

**MARCH 2001
VOLUME 43
NUMBER 03**



STORM DATA

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



noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC

Cover: As a weak low pressure weather system moved northeast from the Gulf of Mexico to the Carolina piedmont, a mixture of snow, rain and strong winds occurred in the mountains of western North Carolina on March 20-21, 2001. Flat Top Mtn in eastern Buncombe County, NC received 14.4 inches of snowfall with three to six foot snowdrifts. Other conditions include an estimated peak windgust of 90 mph, 2.06 meltwater, maximum temperature of 32°F with a minimum of 22°F. (Photograph courtesy of Grant Goodge, NWS observer @ Swannanoa 2SSE, (Flat Top Mtn) NC.)

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

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

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

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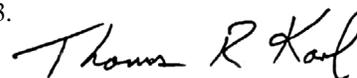
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The editors of **STORM DATA** solicit your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or severe weather events (past or present) for use in the "Outstanding Storms of the Month"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

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National Climatic Data Center
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Asheville, NC 28801

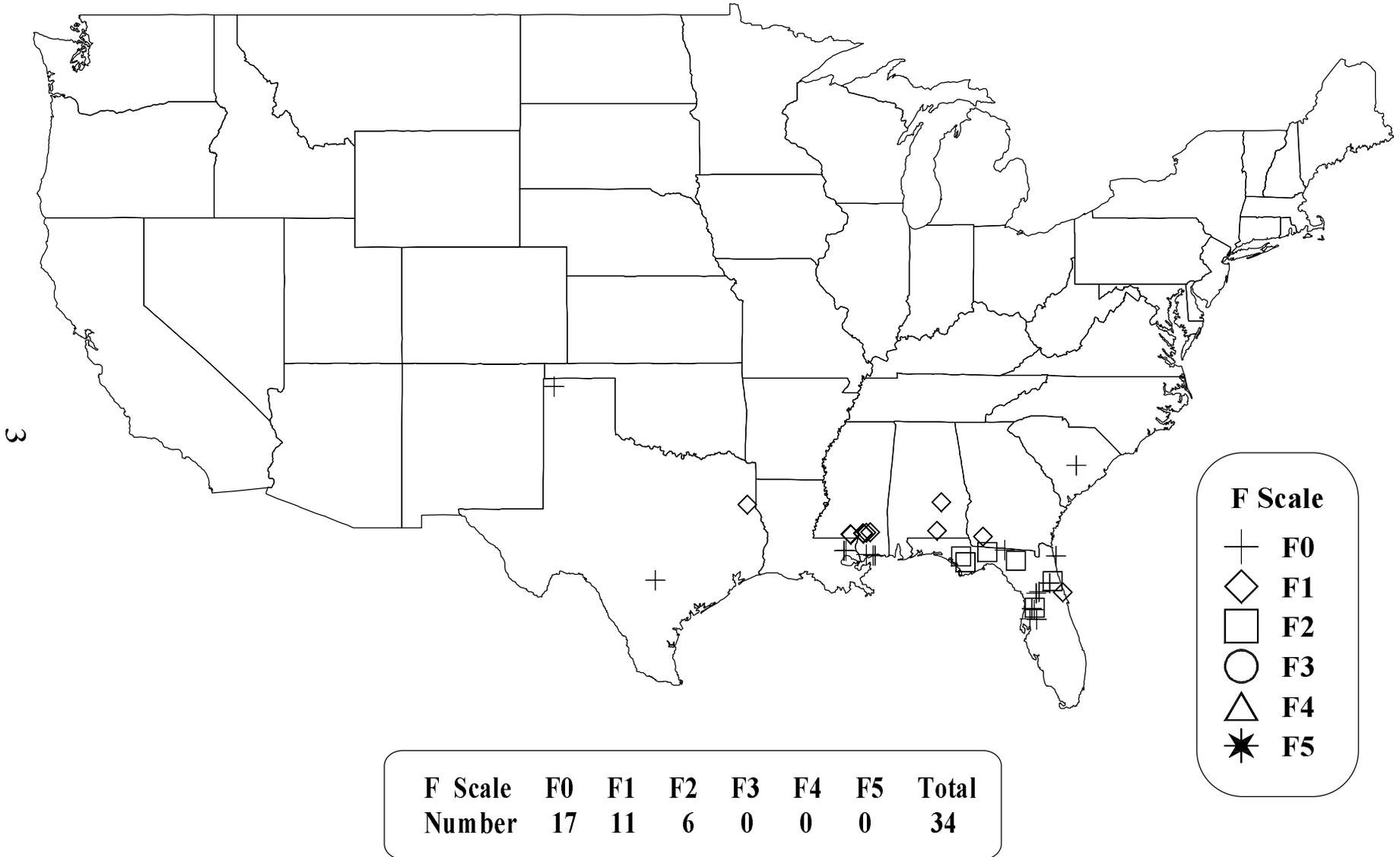
Any such items received by the editor will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials will be returned if requested.

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Thomas R. Karl
Director,
National Climatic Data Center

March 2001 Confirmed Tornadoes



OUTSTANDING STORMS OF THE MONTH

Due to no submissions,

“OUTSTANDING STORM OF THE MONTH”

for March 2001 will not be available.

Storm Data and Unusual Weather Phenomena

March 2001

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

Dallas County

Countywide	02	1655CST 1725CST			0	0	4K	0	Thunderstorm Wind (G50)
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Several trees were blown down across the entire county. The Selma Police Department reported most of the trees were blown down in rural areas.

Montgomery County

Montgomery	02	1829CST 1833CST	2.2	100	0	0	125K	0	Tornado (F1)
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The tornado began in the Woodmere area where a number of houses sustained roof damage primarily in the form of lost shingles, fences were downed, and small trees were uprooted. The tornado moved northeast and tracked through the Beauvoir Lake subdivision where one house under construction was flattened and another house was partially deroofed with serious damage to the upper level.

From Beauvoir Lake subdivision the tornado downed trees and removed shingles from house roofs in the Halcyon area. The tornado crossed Interstate 85 just west of the Taylor Road exit snapping off numerous pine trees in the interstate median. The tornado apparently ended at Taylor Road on the north side of the interstate.

The tornado was rated at F1 based on structural damage in the Beauvoir Lake area. Much of the damage along the track was in the F0 category. The tornado track was 2.2 miles in length and estimated to be about 100 yards wide at it's widest point. The tornado began at 6:29 PM and ended at 6:33 PM. No injuries or deaths were reported with this storm.

