved northeast. At 7 a.m. EST on the 3rd it was centered near Appalachicola, Florida and at 7 a.m. EST on the 4th it was located near Charlestown, South Carolina. From there it continued to move northeast and intensify and was just east of Cape Hatteras at 7 p.m. EST on the 4th. The northeaster took a more easterly track overnight on the 4th and by 7 a.m. EST on the 5th was located about 175 miles southeast of Atlantic City, New Jersey. This eastward turn took the heaviest precipitation and coldest air away from the region.

**PAZ054>055**

### **Carbon - Monroe**

<b>17</b>	<b>0000EST</b>	<b>0</b>	<b>0</b>	<b>Freezing Rain</b>
	<b>1000EST</b>			

A low pressure system over the lower Tennessee Valley the morning of the 16th pushed moisture over a dome of cold dry air near the surface provided by a high pressure system over the New England and Middle Atlantic States the night of the 16th. Precipitation began as light freezing rain in the valleys of Monroe and Carbon Counties around midnight. Only a few hundredths of an inch of freezing rain fell overnight, but that was more than enough to make untreated roadways slippery. Enough warm air moved into the Southern Poconos by the morning of the 17th to lift temperatures above the freezing mark and make the precipitation fall as plain rain.

## **Philadelphia County**

### **Philadelphia**

<b>18</b>	<b>1044EST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.88)</b>
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Nickel size hail fell in Juniata Park within Philadelphia. There were numerous other reports of smaller hail within the city including on Roosevelt Boulevard and in the Northeast and Fox Chase sections of the city. The hail fell for about 10 minutes in Fox Chase. Small hail (pea size) fell eastward into neighboring parts of lower Bucks County in Levittown and Langhorne.

## **Bucks County**

### **Countywide**

<b>23</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>2300EST</b>			

## **Chester County**

### **Countywide**

<b>23</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>2300EST</b>			

## **Delaware County**

### **Countywide**

<b>23</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>2300EST</b>			

## **Montgomery County**

### **Countywide**

<b>23</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>2300EST</b>			

## **Philadelphia County**

### **Countywide**

<b>23</b>	<b>1300EST</b>	<b>0</b>	<b>0</b>	<b>Heavy Rain</b>
	<b>2300EST</b>			

Another northeaster brought heavy rain and strong winds to Southeastern Pennsylvania on the 23rd and 24th. Rain overspread the region during the morning of the 23rd and became heavy during the afternoon and evening. While rain lingered well into the 24th, it was not as heavy. While the heavy rain caused the usual urban and poor drainage flooding, no other serious flooding was reported. Storm totals included 1.64 inches in Neshaminy Falls (Bucks County), 1.61 inches in New Hope (Bucks County), 1.60 inches in Crum Creek (Delaware County), 1.58 inches in Glenmoore (Chester County), 1.54 inches in Chadds Ford (Delaware County), 1.44 inches in Valley Forge (Montgomery County), 1.24 inches at the Franklin Institute in Philadelphia and 1.11 inches at the Philadelphia International Airport. The counterclockwise circulation around the northeaster produced wind gusts as strong as 40 to 45 mph during the afternoon and evening of the 23rd. The peak wind gust at the Philadelphia International Airport was 45 mph. No serious damage or injuries were reported.

The northeaster responsible for the wet weather was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach, South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

# Storm Data and Unusual Weather Phenomena

February 1998

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

<b>PAZ054</b>	<b>Carbon</b>								
	<b>23</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>			<b>Wintry Mix</b>
	<b>24</b>	<b>1900EST</b>							

<b>PAZ055</b>	<b>Monroe</b>								
	<b>23</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>24</b>	<b>1900EST</b>							

Another winter storm brought a mixture of snow, sleet and freezing rain to the southern Poconos, especially Monroe County. Precipitation type was elevation dependent with the heaviest snow in the higher terrain of Monroe County and a mixture of rain, freezing rain and sleet in the valleys. Precipitation started as rain in the valleys and snow over higher terrain around 6 p.m. EST on the 23rd. By 11 p.m. EST, snowfall accumulations over the higher terrain of Monroe County had reached 4 inches. Northeast winds circulating around the intensifying northeaster kept surface temperatures steady overnight as warmer air moved in aloft. This kept an elevation dependent mixture of precipitation. On the 24th, as the northeaster pulled away, precipitation changed back to sleet and snow before ending that evening. Accumulations were elevation dependent and included 9 inches in Long Pond, 5 inches in Tobyhanna but only around one inch in East Stroudsburg and Lehigh. Untreated roadways were very treacherous.

The northeaster responsible for this winter storm was located near New Orleans the morning of February 22th. It moved northeast and reached Myrtle Beach South Carolina the morning of February 23rd, was about 150 miles east of Atlantic City at daybreak on the 24th and moved to the Gulf of Maine the morning of the 25th.

**PAZ054>055-060>062-067>071** **Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia**

<b>25</b>	<b>0600EST</b>			<b>0</b>	<b>1</b>			<b>Wind</b>
	<b>1800EST</b>							

Strong northwest winds around the intense northeaster that brought heavy precipitation to Eastern Pennsylvania on the 23rd, buffeted the region during the daylight hours on the 25th. Peak wind gusts averaged around 50 mph. Most of the strongest gusts occurred within one or two hours of noon. One person was injured (cuts to the face) in Worcester Township in Montgomery County when a tree limb broke through the windshield of the vehicle she was driving. Elsewhere in Montgomery County, in Lower Merion Township a tree crushed an unoccupied vehicle. Service was suspended on the SEPTA R5 commuter rail Doylestown line after some overhead power lines were damaged. The recent heavy precipitation loosened the ground and caused some weak and shallow rooted trees and limbs to be knocked down throughout the area. This in turn took down power lines. In the PECO service area in and around Philadelphia about 29,100 homes and businesses lost power for up to two hours. Half of the outages occurred in Chester and Bucks Counties. Peak wind gusts included 53 mph at the Lehigh Valley International Airport, 52 mph in Reading, on Independence Mall in Philadelphia and in Abington (Montgomery County), 50 mph in Tobyhanna (Monroe County) and 46 mph at the Philadelphia International Airport.

**PAZ054>055-060>062-067>071** **Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia**

<b>28</b>	<b>2359EST</b>			<b>0</b>	<b>0</b>			<b>Unseasonably Warm</b>
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Continuing a trend that lasted the whole winter, February 1998 was unseasonably warm across Southeastern Pennsylvania and the Poconos and ranked within the ten warmest Februaries on record. At the Lehigh Valley International Airport, the mean temperature of 38.6 degrees was the WARMEST February on record. At the Philadelphia International Airport, the mean temperature of 41.8 degrees was the third warmest February on record. The meteorological winter of 1997-98 (December 1st through February 28th) was the third warmest winter on record in Philadelphia with an average temperature of 40.4 degrees.

## PENNSYLVANIA, Northeast

<b>PAZ040-044-047&gt;048</b>	<b>Wayne - Lackawanna - Luzerne - Pike</b>							
	<b>17</b>	<b>1600EST</b>			<b>0</b>	<b>0</b>	<b>30K</b>	<b>High Wind (G55)</b>
	<b>2200EST</b>							

An intensifying storm system moved from the middle Mississippi Valley northeastward to Michigan. The combined circulation around this storm and a high pressure system off the New England coast produced strong gusty winds across northeastern Pennsylvania from late afternoon well into the evening hours.

Locally, winds gusted to 60 mph during the early evening from the Wilkes-Barre Scranton metropolitan area eastward through sections of the Poconos. In Olyphant, just north of Scranton, a large sign at a local restaurant was blown down onto a new vehicle. Both the sign and the automobile sustained heavy damage. Also, several trees and large tree limbs were blown down onto utility poles and power lines. This resulted in scattered power outages, particularly over ridge top areas of southern Wayne, eastern Lackawanna, and Pike counties.

**PAZ038>040-043>044-047>048** **Bradford - Susquehanna - Wayne - Wyoming - Lackawanna - Luzerne - Pike**

<b>23</b>	<b>2000EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
<b>24</b>	<b>2200EST</b>							

A powerful storm system moved from the Tennessee Valley to the Delmarva coast. Once there, the storm intensified rapidly as it only gradually moved further offshore. The combination of cold air in place, a deep easterly flow of Atlantic moisture, and intense upper level energy produced widespread heavy snow across northeastern Pennsylvania.

# Storm Data and Unusual Weather Phenomena

February 1998

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

Snow began falling during the evening hours of the 23rd. It quickly became heavy as it persisted through the day on the 24th, not tapering off until that evening. A relatively narrow band of very heavy snow set up early in the morning on the 24th from northern sections of Wyoming county and eastern portions of Bradford county through most of Susquehanna county. By the time the storm wound down that evening, snowfall tallies of 18 to 28 inches were common in this corridor. Brackney in central Susquehanna county recorded the highest official total with 27.5 inches. The heavy wet nature of the snow also brought down numerous power lines that resulted in widespread outages. In some more isolated locations, power was not restored for 3 to 4 days.

From the Wilkes-Barre Scranton metropolitan area eastward across the Poconos, somewhat lesser amounts of 4 to 12 inches were recorded. Several hours of sleet and freezing rain mixed in across these locations, helping to keep snowfall accumulations down. The higher elevations in this region saw amounts approaching a foot. This included such places as Mountaintop, Back Mountain, and Bear Creek in Luzerne county as well as Elmhurst in Lackawanna county and Pleasant Mount in Wayne county.

## PENNSYLVANIA, Northwest

<b>PAZ001</b>	<b>Northern Erie</b>								
	<b>04</b>	<b>2000EST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G50)</b>
	<b>05</b>	<b>2320EST</b>							
Numerous tree limbs were downed along the lakeshore near the city of Erie. The strong northeast winds were from a storm system along the Carolina coast.									

## PENNSYLVANIA, West

<b>PAZ030&gt;032</b>	<b>Westmoreland - Greene - Fayette</b>								
	<b>04</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>05</b>	<b>0200EST</b>							
Five to seven inches of sleet and snow fell across the eastern part of the county in the ridges. An intensifying low pressure system of the Florida panhandle moved slowly up the Atlantic Coast to the North Carolina Coast. This storm system spread a mix of heavy snow and sleet into parts of southwest Pennsylvania. The highest amounts were confined primarily to the highest elevations.									

<b>PAZ007</b>	<b>Mercer</b>								
	<b>04</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>			<b>Ice Storm</b>
	<b>05</b>	<b>0830EST</b>							
Freezing rain accumulated up to 0.25 inches in Sharon.									

<b>PAZ016-030-032</b>	<b>Jefferson - Westmoreland - Fayette</b>								
	<b>17</b>	<b>0930EST</b>			<b>0</b>	<b>0</b>	<b>24K</b>		<b>High Wind</b>
		<b>1700EST</b>							
High winds fell a tree onto a power line in Punxsutawney. Strong east to southeast winds, in advance of an intensifying storm system moving northeast up the Ohio Valley, downed several trees. Much of the damage was confined to the slopes of the Chestnut and Laurel ridges.									

<b>PAZ032</b>	<b>Fayette</b>								
	<b>23</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Snow</b>
	<b>24</b>	<b>0600EST</b>							
Six inches of snow was reported in Chalkhill. Similar amounts fell in the higher elevations of the eastern part of the county. A low pressure system across the southeast United States moved up the coast to Virginia late on the 23rd. The system rapidly intensified and spread heavy snow into northern West Virginia. The heaviest snowfall was confined to the higher elevations.									

## PUERTO RICO

<b>PRZ005-013-069-097-113-123-127</b>	<b>Aguadilla - Arecibo - Humacao - Mayaguez - Ponce - Guayama - San Juan</b>								
	<b>04</b>	<b>0400AST</b>			<b>0</b>	<b>0</b>	<b>56K</b>		<b>High Wind</b>
		<b>1600AST</b>							
An approaching cold front produced strong winds across most of Puerto Rico. Commonwealth Civil Defense indicated downed trees over power lines in Carolina, Bayamon, and Barranquitas and homes damaged in Mayaguez and Utuado. Around 22000 residents were without electrical power.									

<b>Arecibo</b>									
<b>Manati</b>	<b>04</b>	<b>2300AST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Flash Flood</b>
	<b>05</b>	<b>0800AST</b>							

<b>Guayama</b>									
<b>Countywide</b>	<b>04</b>	<b>2300AST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Flash Flood</b>
	<b>05</b>	<b>0800AST</b>							

<b>Humacao</b>									
<b>Central Portion</b>	<b>04</b>	<b>2300AST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Flash Flood</b>
	<b>05</b>	<b>0800AST</b>							

# Storm Data and Unusual Weather Phenomena

February 1998

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

### **Ponce**

<b>Coamo</b>	<b>04</b>	<b>2300AST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Flash Flood</b>
	<b>05</b>	<b>0800AST</b>							

### **San Juan**

<b>Countywide</b>	<b>04</b>	<b>2300AST</b>			<b>0</b>	<b>0</b>	<b>15K</b>		<b>Flash Flood</b>
	<b>05</b>	<b>0800AST</b>							

A cold front moved to Puerto Rico producing widespread flooding across the north and east sections. Several creeks and rivers went out of their banks inundating adjacent areas. The main rivers that overflowed their banks were: Cibuco river in Vega Alta, La Plata river in Manati, and Blanco river in Naguabo. Landslides and road flooding occurred across portions of the north, east, and interior of Puerto Rico.

### **San Juan**

<b>San Juan</b>	<b>25</b>	<b>1825AST</b>			<b>0</b>	<b>0</b>			<b>Waterspout</b>
		<b>1840AST</b>							

A weather observer reported a waterspout just off the coast of San Juan.

### **San Juan**

<b>Loiza</b>	<b>27</b>	<b>0730AST</b>			<b>0</b>	<b>0</b>			<b>Coastal Flooding</b>
	<b>28</b>	<b>1600AST</b>							

Road 187 in Loiza was closed due to large breaking waves inundating coastal sections.

### **Humacao**

<b>Ceiba</b>	<b>28</b>	<b>0717AST</b>			<b>0</b>	<b>0</b>			<b>Waterspout</b>
		<b>0730AST</b>							

A U.S. NAVY personnel sighted a waterspout just off the coast of Ceiba.

## RHODE ISLAND

### **RIZ002>007**

<b>Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport</b>									
	<b>04</b>	<b>2300EST</b>			<b>0</b>	<b>0</b>			<b>Strong Winds</b>
	<b>05</b>	<b>1800EST</b>							

### **RIZ006>007**

<b>Washington - Newport</b>									
	<b>05</b>	<b>0600EST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G55)</b>
		<b>1200EST</b>							

A strong storm system passing offshore to the southeast of Cape Cod caused strong northeast winds across central and southern Rhode Island and high winds along south coastal sections, including Block Island. Large breaking waves caused minor coastal flooding and minor beach erosion. Some peak wind gusts included: Little Compton, 63 mph; Block Island, 60 mph; and Providence, 48 mph. Sustained winds reached 45 mph at Point Judith.

### **RIZ002>007**

<b>Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport</b>									
	<b>18</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
		<b>1200EST</b>							

### **RIZ006>007**

<b>Washington - Newport</b>									
	<b>18</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Strong Winds</b>
		<b>1200EST</b>							

### **Newport County**

<b>Little Compton</b>	<b>18</b>	<b>0530EST</b>			<b>0</b>	<b>0</b>	<b>8K</b>		<b>Lightning</b>
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### **Newport County**

<b>Middletown</b>	<b>18</b>	<b>0820EST</b>			<b>0</b>	<b>0</b>			<b>Flood</b>
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### **Washington County**

<b>Southeast Portion</b>	<b>18</b>	<b>1400EST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
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A strong low pressure system that moved to the northeast along the Mid Atlantic coast and then passed southeast of Cape Cod brought heavy rainfall, isolated flash floods, and thunderstorms to mainly central and southern Rhode Island. Strong northeast winds gusting to 30 to 40 mph occurred across the south portion of Narragansett Bay and along the south coast from Little Compton to Westerly. Rainfall totals for this storm were in the range from 2.0 to 3.5 inches during a 12-hour period. Some totals (not necessarily complete storm totals) included: Tiverton, 3.4 inches; Middletown, 3.1 inches; Newport, 2.98 inches; North Kingstown, 2.7 inches; Ashaway, 2.58 inches; and T.F. Green Airport in Warwick, 2.16 inches.

In Middletown, the Maidford River rose out of its banks flooding a part of a neighborhood. In South Kingstown, California Jim's Pond Dam broke damaging a portion of Route 108 as well as several homes in the Peace Dale section of town.

In Little Compton, a lightning bolt struck in the center of town resulting in an estimated 5 to 10 thousand dollars damage to a house. In Tiverton, fire crews pumped out many basements. There were reports of minor street flooding in Middletown and Newport. There was considerable flooding in poor drainage areas in southeast Rhode Island.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## RHODE ISLAND

**RIZ001>005-007** Northwest Providence - Southeast Providence - Western Kent - Eastern Kent - Bristol - Newport  
 23 2300EST 0 0 Heavy Rain  
 24 2300EST

**RIZ001>007** Northwest Providence - Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport  
 24 0000EST 0 0 Strong Winds  
 25 1500EST

The second powerful nor'easter to affect the region in less than a week brought heavy rainfall and strong northeast winds to much of Rhode Island. An extremely intense low pressure system moving to the northeast and passing just to the southeast of Nantucket had a central barometric pressure just under 29 inches of mercury. Rainfall totals for this storm exceeded 2 inches over the eastern and northern part of the state. A total of 2.03 inches was reported from Foster while 2.00 fell in Coventry. Strong northeast winds gusted to 40 to 56 mph across the state. Some peak gusts included: Providence, 56 mph; Charlestown and Tiverton, 52 mph; and Newport and North Smithfield, 47 mph.

## SOUTH CAROLINA, Central

**Newberry County**  
 Silverstreet 17 1145EST 0 0 0 Hail (1.75)  
 County EOC reported golfball size hail in Silverstreet.

**Aiken County**  
 Wagener to Salley 28 0522EST 0 0 0 Hail (0.75)  
 0527EST  
 Utility company reported 3/4 inch hail along SC Highway 39.

**Calhoun County**  
 5 NW St Matthews 28 0600EST 0 0 0 Thunderstorm Wind (G50)  
 Sheriff reported trees down on county roads.

## SOUTH CAROLINA, North Coastal

**Horry County**  
 Garden City to Cherry Grove Beach 03 1130EST 0 0 Storm Surge  
 04 0130EST  
 A nor'easter caused heavy surf and 2-3 feet of beach erosion, especially along Cherry Grove Beach.

**Georgetown County**  
 Georgetown to Murrells Inlet 03 1815EST 0 0 Flash Flood  
 2145EST  
 Heavy rains during the afternoon and evening measured 4-6 inches along the coast, 2-4 inches inland past 10 miles, causing extensive flooding.

**Horry County**  
 Garden City to Little River 03 1830EST 0 0 Flash Flood  
 2230EST  
 Afternoon and evening rains measured 3 to 5 inches within 10 miles of the coast and less than 3 inches inland. Extensive flooding of roads and houses. The Waccamaw river rose from one foot, to 2 feet above flood stage.  
 Afternoon and evening rains measured 2 to 4 inches, flooding many roads near the coast. Flooding restricted travel through 21:30.

**Horry County**  
 Aynor to Little River 17 0530EST 0 0 Flash Flood  
 1000EST  
 Heavy rains in the early morning hours measured 4-6 inches near the coast and 2-4 inches further inland. Myrtle Beach schools delayed opening 2 hours. Widespread flooding affected 75 roads around the county.

**Marion County**  
 Centenary to Britton Neck 17 0800EST 0 0 Flash Flood  
 1000EST  
 Heavy rains in the morning measured from 1 inch in the north to 4 inches in the southern part of the county, causing flooding of roads, mainly in the southern area.

## SOUTH CAROLINA, Northwest

**Oconee County**  
 Countywide 03 1200EST 0 0 Flood  
 04 0300EST

**SCZ001>008-010>013-019** Northern Oconee - Northern Pickens - Northern Greenville - Southern Oconee - Southern Pickens - Southern Greenville - Spartanburg - Cherokee - Anderson - Abbeville - Laurens - Union - Greenwood  
 03 1200EST 0 0 100.0K High Wind  
 1800EST

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>SOUTH CAROLINA, Northwest</b>									
<b>Laurens County</b>									
Hickory Tavern	03	1515EST 2100EST			0	0			Flood
<b>Spartanburg County</b>									
Clifton	03	1600EST 2000EST			0	0			Flood
<b>Union County</b>									
East Portion	03	1600EST 2100EST			0	0			Flood
<b>Greenwood County</b>									
Countywide	03	1630EST 2100EST			0	0			Flood
<b>Greenville County</b>									
Greenville	03	1730EST 2100EST			0	0			Flood
<b>Greenwood County</b>									
Countywide	04	1100EST 1800EST			0	0			Flood
<b>Abbeville County</b>									
Countywide	04	1400EST 1800EST			0	0			Flood
<p>A strong storm system moved slowly north from the Gulf of Mexico into the Carolinas on the 3rd and 4th. A tight pressure gradient between high pressure in the upper Midwest and the approaching strong low, produced damaging high winds which blew down hundreds of trees, many on houses, during the afternoon of the 3rd. Numerous power outages were also reported. Heavy rain during the day prompted flooding by afternoon. Several counties across the Upstate reported bridges and roads flooded. The Broad River, Pacolet River and Reedy River all rose out of their banks and flooded nearby roads and land.</p>									
<b>Greenville County</b>									
3 SE Tigerville	11	1923EST			0	0			Hail (1.00)
<b>Spartanburg County</b>									
Chesnee	11	1940EST			0	0			Hail (0.75)
<p>Thunderstorms developed just ahead of a cold front and one became severe, dropping large hail.</p>									
<b>Oconee County</b>									
Westminster to Walhalla	17	0949EST			0	0			Hail (0.75)
<b>Oconee County</b>									
2 NW Walhalla	17	1000EST			0	0			Hail (0.75)
<b>Oconee County</b>									
2 NW Walhalla	17	1000EST			0	0	0.30K		Thunderstorm Wind (G50)
<b>Oconee County</b>									
Jocassee	17	1010EST			0	0			Hail (1.00)
<b>Greenwood County</b>									
10 S Greenwood	17	1119EST			0	0			Hail (0.75)
<b>Greenwood County</b>									
Cokesbury	17	1145EST			0	0	5K		Hail (1.00)
<b>Greenwood County</b>									
Cokesbury	17	1145EST			0	0			Thunderstorm Wind (G50)
<b>Laurens County</b>									
5 E Laurens	17	1203EST			0	0			Thunderstorm Wind (G50)
<p>After a night of cold rain, warm air surged north just ahead of an approaching cold front during the morning. This created enough instability for thunderstorms to develop, some of which became severe and produced large, damaging hail and severe wind gusts. A shed was blown over and hail dented a truck in Oconee county. Hail also damaged a car in Cokesbury. A few trees and limbs were blown down in Greenwood county along with other minor wind damage. It was inconclusive whether the damage was caused by a weak tornado.</p>									
<b>SCZ007</b>									
	21	0500EST			1	0			Cold
<p>A man died from exposure to the cold during the early morning. Alcohol was partly to blame. M48OU</p>									
<b>SCZ009-014</b>									
	22	1800EST 2100EST			0	0	3K		Gusty Winds

# Storm Data and Unusual Weather Phenomena

February 1998

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

## SOUTH CAROLINA, Northwest

Gusty northeast winds in advance of a developing storm system blew down some large limbs, some of which damaged roofs.