Barbour County

Louisville	02	2118CST			0	0	6K	0	Thunderstorm Wind (G50)
------------	----	---------	--	--	---	---	----	---	-------------------------

Several trees were blown down and one barn was destroyed in Louisville.

Montgomery County

Montgomery	03	0557CST			0	0	85K	0	Lightning
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Lightning struck a home on Plum Street during the early morning hours. The house caught fire and was completely destroyed. Two adults and three children were killed as a result of the fire.

Russell County

Seale	03	1400CST 1600CST			0	0	14K	0	Flash Flood
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Several roads were flooded in and around Seale. A few of the roads had portions washed away.

Autauga County

Countywide	03	1700CST 2000CST			0	0	22K	0	Flash Flood
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A few roads were covered with water and a few homes received minor flood damage. Many area creeks and streams topped the banks causing minor flooding. Radar estimated rainfall of 7 to 9 inches over a 28 hour period.

Lowndes County

Countywide	03	1700CST 2000CST			0	0	18K	0	Flash Flood
------------	----	--------------------	--	--	---	---	-----	---	-------------

Several roads were covered with high water and impassible.

Elmore County

Countywide	03	1800CST 2000CST			0	0	14K	0	Flash Flood
------------	----	--------------------	--	--	---	---	-----	---	-------------

Several roads were temporarily closed due to high water.

Montgomery County

Countywide	03	1800CST 2000CST			0	0	45K	0	Flash Flood
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Several roads were closed because of high water. Many creeks and streams were flooding over the banks. A few roads had sections washed away from the high water. Some residential property was flooded but no homes were reported damaged.

Dallas County

Selma	12	1115CST			0	0	0	0	Hail (0.75)
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Penny size hail was reported in Selma.

Dallas County

Selma	12	1145CST 1230CST			0	0	25K	0	Flash Flood
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Major street flooding occurred in Selma. Several automobiles were flooded and damaged.

Elmore County

Wetumpka	12	1245CST 1345CST			0	0	5K	0	Flash Flood
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Roads were flooded and temporarily impassible on the western side of Wetumpka.

Storm Data and Unusual Weather Phenomena

March 2001

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ALABAMA, North Central

Autauga County

Countywide	12	1245CST 1400CST			0 0	15K 0	Flash Flood
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Many roads across the county were flooded and temporarily impassable.

Lowndes County

Countywide	12	1300CST 1400CST			0 0	5K 0	Flash Flood
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Montgomery County

Countywide	12	1300CST 1430CST			0 0	8K 0	Flash Flood
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Several roads were temporarily closed due to very heavy rainfall and flooding.

ALZ023

Tuscaloosa

12	2010CST				1 1	14K 0	High Wind (G40)
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Saturated ground conditions and winds of 25 to 40 miles an hour caused a large pine tree to fall down. The tree subsequently fell onto an automobile traveling on SR 216 near Brookwood crushing the car and killing a female passenger. The driver, a man, was seriously injured. F17VE

Autauga County

Prattville	15	0115CST			0 0	22K 0	Thunderstorm Wind (G55)
-------------------	----	---------	--	--	--------	----------	--------------------------------

A large tree limb fell onto a home causing damage. One trailer was destroyed on the north side of the city.

Elmore County

5 W Tallassee	15	0142CST			0 0	5K 0	Thunderstorm Wind (G55)
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A few power lines were knocked over near Friendship.

Tallapoosa County

Carrville	15	0155CST			0 0	2K 0	Thunderstorm Wind (G50)
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Several trees and power lines were blown down near the intersection of SR 49 and SR 14.

Macon County

Notasulga	15	0200CST			0 0	18K 0	Thunderstorm Wind (G60)
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A vacant mobile was destroyed and several power lines were damaged along SR 199 near Notasulga.

Lee County

Loachapoka	15	0210CST			0 0	2K 0	Thunderstorm Wind (G50)
-------------------	----	---------	--	--	--------	---------	--------------------------------

Several trees were knocked down along SR 14 and also on Lee Road.

Lee County

Auburn	15	0215CST			0 0	2K 0	Thunderstorm Wind (G52)
---------------	----	---------	--	--	--------	---------	--------------------------------

The Lee County Sheriff estimated wind gusts around 60 miles an hour in Auburn.

Russell County

Phenix City	15	0320CST			0 0	3K 0	Thunderstorm Wind (G50)
--------------------	----	---------	--	--	--------	---------	--------------------------------

Several trees were blown down on Old US 431 near Phenix City.

ALZ006>010-

016>018-024>027

Madison - Morgan - Marshall - Jackson - Dekalb - Cullman - Blount - Etowah - Jefferson - Shelby - St.

Clair - Talladega

20	0000CST 0900CST				0 0	0 0	Heavy Snow
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The first day of spring brought a mixed bag of precipitation to Alabama. An upper level low pressure system caused a steady heavy rain to fall late on the 19th and into the morning of the 20th. Most locations received 2 to 4 inches of rainfall during the overnight hours. Minor urban flooding was reported with the heavy rains and caused area rivers to rise. Toward the end of the event, the rain changed to a mixture of rain, sleet, and snow in many areas. The heavy wet snow accumulated in several locations, mainly on grassy and elevated surfaces, with depths reaching up to 10 inches at some higher elevations. The snow quickly melted in a majority of the locations and was completely gone by late morning. Many of the counties affected reported heavy accumulating snow while some parts of these same counties received no snow at all. Elevation differences across the region did not appear to play a part in where snow fell or in the accumulation. Elevation differences contributed to the snow last on the ground for a longer period. Throughout the event, temperatures across the region remained above 32 degrees, except for a few higher elevations in northeast Alabama where temperatures fell to near 30 degrees.

Some heavy wet snow did accumulate on roadways. Blount, St. Clair, Morgan, Jackson, Dekalb, and Etowah counties reported brief snow accumulations on the roads with many slick spots. The heavy snow knocked down some trees and power lines in Blount and Morgan counties. Many areas surrounding the counties listed did see a rain and snow mixture, but no significant accumulations were reported.

Some maximum snowfall total reports included:

Blount	4 to 7 inches
Morgan	2 to 8 inches

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm		
<u>ALABAMA, North Central</u>									
			St. Clair	4 to 10 inches					
			Jackson	4 to 10 inches					
			Dekalb	4 to 10 inches					
			Shelby	3 to 5 inches					
			Jefferson	3 to 5 inches					
			Talladega	3 to 5 inches					
			Limestone, Cherokee, Calhoun, Clay, Cleburne, Randolph, Chambers, Tallapoosa, Coosa, Chilton, Autauga, Dallas, Elmore, Montgomery, Bullock, Macon, Lee, and Russell counties reported snowfall with accumulations less than 2 inches.						
ALZ006			Madison						
			26	0600CST	0	0	0	0	Extreme Cold
			The early morning low temperature recorded at the Huntsville International Airport was 27 degrees. This temperature established a new daily record low temperature.						
ALZ006			Madison						
			28	0600CST	0	0	0	0	Extreme Cold
			The early morning low temperature measured at the Huntsville International Airport was 28 degrees. This observation tied the previous record low temperature.						
<u>ALABAMA, Southeast</u>									
Coffee County									
3 N Enterprise	03	1345EST			0	0	1K		Thunderstorm Wind
			Trees down. Reported by the Coffee County Sheriff.						
Coffee County									
Countywide	03	1400EST 1500EST			0	0	5K		Flood
			Water over several roads. Reported by the Coffee County Sheriff.						
Dale County									
Daleville	03	2040EST			0	0	1K		Thunderstorm Wind
			Trees down on U.S. Highway 84. Reported by the Dale County EMA.						
Dale County									
Pinckard	03	2125EST			0	0	5K		Flood
			County Road 47 from Pickard southward under water. Reported by the Dale County EMA.						
Dale County									
Midland City	03	2200EST			0	0	5K		Flood
			County Road 43 near Midland City under water. Reported by the Dale County EMA.						
Geneva County									
Countywide	03	2200EST 2210EST			0	0	1K		Thunderstorm Wind
			Several trees down. Reported by the Geneva County EMA.						
Geneva County									
Samson	03	2200EST			0	0	5K		Flood
			Armstrong, Azela, and County Roads 153 and 9 under water. Reported by the Geneva County EMA.						
Dale County									
(Ozr)Ft Rucker Aaf	12	0945EST			0	0			Hail (0.75)
			Dime size hail reported by a base weather observer.						
Dale County									
3 SW Ariton	12	1220EST			0	0			Funnel Cloud
			A funnel cloud was observed by the Dale County Sheriff on Highway 51.						
Coffee County									
Enterprise	12	0950EST			0	0			Hail (0.75)
			Dime size hail on Highway 134 near Enterprise. Reported by the Coffee County EMA.						
Coffee County									
Countywide	12	1400EST 1420EST			0	0	75K		Thunderstorm Wind
			Widespread reports of downed trees and power lines. One business lost its awning near Elba. Several chicken houses lost tin from their roofs. Reported by the Coffee County EMA.						