<b>SCZ004&gt;009</b>	<b>Southern Oconee - Southern Pickens - Southern Greenville - Spartanburg - Cherokee - York</b>				<b>0</b>	<b>0</b>			<b>Gusty Winds</b>
	<b>24</b>	<b>0900EST 1700EST</b>							

Gusty winds around 40 mph, in the wake of a strong storm system, resulted in scattered reports of trees and power lines blown down. The saturated ground was partly to blame as well.

## SOUTH CAROLINA, South Coastal

<b>SCZ044&gt;045</b>	<b>Dorchester - Berkeley</b>				<b>0</b>	<b>0</b>			<b>Flood</b>
	<b>01 28</b>	<b>0000EST 2359EST</b>							

Rainfall for the month at the Charleston Airport was 10.17 inches (6.87 above normal) The Edisto River at Givhans Ferry (flood stage 10.0 ft) was above flood stage the entire month with a crest of 14.4 ft on the 9th. The Santee River at Jamestown (flood stage 10.0 ft) was also above flood stage the whole month with a crest of 21.6 ft on the 11th. With the rivers being out of their banks, residences at both locations experienced varied levels of problems ranging from parking on higher ground and boating to their homes to actually having several inches of water on the first floor of their homes.

<b>Beaufort County</b>									
<b>Bluffton</b>	<b>28</b>	<b>2234EST 2240EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
<b>Charleston County</b>									
<b>Charleston</b>	<b>28</b>	<b>2315EST 2320EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>

## SOUTH DAKOTA, Central and North

<b>SDZ003&gt;005-009&gt;010-015&gt;016</b>	<b>Corson - Campbell - Mcpherson - Walworth - Edmunds - Dewey - Potter</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>26 27</b>	<b>0600CST 0500CST</b>							

A strong area of low pressure moved across central and northeast South Dakota from the morning of the 26th to the morning of the 27th. As the low moved northeast, cold north winds of 25 to 35 mph gusting to 45 mph caused widespread rain to change over to snow. Many roads became icy and poor visibilities in snow and blowing snow and low wind chills developed. Four to 8 inches of snow fell across the counties bordering the Missouri river and in far western Mcpherson and far western Edmunds counties. Many area schools were dismissed early or canceled. Some residents, especially West River, lost power during the storm. Many McIntosh residents were without power for over 24 hours. Numerous activities and sports events were canceled. There were also some car accidents which did not result in injury. A semi rolled onto it's side northwest of Gettysburg on the 26th. Ranchers also experienced some calving problems as a result of the winter storm. Some snowfall amounts included, 4 inches at Selby, Herreid, and Mobridge, 5 inches at Isabel, 6 inches at Gettysburg, 7 inches about 11 miles east of Hosmer, and 8 inches at McIntosh. Some large drifts also developed, especially West River, as a result of the heavy snow and strong winds.

## SOUTH DAKOTA, Southeast

<b>Minnehaha County</b>	<b>Sioux Falls</b>				<b>0</b>	<b>0</b>			<b>Hail (0.75)</b>
	<b>25</b>	<b>1752CST</b>							

## SOUTH DAKOTA, West

<b>SDZ001&gt;002-012&gt;013-024&gt;026-028-030&gt;031</b>	<b>Harding - Perkins - Butte - Meade Co. Plains - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Central Black Hills - Custer Plains - Pennington Plains</b>				<b>0</b>	<b>0</b>			<b>Blizzard</b>
	<b>24 28</b>	<b>1200MST 2359MST</b>							

A powerful winter storm brought widespread blizzard conditions to northwest (and parts of west central) South Dakota between February 24 and 28. Snow accumulations between 10 and 20 inches were common along the northern foothills surrounding the Black Hills and on the plains to the north and east. In the Black Hills, National Weather Service cooperative observes recorded the following snow accumulations between February 24 and 28: 63 inches at Galena, 48 inches at Lead. Unofficial observations included a 72 inch accumulation south of Lead, and a 90 inch accumulation at Icebox Canyon southwest of Lead.

Widespread blowing and drifting snow halted air and land traffic throughout west central South Dakota as numerous highways and the Rapid City Regional Airport were closed at various times between the 24 and 28. Snow drifts up to 12 feet were observed in the Black Hills, with drift heights up to 7 feet observed 40 miles to the east of the Black Hills on the plains.

## TENNESSEE, Central

<b>TNZ009&gt;011-030&gt;033-063&gt;065-075-077&gt;082-097&gt;098</b>	<b>Macon - Clay - Pickett - Smith - Jackson - Putnam - Overton - Cannon - Dekalb - White - Bedford - Coffee - Warren - Grundy - Van Buren - Sequatchie - Bledsoe - Franklin - Marion</b>				<b>0</b>	<b>0</b>	<b>5M</b>		<b>Heavy Snow</b>
	<b>03 04</b>	<b>1700CST 0600CST</b>							

# Storm Data and Unusual Weather Phenomena

February 1998

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

The heavy snow brought treacherous driving conditions, school closures, and widespread power outages across the eastern part of Middle Tennessee. Interstate 40 was closed at Monterey due to the heavy snow. Winds gusted to 50 mph at times during the snowstorm. The weight of the heavy wet snow, along with the strong winds, downed many trees and power lines causing numerous power outages. TEMA reported damages from the snow storm at about 5 million dollars. The report will be broken down into county/snow depth/ and related problems.

Bedford / 2-4" / Widespread power outages.

Bledsoe / 4-18" / Snow on ridges, widespread power outages. As much as 10-18 inches fell at Fall Creek Falls State Park. Guests at the inn were moved to cabins with fireplaces so they could have heat and keep warm.

Cannon / 7-8" / Widespread power outages.

Clay / 2-6" / Widespread power outages; higher amounts in the higher elevations.

Coffee / 3-6" / Widespread power outages; higher amounts in the higher elevations.

Dekalb / 5-6" / Almost 100% of the county was without power. Shelters were being opened.

Franklin / 3-10" / Widespread power outages; higher amounts across the higher elevations, for example Sewanee Mountain received 10 inches of snow.

Grundy / 6-14" / Widespread power outages.

Jackson / 2-8" / Widespread trees and power lines down. Higher amounts in the eastern part of the county.

Macon / 4"-6" / Widespread power outages.

Marion / 6-8" / Heavy snow occurred mainly on ridges.

Overton / 8-12" / Widespread power outages. The National Guard was called out to clear the road of debris.

Pickett / 6" / Almost the entire county was without power. 70,000 or 80% of Volunteer Electric Cooperative customers had no power. The Blizzard of '93 only affected 30,000 VEC customers or about 35%. It was the worst snowstorm to hit the area in 20 years.

Putnam / 8-12" / Interstate 40 was closed between Monterey and Cookeville for 18 hours. Traffic was backed up for 13 miles and did not start to move until Wednesday afternoon. There were widespread power outages due to downed trees. 100,000 electric customers were without power.

Sequatchie / 2-4" / Snow was on the higher elevations.

Smith / 4-6" / The heaviest snow was in the eastern part of the county, near Chestnut Mound.

Van Buren / 4" / Widespread power outages.

Warren / 4-8" / Widespread power outages.

White / 5-7" / Widespread power outages.

## TENNESSEE, East

### **Cocke County**

Cosby to  
Point Pleasant

<b>03</b>	<b>1400EST</b>								
	<b>1500EST</b>		<b>0</b>	<b>0</b>					<b>Flash Flood</b>

Flash flooding closed several roads in the Cosby and Point Pleasant Communities for several hours.

### **Hamilton County**

East Ridge to  
Chattanooga

<b>03</b>	<b>1700EST</b>								
			<b>0</b>	<b>0</b>					<b>Flash Flood</b>

Several roads in the Chattanooga and East Brainard areas are closed due to flooding.

### **Unicoi County**

Chestoa

<b>03</b>	<b>1900EST</b>								
			<b>0</b>	<b>0</b>					<b>Flash Flood</b>

Jones Branch Rd closed and damaged by flooding of streams feeding the Nolichucky River.

**TNZ012>014-034>035-045-066>067-069-071>072-083-100** **Scott - Campbell - Claiborne - Fentress - Morgan - Unicoi - Cumberland - Roane - Knox - Northwest Blount - Blount/Smoky Mountains - Rhea - Bradley**

<b>04</b>	<b>0530EST</b>								
	<b>0630EST</b>		<b>0</b>	<b>0</b>					<b>Winter Storm</b>

A strong storm system over the southeast dumped generally 2-5 inches across the southern Cumberland Plateau. Across the northern part of the Plateau, 6-12 inches fell. As many as 50,000 customers were without power.

### **Bradley County**

5 S Cleveland

<b>17</b>	<b>0745EST</b>								
			<b>0</b>	<b>0</b>	<b>18K</b>	<b>7K</b>			<b>Thunderstorm Wind</b>

Trees and powerlines down at 8 to 10 mile marker of I-75 causing numerous traffic accidents. Numerous other trees and powerlines down between Ooltewah and Cleveland.

### **Hamilton County**

5 S Birchwood

<b>17</b>	<b>0750EST</b>								
			<b>0</b>	<b>0</b>	<b>10K</b>	<b>6K</b>			<b>Thunderstorm Wind</b>

### **Meminn County**

Athens

<b>17</b>	<b>0820EST</b>								
			<b>0</b>	<b>0</b>		<b>20K</b>			<b>Thunderstorm Wind</b>

Numerous trees down in and around Athens, as well as much of the county. Between 2500 and 3000 customers were without power.



# Storm Data and Unusual Weather Phenomena

February 1998

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>TENNESSEE, East</u></b>									
following the storm. Most had their service restored by that evening.									
<b>Meigs County</b> Countywide	17	0825EST			0	0	25K	20K	Thunderstorm Wind
Trees down throughout county and several roofs blown off.									
<b>Loudon County</b> Lenoir City	17	0844EST			0	0	8.5K	4.5K	Thunderstorm Wind
<b>Monroe County</b> Sweetwater to Madisonville	17	0844EST			0	0	8.5K	4.5K	Thunderstorm Wind
<b>Roane County</b> 5 S Rockwood	17	0850EST			0	0	10K	2K	Thunderstorm Wind
Trees and powerlines down across Marina Bay Road and over southeast portion of county along Dry Fork Valley Road.									
<b>Anderson County</b> 5 E Oak Ridge to Oak Ridge	17	0900EST			0	0			Hail (0.75)
Storm also contained winds estimated at 50 mph.									
<b>Knox County</b> 2 SW Knoxville	17	0915EST			0	0	3K	10K	Thunderstorm Wind
Trees down in the Farragut area. Tree fell on a car on Neyland Drive in Knoxville.									
<b>Knox County</b> 5 N Knoxville	17	0930EST			0	0	20K	5K	Thunderstorm Wind
Trees and powerlines down on Raccoon Valley Road. As many as 6500 people were without power following the storm.									
<b>Union County</b> Luttrell	17	0935EST			0	0		8K	Thunderstorm Wind
Several trees down in Luttrell and also in the Big Ridge area.									
<b>Sevier County</b> 5 E Sevierville	17	0940EST			0	0			Thunderstorm Wind (G55)
Winds estimated over 50 mph on Bluff Mountain.									
<b>Jefferson County</b> Jefferson City	17	0945EST			0	0	70K	12K	Thunderstorm Wind
One barn was damaged and another totally demolished. Around 2000 customers were without power following the storm.									
<b>Grainger County</b> Rutledge	17	0948EST			0	0			Hail (0.75)
<b>Hamblen County</b> Morristown	17	0952EST			0	0			Thunderstorm Wind (G50)
Sustained winds of 40 knots with gusts to 50 knots observed as line of thunderstorms moved across the National Weather Service office.									
<b>Hamblen County</b> 1 N Morristown	17	0954EST			0	0	1K		Thunderstorm Wind
Trees fell on and damaged a National Weather Service employee's home on Mill Race Road.									
<b>Hawkins County</b> Mooresburg	17	1025EST			0	0		6K	Thunderstorm Wind
<b>Greene County</b> Mosheim	17	1050EST			0	0	15K	3K	Thunderstorm Wind
Roof blown off building and house heavily damaged. Roof blown off barn in Midway area. A few trees blown down.									
<b>Sullivan County</b> 5 E Bristol	17	1130EST			0	0			Thunderstorm Wind (G55)
<b>Washington County</b> Fall Branch	17	1130EST			0	0	4K		Thunderstorm Wind
Tractor trailer blown over on I-81.									
<b><u>TENNESSEE, West</u></b>									
<b>Hardeman County</b> Whiteville	10	2155CST 2200CST			0	0	1K		Thunderstorm Wind
Several power lines and a few tree limbs were knocked down.									
<b>TNZ001-019</b> Lake - Dyer	11	0700CST 1000CST			0	0	11K		High Wind (G45)
Winds gusting to 50 miles per hour damaged parts of Lake county. A Dairy Queen store in Tiptonville had its awning ripped off and									

# Storm Data and Unusual Weather Phenomena

February 1998

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

tossed into an overhead powerline damaging the electrical system. Many buildings lost some shingles. Several sheds were overturned and some trees were knocked down in the county.

## TEXAS, Central

<b>San Saba County</b> Cherokee	18	1655CST			0	0			<b>Thunderstorm Wind (G52)</b>
<b>Mason County</b> Mason	18	1755CST			0	0			<b>Hail (1.00)</b>
<b>Brown County</b> 12 SW Brownwood	25	1715CST			0	0			<b>Hail (0.75)</b>
<b>Kimble County</b> Telegraph	25	1907CST			0	0			<b>Hail (0.75)</b>
<b>Mcculloch County</b> Brady	25	1912CST			0	0			<b>Hail (0.75)</b>
<b>Kimble County</b> Junction	25	1925CST 2230CST			0	0			<b>Flash Flood</b>
<b>Mason County</b> Mason	25	1925CST 2230CST			0	0			<b>Flash Flood</b>
<b>Menard County</b> Menard	25	1925CST 2230CST			0	0			<b>Flash Flood</b>
<b>Mcculloch County</b> Mercury	25	1935CST			0	0			<b>Hail (0.88)</b>
<b>Mason County</b> 12 SW Mason	25	1940CST			0	0	2K		<b>Lightning</b>
5 heifers struck and killed by lightning									
<b>Mason County</b> Mason	25	1945CST			0	0	5K		<b>Thunderstorm Wind</b>
A line of severe thunderstorms produced dime to nickel size hail, high winds, and minor flash flooding across the Heartland and Northwest Hill Country. The Mason High School in Mason suffered roof damage from the high winds, damaging two classrooms.									

## TEXAS, Central Southeast

<b>Galveston County</b> Santa Fe	01	0105CST			0	0	3K		<b>Hail (0.88)</b>
<b>Galveston County</b> Dickinson	01	0110CST			0	0	3K		<b>Hail (0.75)</b>
<b>Galveston County</b> Bacliff	01	0115CST			0	0	3K		<b>Hail (0.75)</b>
<b>Chambers County</b> 5 SE Mont Belvieu	01	0200CST			0	0	3K		<b>Hail (0.75)</b>
<b>Liberty County</b> Felicia	01	0231CST			0	0	10K		<b>Hail (1.75)</b>
<b>Colorado County</b> Weimar	10	1055CST			0	0	3K		<b>Hail (0.75)</b>
<b>Colorado County</b> Sheridan	10	1105CST			0	0	21.5K		<b>Thunderstorm Wind</b>
Numerous trees blown down (one on a house). Barn destroyed.									
<b>Colorado County</b> Columbus	10	1110CST			0	0	21.5K		<b>Thunderstorm Wind</b>
Numerous roofs damaged. Car blown off a road.									
<b>Colorado County</b> Garwood	10	1115CST			0	0	21.5K		<b>Thunderstorm Wind (G65)</b>
Windows blown out at Garwood Elementary School. Several trees blown down along HWY 71.									
<b>Colorado County</b> Matthews	10	1118CST			0	0	10K		<b>Thunderstorm Wind</b>
Utility poles blown down.									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Central Southeast</b>									
<b>Wharton County</b>									
El Campo	10	1119CST			0	0	20K		Thunderstorm Wind
25 powerpoles blown down, roof ripped off mobile home, and a car port was destroyed.									
<b>Austin County</b>									
Cat Spg	10	1125CST			0	0	25K		Thunderstorm Wind
Trees blown down, garage destroyed, and house roof blown off.									
<b>Austin County</b>									
Sealy	10	1130CST			0	0	5K		Thunderstorm Wind
Trees blown down, tin roof blown off building.									
<b>Austin County</b>									
Wallis	10	1130CST			0	0	10K		Thunderstorm Wind
Roof damage and trees blown down.									
<b>Wharton County</b>									
Glen Flora	10	1130CST			0	0	15K		Thunderstorm Wind
Barn roof blown off and powerpoles blown down.									
<b>Austin County</b>									
3 NE Bellville	10	1135CST			0	0	10K		Thunderstorm Wind
Wind damage to several barns and businesses.									
<b>Wharton County</b>									
Wharton	10	1140CST			0	0	7K		Thunderstorm Wind
Trees and powerpoles blown down near the country club.									
<b>Montgomery County</b>									
15 W Shenandoah	10	1150CST			0	0	5K		Thunderstorm Wind
15 large trees blown down, some snapped in half.									
<b>Waller County</b>									
Brookshire	10	1156CST			0	0	50K		Thunderstorm Wind
Widespread trees and powerlines down across southern parts of the county, especially near Brookshire. Trailer home destroyed, widespread structural damage, and a car blown off the road.									
<b>Fort Bend County</b>									
3 E Fulshear	10	1157CST			0	0	32K		Thunderstorm Wind (G60)
Hanger had upwind and downwind walls blown out at Westheimer Airport. One plane was destroyed.									
<b>Fort Bend County</b>									
Rosenberg	10	1200CST			0	0	10K		Thunderstorm Wind
Roof blown off Arrendondo Furniture Store.									
<b>Galveston County</b>									
Texas City	10	1200CST			0	0	3K		Thunderstorm Wind
Powerpole blown down.									
<b>Matagorda County</b>									
Sargent	10	1200CST			0	0	10K		Thunderstorm Wind
Wind damage to beach houses in the Caney Creek Estates.									
<b>Harris County</b>									
Houston	10	1205CST			0	2	75K		Thunderstorm Wind
Roof peeled off and structural damage to Walton Mills Apartments in southwest Houston. Key map 529Q.									
<b>Harris County</b>									
Katy to Houston	10	1205CST 1219CST			0	0	30K		Thunderstorm Wind (G52)
Widespread trees down and minor structural damage reported from a bow echo moving across western Harris County. Wind measured at 60 mph at I-10 & Beltway 8.									
<b>Montgomery County</b>									
Magnolia to 3 E Conroe	10	1210CST 1233CST			0	0	250K		Thunderstorm Wind (G70)
Numerous reports of wind damage across the western half of the county (mainly west of I-45). Magnolia, Montgomery, Artesian Forest, Willis, Bentwater, and Conroe all sustained damage. Most extensive damage was in Artesian Forest which is just west of Conroe where many homes sustained major structural damage. Winds were estimated at 80 mph in Magnolia. Wind damage to the County Fairgrounds in Conroe. Three businesses (Touch of Class, Mrs. Bairds Thrift shop and Auto Pro) were all destroyed in the Conroe area at HWY 75 & Hildred Ave. Highway signs blown down along I-45 between Conroe and Willis. Wolf Nurserly greenhouse damaged at I-45 & HWY 105. Widespread trees down in the Grangerland area along FM 3083.									
<b>Walker County</b>									
5 S Huntsville	10	1220CST			0	0	13K		Thunderstorm Wind
26 houses in the Elkins Lake Subdivision received minor wind damage.									

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Central Southeast</b>									
<b>San Jacinto County</b>									
Coldspring	10	1240CST			0	0	75K	3.7M	Thunderstorm Wind
	High winds caused major timber loss in the forest around the Coldspring area due to wet grounds. Structural damage to 40-50 homes.								
<b>Harris County</b>									
Baytown	10	1249CST 1252CST	3	440	0	4	3M		Tornado (F1)
	Tornado touched down on the Exxon refinery west of Decker Rd., then travelled NE for 3 miles. Damage to the Exxon cooling tower, major damage to the Days Inn on Decker Rd, numerous apartment complexes and residences in the Allen Brook Subdivision. This was one of three tornadoes that touched down in Baytown on this day, and was the most destructive. Fifty-six apartments destroyed, over 150 residences sustained damage varying from minor to major. Four minor injuries from flying glass, etc.								
<b>Galveston County</b>									
League City	10	1250CST 1253CST	1.7	50	0	4	100K		Tornado (F1)
	Tornado touched down at Clear Creek high School. Windows blown out, temporary building turned over and damaged, fence damage to baseball field and tennis courts, soccer bleachers damaged. Roof damage to nearby elementary school and area homes and businesses. Wall failure on a strip shopping center on FM 518 east of Meadowbend Pkwy. 4 injuries from flying glass.								
<b>Polk County</b>									
8 W Livingston to Camden	10	1250CST 1350CST			0	0	14M	3.8M	Thunderstorm Wind (G117)
	Straight line wind damage across the entire county from west to east. Lake Livingston Dam measured 134 mph wind gusts before their equipment blew away. The hardest hit area was from the Tobacco Patch community to the west of the Livingston area, though major damage occurred across the majority of the county. Numerous trees/powerpoles down, 18 homes completely destroyed, 172 with major damage, 180 with moderate to minor damage. Timber industry took a large loss due to the number of downed trees. Governor George Bush Jr. declared Polk County a disaster area on 3/11/98.								
<b>Harris County</b>									
Baytown	10	1254CST 1256CST	4	440	0	0	750K		Tornado (F1)
	Second tornado touchdown just east of where the first one lifted. This tornado travelled NE for 4 miles before lifting at HWY 146 & Staples Rd. Structural damage to homes in Chapparral Village.								
<b>Harris County</b>									
Crosby	10	1255CST			0	0	10K		Thunderstorm Wind
	Walton Feed Store roof blown off.								
<b>Harris County</b>									
Baytown	10	1257CST 1258CST	0.5	100	0	0	250K		Tornado (F1)
	Third tornado touchdown 1.5 miles south of HWY 146 in Baytown. Billboards snapped, and damage to mobile homes at a local dealership.								
<b>Liberty County</b>									
2 E Liberty	10	1302CST			0	0	3K		Thunderstorm Wind
	Trees blown down along HWY 90.								
<b>Chambers County</b>									
3 S Mont Belvieu	10	1305CST			0	0	5K		Thunderstorm Wind
	Wind damage to billboards on HWY 146.								
<b>Brazoria County</b>									
5 ESE Manvel	10	1315CST			0	0	30K		Thunderstorm Wind
	Antique shop at HWY 6 & CR 99 sustained major wind damage (80% totalled).								
<b>Trinity County</b>									
Chita	10	1315CST			0	0	40K		Thunderstorm Wind
	Barn destroyed and several trees down (some on cars).								
<b>Trinity County</b>									
Groveton	10	1315CST			0	0	10K		Thunderstorm Wind
	Minor wind damage to homes in Groveton.								
<b>Liberty County</b>									
3 S Raywood	10	1320CST 1323CST	0.5	50	0	0	50K		Tornado (F1)
	Tornado destroyed large metal barn, 10 utility poles blown down (some snapped at base), minor damage to metal roofs of farm buildings, shingles blown off houses.								
<b>Trinity County</b>									
Trinity	10	1320CST			0	0	15K		Thunderstorm Wind (G67)
	75 mph winds in Trinity, trees down across the county.								

# Storm Data and Unusual Weather Phenomena

February 1998

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

## TEXAS, Central Southeast

### Galveston County

Galveston	10	1345CST			0	0	3K		Thunderstorm Wind
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Powerpoles blown down at 53rd St. & Ave S1/2.

### Brazoria County

Freeport	10	1936CST			0	0	3K		Hail (0.75)
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### Wharton County

Louise	12	2127CST			0	0	3K		Hail (0.75)
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### Wharton County

1 N El Campo	12	2138CST			0	0	3K		Hail (0.75)
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### Colorado County

Frelsburg	16	1554CST			0	0	3K		Hail (0.88)
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### Austin County

New Ulm	16	1615CST			0	0	3K		Hail (0.88)
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### Waller County

Brookshire	16	1644CST 1647CST			0	0	15K		Hail (1.75)
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### Harris County

Katy	16	1705CST			0	0	3K		Hail (0.75)
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### Fort Bend County

Fulshear	16	1712CST			0	0	3K		Hail (0.75)
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### Fort Bend County

Sugarland	16	1718CST			0	0	3K		Hail (0.75)
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### Fort Bend County

Sugarland	16	1725CST 1728CST	1.2	200	0	4	3.7M		Tornado (F1)
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Tornado touched down at the First Colony Mall. Dillards downwind wall was torn down along with minor structural damage to other stores. The tornado then crossed HWY 59 And damaged the Aerodrome (ice skating rink) and other nearby stores and signs. The tornado path ended on the south side of HWY 6 at Williams Grant Rd. 4 minor injuries from flying glass

### Matagorda County

Bay City	16	1730CST			0	0	3K		Hail (0.75)
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### Matagorda County

Wadsworth	16	1745CST			0	0	5K		Hail (1.00)
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### Harris County

Houston	16	1749CST			0	0	3K		Thunderstorm Wind (G51)
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59 mph wind measured at Harris County OEM.

### Harris County

Houston	16	1750CST			0	0	7K		Thunderstorm Wind
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Numerous trees blown down across central and southern portions of Houston.

### Brazoria County

Rosharon	16	1803CST 1805CST	0.2	50	0	0	30K		Tornado (F0)
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Tornado destroyed trailer on CR 62 & CR 48. Many trees and powerlines down in the same area.

### Galveston County

Bacliff	16	1810CST			0	0	3K		Hail (0.75)
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### Galveston County

Kemah	16	1810CST			0	0	3K		Hail (0.75)
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### Galveston County

Dickinson	16	1820CST			0	0	3K		Hail (0.88)
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### Montgomery County

5 SE Conroe	16	1825CST			0	0	5K		Thunderstorm Wind
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Trees blown down across FM 1314 & FM 242.

### Galveston County

Jamaica Beach	16	1840CST 1841CST	0.1	25	0	0			Tornado (F0)
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Sheriff reported tornado touchdown on Jamaica Beach. No damage or injuries.

### Galveston County

Galveston	16	1848CST			0	0	3K		Thunderstorm Wind (G52)
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60 mph gusts at 25th St & Seawall Blvd.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Central Southeast</b>									
<b>Liberty County</b> Cleveland	16	1850CST			0	0	3K		Hail (0.75)
<b>Liberty County</b> Hardin	16	1850CST			0	0	3K		Hail (0.75)
<b>Brazos County</b> Bryan	21	1950CST			0	0			Thunderstorm Wind (G50)
Wind gust recorded at KBTX-TV.									
<b>Burleson County</b> 1 S Caldwell	25	2301CST			0	0	1K		Thunderstorm Wind
Large trees blown down on FM 305.									
<b>Brazos County</b> Bryan	25	2336CST			0	0	150K		Thunderstorm Wind
Structural damage (roofs, carports, etc) caused by high winds 2 blocks wide-4 blocks wide in downtown Bryan. Trees down, one on a roof.									
<b>Grimes County</b> 2 S Richards	26	0021CST			0	0	0.50K		Thunderstorm Wind
Large trampoline blown nearly 1/2 mile downwind along FM 1486.									
<b>Houston County</b> Latexo	26	0025CST			0	0	3K		Thunderstorm Wind
Guard shack at chemical plant blown over.									
<b>Houston County</b> Augusta	26	0030CST			0	0	3K		Thunderstorm Wind
Trees and powerpoles blown down									
<b>Madison County</b> 2 S Normangee	26	0030CST			0	0	5K		Thunderstorm Wind
Trees blown down onto powerlines along FM 39.									
<b>Houston County</b> 2 W Weches to 1.5 W Weches	26	0040CST 0042CST			0	0	10K		Thunderstorm Wind
60+ trees blown down on FM 227.									
<b>Montgomery County</b> Splendora	26	0045CST			0	0	3K		Thunderstorm Wind
Trees blown down.									
<b>Washington County</b> Southwest Portion	26	0345CST 0500CST			0	0	5K		Flash Flood
Street flooding in Brenham and Chappell Hill.									
<b>Montgomery County</b> West Portion	26	0445CST 0530CST			0	0	4K		Flash Flood
Street flooding from Conroe to Splendora.									
<b>Matagorda County</b> Cedar Lane	26	0530CST			0	0	3K		Thunderstorm Wind
Powerlines blown down.									
<b>Matagorda County</b> Wadsworth	26	0530CST			0	0	15K		Thunderstorm Wind
Barn and powerpoles blown down.									
<b>Austin County</b> North Portion	26	0545CST 0605CST			0	0	1K		Flash Flood
Minor street flooding reported.									
<b>Brazoria County</b> Freeport	26	0550CST			0	0	25K		Thunderstorm Wind
Gulf States Utilities building roof blown off, several light poles blown down.									
<b>Brazoria County</b> Lake Jackson	26	0550CST			0	0	125K		Thunderstorm Wind
Trees downed on houses, roof partially blown off American Apartments, numerous powerlines down, McDonalds sign blown down, softball fence blown down.									

# Storm Data and Unusual Weather Phenomena

February 1998

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>Brazoria County</b>									
Alvin	26	0600CST			0	0	3K		Hail (0.75)
<b>Brazoria County</b>									
5 SW Angleton	26	0605CST			0	0	3K		Hail (0.75)
<b>Galveston County</b>									
Jamaica Beach	26	0618CST			0	0	2K		Thunderstorm Wind (G59)
			66 mph gust recorded at Jamaica Beach.						
<b>Galveston County</b>									
Jamaica Beach	26	0620CST			0	0	3K		Hail (0.75)
<b><u>TEXAS, Extreme West</u></b>									
<b>TXZ055</b>									
El Paso	24	1955MST			0	0			High Wind (G60)
			Several reports of very minor damage were reported around the area.						
<b><u>TEXAS, Mid - South</u></b>									
<b>Kleberg County</b>									
Riviera	01	1030CST			0	0			Flash Flood
			Sheriff report of water covering portions of Highway 77 due to torrential rain.						
<b>Duval County</b>									
Ramirez	01	1445CST			0	0			Flash Flood
			Sheriff report of numerous flooded roadways.						
<b>Jim Wells County</b>									
Premont	01	1450CST			0	0			Flash Flood
			Numerous reports of flooded roadways due to heavy rainfall.						
<b>Kleberg County</b>									
Kingsville	01	1505CST			0	0			Flash Flood
			NWS Spotter reports of numerous roads flooded across the county.						
<b>Live Oak County</b>									
2 N George West	05	2054CST			0	0			Hail (0.75)
			NWS Spotter report of dime sized hail.						
<b>Bee County</b>									
Pawnee	12	1815CST 1830CST			0	0			Hail (0.75)
			NWS Spotter report of dime sized hail.						
<b>La Salle County</b>									
4 SW Los Angeles	12	1855CST			0	0			Hail (1.75)
			NWS Spotter report of golf ball sized hail.						
<b>Bee County</b>									
10 NE Beeville	12	1900CST 1930CST			0	0			Hail (1.75)
<b>Refugio County</b>									
Refugio	12	1947CST			0	0			Hail (1.75)
<b>Aransas County</b>									
Rockport	12	2020CST 2026CST			0	0			Tstm Wind/Hail
			Numerous NWS Spotter reports of golf ball sized hail and thunderstorm wind gusts in excess of 60 mph.						
<b>Duval County</b>									
Freer	12	2030CST			0	0			Hail (1.75)
<b>Jim Wells County</b>									
Premont to Orange Grove	12	2130CST 2145CST			0	0			Hail (0.75)
<b>Nueces County</b>									
Port Aransas	12	2230CST			0	0			Thunderstorm Wind (G65)
			Police Department report of strong thunderstorm wind gusts.						
<b>Victoria County</b>									
Victoria	16	0550CST			0	0			Hail (0.75)
			Sheriff report of dime sized hail.						

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Mid - South</b>									
<b>Goliad County</b> 13 S Goliad	16	1430CST			0	0			Hail (1.00)
									Public report of quarter sized hail on highway 183.
<b>Goliad County</b> Goliad	18	2025CST			0	0			Hail (1.75)
<b>Victoria County</b> Mc Faddin	18	2100CST			0	0			Hail (0.75)
									NWS Spotter report of dime sized hail.
<b>Bee County</b> 10 NE Beeville to 2 W Beeville	18	2230CST			0	0			Thunderstorm Wind (G50)
<b>Goliad County</b> Berclair to Goliad	18	2230CST 2245CST			0	0			Tstm Wind/Hail
									Numerous NWS Spotter reports of golfball sized hail and thunderstorm wind gusts in excess of 60 mph.
<b>Refugio County</b> 12 NE Refugio	18	2315CST			0	0			Thunderstorm Wind (G50)
									Strong thunderstorm wind gust overturned two semi-tractor trailers on Highway 77.
<b>Calhoun County</b> 2 NE Seadrift	18	2345CST			0	0			Hail (0.75)
<b>La Salle County</b> Fowlerton	21	1610CST			0	0			Hail (0.75)
<b>Duval County</b> Realitos	21	1630CST			0	0			Hail (0.75)
<b>Duval County</b> 2 S Rios	21	1705CST	0.1	10	0	0	0		Tornado (F0)
									Department of Public Safety report of a tornado.
<b>Duval County</b> 5 S San Diego	21	1718CST	0.1	10	0	0	0		Tornado (F0)
									Department of Public Safety report of a tornado.
<b>Duval County</b> Concepcion	21	1730CST			0	0			Hail (0.75)
<b>Jim Wells County</b> Premont	21	1730CST			0	0			Hail (0.75)
									Police Department report of dime sized hail.
<b>Duval County</b> Seven Sisters	21	1800CST	0.1	10	0	0	0		Tornado (F0)
									Media and Public reports of two tornadoes.
<b>Kleberg County</b> Ricardo	21	1808CST			0	0			Hail (0.75)
									NWS Employee report of dime sized hail.
<b>Live Oak County</b> 5 N Three Rivers	21	1808CST			0	0			Hail (0.75)
<b>Bee County</b> Pawnee	21	1823CST			0	0			Hail (0.75)
<b>Live Oak County</b> Dinero	21	1926CST			0	0			Thunderstorm Wind (G60)
									NWS Spotter report of strong thunderstorm wind gust.
<b>Duval County</b> Rosita	21	1940CST			0	0			Hail (1.75)
									Sheriff report of golf ball sized hail.
<b>Bee County</b> Pawnee	21	1950CST			0	0			Flash Flood
<b>La Salle County</b> Encinal	21	2010CST			0	0			Hail (0.75)
<b>Goliad County</b> 10 SE Weesatche	21	2020CST			0	0			Thunderstorm Wind (G50)
									NWS Spotter report of strong thunderstorm wind.



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Mid - South</b>									
<b>Live Oak County</b>									
8 NE Three Rivers	26	0300CST			0	0			Hail (0.75)
<b>Bee County</b>									
Pettus	26	0315CST			0	0			Hail (0.75)
<b>Goliad County</b>									
Charco	26	0330CST			0	0			Hail (0.75)
<b>Goliad County</b>									
Goliad	26	0345CST			0	0			Thunderstorm Wind (G50)
			Sheriff report of thunderstorm wind gust.						
<b>Victoria County</b>									
3 NE Mission Vly	26	0415CST			0	0			Hail (0.75)
<b>Victoria County</b>									
Victoria	26	0420CST			0	0			Hail (0.75)
<b>TEXAS, North</b>									
<b>Coryell County</b>									
Copperas Cove	10	0610CST			0	0			Hail (0.88)
<b>Coryell County</b>									
Copperas Cove	10	0615CST			0	0			Hail (1.50)
<b>Ellis County</b>									
Waxahachie	10	0625CST			0	0			Hail (0.75)
<b>Ellis County</b>									
Waxahachie	10	0625CST			0	0	0		Thunderstorm Wind
			Large tree limbs were blown down by strong winds.						
<b>Anderson County</b>									
Cayuga	10	0921CST			0	0			Hail (1.00)
<b>Henderson County</b>									
Athens	10	0945CST			0	0			Hail (0.75)
<b>Leon County</b>									
12 W Leona	10	1019CST 1021CST	0.5	40	0	0	45K		Tornado (F0)
			A tornado damaged a house and blew down trees in the Hilltop Lakes community.						
<b>Mclennan County</b>									
Lorena	16	1515CST			0	0			Hail (0.75)
<b>Mclennan County</b>									
3 E Hewitt	16	1651CST			0	0			Hail (0.75)
<b>Mclennan County</b>									
Hewitt	16	1653CST			0	0			Hail (1.00)
<b>Coryell County</b>									
Copperas Cove	18	1740CST			0	0			Hail (0.75)
<b>Bell County</b>									
3 E Killeen	18	1840CST			0	0			Hail (1.00)
<b>Bell County</b>									
Belton	18	1855CST			0	0			Hail (0.75)
<b>Bell County</b>									
Salado	18	1855CST			0	0			Hail (0.75)
<b>Falls County</b>									
Perry	18	1955CST			0	0			Hail (1.75)
<b>TXZ091&gt;095-100&gt;107- 115&gt;123-129&gt;135- 141&gt;148-156&gt;162- 174&gt;175</b>									
	25	1700CST			0	0			Severe Thunderstorms
	26	0100CST							
			A dry line moved from West Texas to near a Bowie to Mineral Wells to Goldthwaite line by late afternoon on the 25th. A warm, moist, unstable air mass was in place to the east of the dry line where strong south winds kept a constant flow of moisture into North						

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, North</b>									
Texas from the Gulf of Mexico. A warm, stable layer of air above the surface suppressed thunderstorm development until late in the afternoon when an upper level disturbance moved into the Southern Plains from New Mexico. Scattered severe thunderstorms developed along the dry line before sunset producing hail up to golfball size. The storms evolved into a squall line over the central portion of the area and the severe weather mode transitioned from one of large hail to one of strong downburst wind. Wind gusts of 60 to 70 mph damaged homes, overturned mobile homes, and blew down trees and power lines.									
<b>Tarrant County</b> Lake Worth Vlg	25	1710CST			0	0			Hail (0.75)
<b>Tarrant County</b> Saginaw	25	1738CST			0	0			Hail (1.75)
<b>Tarrant County</b> 4 W Keller	25	1820CST			0	0			Hail (0.75)
<b>Tarrant County</b> Benbrook	25	1922CST			0	0			Hail (1.00)
<b>Tarrant County</b> Ft Worth	25	1950CST			0	0			Hail (0.75)
<b>Tarrant County</b> Ft Worth	25	1953CST			0	0			Hail (0.75)
<b>Tarrant County</b> Arlington	25	2000CST			0	0	100K		Lightning
Lightning struck and ignited fires in six homes.									
<b>Parker County</b> 5 N Aledo	25	1713CST			0	0			Hail (1.00)
<b>Parker County</b> 5 S Reno	25	1813CST			0	0			Hail (1.00)
<b>Denton County</b> Roanoke	25	1740CST			0	0			Hail (1.00)
Quarter size hail was reported at KAFW.									
<b>Denton County</b> 4 N Roanoke	25	1750CST			0	0			Hail (0.75)
<b>Denton County</b> Roanoke	25	1753CST			0	0			Hail (1.75)
<b>Denton County</b> 4 S Argyle	25	1810CST			0	0			Hail (1.00)
<b>Denton County</b> Roanoke	25	1830CST			0	0			Hail (0.75)
Dime size hail was reported at KAFW.									
<b>Denton County</b> 4 W Lewisville	25	2010CST			0	0			Hail (0.75)
<b>Comanche County</b> Hasse	25	1758CST			0	0			Hail (0.75)
<b>Erath County</b> 4 S Bluff Dale	25	1758CST			0	0			Hail (0.75)
<b>Comanche County</b> 10 SW Proctor	25	1805CST			0	0			Thunderstorm Wind (G61)
Trees were blown down by strong winds.									
<b>Hood County</b> Tolar	25	1815CST			0	0			Hail (0.75)
<b>Somervell County</b> 3 W Glen Rose	25	1918CST			0	0			Hail (0.75)
<b>Somervell County</b> Glen Rose	25	1927CST			0	0			Hail (0.75)
<b>Somervell County</b> Glen Rose	25	2155CST 2330CST			0	0			Flash Flood
Low-water crossings and several streets were flooded in town.									
<b>Collin County</b> Anna	25	1939CST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, North</b>									
<b>Collin County</b> 2 NE Prosper	25	1940CST			0	0			Hail (0.75)
<b>Grayson County</b> Van Alstyne	25	1942CST			0	0			Hail (1.25)
<b>Grayson County</b> Van Alstyne	25	1942CST			0	0	10K		Thunderstorm Wind (G52)
									Trees were blown down by strong winds and windows were broken.
<b>Fannin County</b> Savoy	25	2015CST			0	0			Hail (0.88)
<b>Lampasas County</b> Rumley	25	2100CST			0	0	15K		Thunderstorm Wind
									Strong winds destroyed a barn.
<b>Coryell County</b> Copperas Cove	25	2130CST			0	0	100K		Thunderstorm Wind
									A mobile home was overturned by strong winds. The roof of a church was damaged and trees were uprooted.
<b>Coryell County</b> Gatesville	25	2145CST			0	0	50K		Thunderstorm Wind
									Strong wind damaged a mobile home, a shed, barns, and signs. Trees and power lines were blown down.
<b>Coryell County</b> Oglesby	25	2205CST			0	0	30K		Thunderstorm Wind (G52)
									Strong winds damaged a mobile home.
<b>Bell County</b> Killeen	25	2140CST			0	0			Hail (0.75)
<b>Bell County</b> Bartlett	25	2200CST			0	0	20K		Thunderstorm Wind
									Strong wind removed a large portion of the roof of a business.
<b>Bell County</b> Killeen	25	2200CST			0	0	75K		Thunderstorm Wind
									Homes and fences were damaged by strong wind. Six automobiles were damaged by wind-driven debris and power lines were downed by strong wind gusts.
<b>McLennan County</b> Mc Gregor	25	2205CST			0	0			Thunderstorm Wind (G52)
<b>McLennan County</b> Waco	25	2230CST			0	0			Thunderstorm Wind (G52)
<b>McLennan County</b> 2 W Mc Gregor	25	2232CST			0	0	10K		Thunderstorm Wind
									Barns were damaged just west of town. A tree was blown down onto a house.
<b>McLennan County</b> Waco	25	2232CST			0	0			Thunderstorm Wind (G58)
									A 58 knot convective wind gust was measured at KWTX television station in Waco.
<b>McLennan County</b> Mart	25	2244CST			0	0			Thunderstorm Wind (G52)
<b>Milam County</b> Cameron	25	2247CST			0	0	2K		Thunderstorm Wind
									Power lines were blown down by strong winds.
<b>Limestone County</b> Kosse	25	2310CST			0	0	0		Thunderstorm Wind
									Strong winds blew over a tractor trailer.
<b>Limestone County</b> Kosse	25	2310CST			0	0	15K		Thunderstorm Wind
									Strong winds blew over a mobile home.
<b>Robertson County</b> Bremond	25	2318CST			0	0	40K		Thunderstorm Wind
									Strong winds blew down large trees, power lines, and signs. A couple roofs were damaged.
<b>Limestone County</b> Thornton	25	2320CST			0	0	120K		Thunderstorm Wind
									Strong wind damaged the roofs of four homes, and destroyed the roof of a barn and a shed. Trees, power lines, and antennas were