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
ALABAMA, Southwest							
Choctaw County							
Toxey	02	1515CST 1520CST			0 0	3K	Thunderstorm Wind (G55)
Wind damage reported in the community as a thunderstorm moved through.							
Choctaw County							
Countywide	03	0230CST 1830CST			0 0	10K	Flash Flood
Marengo County							
Countywide	03	0230CST 1830CST			0 0	10K	Flash Flood
Heavy rains across the counties caused many secondary roads to washout. Several of the roads were closed throughout the day due to high water. Radar estimated three to five inches of rain fell across the area.							
Clarke County							
Countywide	03	0230CST 1830CST			0 0	365K	Flash Flood
Washington County							
Countywide	03	0230CST 1830CST			0 0	30K	Flash Flood
Heavy rainfall caused extensive washouts to secondary roads and bridges across the counties. Most of the water had drained by sunset and most of the roads were reopened. However, some of the roads and bridges, especially in Clarke county, had to be rebuilt and were closed for several days before they were reopened. Radar estimated four to six inches of rainfall fell across the area.							
Mobile County							
(Mob)Mobile Bates Fl	03	1130CST 1132CST			0 0	5K	Thunderstorm Wind (G50)
High winds from a thunderstorm blew several trees down just south of the airport.							
Butler County							
Countywide	03	1200CST 1830CST			0 0	10K	Flash Flood
Conecuh County							
Countywide	03	1200CST 1830CST			0 0	15K	Flash Flood
Covington County							
Countywide	03	1200CST 1830CST			0 0	10K	Flash Flood
Crenshaw County							
Countywide	03	1200CST 1830CST			0 0	10K	Flash Flood
Escambia County							
Countywide	03	1200CST 1830CST			0 0	10K	Flash Flood
Mobile County							
Countywide	03	1200CST 1830CST			0 0	15K	Flash Flood
Monroe County							
Countywide	03	1200CST 1830CST			0 0	15K	Flash Flood
Wilcox County							
Countywide	03	1200CST 1830CST			0 0	10K	Flash Flood
Heavy rains across the area caused secondary roads to washout in many areas. The water slowly drained from the roads after the rain ended, and most were able to be reopened after sunset. Radar estimated that four to six inches of rainfall fell across the area.							
Baldwin County							
Countywide to North Portion	03	1200CST 1800CST			0 0	15K	Flash Flood
Heavy rains caused many secondary roads throughout the county to wash out. The rains ended during the afternoon in the south part of the county and most of those roads were passable during the late afternoon. Rains continued into the evening across the north parts of the county and roads remained closed until after sunset. Radar estimated three to five inches of rain fell across the area.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
ALABAMA, Southwest							
Washington County							
Sunflower to Wagarville	03	1350CST 1400CST			0 0		Hail (0.75)
Conecuh County							
Castleberry	03	1805CST 1810CST			0 0	5K	Thunderstorm Wind (G55)
Sheriff reported a large tree and other debris over County Road 19 to the west of the community.							
Covington County							
Floral	03	1825CST 1830CST			0 0	20K	Thunderstorm Wind (G60)
High thunderstorm winds blew down trees throughout the community. One of the trees fell onto a house, causing damage to the structure.							
Baldwin County							
Daphne	12	0245CST 0247CST			0 0		Hail (0.75)
Washington County							
Vinegar Bend	12	0550CST 0555CST			0 0		Hail (2.00)
Clarke County							
Opine	12	0620CST 0625CST			0 0		Hail (0.88)
Monroe County							
Beatrice	12	0640CST			0 0	500K	Lightning
Lightning struck a tree near Beatrice Elementary School just before school opened. The lightning ran through the roots of the tree and caught the gymnasium on fire. The gym was completely destroyed. The remainder of the school suffered only minor damage from the fire.							
Conecuh County							
Owassa	12	0645CST 0650CST			0 0		Hail (0.75)
Choctaw County							
Gilbertown	12	0920CST 0925CST			0 0	5K	Hail (0.88)
Lightning also struck a house in the community as the thunderstorm moved through.							
Choctaw County							
Toxey	12	1045CST 1047CST			0 0	15K	Thunderstorm Wind (G55)
Trees and power lines were blown down by high thunderstorm winds near Toxey.							
Wilcox County							
Alberta	12	1055CST 1057CST			0 0	10K	Thunderstorm Wind (G55)
High thunderstorm winds blew trees down just south of Alberta.							
Choctaw County							
Bladon Spgs	12	1100CST 1102CST			0 0	15K	Thunderstorm Wind (G55)
High thunderstorm winds blew several trees down near Bladon Springs State Park.							
Washington County							
Mc Intosh	12	1110CST 1120CST			0 6	1M	Thunderstorm Wind (G75)
A line of severe thunderstorms produced a microburst, with winds estimated in excess of 80 mph, in the vicinity of McIntosh. The severe winds completely destroyed several trailer homes in the area, injuring 6 individuals. Significant tree and structural damage to buildings occurred over a widespread area around McIntosh. Many automobiles were heavily damaged or destroyed as well.							
Mobile County							
Mt Vernon	12	1125CST 1127CST			0 0	15K	Thunderstorm Wind (G55)
Trees and power lines were blown down by high thunderstorm winds along U. S. 43 near Mt Vernon.							
Wilcox County							
Annemanie	12	1145CST 1147CST			0 0	10K	Thunderstorm Wind (G50)
Trees and power lines were blown down by high thunderstorm winds.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
ALABAMA, Southwest							
Baldwin County							
Stockton	12	1155CST 1200CST			0 0	10K	Thunderstorm Wind (G65)
A line of severe thunderstorms downed trees in the community. Dime sized hail was also reported.							
Escambia County							
Huxford	12	1155CST 1205CST			0 1	1M	Thunderstorm Wind (G90)
A line of severe thunderstorms produced an intense and well defined bow echo, or downburst, over the northwestern part of the county. The extremely high downburst winds, estimated to be around 100 mph, produced extensive damage in the Little River State Forest Park. Media reports indicated several hundred acres of pine forest was destroyed. It was noted that the downed pine timber in the Little River State Park possessed some of the largest known diameters of any of the downed trees in the 3/12/01 severe weather outbreak that occurred over Southwest Alabama. A Park Ranger was severely injured when the vehicle he was in was crushed by one of the falling trees. The same line of storms produced wind damage to structures, and 1 inch hail in Huxford, which is just north of the State Park.							
Monroe County							
Uriah	12	1157CST 1205CST			0 0	100K	Thunderstorm Wind (G85)
Widespread tree and structural damage occurred as a line of thunderstorms with an intense bow echo, or downburst, moved across the area.							
Mobile County							
Mobile	12	1209CST			0 0	100K	Lightning
Lightning either directly hit the roof or ran in on the roof of a home. The strike started a fire and the home was almost completely destroyed.							
Conecuh County							
Evergreen	12	1210CST 1220CST			0 1	1.3M	Thunderstorm Wind (G90)
A very intense downburst along a line of severe thunderstorms produced extensive and widespread wind damage to trees, structures and some vehicles throughout the Evergreen area. A large wall of the building housing a local clothing store collapsed, temporarily trapping several people in the building, two of whom received minor injuries. A vehicle outside the building was crushed by the collapsed wall. In addition, the extremely strong winds damaged or destroyed at least 28 other buildings and homes. Several eyewitnesses said no "freight train" sound was heard. It just sounded like a "puff" of wind!							
Mobile County							
Irvington	12	1210CST 1212CST			0 0	5K	Thunderstorm Wind (G50)
High winds from a thunderstorm blew several trees down.							
Mobile County							
Mobile	12	1220CST 1330CST			0 0	3K	Flash Flood
Heavy rains caused temporary flooding of streets in downtown Mobile. Several of the streets in the downtown area were impassable for about an hour.							
Mobile County							
Mobile	12	1225CST 1230CST			0 0	3K	Thunderstorm Wind (G60)
Numerous tree limbs were reported blown down throughout the county.							
Butler County							
Forest Home	12	1235CST 1237CST			0 0	10K	Thunderstorm Wind (G50)
Trees and power lines were blown down by high thunderstorm winds just south of Forest Home.							
Escambia County							
Dixie	12	1255CST 1257CST			0 0	15K	Thunderstorm Wind (G60)
Several trees and power lines were blown down by high thunderstorm winds near Dixie.							
Covington County							
Red Level	12	1300CST 1305CST	3.2	75	2 1	1M	Tornado (F1)
A tornado touched down along the leading edge of a bow echo in the Pigeon Creek area just north of Red Level. The tornado destroyed a manufactured home with three people inside. Two of the occupants were killed and one was injured. The tornado appeared to have first touched down where the home was located. The youngest victim was home sick from school and her grandmother was watching her. The girls father was working in a room that was attached to the home. When the winds hit, the home was pulled out of the ground and rolled across a road and was completely demolished. The room where the girls father was working was left standing. Another "Double Wide" manufactured home, just west of the one that was destroyed, was picked up in the air, blown across or through a clump of trees, and set down about 50 yards south of where it was tied down, in another clump of trees. When viewing the home from a distance it appeared to							

Storm Data and Unusual Weather Phenomena

March 2001

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ALABAMA, Southwest

have been purposely placed in the trees, with little outside damage visible. However, when viewed from the inside, it looked as if an earthquake had hit it, with almost everything inside damaged. Both of these manufactured homes were fairly new. Both of the homes had the front tie downs pulled out of the ground and the anchors on the back of the homes snapped. The winds were estimated to be greater than 100 mph with the combination of the tornado and the intense downdraft from the "Bow Echo". The tornado appeared to remain along the leading edge of the "Bow Echo" for a little over three miles. Other homes suffered roof damage and numerous trees were blown down along the path of the tornado. The tornado dissipated just before entering Butler county just west of Boykin. All totaled throughout the county, twelve homes were destroyed, nineteen had major damage and five had minor damage. Eleven vehicles were also destroyed.

F12MH, F70MH

Butler County

Oaky Streak	12	1305CST 1307CST			0	0	50K	Thunderstorm Wind (G65)
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High winds from a line of thunderstorms that had moved out of Covington county, blew down several hundred mature pine trees. The damage was along County Road 59 south of Oaky Streak. The "Bow Echo" that caused the high winds then weakened as it moved east and northeast.

Crenshaw County

Dozier	12	1310CST 1317CST			0	0	15K	Thunderstorm Wind (G75)
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Structural damage, due to high thunderstorm winds, was reported in the community.

Covington County

Gantt	12	1320CST 1325CST			0	0	200K	Thunderstorm Wind (G70)
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The line of intense thunderstorms that had moved through the Red Level and Pigeon Creek areas of Covington county caused more damage along U. S. 29. just northeast of Gantt. The damage was mostly confined to the west side of the lake. The high winds caused damage to several homes and buildings along with blowing down numerous trees. Most of the damage was to light weight structures, such as out buildings and tin roofs on barns. No one was injured. The "Bow Echo" that caused the damage kept weakening as it moved east.

Covington County

Opp	12	1340CST 1342CST			0	0	20K	Thunderstorm Wind (G60)
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Several trees were blown down just east of Opp as a line of thunderstorms moved through the area. The storms were moving east and weakened as they moved out of Covington county.

ALASKA, Northern

AKZ213

St Lawrence Is. Bering Strait

01	0015AST 1335AST			0	0		Blizzard
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A Low pressure center decelerated as it moved north from Saint Matthew Island to Saint Lawrence Island in the north Bering Sea, bringing blizzard conditions to Gambell during this time.

AKZ213

St Lawrence Is. Bering Strait

04	0915AST 1315AST			0	0		Blizzard
----	--------------------	--	--	---	---	--	----------

A 955 mb Low moved across the eastern Aleutian Islands into Bristol Bay, and the associated weather front brought strong winds and blowing snow to Saint Lawrence Island. Blizzard conditions occurred at Gambell.

AKZ225

Denali

04	1152AST 1335AST			0	0		High Wind (G48) ^M
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With a stationary but strong Low over the western Alaska Peninsula, a ridge of High pressure strengthened over the Copper River Basin causing a brief period of strong winds through Windy Pass of the western Alaska Range, where the Healy weather observer reported a peak gust of 55 mph.

AKZ213

St Lawrence Is. Bering Strait

06	0355AST 0935AST			0	0		High Wind (G54) ^M
----	--------------------	--	--	---	---	--	------------------------------

Low pressure was weakening over Bristol Bay, but High pressure was building faster over the Russian Arctic Ocean, causing strong northeast wind to occur over Saint Lawrence Island. High winds were reported by Gambell AWOS: gust to 62 mph.

AKZ217

Upper Kobuk And Noatak Vlys

10	2300AST			0	0		Extreme Windchill
11	0300AST						

AKZ217

Upper Kobuk And Noatak Vlys

11	0100AST 0800AST			0	0		High Wind (G51) ^M
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While strong and cold High pressure covered the Arctic Ocean and northern Alaska, a weakening weather front moving over southern Alaska caused a locally strong pressure gradient across the south slopes of the Brooks Range, resulting in high winds and low wind chills. The

Storm Data and Unusual Weather Phenomena

March 2001

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

Remote Automatic Weather Station (RAWS) at Makpik Creek reported winds gusts as high as 59 mph, and wind chills as low as 75 below zero (Fahrenheit).

AKZ201

Western Arctic Coast

17	0515AST 1353AST				0	0	Extreme Windchill
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Strong High pressure over the Arctic Ocean north of Barrow and weakening low pressure over northwest Alaska produced cold temperatures and local winds strong enough to produce wind chills as low as 90 below at the Wainwright ASOS.

AKZ207-213

Chukchi Sea Coast - St Lawrence Is. Bering Strait

24	1853AST				0	0	Blizzard
26	2253AST						

AKZ207-217

Chukchi Sea Coast - Upper Kobuk And Noatak Vlvs

24	2100AST				0	0	Extreme Windchill
27	0400AST						

High pressure over the Chukchi Sea and coldweak Low pressure over the Kotzebue area produced cold Wind Chills and Blizzard Conditions over Northwest Alaska, and the Bering Strait..

Blizzard conditions occurred at:

Zone 207- Kivalina

Zone 213 - Tin City

Wind Chill conditions occurred at:

Zone 207 - Kivalina - lowest was -70 F.

Zone 217 - Makpik Creek Remote Automatic Weather Station (RAWS) - lowest was -82 F.

ALASKA, Southeast

AKZ024

Northern Lynn Canal

31	0200AST 2300AST				0	0	Heavy Snow
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The Haines Customs Station at Pleasant Camp (elevation 812 feet) received 11.2 inches of snow in less than 24 hours. This was a microscale event as arctic air trapped in the Chilkat Valley was overrun by warmer, maritime air from Lynn Canal. The snowfall was enhanced by upslope flow where the valley converges. Water equivalent of the snow was only 0.67 inches. Interestingly, no precipitation fell in the community of Haines or at the Haines airport, about 32 miles southeast of the border.

ALASKA, Southern

AKZ185

Eastern Aleutians

02	1543AST 1915AST				0	0	High Wind (G65) ^M
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A 974 mb low moved northeast along the Aleutian chain to the Alaska Peninsula by Friday evening. As the low moved east of Dutch Harbor, northwest winds around the back side of the low gusted to 75 mph at Dutch Harbor. The observer on duty reported "black water" and willwas for several hours Friday evening.

AKZ191

Western Aleutians

04	0715AST 1315AST				0	0	High Wind (G96) ^M
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A strong 954 Mb low moved through the Nikolski area Sunday morning to just north of Cold Bay. Strong northwest winds peaked at 89 mph at Atka at 7:15 am Sunday. Winds continued to gust at warning levels through 1:15 p.m. A gust of 111 mph, recorded on the AWOS observation from 041715Z, was checked out with FAA, who confirmed the likely accuracy of this report. AWOS systems are set up so that the gust value is averaged over a 5 second period during a 10 minute interval. AWOS reports archived and sent into the FAA DAWN system at the site are set up at 20 minute intervals. This means that reports only reflect 5 second average gusts for 50% of the 20 minute period.

AKZ101-125

Anchorage Muni To Bird Creek - Wrn P.W. Snd & Kenai Mtns

04	1320AST				0	0	High Wind (G67) ^M
05	1400AST						

AKZ125

Wrn P.W. Snd & Kenai Mtns

05	0000AST 2100AST				0	0	Heavy Snow
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A moderate front, moving into the area from the southeast, was preceded by gusty east winds along the Anchorage Upper Hillside and areas along and adjacent to Turnagain Arm. By Monday evening, the front lay in a weakening arc from the southern Alaska Range into southwest Alaska and just west of Nunivak Island.