# Storm Data and Unusual Weather Phenomena

February 1998

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, North</u></b>									
blown down.									
<b>Freestone County</b> Freestone	25	2340CST			0	0	0		Thunderstorm Wind
Large tree limbs were blown down.									
<b>Leon County</b> Marquez	25	2345CST			0	0	4K		Thunderstorm Wind
The front porch was removed from a house by strong winds.									
<b>Leon County</b> Jewett	26	0004CST			0	0	60K		Thunderstorm Wind
Strong winds damaged the high school and houses, and blew down trees.									
<b>Leon County</b> Buffalo	26	0010CST			0	0	50K		Thunderstorm Wind
Strong wind removed the roof of the Buffalo DPS office and blew down trees and power lines.									
<b>Leon County</b> Oakwood	26	0010CST			0	0	40K		Thunderstorm Wind
Strong wind severely damaged an antique shop.									
<b>Henderson County</b> Brownsboro	26	0005CST			0	0			Thunderstorm Wind (G52)
<b>Anderson County</b> Palestine	26	0025CST			0	0	0		Thunderstorm Wind
Trees were blown down by strong winds.									
<b>Anderson County</b> Palestine	26	0037CST			0	0	5K		Thunderstorm Wind
Trees and power lines were blown down across the county.									
<b><u>TEXAS, North Panhandle</u></b>									
<b>TXZ011&gt;013-017&gt;018</b>	<b>Oldham - Potter - Carson - Randall - Armstrong</b>								
	16	1200CST			0	0			Heavy Snow
	17	0000CST							
An upper level low pressure area over the Texas Panhandle along with a moist surface flow combined to produce moderate to heavy snows across the western and south-central sections. Snowfall reported from this storm ranged from four to six inches.									
<b><u>TEXAS, Northeast</u></b>									
<b>Upshur County</b> 5 SW Gilmer	09	2015CST			0	0			Hail (0.75)
<b>Harrison County</b> 2 NW Harleton to 3 NE Harleton	09	2105CST 2121CST	3.5	50	0	0			Tornado (F1)
HP Supercell and associated tornado developed along a northeast-southwest orientated cold front and moved slowly east-northeast across Harrison and Marion counties, Texas. The tornado track extended for 16 miles across two counties, however, the damage path was confined to a wooded region away from any population and structures. Damage consisted of small trees and large limbs broken or snapped .									
<b>Marion County</b> 14.5 SW Jefferson to 2.5 NW Jefferson	09	2121CST 2218CST	12.5	50	0	0			Tornado (F1)
HP Supercell and associated tornado developed along a northeast-southwest orientated cold front and moved slowly east-northeast across Harrison and Marion counties, Texas. The tornado track extended for 16 miles across two counties, however, the damage path was confined to a wooded region away from any population and structures. Damage consisted of small trees and large limbs broken or snapped .									
<b>Marion County</b> Jefferson	09	2140CST			0	0			Hail (1.00)
<b>Franklin County</b> 5 E Mt Vernon	10	0809CST			0	0			Hail (0.75)
<b>Cass County</b> Douglassville	10	1230CST			0	0			Hail (0.75)
<b>Cass County</b> Queen City	10	1233CST			0	0			Hail (1.00)
<b>Bowie County</b> Redwater	10	1240CST			0	0			Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Northeast</b>									
<b>Bowie County</b>									
8 SW Texarkana	10	1243CST			0	0			Hail (0.75)
<b>Bowie County</b>									
2 SW Texarkana	10	1243CST			0	0			Hail (1.00)
<b>Bowie County</b>									
4 SW Nash	10	1243CST			0	0			Hail (0.75)
<b>Bowie County</b>									
Texarkana	10	1305CST			0	0			Flash Flood
									Numerous reports of flooding were reported in the city with automobiles stalled in high water, both in the streets and in parking lots.
<b>Angelina County</b>									
Lufkin	10	1332CST			0	0	2.5M		Thunderstorm Wind (G75)
									Winds were recorded at the Lufkin Airport. Reports of 150 power poles were toppled with numerous trees across homes and vehicles.
<b>Angelina County</b>									
3 W Lufkin	10	1332CST			0	0			Thunderstorm Wind (G65)
									Numerous trees were toppled across Hwy 706 and Hwy 103.
<b>Angelina County</b>									
Lufkin	10	1350CST			0	0			Urban/Sml Stream Fld
									An inch and a half of rain in 45 minutes resulted in minor flooding across streets in town.
<b>Nacogdoches County</b>									
Etoile	10	1350CST			0	2	3M		Thunderstorm Wind (G87)
									Numerous trees and powerlines were toppled throughout the community. Felled trees demolished homes and vehicles and ripped apart several mobile homes. An estimated 30 roads were closed across the area. Deep East Texas Coop, the electrical company that services Nacogdoches County, said that 350-400 electrical poles were toppled leaving over 20,000 customers without power. Several chicken houses were also destroyed each costing \$100,000. Electrical crews from Dallas, Temple, Waco, Sulpher Springs, Athens, and Palestine Texas were called in to assist in reestablishing power. Two injuries occurred: The first when the wind turned over a travel trailer with a man inside, the second when a tree fell on a woman in her car sending flying glass into her face. Both injuries were minor.
<b>San Augustine County</b>									
10 S San Augustine	10	1400CST			0	0			Thunderstorm Wind (G52)
									Several trees fell across Hwy 103.
<b>San Augustine County</b>									
4 E Broadus	10	1405CST			0	0			Thunderstorm Wind (G60)
									Several trees fell across Hwy 83.
<b>San Augustine County</b>									
Macune	10	1410CST			0	0	15M		Thunderstorm Wind (G100)
									Numerous trees and powerlines were toppled. Literally hundreds of trees were uprooted or snapped. A number of homes and automobiles throughout the area suffered damage. Several chicken houses had their roofs blown off. The Sabine National Forest suffered over 70,000 acres of damage with 5,000 acres completely levelled resulting in 300 million board feet of timber damaged. Six million dollars in damage belongs to property while nine million dollars belongs to timber loss.
<b>Sabine County</b>									
10 SW Hemphill	10	1415CST			0	0	16M		Thunderstorm Wind (G100)
									Hundreds of trees were uprooted across the area including several that fell across homes and automobiles. Nearly all secondary and Farm to Market roads were closed. Over 300 million board feet of timber was destroyed accounting for 6 million dollars in private timber loss while 10 million dollars damage occurred to homes and property.
<b>TXZ166</b>									
<b>San Augustine</b>									
	10	1440CST			0	0			High Wind (G52)
									Sustained high winds across the county...not associated with thunderstorm convective winds...resulted from a meteorological phenomena known as a Wake High Pressure area behind the initial squall line of storms which damaged much of the county earlier in the day. These winds blew the roofs off of three homes and completed destroying many damaged trees from thunderstorm convective winds.
<b>Shelby County</b>									
Tenaha	10	1450CST			0	0	8M		Thunderstorm Wind (G80)
									Numerous reports of downed trees and power lines throughout the area. Every customer in the area lost power for several days. Property damage in the region resulted climbed to over 1 million dollars while over 6 million dollars damaged occurred in private timber loss.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Northeast</b>									
<b>TXZ136</b>									
		<b>Smith</b>							
	<b>10</b>	<b>1540CST</b>			<b>0</b>	<b>0</b>			<b>High Wind (G70)</b>
		<b>1640CST</b>							
		Strong winds associated with a Wake Low behind a squall line was responsible for numerous power lines down. Damage was reported 10 west of Tyler, Texas.							
<b>TXZ136</b>									
		<b>Smith</b>							
	<b>10</b>	<b>1540CST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>High Wind (G70)</b>
		High winds resulting from a Wake High Pressure system caused tree and powerline damage throughout the county. Some trees fell across homes resulting in light to moderate damage.							
<b>Marion County</b>									
<b>Jefferson</b>	<b>19</b>	<b>1703CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
<b>Marion County</b>									
<b>Jefferson</b>	<b>19</b>	<b>1715CST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.75)</b>
<b>Smith County</b>									
<b>5 W Tyler</b>	<b>26</b>	<b>0020CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Reports of trees and powerlines down west of town.							
<b>Camp County</b>									
<b>Pittsburg</b>	<b>26</b>	<b>0030CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
<b>Gregg County</b>									
<b>2 W Gladewater</b>	<b>26</b>	<b>0033CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Wind gusts were recorded from a trained spotter.							
<b>Gregg County</b>									
<b>2 E Gladewater</b>	<b>26</b>	<b>0045CST</b>			<b>0</b>	<b>0</b>	<b>1K</b>		<b>Thunderstorm Wind (G65)</b>
		Storm Spotter reported thunderstorm winds blew an awning off a house while trees and powerlines were toppled across the area resulting in over 1000 customers without power.							
<b>Upshur County</b>									
<b>Union Grove</b>	<b>26</b>	<b>0045CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Trees and powerlines were toppled across the area including one that blocked U.S. Hwy 80.							
<b>Cherokee County</b>									
<b>5 S Rusk</b>	<b>26</b>	<b>0052CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
<b>Cherokee County</b>									
<b>4 W Rusk</b>	<b>26</b>	<b>0052CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Downed trees and power lines resulted in numerous outages.							
<b>Harrison County</b>									
<b>Harleton</b>	<b>26</b>	<b>0100CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Winds recorded by trained storm spotter.							
<b>Rusk County</b>									
<b>Henderson</b>	<b>26</b>	<b>0100CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
<b>Bowie County</b>									
<b>Maud</b>	<b>26</b>	<b>0120CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G60)</b>
		Winds reported by Sheriffs Office.							
<b>Angelina County</b>									
<b>5 N Lufkin</b>	<b>26</b>	<b>0125CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G65)</b>
		Reported by the Sheriffs Office.							
<b>Angelina County</b>									
<b>10 W Lufkin</b>	<b>26</b>	<b>0125CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G65)</b>
<b>Nacogdoches County</b>									
<b>Nacogdoches</b>	<b>26</b>	<b>0128CST</b>			<b>0</b>	<b>0</b>			<b>Hail (0.88)</b>
<b>Nacogdoches County</b>									
<b>Nacogdoches</b>	<b>26</b>	<b>0130CST</b>			<b>0</b>	<b>0</b>	<b>60K</b>		<b>Thunderstorm Wind (G60)</b>
		Two mobile homes were blown completely over but no injuries were reported. Numerous trees toppled.							
<b>Nacogdoches County</b>									
<b>Garrison</b>	<b>26</b>	<b>0145CST</b>			<b>0</b>	<b>0</b>	<b>80K</b>		<b>Thunderstorm Wind (G65)</b>
		Trees were blown over throughout the area including one across a home causing major damage. The wind also rolled a mobile home.							

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, Northeast</b>									
<b>Marion County</b> 5 NW Jefferson	26	0145CST			0	0			<b>Thunderstorm Wind (G60)</b> Trees and powerlines were toppled along FM 726 and TX 49.
<b>Harrison County</b> 1 N Marshall	26	0150CST			0	0	68K		<b>Thunderstorm Wind (G78)</b> Numerous reports of trees and powerlines toppled. Some trees that fell in and near the Linwood Drive Community caused minor roof damage to homes and removed some porches. Ten different locations in Marshall suffered damage with nearly 600 homes losing power. Winds measured by WCM who had porch removed from his home.
<b>Panola County</b> 2 W Clayton	26	0200CST			0	0			<b>Thunderstorm Wind (G70)</b> Skywarn Spotter reported numerous trees down in and around the community.
<b>Panola County</b> 10 N Gary	26	0200CST			0	0	20K		<b>Thunderstorm Wind (G70)</b> Skywarn Spotter reported several chicken houses were damaged or destroyed.
<b>Shelby County</b> 5 SE Center	26	0200CST			0	0	10K		<b>Thunderstorm Wind (G65)</b> Winds blew out windows of local businesses while trees and powerlines fell leading to numerous blackouts throughout the area.
<b>Sabine County</b> 2 N Milam	26	0215CST			0	0			<b>Thunderstorm Wind (G60)</b>
<b>San Augustine County</b> 5 N San Augustine	26	0220CST			0	0	50K		<b>Thunderstorm Wind (G70)</b> Numerous trees toppled including one that fell across a home north of town
<b>TEXAS, South</b>									
<b>Zapata County</b> 22 E San Ygnacio	01	1302CST			0	0			<b>Hail (0.75)</b>
<b>Jim Hogg County</b> 30 S Hebronville	01	1330CST			0	0			<b>Hail (0.75)</b>
<b>Starr County</b> 5 N Rio Grande City	01	1333CST			0	0			<b>Hail (0.75)</b>
<b>Starr County</b> 30 N Rio Grande City	01	1335CST			0	0			<b>Hail (0.75)</b>
<b>Hidalgo County</b> Sullivan City	01	1405CST			0	0			<b>Hail (0.75)</b>
<b>Starr County</b> 1 N Grulla	01	1430CST			0	0			<b>Hail (1.00)</b>
<b>Willacy County</b> Sebastian	01	1515CST			0	0			<b>Hail (1.00)</b>
<b>Hidalgo County</b> Edinburg	01	1520CST			0	0			<b>Hail (0.75)</b>
<b>Cameron County</b> Santa Rosa	01	1545CST			0	0			<b>Hail (1.00)</b>
<b>Hidalgo County</b> Mercedes	01	1545CST			0	0			<b>Hail (0.75)</b>
<b>Cameron County</b> (Hrl)Rio Grande Arpt	01	1553CST			0	0			<b>Thunderstorm Wind (G58)</b>
<b>Willacy County</b> Sebastian	01	1558CST			0	0	10K		<b>Tstm Wind/Hail</b> Home under construction destroyed.
<b>Cameron County</b> Rio Hondo	01	1610CST			0	0			<b>Hail (0.75)</b>
<b>Cameron County</b> Harlingen	01	1618CST			0	0			<b>Hail (1.75)</b>
<b>Cameron County</b> Harlingen	01	1622CST			0	0	5K		<b>Thunderstorm Wind</b> Trees and power lines down.

# Storm Data and Unusual Weather Phenomena

February 1998

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, South</u></b>									
<b>Zapata County</b> 16 NE Zapata	21	1600CST			0	0			Hail (0.75)
<b>Jim Hogg County</b> 4 SW Hebronville	21	1620CST			0	0	1K		Thunderstorm Wind (G75) Barn damaged by wind.
<b>Jim Hogg County</b> Guerra	21	1624CST			0	0			Hail (1.75)
<b>Jim Hogg County</b> 16 S Hebronville	21	1645CST			0	0			Hail (1.00)
<b>Starr County</b> 3.3 E El Sauz	21	1655CST			0	0			Tstm Wind/Hail 50 knot gusts and 1 inch hail.
<b>Brooks County</b> Encino	21	1730CST			0	0			Hail (0.75)
<b>Starr County</b> Rio Grande City	21	1730CST			0	0			Hail (0.75)
<b>Hidalgo County</b> Mission	21	1815CST			0	0	3K		Thunderstorm Wind Extensive tree damage.
<b>Cameron County</b> San Benito	21	1951CST			0	0			Hail (0.75)
<b><u>TEXAS, South Central</u></b>									
<b>Bexar County</b> San Antonio	05	1552CST 1600CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b> San Antonio	05	1625CST 1630CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b> San Antonio	05	1635CST 1640CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b> San Antonio	05	1729CST 1740CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b> San Antonio	05	1800CST 1810CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b> 17 SE San Antonio	05	1830CST 1840CST			0	0	0	0	Hail (0.75)
<b>Blanco County</b> 3 SE Blanco to 5 SE Blanco	05	1722CST 1730CST			0	0	0	0	Hail (0.75)
<b>Comal County</b> Fischer	05	1735CST 1745CST			0	0	0	0	Hail (0.75)
<b>Comal County</b> Canyon Res	05	1745CST 1755CST			0	0	0	0	Hail (0.75)
<b>Comal County</b> Sattler	05	1807CST 1815CST			0	0	0	0	Hail (0.75) Hail to a depth of 4 inches was reported by HAM radio spotters.
<b>Atascosa County</b> 1 N Leming to 7 SE Leming	05	1855CST 1910CST			0	0	0	0	Hail (1.75)



# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Guadalupe County</b> Seguin	05	1900CST 1910CST			0	0	0	0	Hail (0.75)
<b>Wilson County</b> 2 NW La Vernia	05	1930CST 1940CST			0	0	0	0	Hail (0.75)
<b>Kerr County</b> 10 W Kerrville	10	0345CST 0355CST			0	0	0	0	Hail (0.75)
Reported by HAM radio spotters.									
<b>Kerr County</b> Kerrville	10	0405CST 0415CST			0	0	0	0	Hail (1.75)
<b>Gillespie County</b> Fredericksburg	10	0435CST 0440CST			0	0	0	0	Hail (0.75)
<b>Gillespie County</b> Fredericksburg	10	0500CST 0515CST			0	0	0	0	Hail (0.75)
<b>Llano County</b> 13 SE Llano	10	0530CST 0540CST			0	0	0	0	Hail (0.75)
<b>Bandera County</b> Medina	10	0553CST 0600CST			0	0	0	0	Hail (0.75)
<b>Zavala County</b> La Pryor	10	0640CST 0650CST			0	0	0	0	Hail (0.75)
<b>Medina County</b> 2 W Devine to 8 E Devine	10	0715CST 0735CST			0	0	10M	50K	Hail (2.75)
<b>Medina County</b> 2 W Devine to 8 E Devine	10	0715CST 0735CST			0	0	10M	50K	Thunderstorm Wind
Hail propelled by winds estimated at over 80 mph broke windows and destroyed vegetation across the southeast corner of the county. The hail was piled up to 3 feet deep in many locations, and, in spite of temperatures through the mid morning in the mid 60s to near 70, hail piles were still visible at noon when the NWS survey team arrived. Over 1000 windows were broken out of homes and cars in Devine. Major damage was reported to 12 homes with minor damage to nearly 1300 others. Hundreds of cars were damaged by the combination of wind and hail. Also several school buses were damaged.									
<b>Frio County</b> Moore	10	0725CST 0726CST			0	0	0	0	Funnel Cloud
<b>Frio County</b> 1 E Moore to 5 E Moore	10	0725CST 0735CST			0	0	100K	10K	Thunderstorm Wind
Severe thunderstorm winds caused damage between Moore and Big Foot, destroying a grainery at Moore and a shed at Big Foot.									
<b>Bexar County</b> Somerset	10	0805CST 0815CST			0	0	10K	50K	Hail (1.75)
<b>Bexar County</b> Somerset	10	0805CST 0815CST			0	0	10K	50K	Thunderstorm Wind
Downbursts over northern Atascosa and southern Bexar Counties, at times accompanied by large hail, resulted in the destruction of hundreds of trees									
<b>Atascosa County</b> 10 NW Poteet	10	0815CST 0825CST			0	0	20K	50K	Thunderstorm Wind
<b>Atascosa County</b> Leming	10	0821CST 0830CST			0	0	0	50K	Hail (1.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Wilson County</b> 2 N La Vernia	10	0850CST	0.1	100	0	0	0	0	<b>Tornado (F0)</b>
									A brief tornado was observed by HAM radio spotters.
<b>Gonzales County</b> Cheapside	10	0925CST 0935CST			0	0	10K	0	<b>Thunderstorm Wind</b>
									Trees were reported to have been blown down by severe thunderstorm winds.
<b>Guadalupe County</b> 12 S Seguin	10	0925CST 0927CST	0.2	200	0	0	0	0	<b>Tornado (F0)</b>
									A brief tornado was spotted by Department of Public Safety trooper near the Wilson County line.
<b>De Witt County</b> Westhoff	10	0940CST 0950CST			0	0	20K	5K	<b>Thunderstorm Wind</b>
<b>De Witt County</b> Cuero	10	1000CST 1010CST			0	0	100K	10K	<b>Thunderstorm Wind</b>
<b>De Witt County</b> Petersville	10	1020CST 1030CST			0	0	70K	5K	<b>Thunderstorm Wind</b>
									High winds knocked down trees and caused damage to windows and roofs of buildings in the Westhoff and Petersville areas. At Cuero, winds blew in the walls a roof of a building.
<b>Lavaca County</b> Yoakum	10	1040CST 1055CST			0	0	60K	5K	<b>Thunderstorm Wind</b>
<b>Lavaca County</b> Hallettsville	10	1100CST 1110CST			0	0	100K	10K	<b>Thunderstorm Wind</b>
									Severe downbursts damaged roofs, awnings and carports of homes, and blew over trees. Two mobile homes were destroyed near Hallettsville by the wind. Wind gusts at the airport in Yoakum were measured at 73 kts.
<b>Caldwell County</b> 5 S Lockhart	10	1525CST 1535CST			0	0	0	0	<b>Hail (1.00)</b>
<b>Bastrop County</b> Bastrop	10	1633CST 1640CST			0	0	0	0	<b>Hail (0.75)</b>
<b>Bastrop County</b> 5 SE Bastrop	10	1640CST 1650CST			0	0	0	0	<b>Hail (0.75)</b>
<b>Llano County</b> 2 N Castell	12	1530CST 1540CST			0	0	0	0	<b>Hail (1.00)</b>
<b>Frio County</b> Dilley	12	1633CST 1640CST			0	0	0	0	<b>Hail (0.75)</b>
<b>Zavala County</b> 2 N Batesville to 3 SE Batesville	12	1715CST 1725CST			0	0	0	150K	<b>Hail (2.50)</b>
									Hail was piled up to 5 inches deep and destroyed 4500 acres of onions.
<b>Guadalupe County</b> 1 N Staples to 4 E Staples	12	1735CST 1740CST			0	0	0	0	<b>Hail (0.75)</b>
<b>Caldwell County</b> 5 SE Martindale	12	1740CST 1745CST			0	0	0	0	<b>Hail (0.75)</b>
<b>Frio County</b> Dilley	12	1820CST 1830CST			0	0	0	0	<b>Hail (0.75)</b>