Snowfall amounts exceeded 1 foot from the storm at mid and upper elevations of Mount Alyeska and also in Turnagain Pass (which was subsequently closed). 36 hour snowfall, ending at 6 pm Monday, was reported at up to 4 feet around Grandview...with heavy snow still falling at that time. In a 24 hour period, Turnagain Pass received 2 feet of new snow, with 10 inches recorded at Moose Pass (just north of Seward).

Winds peaked at 66 mph at Glenn Alps along the upper hillside of Anchorage twice between 11 am and 2 pm Monday.

Storm Data and Unusual Weather Phenomena

March 2001

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

AKZ191

Winds peaked at 77 mph at the Portage Visitor Center around 11:36 pm Sunday.

Western Aleutians

05	0815AST 1455AST						High Wind (G53) ^M
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An intense low moved trough the Aleutian chain near Dutch Harbor Sunday around 956 mbs. The low then continued slowly north northeast into the Bering Sea.

At Dutch Harbor, northwest wind gusts of 60 and 61 mph were recorded on 3 observations between 8:15 am and 2:55 pm Monday.

At Adak, wind gusts remained just under 60 mph. Moderate to heavy snow, accompanied by brief blizzard conditions, were reported from just before 3 am Monday to just after noon that same day.

The F/V "Amber Dawn", 6 miles north of Atka, sank very early Monday while offloading their catch of Pacific cod to a larger processing vessel, the "Katie Ann". Three persons on board were rescued, two were missing. By later Monday morning, the Coast Guard reported that winds over the open water had increased 50 - 70 mph. The weather was severe enough to ground at least one rescue chopper.

AKZ101-125

Anchorage Muni To Bird Creek - Wrn P.W. Snd & Kenai Mtns

10	2100AST					High Wind (G64) ^M
11	0900AST					

A moderate front, moving north through the Kenai Peninsula and Prince William Sound Sunday morning, was preceded by east southeast wind gusts that briefly reached 60+ mph. Surface gradients suggest that strongest winds were likely around, and west of, Alyeska and across the upper Anchorage Hillside.

Winds peaked at 64 mph at Portage somewhere between 12:53 am and 1:41 am Sunday as the front approached.

At Glen Alps, wind gusts of 60+ mph from 9 pm Saturday to 9 am Sunday, peaking at 74 mph between 8 am and 9 am, several hours after frontal passage.

AKZ145

Susitna Valley

11	2100AST					Heavy Snow
13	0600AST					

East Fork DOT maintenance camp reported these conditions on the 7 am report...

"12-14" New Snow, TRAVEL ADVISORY issued for Heavy Snowfall, Very icy Conditions, Travel NOT Recommended".

Heavy snow was reported at the Chulitna Lodge through 6 am Tuesday. Chulitna DOT maintenance camp (further south) reported 'about a foot' of new snow along the Parks Highway north of Milepost 156.

At the "Igloo", further up the Parks Highway, snowfall totals of 1 foot were reported Monday morning. Reports also indicated up to 14" of new snow East Fork. By Tuesday morning, "Igloo" reports logged only an additional 3 inches of wet snow...with added comments wind in the area.

Tuesday morning, Colorado Lake (MP 170 Parks Highway) reported 28" of new snow since Sunday. Heaviest snowfall occurred Sunday night and Monday night.

AKZ185

Eastern Aleutians

13	1230AST					High Wind (G52)
14	0300AST					

Gusty northwest winds were observed across the extreme eastern Aleutians Tuesday afternoon through early Wednesday, along the back side of a moderate 976 mb low 180 miles south southeast of Chignik. Warning level winds, however, were very localized.

Peak winds recorded reached 58 mph at one of the Dutch Harbor airport wind gauges between noon and 1 pm Tuesday. These winds are only reported by the observer as augmentation to the AWOS...and then only during the daylight hours the airport is open. Gusty north and northwest winds continued through the night. Although no official wind gusts reached 60+ mph levels, winds around the airport probably reached or exceeded this level after the observer left.

AKZ125

Wrn P.W. Snd & Kenai Mtns

14	0840AST 1700AST					High Wind (G55) ^M
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A moderate front, moving northwest through Prince William Sound Wednesday, was preceded by locally brisk easterly winds. Gusts as high as 63 mph were recorded at the Portage ASOS between 8:30 am and 9 am Wednesday.

AKZ185

Eastern Aleutians

16	0814AST 0850AST					High Wind (G54) ^M
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Williwaws, snow squalls and 'black water' were reported by the observer at the Dutch Harbor airport Friday morning, as cold, modified arctic air moved into the north Pacific from the Bering Sea. Gusts briefly reached 62 mph during this time.

Storm Data and Unusual Weather Phenomena

March 2001

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

attributed to slick roads and poor visibility. One tree fell on skylights in a roof of a house on Millbay Road.

Ship reports along the south portion of the Kodiak Island waters provided reports of sustained winds in the 40 - 50 knot range (46 - 58 mph).

This was a BIG event for Kodiak. Heavy snows and strong winds were likely the culprits in the power outages, snapping of power poles and downing of trees. Cold road surfaces and water on ice from the rains, contributed to the vehicle accidents...as well as poor visibilities (which were likely lower in many areas than ASOS reported values).

AKZ135

Sern P.W. Snd

24	0000AST						
25	0300AST			0	0		High Wind (G69)

Building high pressure in the southeast Alaska mainland...and deepening low pressure areas in the Gulf of Alaska, caused arctic air to move seaward from the Alaskan interior. Gusty northerly winds were reported in many areas adjacent to Prince William Sound as the cold air moved south.

Northerly winds were estimated close to 80 mph out of the Copper River Delta by a local air service (out of Cordova) Saturday. By Sunday morning, wind gusts had diminished to around 45 mph. Blowing dust and blowing sand reduced surface visibility frequently near the Copper River Delta and around the Million Dollar Bridge Saturday.

AKZ135

Sern P.W. Snd

26	1500AST						
	2359AST			0	0		High Wind (G63) ^M

Strong pressure rises, following a moderate, westward moving low just south of Prince William Sound, triggered gusty southeast winds in many areas of the northern Gulf Coast. Gusts reached 73 mph at the Prince William Sound Science Center around 9 pm late Tuesday as the low passed. These winds are channeled through the Eyak Lake area and are anomalous to the city, harbor and ski area.