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Maverick County</b>									
El Indio	16	0242CST 0250CST			0	0	0	0	Hail (0.75)
<b>Dimmit County</b>									
18 SW Carrizo Spgs	16	0300CST 0315CST			0	0	0	0	Hail (0.75)
<b>Medina County</b>									
Hondo	16	0332CST 0340CST			0	0	0	0	Hail (0.75)
<b>Lavaca County</b>									
Countywide	16	0900CST 1030CST			0	0	0	3K	Flash Flood
Rainfall of between 3 and 4 inches over most of the county caused Flash Flood along the Lavaca and Navidad Rivers countywide.									
<b>Frio County</b>									
Big Foot	18	1700CST 1715CST			0	0	0	0	Hail (0.75)
<b>Atascosa County</b>									
Jourdanton	18	1740CST 1745CST			0	0	0	0	Hail (1.00)
<b>Wilson County</b>									
Poth	18	1745CST 1755CST			0	0	0	0	Hail (0.75)
<b>Atascosa County</b>									
Campbellton	18	1750CST 1755CST			0	0	0	0	Hail (1.00)
<b>Atascosa County</b>									
5 N Campbellton	18	1815CST 1817CST			0	0	0	0	Funnel Cloud
<b>Llano County</b>									
8 NW Llano	18	1815CST 1825CST			0	0	0	0	Hail (0.75)
<b>Wilson County</b>									
Poth	18	1815CST 1817CST			0	0	0	0	Funnel Cloud
<b>Atascosa County</b>									
3 E Campbellton	18	1838CST 1845CST			0	0	0	0	Hail (0.75)
<b>Karnes County</b>									
Karnes City	18	1900CST 1905CST			0	0	0	0	Hail (0.75)
<b>Karnes County</b>									
1 W Karnes City	18	1930CST 1940CST			0	0	0	0	Hail (0.75)
<b>Burnet County</b>									
Burnet	18	1931CST 1940CST			0	0	0	0	Hail (0.75)
<b>Williamson County</b>									
Jarrell	18	1942CST 1950CST			0	0	0	0	Hail (0.75)
<b>Atascosa County</b>									
Countywide	18	2015CST 2300CST			0	0	5K	0	Flash Flood
Due to general rainfall of between 3 and 4 inches, flash flooding developed over numerous county roads, continuing almost until midnight.									
<b>Atascosa County</b>									
Poteet	18	2015CST 2025CST			0	0	0	0	Hail (0.75)
<b>Atascosa County</b>									
Charlotte	18	2055CST 2105CST			0	0	0	0	Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Karnes County</b>									
Kenedy	18	2137CST 2145CST			0	0	0	0	Hail (0.75)
<b>Frio County</b>									
Moore	21	1515CST 1525CST			0	0	0	0	Hail (0.75)
<b>Frio County</b>									
Countywide	21	1600CST 1800CST			0	0	3K	0	Flash Flood
<b>Atascosa County</b>									
Countywide	21	1630CST 1830CST			0	0	3K	0	Flash Flood
<b>Medina County</b>									
Lacoste	21	1630CST 1830CST			0	0	3K	0	Flash Flood
<b>Bexar County</b>									
Countywide	21	1700CST 1900CST			0	0	5K	0	Flash Flood
<b>Kendall County</b>									
Countywide	21	1800CST 1900CST			0	0	3K	0	Flash Flood
General 2 to 3 inch rainfall in less than 2 hours produced widespread flash flooding over roads and low water crossings over several counties.									
<b>Atascosa County</b>									
Lytle	21	1625CST 1635CST			0	0	50K	5K	Hail (1.75)
<b>Atascosa County</b>									
Lytle	21	1625CST 1640CST			0	0	50K	5K	Thunderstorm Wind
Downburst winds blew over and destroyed a mobile home near Lytle. Also, hail propelled by the very high winds blew out windows of homes and cars in and around the Lytle area.									
<b>Bexar County</b>									
Leon Spgs	21	1627CST 1635CST			0	0	0	0	Thunderstorm Wind (G53)
<b>Bexar County</b>									
San Antonio	21	1640CST 1650CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b>									
San Antonio	21	1640CST 1650CST			0	0	100K	10K	Thunderstorm Wind
<b>Bexar County</b>									
San Antonio	21	1710CST 1715CST			0	0	10K	0	Thunderstorm Wind
Severe winds destroyed roofs of homes and blew in windows of homes and cars. Power lines were also blown down in and around San Antonio.									
<b>Wilson County</b>									
Poth	21	1715CST 1725CST			0	0	30K	0	Thunderstorm Wind
High winds blew down several trees in the Poth area.									
<b>Guadalupe County</b>									
Mc Queeney	21	1730CST 1740CST			0	0	0	0	Hail (0.75)
<b>Gonzales County</b>									
Bebe	21	1815CST 1825CST			0	0	0	0	Hail (0.75)
<b>Hays County</b>									
Countywide	21	1745CST 1845CST			0	0	5K	0	Flash Flood

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Caldwell County</b> Countywide	21	1800CST 1930CST			0	0	5K	0	Flash Flood
<b>Travis County</b> Countywide	21	1800CST 1900CST			0	0	10K	0	Flash Flood
<b>Gonzales County</b> Countywide	21	1830CST 1900CST			0	0	5K	0	Flash Flood
<b>Lavaca County</b> Countywide	21	1900CST 2200CST			0	0	5K	0	Flash Flood
<b>De Witt County</b> Countywide	21	1930CST 2300CST			0	0	5K	0	Flash Flood
Flash flooding developed over low water crossings and across numerous county roads as rainfall of generally 2 to 3 inches with isolated 4 inch totals fell across the area. The most severe flooding occurred in Lavaca and DeWitt Counties									
<b>Val Verde County</b> 15 E Comstock	25	1755CST 1815CST			0	0	50K	5K	Thunderstorm Wind
A severe downburst destroyed a building east of Comstock, also damaging trees and vegetation in the area.									
<b>Gillespie County</b> 4 N Fredericksburg	25	1950CST 1955CST			0	0	0	0	Hail (1.75)
Severe winds caused damage to numerous roofs in the Fredericksburg area.									
<b>Kerr County</b> Mountain Home	25	2000CST 2010CST			0	0	0	0	Hail (0.75)
<b>Llano County</b> 10 SW Llano	25	2005CST 2010CST			0	0	0	0	Hail (0.75)
<b>Uvalde County</b> Sabinal	25	2020CST 2030CST			0	0	0	0	Hail (1.00)
<b>Gillespie County</b> Fredericksburg	25	2030CST 2040CST			0	0	80K	10K	Thunderstorm Wind
<b>Kendall County</b> Boerne	25	2030CST 2040CST			0	0	0	0	Hail (0.75)
<b>Bandera County</b> Pipecreek	25	2055CST 2100CST			0	0	0	0	Hail (0.75)
<b>Val Verde County</b> Del Rio	25	2030CST 2035CST			0	0	0	0	Hail (0.75)
<b>Zavala County</b> 10 N Crystal City	25	2050CST 2100CST			0	0	0	50K	Hail (0.75)
Hail driven by winds of 30 to 40 knots destroyed around 350 acres of onions and cabbage.									
<b>Medina County</b> 2 NW Natalia to 1 N Natalia	25	2100CST 2105CST	1	200	0	0	0	5K	Tornado (F0)
<b>Medina County</b> Devine	25	2107CST 2115CST			0	0	0	0	Hail (1.75)

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>TEXAS, South Central</b>									
<b>Atascosa County</b>									
1 N Lytle to 1 NE Lytle	25	2120CST 2123CST	1.5	300	0	0	25K	2K	Tornado (F1)
<b>Bexar County</b>									
6 W Somerset to 5 W Somerset	25	2123CST 2125CST	1	300	0	0	25K	3K	Tornado (F1)
A small tornado developed in a supercell thunderstorm just northwest of Devine and moved eastward around 1 mile before dissipating. The same thunderstorm continued eastward, moving over Lytle in Atascosa County, before producing a second tornado just northeast of Lytle along the Bexar-Atascosa County line. This second tornado destroyed a mobile home, then moved into open terrain and dissipated.									
<b>Burnet County</b>									
Burnet	25	2100CST 2105CST			0	0	5K	0	Thunderstorm Wind (G54)
<b>Burnet County</b>									
Buchanan Lake	25	2105CST 2110CST			0	0	20K	0	Thunderstorm Wind (G71)
<b>Burnet County</b>									
5 S Buchanan Lake	25	2110CST 2115CST			0	0	20K	0	Thunderstorm Wind
Trees were reported blown down by severe thunderstorm winds at Inks Lake and Lake Buchanan.									
<b>Frio County</b>									
Frio Town	25	2124CST 2130CST			0	0	0	0	Hail (1.75)
<b>Comal County</b>									
Fischer	25	2130CST 2140CST			0	0	0	0	Hail (0.75)
<b>Blanco County</b>									
Round Mtn	25	2135CST 2145CST			0	0	50K	0	Thunderstorm Wind
Severe winds from a thunderstorm blew down trees in and around Round Mountain.									
<b>Williamson County</b>									
Georgetown Muni Arpt	25	2136CST 2140CST			0	0	0	0	Thunderstorm Wind (G63)
<b>Hays County</b>									
2 S Wimberley	25	2145CST 2155CST			0	0	0	0	Hail (0.75)
<b>Williamson County</b>									
Countywide	25	2145CST 2200CST			0	0	100K	20K	Thunderstorm Wind
Severe winds caused spotty damage across much of the county. A barn was severely damaged just south of Jarrell, with trees and power lines reported blown over in Taylor.									
<b>Williamson County</b>									
2 S Georgetown	25	2145CST 2150CST			0	0	0	0	Thunderstorm Wind (G53)
<b>Travis County</b>									
Austin	25	2210CST 2215CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b>									
San Antonio	25	2215CST 2220CST			0	0	0	0	Hail (0.75)
<b>Bandera County</b>									
Bandera	25	2341CST 2350CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b>									
5 NW San Antonio	26	0046CST 0100CST			0	0	0	0	Hail (1.75)
<b>Comal County</b>									
New Braunfels	26	0055CST 0100CST			0	0	0	0	Hail (0.75)

# Storm Data and Unusual Weather Phenomena

February 1998

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, South Central</u></b>									
<b>Bastrop County</b>									
Elgin	26	0100CST 0110CST			0	0	0	0	Hail (0.75)
<b>Hays County</b>									
San Marcos	26	0105CST 0115CST			0	0	0	0	Hail (0.75)
<b>Lavaca County</b>									
Hallettsville	26	0130CST 0140CST			0	0	0	0	Hail (0.75)
<b>Atascosa County</b>									
Leming	26	0150CST 0200CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b>									
3 N Elmendorf	26	0200CST 0210CST			0	0	0	0	Hail (0.75)
<b>Medina County</b>									
Castroville	26	0215CST 0225CST			0	0	0	0	Hail (1.00)
<b>Atascosa County</b>									
Charlotte	26	0225CST 0235CST			0	0	0	0	Hail (0.75)
<b>Wilson County</b>									
2 S La Vernia	26	0227CST 0235CST			0	0	0	0	Hail (0.75)
<b>Bexar County</b>									
San Antonio	26	0229CST 0235CST			0	0	0	0	Hail (0.75)
<b>Guadalupe County</b>									
2 S Marion	26	0240CST 0250CST			0	0	0	0	Hail (0.75)
<b>Comal County</b>									
Bulverde	26	0255CST 0305CST			0	0	0	0	Hail (0.75)
<b>Gonzales County</b>									
Gonzales	26	0315CST 0320CST			0	0	0	0	Hail (0.75)
<b>Lavaca County</b>									
Countywide	26	0245CST 0300CST			0	0	3K	0	Flash Flood

Numerous county roads were reported under water as rainfall of generally 2 to 3 inches with isolated amounts of 4 inches fell over the county.

## **TEXAS, South Panhandle**

### **Cottle County**

Narcisso                      18      1839CST                      0      0                      0      0                      Hail (1.00)

Scattered to numerous showers and thunderstorms developed over the Low Rolling Plains. A television station chase crew reported that a severe thunderstorm produced quarter-sized hail in Cottle County along Highway 62/70 about nine miles west of Paducah near the community of Narcisso.

## **TEXAS, Southeast**

### **Tyler County**

Chester                      10      1330CST                      0      0                      10K                      Thunderstorm Wind

Numerous reports of trees downed...especially along Highway 287 in Chester, and Highway 1013 in Hillister and Spurger.

### **Tyler County**

2 S Warren                      10      1330CST                      0      0                                           Hail (1.75)

### **Hardin County**

Silsbee                      10      1340CST                      0      0                      250K                      Thunderstorm Wind

Several cars were overturned at the Pine Harbor Health Center in Silsbee. Local wind equipment recorded winds in excess of 79 mph. At the Louisiana Pacific Lumber Company, over one hundred tall pine trees were snapped. Several homes and businesses in the area received roof damage.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## TEXAS, Southeast

### **Orange County** Mauriceville

10	1400CST				0	0	10K		<b>Thunderstorm Wind</b>
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Trees were blown down.

### **Jasper County** Jasper

10	1405CST				0	0	10K	40M	<b>Thunderstorm Wind</b>
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Several trees were blown down on Highway 63W.

The 40 million dollars worth of damages occurred to the timber industry. Of the 160,000 acres of forest in the Sabine National Forest, 70,000 acres were damaged, of which 5,000 acres were totally flattened. See additional information in the Northeast Texas division, under Sabine and San Augustine Counties.

### **Newton County** Newton

10	1410CST				0	0	10K		<b>Thunderstorm Wind</b>
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Many trees were blown down on Highway 87 north of Newton, near the Highway 253 interchange and Ford Cemetery Road.

### **Jasper County** Buna

10	1427CST	5	20		0	0	1M		<b>Tornado (F1)</b>
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The same storm that hit the Silsbee area moved across Buna, and produced an F1 tornado. Most of the damage was F0. Over 150 homes and businesses received some form of damage. Less than 25 of these buildings were considered severe damage. A local school recorded winds between 60 and 70 mph as the tornado passed within one mile of it.

### **Newton County** 10 NE Burkeville

10	1430CST				0	0	10K		<b>Thunderstorm Wind</b>
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Wind in excess of 60 mph blew trees and power lines down along the southern edges of Toledo Bend Lake.

### **Jefferson County** Port Arthur

10	1430CST				0	0	20K		<b>Thunderstorm Wind</b>
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The roof was blown off a local restaurant during a severe thunderstorm.

### **Jefferson County** Port Arthur

10	1440CST				0	0	10K		<b>Thunderstorm Wind (G57)</b>
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Winds recorded as 66 mph near the petroleum industry plants in the Port Arthur area.

### **Orange County** Orange

10	1500CST				0	0			<b>Hail (1.00)</b>
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### **Orange County** Orange

10	1515CST				0	1	10K		<b>Lightning</b>
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A freak lightning strike hit a truck on Interstate 10. The engine was damaged, and the driver was shocked by the electricity. He said the charge entered his body through the accelerator, and exited his body through his elbow. He complained of tingles and severe headaches, and his elbow had a red spot.

### **Jefferson County** Nederland

22	0030CST				0	0	10K		<b>Thunderstorm Wind</b>
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Trees blown down in Nederland.

### **Orange County** Vidor

22	0045CST				0	0	10K		<b>Thunderstorm Wind</b>
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Trees and power lines were blown down.

### **Tyler County** Colmesnelle

26	0230CST				0	0	10K		<b>Thunderstorm Wind</b>
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Numerous trees were blown down.

### **Tyler County** Warren

26	0622CST				0	0	10K		<b>Thunderstorm Wind</b>
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Trees were blown down, blocking the roadway.

### **Newton County** 2 SE Newton

26	0658CST				0	0	10K		<b>Thunderstorm Wind</b>
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Windows were blown out of a residence near Newton during a severe thunderstorm.

### **Jefferson County** Port Arthur

26	0730CST				0	0			<b>Thunderstorm Wind (G52)</b>
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## TEXAS, West

NONE REPORTED.

## TEXAS, Western North

### **TXZ083>084**

<b>Hardeman - Foard</b>	
04	2300CST
05	1300CST

0	0			<b>Heavy Snow</b>
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# Storm Data and Unusual Weather Phenomena

February 1998

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

## TEXAS, Western North

Rain changed to snow across portions of western Oklahoma and western north Texas late in the evening of February 4th, then moderate to heavy snow lasted through midday of the 5th. Snow accumulations of 2 to 3 inches were reported across far southwestern Oklahoma from Beckham County south across Greer, Jackson, and Harmon Counties in Oklahoma and across the Red River into Hardeman and Foard Counties in Texas. The heaviest snow was reported in Harmon County, where Hollis measured 4 inches.

## UTAH, North, Central and South

<b>UTZ004-016</b>	<b>Southern Wasatch Front/Lehi/Provo/Nephi - Southwest Utah/Cedar City/Milford</b>								
	<b>03</b>	<b>2000MST</b>			<b>0</b>	<b>0</b>	<b>12K</b>	<b>8K</b>	<b>High Wind (G62)</b>
	<b>04</b>	<b>1000MST</b>							
	High easterly canyon winds occurred on this night. The winds downed trees, power lines and damaged roofs. Springville had a measured wind gust to 71 mph (62kts), Provo (BYU) had a measured gust to 69 mph (60kts) and Cedar City 59 mph (51kts).								
<b>UTZ008-017</b>	<b>Wasatch Mountains South Of I80 - Central And Southwest Mountains</b>								
	<b>04</b>	<b>0000MST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Heavy Snow</b>
	<b>05</b>	<b>1700MST</b>							
	Heavy snow fell in the western mountains. Sundance had 11" and Duck Creek Village 13" for tops in the state. Heavy rainfall along the Wasatch Front caused minor urban flooding. Sugarhouse received 1.46" of rain.								
<b>UTZ001&gt;004-006&gt;010-012-016&gt;017-020-022&gt;023</b>	<b>Cache Valley/Utah Portion - 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 - Western Unita Mountains - Wasatch Plateau/Book Cliffs - Castle Country/Price/Castle/Dale/Emery - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains - South Central Utah/Kanab/Escalante - Southeast Utah/Blanding - Eastern Uinta Mountains</b>								
	<b>07</b>	<b>0100MST</b>			<b>2</b>	<b>20</b>	<b>80K</b>	<b>20K</b>	<b>Heavy Snow</b>
	<b>09</b>	<b>1700MST</b>							
	Periods of heavy snow occurred in the state. Numerous traffic accidents resulted in injuries and 2 fatalities. Brighton and Solitude had 33" of snow and Enterprise had 14" for the highest storm totals. M19VE, F89VE								
<b>UTZ002&gt;004-006&gt;008</b>	<b>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</b>								
	<b>11</b>	<b>0400MST</b>			<b>0</b>	<b>0</b>	<b>15K</b>		<b>Heavy Snow</b>
		<b>1800MST</b>							
	Heavy snow fell in northern Utah. Alta with 16" and Pleasant Grove (valleys) with 6" had the highest snowfall.								
<b>UTZ002&gt;010-012-014&gt;018-022&gt;023-025</b>	<b>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 - Castle Country/Price/Castle/Dale/Emery - Sanpete/Sevier Valleys - West Central Utah/Delta - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains - Southeast Mountains/Canyonlands - Southeast Utah/Blanding - Eastern Uinta Mountains - Tavaputs Plateau</b>								
	<b>14</b>	<b>1000MST</b>			<b>0</b>	<b>4</b>	<b>40K</b>	<b>10K</b>	<b>Heavy Snow</b>
	<b>16</b>	<b>1200MST</b>							
	A storm dumped heavy snow throughout much of Utah. Brian Head had 34" and Kanosh had 17" (valleys) for the highest storm snowfall totals.								
<b>UTZ002&gt;003-008-017</b>	<b>Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Wasatch Mountains South Of I80 - Central And Southwest Mountains</b>								
	<b>18</b>	<b>0000MST</b>			<b>0</b>	<b>0</b>	<b>5K</b>	<b>0.50K</b>	<b>Heavy Snow</b>
		<b>1200MST</b>							
	Snow, locally heavy, fell in portions of northern Utah.								
<b>UTZ001&gt;012-014&gt;017</b>	<b>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 - Sanpete/Sevier Valleys - West Central Utah/Delta - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains</b>								
	<b>21</b>	<b>0600MST</b>			<b>0</b>	<b>40</b>	<b>900K</b>	<b>200K</b>	<b>Winter Storm</b>
	<b>27</b>	<b>2000MST</b>							
	An active storm pattern dumped record snowfall and brought high winds to Utah. Hundreds of traffic accidents were reported. Alta measured 87" of snow and Bountiful 51" (valleys) during this time. Some of the highest wind gusts reported were Signal Peak								

# Storm Data and Unusual Weather Phenomena

February 1998

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

**UTAH, North, Central and South**

RAWS (Sevier county) 93 mph (81kts) and Bullfrog Marina 62 mph (54kts).

**UTAH, Northeast**

NONE REPORTED.

**VERMONT, North and Central**

**VTZ005**

**Chittenden**

<b>18</b>	<b>0400EST</b>	<b>0</b>	<b>0</b>	<b>20K</b>	<b>High Wind (G44)</b>
	<b>0900EST</b>				

A complex storm system over the Great Lakes region on Wednesday (February 18) with a secondary system off the New Jersey coast moved south of New England by Thursday (February 19). Strong winds resulted along the west slopes of Vermont's Green Mountains the morning of February 18.

A wind speed of 51 mph (44 knots) was reported at Huntington in Chittenden county. Brief power outages were reported during the morning.

**VTZ009**

**Addison**

<b>18</b>	<b>0500EST</b>	<b>0</b>	<b>0</b>	<b>40K</b>	<b>High Wind (G63)</b>
	<b>1000EST</b>				

A complex storm system over the Great Lakes region on Wednesday (February 18) with a secondary system off the New Jersey coast moved south of New England by Thursday (February 19). Strong winds resulted along the west slopes of Vermont's Green Mountains the morning of February 18.

Many reports of winds over 40 mph were received from Addison county, Vermont. In particular, a weather observer in South Lincoln reported wind gusts to 73 mph (63 knots) while in Salisbury winds gusted to 60 mph (52 knots). Trees and power lines were reported down with many power outages. In addition, a trailer truck was blown over in the town of Leicester.

**VTZ011**

**Rutland**

<b>18</b>	<b>0500EST</b>	<b>0</b>	<b>0</b>	<b>70K</b>	<b>High Wind (G42)</b>
	<b>1000EST</b>				

A complex storm system over the Great Lakes region on Wednesday (February 18) with a secondary system off the New Jersey coast moved south of New England by Thursday (February 19). Strong winds resulted along the west slopes of Vermont's Green Mountains during the morning of February 18.

A number of reports of damage from strong winds were received from Rutland county. In particular, in East Clarendon, metal sheathing was ripped off the roof of a covered bridge. In Danby, the wind sheared off a metal roof. Trees and power lines were reported down across the county with many power outages.

In the city of Rutland, many signs were destroyed with winds reported at 48 mph (42 knots).

**VTZ001>002-005>006-008>010**

**Grand Isle - Franklin - Chittenden - Lamoille - Washington - Addison - Orange**

<b>24</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>130K</b>	<b>Winter Storm</b>
<b>25</b>	<b>1500EST</b>				

A storm system along the Virginia coast early Tuesday morning (February 24) moved northeast along the New Jersey coast during Tuesday to a position off the southern New England coast Tuesday night (February 24) before moving slowly east.

Snow spread across the region Tuesday afternoon and became heavy Tuesday night. A number of traffic accidents were reported. The snow tapered off to light snow or flurries by or during Wednesday afternoon (February 25). Snow accumulations were generally 8 to 14 inches across this area. A few specific snowfall reports were:

South Lincoln	(Addison county).....	13.2 inches
Huntington	(Chittenden county).....	13.0 inches
Waitsfield	(Washington county).....	11.0 inches
Brookfield	(Orange county).....	9.0 inches
Mt Mansfield	(Lamoille county).....	9.0 inches
St. Albans	(Franklin county).....	8.0 inches.

**VTZ011>012**

**Rutland - Windsor**

<b>24</b>	<b>1200EST</b>	<b>0</b>	<b>0</b>	<b>60K</b>	<b>Winter Storm</b>
<b>25</b>	<b>0900EST</b>				

A storm system along the Virginia coast early Tuesday morning (February 24) moved northeast along the New Jersey coast during Tuesday to a position off the southern New England coast Tuesday night (February 24) before moving slowly east.

Snow spread across the region by Tuesday afternoon and became heavy at times Tuesday night. A number of traffic accidents were reported. The snow tapered off to light snow or flurries during Wednesday morning (February 25). Snow accumulations were

# Storm Data and Unusual Weather Phenomena

February 1998

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

## VERMONT, North and Central

generally 6 to 10 inches across this area. A few specific snowfall reports were:

Rutland (Rutland county).....8.0 inches  
 Rochester (Windsor county).....8.0 inches.

### **VTZ003>004-007**

#### **Orleans - Essex - Caledonia**

<b>24</b>	1200EST	<b>0</b>	<b>0</b>			<b>Light Snow</b>
<b>25</b>	1500EST					

A storm system along the Virginia coast early Tuesday morning (February 24) moved northeast along the New Jersey coast during Tuesday to a position off the southern New England coast Tuesday night (February 24) before moving slowly east.

Snow spread across the region Tuesday afternoon and became heavy Tuesday night. A number of traffic accidents were reported. The snow tapered off to light snow or flurries by or during Wednesday afternoon (February 25). Snow accumulations were generally 3 to 6 inches across this area with a few locally higher amounts in the mountains.

## VERMONT, South

### **VTZ013**

#### **Bennington**

<b>18</b>	0100EST	<b>0</b>	<b>0</b>	<b>45K</b>	<b>High Wind</b>
	0900EST				

A low pressure system which moved through the Ohio Valley on January 18, produced damaging winds across parts of Bennington County. The winds downed trees and power lines and damaged several homes. At Bennington, the branches of a huge maple tree fell onto a house. The fallen branches cracked walls throughout the home and tore holes in parts of the roof. Downed trees resulted in scattered power outages. In the Arlington area, a tree knocked down a transmission line which cut power to several thousand customers. The power was restored by late morning.

### **VTZ013**

#### **Bennington**

<b>23</b>	2100EST	<b>0</b>	<b>0</b>		<b>Winter Storm</b>
<b>25</b>	1100EST				

From February 23 through 25, a winter storm tracked from the South Carolina coast to the Cape Cod area. This storm dumped heavy snow across Bennington County. The greatest snow totals occurred in the higher elevations because in the valley areas the snow frequently mixed with rain and sleet. Some specific snowfall totals included: 10 inches at Sunderland and 7 inches at Dorset.

## VIRGIN ISLANDS

NONE REPORTED.

## VIRGINIA, East

### **Accomack County**

(Wal)Wallops Is	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Amelia County**

Amelia	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Brunswick County**

Brunswick	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Caroline County**

Bowling Green	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Charles City (C)**

Charles City	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Chesapeake (C)**

Chesapeake	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Chesterfield County**

Chesterfield	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Colonial Heights (C)**

Colonial Hgts	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

### **Cumberland County**

Cumberland	<b>04</b>	0000EST	<b>0</b>	<b>0</b>		<b>Heavy Rain</b>
	<b>06</b>	1200EST				

# Storm Data and Unusual Weather Phenomena

February 1998

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>VIRGINIA, East</u></b>									
<b>Dinwiddie County</b>									
Dinwiddie	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Emporia County</b>									
Emporia	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Essex County</b>									
Tappahannock	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Fluvanna County</b>									
Palmyra	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Franklin (C)</b>									
Franklin	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Gloucester County</b>									
Gloucester	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Goochland County</b>									
Goochland	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Greensville County</b>									
Skippers	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Hampton (C)</b>									
Hampton	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Hanover County</b>									
Ashland	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Henrico County</b>									
Short Pump	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Hopewell (C)</b>									
Hopewell	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Isle Of Wight County</b>									
Isle Of Wight	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>James City County</b>									
Jamestown	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>King And Queen County</b>									
King & Queen Church	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>King William County</b>									
King William	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Lancaster County</b>									
Lancaster	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Louisa County</b>									
Louisa	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Lunenburg County</b>									
Lunenburg	04 06	0000EST 1200EST			0	0			Heavy Rain

# Storm Data and Unusual Weather Phenomena

February 1998

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>VIRGINIA, East</u></b>									
<b>Mathews County</b>									
Mathews	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Mecklenburg County</b>									
South Hill	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Middlesex County</b>									
Church View	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>New Kent County</b>									
New Kent	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Newport News (C)</b>									
Newport News	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Norfolk (C)</b>									
Norfolk	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Northampton County</b>									
Willis Wharf	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Northumberland County</b>									
Heathsville	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Nottoway County</b>									
Blackstone	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Petersburg (C)</b>									
Petersburg	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Portsmouth (C)</b>									
Portsmouth	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Powhatan County</b>									
Powhatan	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Prince Edward County</b>									
Farmville	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Prince George County</b>									
Prince George	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Richmond County</b>									
Warsaw	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Richmond (C)</b>									
Richmond	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Southampton County</b>									
Courtland	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Suffolk (C)</b>									
Suffolk	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Surry County</b>									
Surry	04 06	0000EST 1200EST			0	0			Heavy Rain

# Storm Data and Unusual Weather Phenomena

February 1998

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>VIRGINIA, East</u></b>									
<b>Sussex County</b>									
Wakefield	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Virginia Beach (C)</b>									
Virginia Beach	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Westmoreland County</b>									
Westmoreland	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>Williamsburg (C)</b>									
Williamsburg	04 06	0000EST 1200EST			0	0			Heavy Rain
<b>York County</b>									
Poquoson	04 06	0000EST 1200EST			0	0			Heavy Rain
<p>A Nor'easter produced heavy rain and strong winds across central and eastern Virginia from Tuesday, February 3rd through Thursday, February 5th. Rainfall totals generally ranged from 2 to 4 inches across most of the region, with the heaviest amounts (in the 5 to 7.5 inch range) occurring across portions of the Hampton Roads and Virginia Eastern Shore into the Middle Peninsula and Northern Neck. All mainstem rivers in the AKQ HSA reached or exceeded flood stage as a result of this event. However...no major mainstem river flood problems occurred. Heavy rain caused many urban flood/poor drainage flood problems across virtually the entire area. Most jurisdictions had at least a few roads closed due to high water.</p>									
<b>VAZ077&gt;078-084-086-091-094&gt;095-098&gt;100</b>	<b>Northumberland - Lancaster - Gloucester - Mathews - York - Newport News - Norfolk - Virginia Beach - Accomack - Northampton</b>								
	04 06	0000EST 1200EST			0	0	75M		Coastal Flooding
<p>A Nor'easter battered eastern Virginia from Tuesday, February 3rd through Thursday, February 5th. The slow movement of the storm resulted in an extended period of gale to storm force onshore winds which drove tides to 7.0 feet above Mean Lower Low Water (MLLW) at Sewells Point in Norfolk. These tide levels resulted in moderate to severe coastal flooding throughout the Hampton Roads area and the Virginia Eastern Shore. In Accomack county, the entire island of Chincoteague was under water and the causeway was closed. Some families had to evacuate and some businesses, including the fire house, had some water in buildings. The water rose to above the hoods of police cars. In Wachapreague, some hotels received some flooding. In Hampton Roads, the cities of Norfolk, Virginia Beach and Hampton reported some structural damage to buildings along the bay and coast, as well as significant beach erosion. Norfolk reported main roads and intersections under 3 feet of water or greater with many roads impassable. North facing areas in Willoughby and Ocean View suffered the greatest damage. In the Chick's Beach area of Virginia Beach, 4 condominiums were undermined by the tidal flooding, and residents of those buildings had to be evacuated. Twenty-nine house fires were also reported in Norfolk as a result of flood water shorting out furnaces. In Gloucester county, the bay rose to 3 to 4 feet above normal, requiring one family to be rescued by rowboat. Otherwise, locally moderate flooding was reported across the middle peninsula and northern neck areas. The rainfall combined with the gale and storm force winds resulted in some trees downed across much of eastern Virginia. In addition, there were widely scattered power outages.</p>									
<b>Goochland County</b>									
1 E Columbia	17	1955EST			0	0			Hail (1.75)
<b>Goochland County</b>									
Hadensville	17	2025EST			0	0			Hail (1.50)
<b>Louisa County</b>									
Cuckoo	17	2055EST			0	0			Hail (0.88)
<b>Louisa County</b>									
2 WNW Bumpass	17	2058EST	0.2	100	0	0	5K		Tornado (F1)
<p>A tornado tracked through a forested area south of Route 652 and west of Route 650. Tornado lifted as it crossed Route 652 just east of the Oakleigh subdivision. Numerous trees were uprooted along the tornado path.</p>									
<b><u>VIRGINIA, Extreme Southwest</u></b>									
<b>VAZ001&gt;002</b>	<b>Lee - Wise</b>								
	04	0630EST			0	0			Winter Storm
<p>A strong storm system over the southeast dumped 3-5 inches of snow.</p>									
<b>Scott County</b>									
Countywide	17	1045EST			0	0	25K		Thunderstorm Wind
<p>Phone lines down due to wind damage. Communications lines down due to lightning strike including 911 service.</p>									
<b>Wise County</b>									
Appalachia	17	1119EST			0	0	5K		Thunderstorm Wind
<p>Roof blown off a mobile home.</p>									

# Storm Data and Unusual Weather Phenomena

February 1998

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

## VIRGINIA, Extreme Southwest

### **Lee County**

<b>6 E Pennington Gap</b>	17	1138EST			0	0	2K	Thunderstorm Wind
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Tree down near Lee-Wise county line on Route 621.

### **Washington County**

<b>5 S Abingdon</b>	17	1210EST			0	0	2K	Thunderstorm Wind
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Tree limbs down on Route 75.

## VIRGINIA, North

### **VAZ021-025>031**

<b>Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke</b>									
	04	0400EST			0	0	3K		Winter Storm
	05	2000EST							

### **VAZ025>031-036>042**

<b>Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun</b>									
	04	2200EST			0	0	125K	1.2M	Ice Storm
	05	2200EST							

A powerful nor'easter, laden with deep moisture from the Gulf of Mexico and the Caribbean, produced a prolonged period of mixed snow, sleet, freezing rain, and rain across the northwest corner of Virginia. As had been the case with previous events, snow totals varied greatly with elevation. In most of the lower terrain, between 4 and 6 inches accumulated. Local high spots, such as Harrisonburg (VAZ026) and Waynesboro (VAZ025) received between 6 and 8 inches. Elevations above 2000 feet in the Shenandoah Mountains received between 8 and 16 inches of snow.

One person perished from a heart attack while shoveling snow in Harrisonburg (VAZ026). The combination of heavy wet snow, and rain falling on top of it, caused a 50 by 80 foot area of roof to collapse at a food storage and distribution center in Lynchburg (VAZ025). Considerable damage was sustained at a home in Waynesboro when a tree, weighed down by snow and ice, fell onto the roof causing a partial collapse. In Highland Co (VAZ021), 50 roads were closed due to blowing and drifting snow; some of the drifts were as high as 6 feet. The weight of the snow caused isolated power outages.

The snow changed to a cold rain in lower elevations after noon on the 4th. The combination of wet snow, an old snow pack, and moderate rains produced local street flooding in Waynesboro and Staunton (VAZ025). There were scattered power outages as well - in Augusta Co (VAZ025), a reported 6000 customers were without power; 3000 were due to a failed substation in Dayton.

Substantial ice accretion occurred at elevations above 2000 feet as surface temperatures remained just below freezing during moderate to heavy rains. The ice was 5 inches thick in some spots. The amount of ice accretion rivaled some of the fiercest storms in the past ten years, including those of the winter of 1993/94. Shenandoah National Park officials closed Skyline Drive for at least one week after the storm. In fact, park officials, employees, and volunteers spent the remainder of February clearing trees and debris. Damage was estimated to be \$607 thousand in the Park alone. As of mid-April, there were still hundreds of trees to remove. Tens of thousands of trees and large limbs succumbed to the weight of the ice; the road itself was under at least 10 inches of ice and sleet. Power outages, though affecting relatively few customers in the high terrain, were widespread in those areas.

Other problems were noted farther north, in Clarke, Frederick, and Loudoun Cos (VAZ028-031-042). In northwestern Loudoun Co, over one hundred trees needed to be removed from local roadways; school buses were delayed in the same areas. Between 150 and 175 customers were without power in higher terrain areas of northwest Loudoun Co. In Nelson Co (VAZ036), the Wintergreen ski and recreational resort area was closed on the 5th due to ice accretion.

### **VAZ036>042-050>057**

<b>Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George</b>									
	04	0800EST			0	0	20K		Gusty Winds
		2000EST							

Gradient flow between a large high pressure system over the Great Lakes region and the powerful nor'easter developing along the southeast U.S. coast produced sustained winds of 25 to 35 mph with frequent gusts in excess of 40 mph. Some gusts exceeded 50 mph, especially at higher elevations and along the coastal plain. Dozens of medium to large limbs and some whole trees were knocked down, most common across the upper northern neck region. Power outages were scattered but common throughout portions of the Commonwealth.

Though damage was not widespread, a barn was blown down along state route 151 in Roseland (VAZ036).

### **Albemarle County Countywide**

	04	0900EST			0	0			Flood
	05	1400EST							

# Storm Data and Unusual Weather Phenomena

February 1998

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>VIRGINIA, North</u></b>									
<b>Greene County</b>									
Countywide	04 05	0900EST 1400EST			0	0	5K		Flood
<b>King George County</b>									
Countywide	04 05	0900EST 1400EST			0	0	5K		Flood
<b>Madison County</b>									
Countywide	04 05	0900EST 1400EST			0	0	15K		Flood
<b>Nelson County</b>									
Countywide	04 05	0900EST 1400EST			0	0	10K		Flood
<b>Orange County</b>									
Countywide	04 05	0900EST 1400EST			0	0			Flood
<b>Spotsylvania County</b>									
Countywide	04 05	0900EST 1400EST			0	0	5K		Flood
<b>Stafford County</b>									
Countywide	04 05	0900EST 1400EST			0	0	10K		Flood
<b>Arlington County</b>									
Countywide	04 05	1000EST 1400EST			0	0			Flood
<b>Culpeper County</b>									
Countywide	04 05	1000EST 1400EST			0	0	10K		Flood
<b>Fairfax County</b>									
Countywide	04 05	1000EST 1400EST			0	0	2K		Flood
<b>Prince William County</b>									
Countywide	04 05	1000EST 1400EST			0	0	7K		Flood
<b>Rappahannock County</b>									
Countywide	04 05	1000EST 1400EST			0	0	5K		Flood
<b>Fauquier County</b>									
Countywide	04 05	1100EST 1400EST			0	0	15K		Flood
<b>Loudoun County</b>									
Countywide	04 05	1100EST 1400EST			0	0	20K		Flood
<b>Clarke County</b>									
Countywide	05	0800EST 1400EST			0	0	10K		Flood
<b>Frederick County</b>									
Countywide	05	0800EST 1400EST			0	0	10K		Flood
<b>Page County</b>									
Countywide	05	0800EST 1400EST			0	0	5K		Flood
<b>Shenandoah County</b>									
Countywide	05	0800EST 1400EST			0	0	15K		Flood
<b>Warren County</b>									
Countywide	05	0800EST 1400EST			0	0	5K		Flood

A powerful nor'easter, carrying copious moisture from the Gulf of Mexico and the Caribbean, dumped between 2 and 4 inches of rain, with up to 5 1/2 inches at some higher elevations in the Blue Ridge, onto already saturated soil from previous events. Widespread minor to moderate flooding was the result. The flooding began later west of the Blue Ridge, since the precipitation



# Storm Data and Unusual Weather Phenomena

February 1998

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

## VIRGINIA, North

began initially as snow. Hundreds of roads were closed mainly due to overflowing small streams and creeks, as well as high standing water. Some counties with high total road closures included Fauquier (36), Culpeper (29), Prince William (27), Loudoun (25), and Shenandoah (20).

Numerous roads were also closed farther east; in the Stafford/Spotsylvania/southern Prince William area, the dam at Lake Jackson was reported to be 6.85 feet above flood stage. Measured storm total rainfall at the Quantico Marine Corps station was 4.22 inches. Daily rainfall records were broken at Dulles International Airport (IAD - Loudoun Co) on the 4th and 5th. On the 4th, 2.16 inches fell; on the 5th, an additional 0.46 inches fell.

Several water rescues were required on the 4th when vehicles stalled or began to float away. A woman drowned in Clarke Co after being driven into flood waters along the Shenandoah River. The reason for her death was under investigation. A vehicle driven into Page Brook (Clarke Co) became stranded, forcing a water rescue. In parts of Augusta Co, where moderate rains fell onto 4 to 6 inches of wet snow, numerous roads became clogged and flooded; 75 National Guard troops were called in for assistance. Clogged drainage systems also became a problem, leading to sewage backups and waste water dumping into the Shenandoah River.

Several school districts closed for all or a portion of the 4th and 5th due to the widespread minor flooding and continued threat of heavy rain.

### **Alexandria (C)** **Alexandria**

<b>04</b>	<b>1400EST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Tidal Flooding</b>
<b>05</b>	<b>1400EST</b>				

The nor'easter which pummeled the middle Atlantic coastline for nearly 48 hours caused water to back up in the Chesapeake Bay and tidal Potomac River. That, in combination with continued wave action, produced tides at least 2 feet above normal near Alexandria. Minor flooding was noted along the waterfront, including Prince Street, lower King Street, and Union Street. Damage was minimal since advance warning allowed business owners to cover flood-prone areas with sand bags.

### **VAZ021-025>026**

#### **Highland - Augusta - Rockingham**

<b>06</b>	<b>0700EST</b>	<b>0</b>	<b>0</b>	<b>Snow</b>
	<b>1100EST</b>			

Residual low- and mid-level atmospheric forcing associated with a disturbance moving out of the Ohio Valley produced a stripe of moderate snow across the central Shenandoah Valley during the morning of the 6th. Accumulations ranged from 2 to 3 inches, with local high spots receiving up to 4 inches.

### **Augusta County** **East Portion**

<b>17</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Flood</b>
	<b>1600EST</b>				

### **Greene County** **Countywide**

<b>17</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Flood</b>
	<b>1700EST</b>				

### **Madison County** **Countywide**

<b>17</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Flood</b>
	<b>1700EST</b>				

### **Page County** **South Portion**

<b>17</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Flood</b>
	<b>1600EST</b>				

### **Rockingham County** **East Portion**

<b>17</b>	<b>1000EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flood</b>
	<b>1600EST</b>				

### **Culpeper County** **Countywide**

<b>17</b>	<b>1100EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Flood</b>
	<b>2100EST</b>				

### **Fauquier County** **Countywide**

<b>17</b>	<b>1100EST</b>	<b>0</b>	<b>0</b>	<b>Flood</b>
	<b>2100EST</b>			

### **Orange County** **West Portion**

<b>17</b>	<b>1100EST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flood</b>
	<b>2100EST</b>				

### **Rappahannock County** **Countywide**

<b>17</b>	<b>1100EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Flood</b>
	<b>1700EST</b>				

# Storm Data and Unusual Weather Phenomena

February 1998

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**

### **VAZ042-052>054**

#### **Loudoun - Prince William - Fairfax - Arlington**

17	1300EST 1700EST					0	0	2K	Gusty Winds
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### **Alexandria (C)**

#### **Alexandria**

17	2000EST 2300EST					0	0	2K	Tidal Flooding
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Intensifying low pressure, containing abundant moisture from the Gulf of Mexico, moved along the Appalachian Mountains during the late morning and afternoon of the 17th. The system, which entrained tropical air, dumped between 1 and 2 inches of rain in valleys and between 3 and 3 1/2 inches in the mountains. The rain, falling onto saturated soil from previous storms, caused minor flooding of creeks and streams in portions of the western Virginia piedmont and the Shenandoah Valley. There was at least one confirmed water rescue, occurring on Christians Creek (Augusta Co) near the town of Verona. A daily rainfall record was broken at IAD (Loudoun Co); 1.36 inches fell.

As the storm system moved north of the region, most of the rain ended. However, a thin line of showers and thunderstorms developed after 1600EST along and just east of the Blue Ridge and remained nearly stationary for several more hours, dumping additional rains of nearly an inch across portions of Orange and Culpeper Cos. The additional rainfall maintained flooding conditions in these areas. One Orange Co location reported a storm total of 3.5 inches.

Flooding in Culpeper Co closed 20 roads, though some were along the Rapidan River along the southern border. In Waynesboro (Augusta Co), eight streets were flooded due to high standing water.

The gradient between the low and a fairly strong high pressure area over New England caused east winds to increase to 30 to 35 mph with brief gusts in excess of 45 mph over a small area of northern Virginia encompassing the suburbs of Washington, DC. Damage was relatively minor, consisting of fallen wires, and a few small trees and limbs. The same easterly flow sloshed the tidal Potomac River up its slim channel near Washington, DC, and caused a brief period of minor flooding in Old Town Alexandria during the evening high tide.