AKZ145

Susitna Valley

28	1100AST						
	2359AST			0	0		Heavy Snow

Close to 1 foot of new snow was reported near Cantwell (by the general public) Thursday morning. Heavy snowfall likely occurred in other parts of the Susitna Valley Wednesday and Wednesday night. This added to 4 to 6 inches of snow that fell Tuesday. The culprit, arctic frontal overrunning.

AKZ125

Wrn P.W. Snd & Kenai Mtns

29	0700AST						
30	0700AST			0	0		Heavy Snow

With the arctic front hanging right across the area, Seward recorded a significant snowfall. 24 hour Observations received Friday morning from the DOT recorded 18 inches of new snow in a 24 hour period from 7am Thursday to 7 am Friday. Noontime calls to Seward revealed another 6 inches of snow from 7 am to noon Friday.

AMERICAN SAMOA

Tutuila

Countywide	23	1200SST					
		2330SST			0	0	Urban/Sml Stream Fld

Heavy showers and thunderstorms associated with an active trough of low pressure just south of Samoa caused widespread flooding of low lying areas as well as overflowing of small streams and caused bonding of streets and roadways across Tutuila. Various mud and landslides were also reported by the police west of Poloa.

Tutuila

Countywide	26	0400SST					
	27	1000SST			0	0	Urban/Sml Stream Fld

An active trough of low pressure(South Pacific Convergence Zone) has become nearly stationary across the Samoan Island for the last few days is responsible for the occasionally heavy showers and scattered thunderstorms which has affected American Samoa in the last couple of days. These heavy showers and heavy runoffs has cause flooding of low lying areas and overflow of small streams as well as causing mud and landslides across the Tutuila.

ARIZONA, Central and Northeast

NONE REPORTED.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

AZZ033

Tucson Metro/Marana/Green Valley

07	0330MST						
	2000MST			0	0	0	Heavy Snow

test

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>ARIZONA, South</u>							
Mt. Lemmon received 14 inches of wet, heavy snow and Palisades Ranger Station received 9 inches of snow.							
AZZ034							
Santa Cruz County							
	07	0330MST			0	0	0
		1437MST					Heavy Snow
Mt. Hopkins, located in the Santa Rita mountains, received 12 inches of snow.							
AZZ030							
Upper Gila River Valley							
	07	0330MST			0	0	0
		2000MST					Heavy Snow
Mt. Graham received 12 inches of snow.							
Pima County							
20 W (Tus) Tucson Intl	07	1453MST			0	0	0
							Funnel Cloud
A trained spotter reported a cold air funnel cloud 5 miles west of Ryan Airfield. This storm system originated over central Pacific Ocean and was able to tap into the subtropical air which produced valley rain and heavy snow in the mountains on the 7th. The main precipitation band produced valley rain in amounts ranging from .25 inches to 1 inch around southeast Arizona. This caused some minor street flooding in the Tucson Metro area. Snow levels fluctuated between 5500 and 6500 feet with significant accumulation above 7000 feet. By the afternoon on the 7th, the system moved east and the dry slot helped organize lines of low topped storms. Several spotters reported small hail and gusty winds. There was also a report of a funnel cloud from Ryan Airfield.							
<u>ARIZONA, Southwest</u>							
AZZ024							
Southern Gila/Tonto Nf Foothills							
	01	0530MST			0	8	
		0740MST					Fog
Dense fog was reported over much of south central Arizona around sunrise. Three fog-related accidents left 8 people hurt near the intersection of Arizona 347 and Arizona 238 just north of the town of Maricopa. The accidents forced the closure of route 347 from Maricopa to I-10 until about 10:30 am.							
Yuma County							
Yuma	06	1640MST			0	0	
		2300MST					Urban/Sml Stream Fld
Heavy rainfall throughout much of southwest Arizona left streets and roads flooded and washes running. A weather spotter at Yuma Foothills recorded over an inch of rain, bringing his year-to-date total to just over 3 inches. The average annual rainfall in Yuma is 2.7 inches.							
Maricopa County							
Aguila to Phoenix	07	0100MST			0	0	
		1500MST					Urban/Sml Stream Fld
Heavy rain over much of south central Arizona left washes running and streets flooded or closed. More than 2 inches of rain fell in and around Wickenburg. One to 2 inches fell over much of the Phoenix area. Air traffic was slowed at Sky Harbor airport as about 300 planes were delayed.							
Maricopa County							
Buckeye	07	1307MST			0	0	
							Funnel Cloud
<u>ARKANSAS, Central and North Central</u>							
White County							
Beebe	04	0145CST			0	0	
							Flash Flood
Excessive rain caused some street flooding in Beebe.							
Cleburne County							
6 S Wilburn	12	1835CST			0	0	
							Hail (0.75)
White County							
Pangburn	12	1840CST			0	0	
							Hail (0.75)
Independence County							
Pleasant Plains	12	1855CST			0	0	
							Hail (1.00)
Saline County							
Paron	31	1225CST			0	0	
							Hail (0.75)
Saline County							
Bryant	31	1300CST			0	0	
							Hail (1.75)
Cleburne County							
10 SW Heber Spgs	31	1340CST			0	0	
							Hail (0.75)
Saline County							
Sardis	31	1345CST			0	0	
							Hail (0.75)
Dime size hail covered the ground near Sardis.							

Storm Data and Unusual Weather Phenomena

March 2001

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

Cleburne County

3 SW Heber Spgs	31	1355CST			0 0		Hail (1.75)
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Jefferson County

Redfield	31	1356CST			0 0		Hail (0.75)
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Grant County

2 NE Ico	31	1400CST			0 0		Hail (0.75)
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White County

Letona	31	1420CST			0 0		Hail (0.75)
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White County

Bald Knob	31	1446CST			0 0		Hail (0.75)
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White County

Searcy	31	1500CST			0 0		Hail (0.75)
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White County

Judsonia	31	1500CST			0 0		Hail (1.75)
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Woodruff County

Augusta	31	1517CST			0 0		Hail (0.75)
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Woodruff County

Patterson	31	1525CST			0 0		Hail (0.75)
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White County

Rose Bud	31	1555CST			0 0		Hail (1.00)
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White County

3 S Center Hill	31	1615CST			0 0		Hail (0.75)
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Monroe County

Brinkley	31	1635CST			0 0		Hail (0.75)
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Prairie County

Hickory Plains	31	1650CST			0 0		Hail (0.75)
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Ouachita County

Bearden	31	1840CST			0 0		Hail (0.75)
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Cleveland County

Kingsland	31	1843CST			0 0		Hail (1.50)
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Cleveland County

3 N Rye	31	1900CST			0 0		Hail (1.75)
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Calhoun County

3 SW Thornton	31	1900CST			0 0		Hail (0.75)
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ARKANSAS, East

Craighead County

Bono	12	1945CST 1950CST			0 0	0.75K	Hail (1.75)
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Greene County

Marmaduke	12	2010CST 2015CST			0 0	0.01K	Hail (0.75)
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Clay County

Rector	12	2030CST 2035CST			0 0	0.01K	Hail (0.75)
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Cross County

2 N Wynne to 2 SE Wynne	31	1510CST 1520CST			0 0	0.01K 5K	Hail (0.75)
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Hail accumulated as much as 8 -10 inches in a mile long swath. Some peach trees were damaged by the hail.