### **Spotsylvania County**

#### **2.5 S Snell to Massaponax**

17	2113EST 2127EST					0	0	2K	Hail (2.00)
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### **Spotsylvania County**

#### **2.5 S Snell to Massaponax**

17	2115EST 2129EST	8	300			0	0	75K 30K	Tornado (F1)
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A tornadic thunderstorm raced through Spotsylvania Co during the evening of the 17th, knocking down dozens of trees and causing minor property damage along its path. The tornado touched down one mile south of Blades Corner, then tracked northeast, passing by the town of Snell before curving to the north as it roughly paralleled federal highway 1 before dissipating in the Brentwood area.

Numerous trees were uprooted and snapped along the twister's path. Soft ground from copious winter rainfall likely aided in knocking down more trees than would normally have fallen. Some roofs were partially torn off homes, outbuildings, and barns. Some outbuildings and barns were levelled. One unfastened trailer was picked up, driven 150 feet, and smashed against some trees. Peripheral property damage included antennas, fences, signs, as well as roof trim, sidings, and gutters. Thankfully, major property damage did not occur and there were no injuries or fatalities.

The storm, a mini-supercell, exhibited characteristics of larger midwestern supercells; residents recalled increasing rain followed by large hail, ranging in diameter from 1 to 2 inches, then culminating with the roar of the wind from the approaching tornado.

### **VAZ021**

#### **Highland**

23	1500EST					0	0		Winter Storm
24	0400EST								

### **VAZ025>028**

#### **Augusta - Rockingham - Shenandoah - Frederick**

23	2000EST					0	0		Snow
24	0200EST								

An area of low pressure moving along the middle Atlantic coastline produced a swath of snow across much of northern Virginia west of the Blue Ridge. Similar to previous episodes, accumulation was highly dependent on elevation. In general, 2 to 4 inches accumulated in Rockingham and Augusta Cos (VAZ025>026), with the highest totals over the mountains to the west and east. One to three inches accumulated across Shenandoah and Frederick Cos (VAZ027>028), though 4 to 8 inches fell across the higher mountains over the east and west portions of Frederick Co and the west portion of Shenandoah Co. A report of 9 inches was received from Blue Ridge Mountain on the Clarke-Frederick Co line. Four inches accumulated along the higher elevations of Skyline Drive; about an inch fell in the valleys just west of Skyline Drive. Farther west, in Highland Co, an average of 6 inches fell.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## VIRGINIA, North

<b>VAZ021-025&gt;031-036&gt;042-050&gt;057</b>	<b>Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George</b>	<b>24</b>	<b>1200EST</b> <b>1700EST</b>	<b>0</b>	<b>0</b>	<b>10K</b>	<b>Gusty Winds</b>
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An intensifying storm off the middle Atlantic coast produced sustained northwest winds of 25 to 32 mph with frequent gusts in excess of 40 mph over all of northern Virginia during the afternoon. Winds gradually diminished after sunset; a result of the departing storm and the loss of daytime heating. According to news accounts, property damage was minimal, likely consisting of isolated fallen power lines (need final stuff from Virginia Power). The combination of wind and saturated soil caused scattered trees and limbs to fall. Minor shingle damage was reported in western Fairfax Co (VAZ053).

## VIRGINIA, Northwest

<b>VAZ003&gt;004</b>	<b>Dickenson - Buchanan</b>	<b>03</b>	<b>1900EST</b> <b>06 0700EST</b>	<b>0</b>	<b>0</b>	<b>150K</b>	<b>Winter Storm</b>
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A slow moving coastal storm and prolong easterly winds aloft, gave several periods of snow, sleet, and freezing rain. By Friday morning on the 6th, snow depths of 3 to 8 inches in the valleys were measured. Over the mountains of Dickenson County, snow depths increased upwards of a foot.

This caused a second, but a more minor, episode of tree limbs breaking, when compared to the storm of late January.

**Dickenson County**  
**Trammel**

<b>17</b>	<b>1206EST</b>	<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind</b>
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Trees were blown down along the McClure River and Buffalo Creek valleys. This affected Route 63.

## VIRGINIA, Southwest

<b>VAZ058&gt;059</b>	<b>Halifax - Charlotte</b>	<b>01</b>	<b>0000EST</b> <b>0600EST</b>	<b>0</b>	<b>0</b>		<b>Flood</b>
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Flooding from January continued on the Roanoke River at Randolph until 0600 EST on the 1st.

<b>VAZ020-024</b>	<b>Bath - Rockbridge</b>	<b>03</b>	<b>2100EST</b> <b>04 0700EST</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
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Rain changed to heavy wet snow during the evening hours on the 3rd in Bath County and the northern portion of Rockbridge County. Around dawn on the 4th, the heavy snow mixed with and changed back to rain. Snowfall accumulations were mainly from 4 to 8 inches in most of Bath County and in the northern portion of Rockbridge County. In the extreme northern portion of Rockbridge County, the snow was up to a foot deep and wind blown snow drifts were as high as four or five feet. During the heavy snow, hazardous road conditions resulted in numerous traffic accidents.

<b>VAZ016-032</b>	<b>Carroll - Patrick</b>	<b>04</b>	<b>0100EST</b> <b>0430EST</b>	<b>0</b>	<b>0</b>	<b>15K</b>	<b>High Wind</b>
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High winds not associated with a thunderstorm knocked down trees and broke off tree limbs along the Blue Ridge Parkway and damaged or destroyed two mobile homes and ripped shingles off a house near Ararat.

<b>VAZ035-044&gt;045</b>	<b>Amherst - Pittsylvania - Campbell</b>	<b>04</b>	<b>0730EST</b> <b>1130EST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind</b>
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High winds not associated with a thunderstorm knocked trees down on power lines in Amherst and Pittsylvania Counties and blew the roof off a business and uprooted trees in Lynchburg.

<b>Montgomery County</b> <b>East Portion</b>	<b>04</b>	<b>0900EST</b> <b>1800EST</b>	<b>0</b>	<b>0</b>		<b>Flash Flood</b>
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<b>Salem (C)</b> <b>Salem (C)</b>	<b>04</b>	<b>0930EST</b> <b>1700EST</b>	<b>0</b>	<b>0</b>		<b>Flash Flood</b>
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<b>Roanoke County</b> <b>Cave Spg</b>	<b>04</b>	<b>0945EST</b> <b>1630EST</b>	<b>0</b>	<b>0</b>		<b>Flash Flood</b>
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<b>Roanoke (C)</b> <b>Roanoke</b>	<b>04</b>	<b>0945EST</b> <b>1630EST</b>	<b>0</b>	<b>0</b>		<b>Flash Flood</b>
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# Storm Data and Unusual Weather Phenomena

February 1998

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**

### **Botetourt County**

Countywide	04	1015EST 1700EST			0	0	5K		Flash Flood
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### **Patrick County**

East Portion	04	1045EST 1400EST			0	0			Flash Flood
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### **Pittsylvania County**

Countywide	04	1045EST 1600EST			0	0			Urban/Sml Stream Fld
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### **Franklin County**

Countywide	04	1100EST 1445EST			0	0			Flash Flood
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### **Rockbridge County**

South Portion	04	1115EST 1700EST			0	0			Flash Flood
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### **Bedford County**

Montvale	04	1200EST 1600EST			0	0			Flash Flood
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Moderate to occasionally heavy rainfall during the morning and early afternoon hours and snow melt resulted flash flooding and urban and small stream flooding.

Numerous creeks and streams in the eastern part of Montgomery County, in the eastern part of Patrick County, and in all of Franklin County were out of their banks and flooding roads. The north fork of the Roanoke River at Elliston in Montgomery County was above flood stage through 1800 EST. Route 460 in the eastern portion of Montgomery County was partially blocked by water.

Several creeks and streams were out of their banks in Botetourt County with one home flooded in Blue Ridge and a mobile home park flooded in Coyner Springs.

In the southern portion of Rockbridge County, several roads were under water because of flooded creeks. In Glasgow, route 501 and the Glasgow firehouse were flooded. A family was evacuated along Back Run Creek near Cave Mountain Lake. The creek damaged their home and car. Another family was evacuated in the Glasgow area. The saturated ground lead to a train derailment about a mile north of Glasgow that sent train engines into the Maury River.

In Bedford County, Goose Creek in Montvale was flooded which resulted in road closings. Several roads in Salem City and in Pittsylvania County were flooded by creeks and streams that were out of their banks. Mud Lick Creek flooded roads in Caves Springs in Roanoke County and Roanoke City.

## **VAZ014-016>017-022-032>035 Montgomery - Carroll - Floyd - Roanoke - Patrick - Franklin - Bedford - Amherst**

04	1300EST			0	0				Ice Storm
06	1200EST								

Freezing rain and freezing drizzle from the early afternoon hours on the 4th through around noon on the 6th at elevations above 2800 feet resulted in major accumulations of ice on exposed objects. At elevations above 3600 feet, ice accumulations were up to 5 inches thick. The weight of the ice brought down power lines, power poles, and trees. Power and phone service was out for several days in most areas and up to a week in some areas.

The worst hit area was on Poor Mountain near Roanoke where several transmission towers were damaged or destroyed and several radio antennas were destroyed. More than half the trees in this area were severely damaged.

## **VAZ011-018>020-023>024 Giles - Craig - Alleghany - Bath - Botetourt - Rockbridge**

04	1300EST			0	0				Ice Storm
06	0400EST								

Freezing rain and freezing drizzle from the early afternoon hours on the 4th through the early morning hours on the 6th at elevations above 2800 feet resulted in major accumulations of ice on exposed objects. The weight of the ice brought down power lines, power poles, and trees. Power and phone service was out for several days.

## **VAZ020**

### **Bath**

04	1900EST 2200EST			0	0	0			High Wind
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High winds not associated with a thunderstorm knocked down a tree in the higher elevations between Warm Springs and Millboro Springs. The tree knocked down a main transmission line which resulted in 2,500 homes with no power for a period of time.

# Storm Data and Unusual Weather Phenomena

February 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b>VIRGINIA, Southwest</b>									
<b>VAZ019&gt;020</b>		<b>Alleghany - Bath</b>							
	06	0400EST			0	0			<b>Heavy Snow</b>
		1330EST							
		Heavy snow during the morning and early afternoon hours on the 6th dropped 4 to 8 inches of snow on much of Alleghany and Bath Counties. Hazardous road conditions resulted in several traffic accidents.							
<b>VAZ007</b>		<b>Tazewell</b>							
	16	2000EST			0	0	150K		<b>High Wind</b>
	17	0500EST							
		High winds not associated with a thunderstorm knocked down some radio towers, trees, power lines and damaged buildings in Tazewell County.							
<b>VAZ014</b>		<b>Montgomery</b>							
	17	0600EST			0	0	10K		<b>High Wind</b>
		0730EST							
		High winds not associated with a thunderstorm damaged several mobile homes and tore the roof off a camper.							
<b>Roanoke County</b>									
6 WSW Cave Spg	17	1330EST			0	0	10K		<b>Flash Flood</b>
		1530EST							
<b>Rockbridge County</b>									
1 SW Riverside	17	1345EST			0	0			<b>Flash Flood</b>
		1830EST							
<b>Pittsylvania County</b>									
Countywide	17	1400EST			0	0			<b>Urban/Sml Stream Fld</b>
		2000EST							
<b>Rockbridge County</b>									
.5 N Vesuvius	17	1400EST			0	0			<b>Flash Flood</b>
		1830EST							
		Heavy rainfall during the morning and afternoon hours on the 17th resulted in flash flooding and urban/small stream flooding in portions of southwest Virginia.							
		In Rockbridge County, the South River flooded route 608 one mile southwest of Riverside and just north of Vesuvius. A house was flooded and damaged about 6 miles west-southwest of Cave Springs in Roanoke County. In Pittsylvania County, 16 roads were closed because creeks and streams were out of their banks.							
<b>VAZ022-045-058&gt;059</b>		<b>Roanoke - Campbell - Halifax - Charlotte</b>							
	17	1645EST			0	0			<b>Flood</b>
	20	1400EST							
		Heavy rainfall on the 16th and the morning and afternoon hours on the 17th resulted in minor to moderate flooding on portions of the Roanoke River. The Roanoke River crested about one-third foot above flood stage at Roanoke at 1715 EST on the 17th, about one and a half feet above flood stage at Brookneal around 0200 EST on the the 18th, and almost four feet above flood stage at Randolph at 2000 EST on the 18th.							
<b>Buckingham County</b>									
Centenary	17	1845EST			0	0			<b>Hail (2.00)</b>
		An isolated severe thunderstorm produced hail up to two inches in diameter near Centenary.							
<b>VAZ044-058</b>		<b>Pittsylvania - Halifax</b>							
	17	2200EST			0	0			<b>Flood</b>
	20	2100EST							
		Heavy rainfall on the 16th and during the morning and afternoon hours on the 17th resulted in minor flooding on the Dan River. The Dan River crested over a half foot above flood stage at Danville at 0500 EST on the 18th, two feet over flood stage at Paces at 2200 EST on the 18th, and almost six feet above flood stage at South Boston at 0700 EST on the 19th.							
<b>VAZ058</b>		<b>Halifax</b>							
	24	0700EST			0	0	0		<b>High Wind</b>
		1600EST							
		High winds not associated with a thunderstorm knocked down trees in Halifax County.							
<b>VAZ022</b>		<b>Roanoke</b>							
	24	1400EST			0	0	0		<b>High Wind</b>
		2200EST							
		High winds on the 24th knocked down trees and power lines and broke off large tree limbs.							
<b>VAZ022</b>		<b>Roanoke</b>							
	24	1400EST			0	0	0		<b>High Wind</b>
		2200EST							
		High winds on the 24th uprooted trees, broke off tree limbs and resulted in power outages.							

# Storm Data and Unusual Weather Phenomena

February 1998

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

**VAZ019**

**Alleghany**

24 2100EST  
25 0600EST

0      0      6K      **High Wind**

High winds not associated with a thunderstorm knocked down trees and ripped shingles from roofs in Alleghany County. In Covington, a tree landed on top of a car, crushing it.

## WASHINGTON, Northeast

**WAZ031-035-037**

**Northeast Blue Mountains - Northeast Mountains - Douglas/Lower Chelan**

12 0630PST  
23 0600PST

0      0      0      0      **Heavy Snow**

4 inches new snow 10 miles south of Pomeroy at an elevation of 3000 feet

## WASHINGTON, Northwest

**Clallam County**

**Neah Bay**

21 1600PST

0      0      **Waterspout**

A brief waterspout was reported by the coast guard off Neah Bay.

## WASHINGTON, Southeast

**WAZ030**

**Northwest Blue Mountains**

25 1000PST  
1830PST

0      0      **Winter Storm**

Five inches of snow fell during the day.

**Franklin County**

**Pasco Arpt to  
Kahlotus**

25 1720PST  
1820PST

0      0      **Lightning**

A thunderstorm moved through Pasco that produced lightning and hail up to one half inch. A resident reported that a tree was stuck by lightning.

## WASHINGTON, Southwest

NONE REPORTED.

## WEST VIRGINIA, East

**WVZ048>055**

**Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy**

04 0600EST  
05 1400EST

0      0      12K      **Winter Storm**

A powerful nor'easter, laden with tropical moisture from the Gulf of Mexico and Caribbean, dumped moderate to heavy snow across all of eastern West Virginia beginning early on the 4th. In the eastern Panhandle (VAZ051>053), the snow changed to rain by midday over most areas, with the exceptions being locations above 1500 feet, where a mix of snow and freezing rain continued well into the 5th. In the Potomac Highlands, precipitation remained a mix of rain, sleet, and snow at lower elevations throughout the event. However, above 1500 feet in the Highlands, mainly snow fell.

Accumulations were highly dependent on elevation. For example, elevations in and near the town of Petersburg (WVZ048) range roughly from 500 to 1000 feet (not including surrounding mountains). One resident, living at an elevation of around 600 feet, reported 6 inches early on the 5th; a nearby neighbor whose elevation was closer to 1000 feet reported 10 inches. In general, 4 to 8 inches fell below 1000 feet; 8 to 12 inches fell from 1000 to 1500 feet, and 12 to 20 inches fell above 1500 feet.

Scattered power outages and fallen trees likely occurred throughout the Potomac Highlands, with problems most prevalent in the higher mountains.

**Berkeley County**

**Countywide**

04 1400EST  
05 1400EST

0      0      5K      **Flood**

**Jefferson County**

**Countywide**

04 1400EST  
05 1400EST

0      0      **Flood**

Moderate rain, falling on top of 3 to 6 inches of snow, produced areas of flooding across the eastern panhandle late on the 4th and continuing through the afternoon of the 5th. In Berkeley Co, 4 secondary roads closed; 9 closed in Jefferson Co. A Berkeley Co resident was stranded in his pickup truck while attempting to cross a bridge; a mobile home shifted on the mud in Cascade.

**WVZ051**

**Morgan**

23 1400EST  
24 0200EST

0      0      **Snow**

# Storm Data and Unusual Weather Phenomena

February 1998

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

## WEST VIRGINIA, East

**WVZ048>050-054>055 Grant - Mineral - Hampshire - Pendleton - Hardy**  
**23 1500EST 0 0 Winter Storm**  
**24 0400EST**

An area of low pressure moving along the middle Atlantic coastline produced a swath of moderate to heavy snow across the Potomac Highlands of West Virginia. Similar to previous episodes, accumulation was highly dependent on elevation. In general, around 4 inches fell in valleys. However, along the east-facing slopes of the Allegheny Divide, between 8 and 12 inches fell. A small area of less than four inches fell in western Hampshire and extreme northeastern Mineral Cos (WVZ049>050).

**WVZ050>053-055 Hampshire - Morgan - Berkeley - Jefferson - Hardy**  
**24 1200EST 0 0 Gusty Winds**  
**1700EST**

An intensifying storm off the middle Atlantic coast produced sustained winds between 25 and 32 mph with brief gusts in excess of 40 mph over portions of eastern West Virginia during the afternoon. Highest winds were likely at elevations above 2000 feet where gusts to near 50 mph may have occurred. Winds gradually diminished after sunset; a combination of the departing storm and the loss of daytime heating. Scattered tree and limb damage most likely occurred at higher elevations.

## WEST VIRGINIA, North

**WVZ021>023-041 Marion - Monongalia - Preston - Tucker**  
**04 0000EST 0 0 Winter Storm**  
**05 0200EST**

Six inches of snow and sleet was reported in Fairmont.

An intensifying low pressure system of the Florida panhandle moved slowly up the Atlantic Coast to the North Carolina Coast. This storm system spread a mix of heavy snow and sleet into parts of northern West Virginia. The highest amounts were confined to the highest elevations.

**WVZ023-041 Preston - Tucker**  
**23 1200EST 0 0 Heavy Snow**  
**24 0600EST**

Eight inches of snow fell in the higher elevations of Preston County.

A low pressure system across the southeast United States moved up the coast to Virginia late on the 23rd. The system rapidly intensified and spread heavy snow into northern West Virginia. The heaviest snowfall was confined to the higher elevations.

## WEST VIRGINIA, Southeast

**Mercer County**  
**Countywide 03 2330EST 2 0 80K Heavy Rain**  
**04 1200EST**

Heavy rain and some wet snow in combination with the leftover heavy snowfall from the end of January resulted in the roof of a recycling center to collapse near Princeton. Two men were crushed to death when the roof fell on them. M58LS, M48LS

**WVZ042>045 Mercer - Summers - Monroe - Greenbrier**  
**06 0300EST 0 0 1.7M Heavy Snow**  
**1500EST**

Heavy snow developed during the morning hours on the 6th and continued into the afternoon hours. Snowfall amounts were mainly from 3 to 6 inches in Mercer, Monroe, and Summers Counties and from 6 to 10 inches in Greenbrier County.

The weight of the snow from this storm broke of tree limbs that resulted in some power outages, especially in Greenbrier County. The weight of the snow combined with recent rains and the weight of snow from the record breaking snow storm at the end of January collapsed roofs of two churches and toppled steeples at two other churches. In addition, roofs of several out buildings, homes, barns, and businesses collapsed under the weight of the snow. Numerous carports collapsed, damaging some vehicles. Several buildings, including homes and apartments had to be evacuated due to the potential for the roofs to collapse. Some roofs collapsed until the middle of February.

**WVZ042 Mercer**  
**17 0300EST 0 0 20K High Wind**  
**0400EST**

High winds not associated with a thunderstorm during the early morning hours on the 17th knocked down a large tree which crushed a car and damaged a house in Bluefield.

## WEST VIRGINIA, West

**WVZ005>008-013>016-024>026-033>036 Wayne - Cabell - Mason - Jackson - Lincoln - Putnam - Kanawha - Roane - Mingo - Logan - Boone - Mcdowell - Wyoming - Raleigh - Fayette**  
**03 2000EST 0 4 5.5M Winter Storm**  
**06 1000EST**

# Storm Data and Unusual Weather Phenomena

February 1998

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

## WEST VIRGINIA, West

A slow moving coastal storm in conjunction with easterly winds aloft, caused several periods of wet snow, sleet, and rain. The snow fell mostly from the 3rd into the 4th and again late on the 5th into the 6th. Tri State Airport near Kenova and Ceredo reported a snow depth of 13 inches, Branchland of Lincoln County, Delbarton of Mingo County, Pineville, and Mullens all reported 8 inches on the ground. Hamlin of Lincoln County had 6 inches. Downtown Huntington reported 4 to 8 inches. No snow was on the ground prior to this event for these western lowlands.

Over the southern mountains around Oak Hill and Beckley, the deep snow pack from the late January storm had settled and melted down into the 4 to 8 inch range prior to this new storm. By late Friday morning on the 6th, the snow depth had increased 10 to 12 inches, reaching depths of 14 to 20 inches. The water content of the total snow pack reached around 4 inches in the Beckley vicinity.

This caused a renewed outbreak of collapsed buildings, and a near panic, in Fayette and Raleigh Counties on the 5th and 6th. A few structures had collapsed earlier, after the late January storm. Some of the headlines in the local newspapers included "underseige", "what's next", and "the sky is falling". During the predawn hours of the 6th, a large section of roof and 2 cinder block walls collapsed at a Krogers supermarket store on Harpers Road in Beckley. Luckily, only 4 people were in the store. They were injured, but none of the injuries were life threatening. Also on the 6th, the roofs of 2 furniture stores, one in Beckley the other in Oak Hill, both collapsed. In Beckley, about 120 structures received some damage from the late January and early February storms. That included 10 businesses that suffered a total loss or had major damage. Some building were condemned. In Fayette County, 28 buildings suffered roof cave-ins. This included homes, trailer, churches, businesses, and outbuildings.

Much of the damage from this early February storm over the southern mountains of West Virginia can be indirectly related back to the heavier snow storm of late January.

**WVZ030>032-039>040-046**

### **Lewis - Harrison - Taylor - Upshur - Barbour - Pocahontas**

<b>04</b>	<b>0100EST 0900EST</b>		<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
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A 3 to 7 inch snow was deposited before changing to rain and sleet.

### **Raleigh County**

Coal City

<b>17</b>	<b>1305EST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind</b>
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### **Wayne County**

Wayne

<b>17</b>	<b>1305EST</b>		<b>0</b>	<b>0</b>	<b>3K</b>	<b>Thunderstorm Wind</b>
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### **Wyoming County**

Herndon Hgts

<b>17</b>	<b>1325EST</b>		<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind</b>
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### **Fayette County**

Kincaid

<b>17</b>	<b>1340EST</b>		<b>0</b>	<b>0</b>	<b>3K</b>	<b>Thunderstorm Wind</b>
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Minor damage occurred when large tree limbs were blown down across power lines and roads.

### **Webster County**

Hacker Vly

<b>28</b>	<b>1300EST</b>		<b>0</b>	<b>0</b>		<b>Hail (0.75)</b>
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## WISCONSIN, Extreme Southwest

NONE REPORTED.

## WISCONSIN, Northeast

**WIZ011-019-030**

### **Forest - Langlade - Marathon**

<b>01</b>	<b>0600CST</b>		<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
<b>02</b>	<b>0600CST</b>					

A weak area of low pressure produced a narrow path of heavy snow across central and northeast Wisconsin. The heaviest amount reported was 7.6 inches 6 miles southwest of Laona (Forest co.). Wausau in Marathon county reported 7.1 inches.

**WIZ039**

### **Brown**

<b>25</b>	<b>0000CST</b>		<b>0</b>	<b>0</b>		<b>Record Warmth</b>
<b>27</b>	<b>1200CST</b>					

Record high temperatures were set at Green Bay on the 25th (47 degrees) and the 26th (54 degrees). Record warm minimum temperatures were also set on the morning of the 26th (40 degrees) and the 27th (36 degrees).

February 1998 was the warmest on record in Green Bay (112 years of records). The month ended 13.0 degrees above normal, shattering the old record set in 1931.

Other locations in northeast and central Wisconsin reported unofficial record or near-record mild monthly temperatures for February. In Rhinelander (Oneida co.), for example, the month ended about 12 degrees above normal. In Marshfield (Wood co.),



# Storm Data and Unusual Weather Phenomena

February 1998

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

February '98 was over 11 degrees above normal.

## WISCONSIN, Northwest

NONE REPORTED.

## WISCONSIN, Southeast

NONE REPORTED.

## WISCONSIN, Southwest

NONE REPORTED.

## WISCONSIN, West

NONE REPORTED.

## WYOMING, Central and West

**WYZ027>028**

**Southeast Big Horn Mountains - East Johnson**

**09 2200MST**  
**10 1100MST**

**0 0**

**Heavy Snow**

In a localized event, up to two feet of snow fell overnight in southern Johnson County, closing schools in the region. The Mayoworth area reported 18 to 24 inches of snow, the Barnum area 12 to 18 inches, and the Kaycee area up to 12 inches.

**WYZ007**

**Jackson Valley**

**14 1300MST**  
**15 0100MST**

**0 0**

**Heavy Snow**

Up to 8 inches of snow reported in the Jackson area.

**WYZ007-016-026**

**Jackson Valley - Star Valley - Western Big Horn Mountains**

**23 2200MST**  
**24 1300MST**

**0 0**

**Winter Storm**

Heaviest amounts included around a foot of new snow in the Jackson Hole area, and nearly a foot of new snow in the Big Horn Mountains. Afton, in the Star Valley, reported 6 inches of new snow.

**WYZ015-027>028**

**Natrona - Southeast Big Horn Mountains - East Johnson**

**25 0600MST**  
**2300MST**

**0 0**

**Blizzard**

Blizzard conditions reported across much of Johnson and eastern Natrona Counties. Snowfall of up to 10 inches in the Casper area. In Johnson County, drifts up to 4 feet deep were reported in the east, and I-90 was closed. Winds gusted to over 50 mph.

## WYOMING, Extreme Southwest

NONE REPORTED.

## WYOMING, North Central

**WYZ098**

**Northeast Bighorn Mountains**

**25 0500MST**  
**26 2000MST**

**0 0**

**Blizzard**

**WYZ099**

**Sheridan Foothills**

**25 0500MST**  
**26 2000MST**

**0 0**

**Heavy Snow**

A strong winter storm which began February 25th created blizzard conditions across the Big Horn mountains in Sheridan County Wyoming. Burgess Junction reported 36 inches of new snow from this storm and Ranchester in the Northern Sheridan Foothills reported 10 inches of new snow.

## WYOMING, Northeast

**WYZ055**

**South Campbell**

**18 0630MST**

**0 0**

**Ice Storm**

Freezing drizzle and freezing fog produced widespread icy roads. A driver was injured when his car slid off state highway 387.

**WYZ054>058**

**Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston**

**24 0600MST**  
**28 2330MST**

**0 0**

**Blizzard**

A powerful winter storm produced blizzard conditions between February 24 and 28; with snow accumulations between 6 and 16 inches and sustained winds around 40 mph over most of northeast Wyoming. Snow drifts up to 16 feet were observed in the Gillette area. Numerous schools, coal mines and roads (including Interstate 90) were closed during the storm.

# Storm Data and Unusual Weather Phenomena

February 1998

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

## **WYOMING, Southeast**

**WYZ067-069>070**

**Platte - Cheyenne Foothills - Pine Bluffs**

<b>03</b>	<b>0300MST</b>	<b>0</b>	<b>5</b>	<b>32K</b>	<b>0</b>	<b>Fog</b>
<b>05</b>	<b>1000MST</b>					

Dense fog occurred across all of Platte and Laramie Counties, reducing visibilities to less than a quarter of a mile. The Highway Patrol reported 16 accidents over the three-day period, with 5 injuries in Laramie and Albany counties. A man was struck by a car on Interstate 25, two-miles south of Cheyenne, at 0900 on the 5th, as he volunteered to guide traffic around an accident in the southbound lane of I-25. The driver of the car which struck the man did not see him because of the fog. The injured man was treated and released from the hospital.

**WYZ065>066**

**Laramie Valley - Laramie Range**

<b>15</b>	<b>2000MST</b>	<b>0</b>	<b>0</b>	<b>21K</b>	<b>0</b>	<b>Icy Roads</b>
<b>16</b>	<b>1700MST</b>					

Light snow created icy roads across Laramie and Albany Counties resulting in 14 accidents across the area. No injuries or major property damage was reported.

**WYZ059>060-068**

**Converse - Niobrara - Goshen**

<b>25</b>	<b>0100MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Blizzard</b>
	<b>1500MST</b>					

8 inches of snowfall fell in Douglas overnight and the Converse County Sheriff's Office reported blizzard conditions at 0700. Torrington recieved heavy snow with 35 to 45 mph winds. Lusk reported blizzard conditions with 4 inches of snow and 35 mph winds.

**WYZ068**

**Goshen**

<b>25</b>	<b>1700MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind (G50)</b>
<b>26</b>	<b>0500MST</b>					

High winds occurred across the east central plains. Sustained winds were 35 to 45 MPH. A peak gust of 58 MPH was reported in Torrington at 0100.

**WYZ069**

**Cheyenne Foothills**

<b>28</b>	<b>0956MST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>High Wind (G49)</b>
	<b>1910MST</b>					

Northwest winds were sustained at 35 to 45 MPH just east of the Laramie Range and a peak gust of 56 MPH was recorded at the Cheyenne Airport.

## STORM DAMAGE CATEGORIES

## REFERENCE NOTES

1	Less than \$50	0 / Blank	None reported.
2	\$50 to \$500	*	Miles instead of yards.
3	\$500 to \$5,000	**	Yards instead of miles.
4	\$5,000 to \$50,000	@	Includes heavy sleet storm.
5	\$50,000 to \$500,000	#	Freezing drizzle and freezing rain, commonly known as glaze.
6	\$500,000 to \$5 Million	=	Report incomplete.
7	\$5 Million to \$50 Million	= =	Report not received.
8	\$50 Million to \$500 Million		
9	\$500 Million to \$5 Billion	o/c	Indicates Crop Damage amount is included in the value give for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

## Definition of Fujita Tornado Scale ( F Scale )

(F0) Gale tornado (40-72 mph) : Light damage; Some damage to chimneys; break branches off trees; push over shallow-rooted trees; signs and billboards damaged.

(F1) Moderate tornado (73-112 mph): Moderate damage; The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage; Roofs torn from frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage; Roofs and some walls torn from well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage; Well-constructed houses leveled; structure with weak foundations blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage; Strong frame houses lifted from foundation and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 meters; trees debarked; incredible phenomena will occur.

(F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

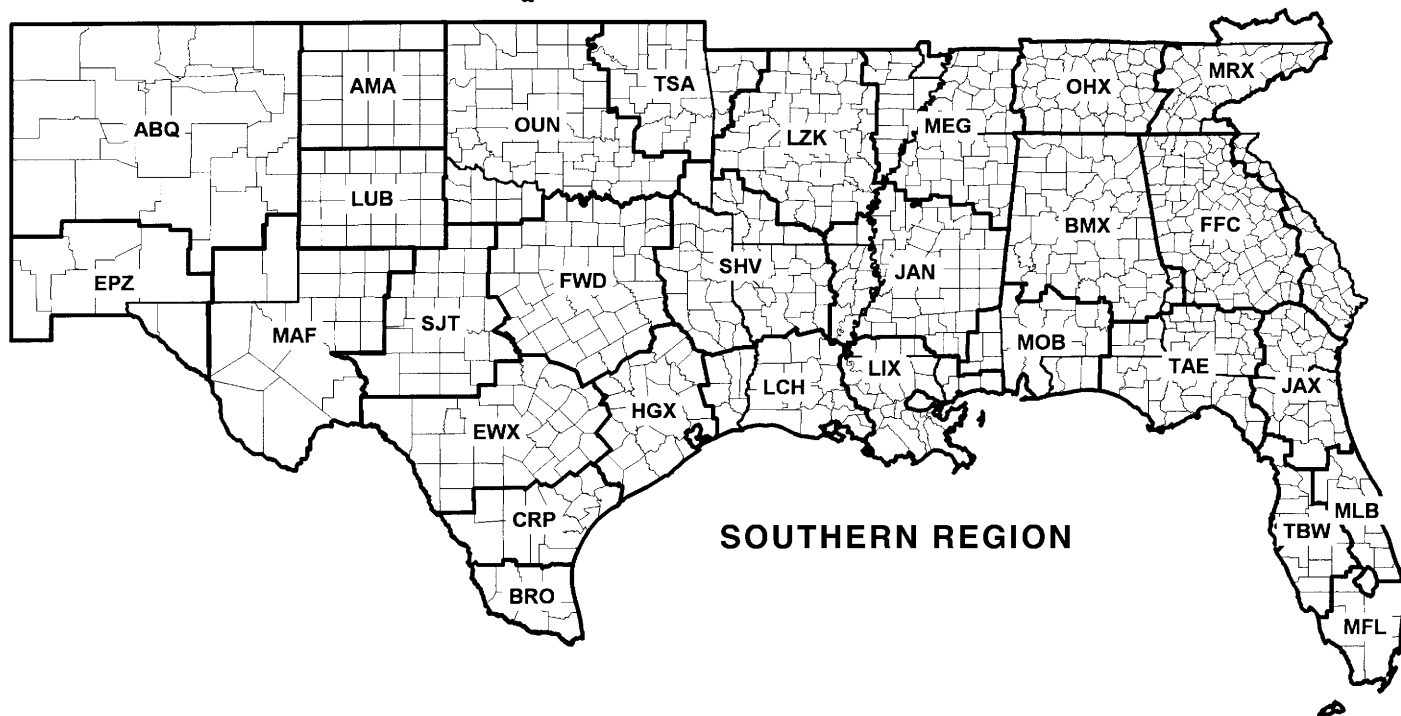
*(F0+F1) Weak Tornado*  
*(F2+F3) Strong Tornado*  
*(F4+F5) Violent Tornado*



# COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

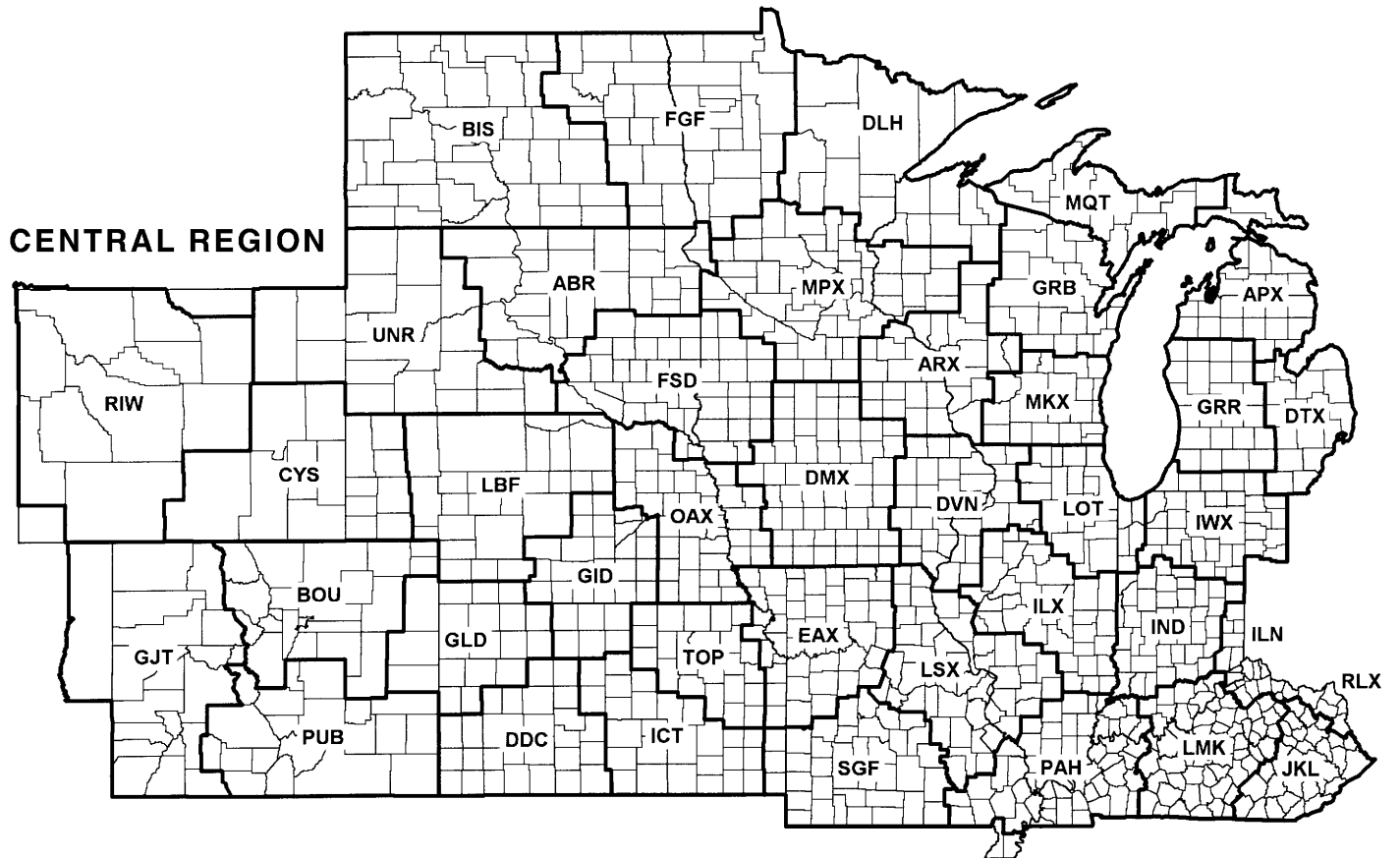
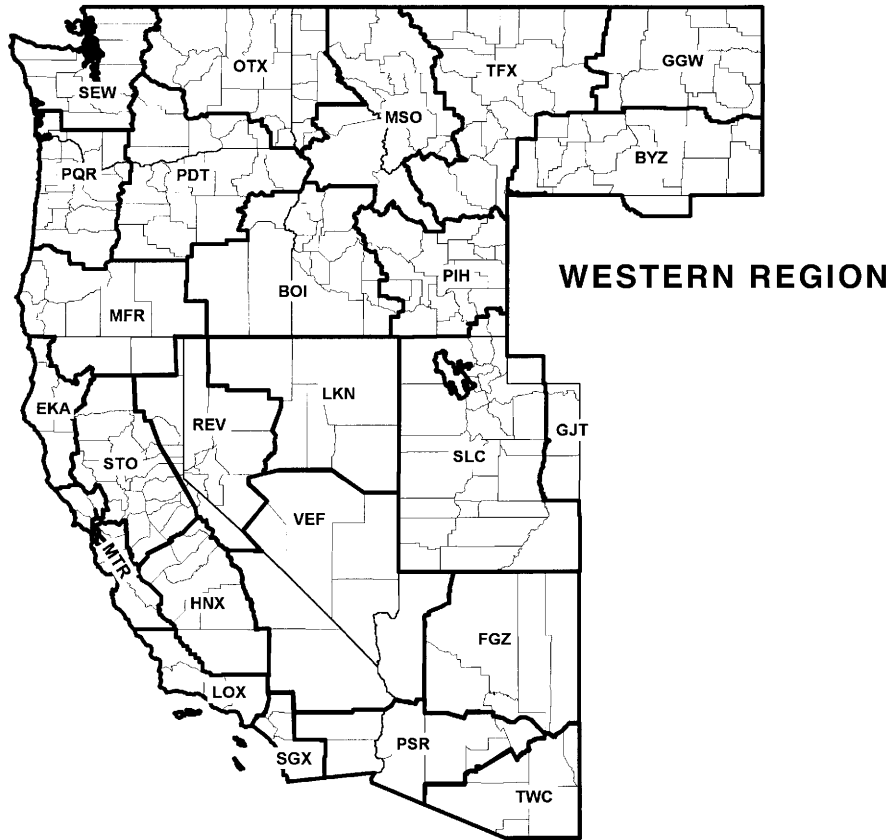


**EASTERN REGION**

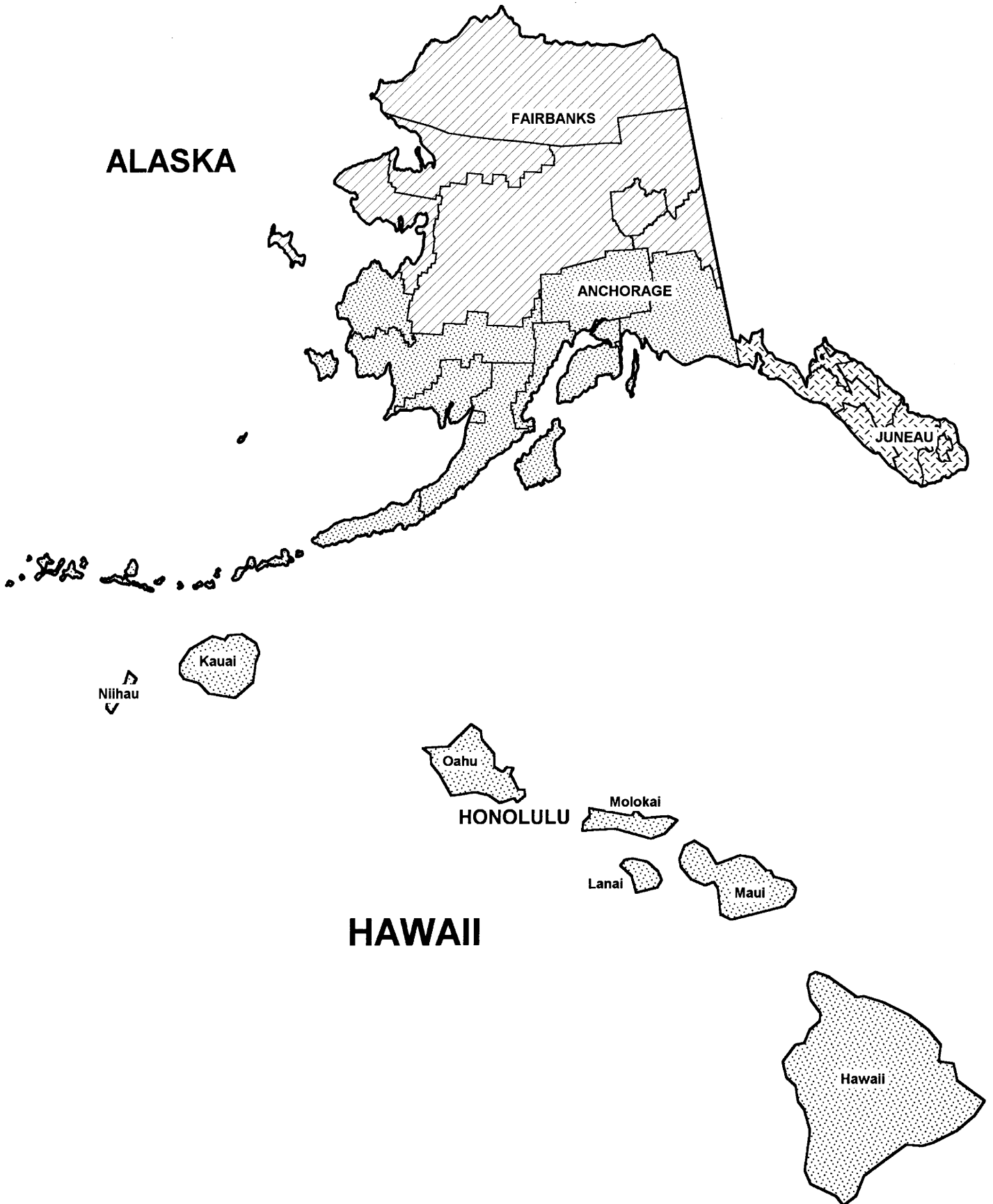


**SOUTHERN REGION**

# COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



# MODERNIZED COUNTY WARNING AREAS



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