Crittenden County

Horseshoe Lake	31	1625CST 1640CST			0 0	0.01K	Hail (0.75)
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Lee County

Aubrey to Rondo	31	1708CST 1720CST			0 0	0.60K	Hail (1.50)
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Hail ranged in size from dimes to walnuts.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>ARKANSAS, East</u>							
Lee County							
Rondo	31	1715CST 1720CST			0 0	5K	Thunderstorm Wind
A few trees were snapped.							
Phillips County							
Lexa	31	1736CST 1740CST			0 0	0.01K	Hail (0.75)
Phillips County							
Marvell	31	1810CST 1815CST			0 0	0.01K	Hail (0.75)
<u>ARKANSAS, Northwest</u>							
NONE REPORTED.							
<u>ARKANSAS, Southeast</u>							
NONE REPORTED.							
<u>ARKANSAS, Southwest</u>							
Columbia County							
Emerson	12	0410CST			0 0		Hail (0.75)
<u>CALIFORNIA, Extreme Southeast</u>							
NONE REPORTED.							
<u>CALIFORNIA, North Central</u>							
CAZ068	Mt Shasta/Western Plumas County						
	01	1530PST			0 0		Heavy Snow
	02	0810PST					
More than a foot of snow was measured at the Lassen Park Chalet.							
Sacramento County							
10 SW Sacramento	02	1705PST 1710PST			0 0		Funnel Cloud
The California Highway Patrol reported a funnel cloud near Clarksburg, just west of Interstate 5.							
CAZ013>014-063-068>069	Shasta Lake/North Shasta County - Burney Basin/Eastern Shasta County - Mountains Southwest Shasta County To Northern Lake County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada						
	03	1530PST			0 0		Winter Storm
	05	1530PST					
One to three feet of snow was commonly measured above 7000 feet temporarily closing Interstate 80 and Highway 50.							
CAZ015>019	Northern Sacramento Valley - Central Sacramento Valley - Southern Sacramento Valley - Carquinez Strait And Delta - Northern San Joaquin Valley						
	04	1240PST 2359PST			0 0		High Wind (G50) ^M
Strong low pressure just off the Northern California coast was responsible for south winds in excess of 50 mph.							
<u>CALIFORNIA, Northeast</u>							
CAZ073	Mono						
	03	1735PST			0 0		Heavy Snow
	04	1735PST					
Spotter reports of 19 inches in 24 hours in the Mammoth Lakes area.							
CAZ073	Mono						
	03	2100PST			0 0	0	Heavy Snow
	04	0900PST					
Spotter report of 12 inches of snow in 12 hours in Mammoth Lakes.							
CAZ072	Greater Lake Tahoe Area						
	04	0650PST			0 0	0	Heavy Snow
	05	0650PST					
California Department of Transportation reported heavy snow of 5 inches in 6 hours and 15 inches in 24 hours at Donner Summit.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>CALIFORNIA, Northeast</u>							
CAZ073		Mono					
	04	0705PST			0	0	0
	05	0705PST					Heavy Snow
	Spotter report of 37 inches of snow in 24 hours and a storm total of 44 inches at Mammoth Ski area, elevation 9600 feet.						
CAZ073		Mono					
	04	0800PST			0	0	0
	05	0800PST					Heavy Snow
	Spotter in June Lake reported 40 inches of snow in 24 hours.						
CAZ073		Mono					
	04	1435PST			0	0	0
	05	1435PST					Heavy Snow
	Ranger Station in Mammoth Lakes reported a total of 26 inches of snow in 24 hours.						
CAZ073		Mono					
	04	1745PST			0	0	0
	05	0545PST					Heavy Snow
	Spotter in the Mammoth Lakes area reported 18 inches in 12 hours and a storm total of 31 inches at 8000 feet.						
CAZ073		Mono					
	04	1902PST			0	0	0
	05	0702PST					Heavy Snow
	Spotter report of 24 inches of snow in 12 hours and a storm total of 48 inches in Lee Vining.						
CAZ073		Mono					
	05	0755PST			0	0	0
	Avalanche						
	Spotter reported US 395 was closed just north of Lee Vining due to an avalanche, no injuries or damage were reported.						
CAZ073		Mono					
	09	0540PST			0	0	0
		0940PST					Heavy Snow
	Spotter in Mammoth Lakes reported 4 inches of snow in 4 hours.						
CAZ073		Mono					
	09	1723PST			0	0	0
		2023PST					Heavy Snow
	Spotter in Walker reported 7 inches of snow in 3 hours.						
<u>CALIFORNIA, Northwest</u>							
CAZ076		Mendocino Interior					
	04	1700PST			0	0	0
	05	0200PST					Flood
	Minor flooding along Russian River near Hopland and in the Talmage area near Ukiah.						
Trinity County							
1 W Burnt Ranch	21	1745PST			0	0	0
	Exact time of event is unknown - time is estimated from radar data. The following day three reports reached the WFO of 3/4 inch to 1 inch hail at approximately this time.						
Del Norte County							
1 W Crescent City	27	1500PST			1	0	0
	Rip Currents						
	A youth visiting the beach with a group from Ashland, Oregon was swept of a rock at Preston Island by a large wave. Currents then carried the youth about 100 yards offshore where deputies lost visual contact.						
	M1161W						
<u>CALIFORNIA, South Central</u>							
CAZ099		Se Kern Cty Desert					
	01	2000PST			0	0	0
		2200PST					Wind
	Brisk wind estimated at 20 to 30 MPH from the unusual direction of NNE reported at the California City Airport with blowing dust in the area.						
CAZ095>097		Kern Cty Mtns - S Sierra Mtns - Tulare Cty Mtns					
	03	2300PST			0	0	0
	05	2100PST					Winter Storm
	Substantial amounts of snow fell in the high terrain of Interior Central California with water equivalents reported from 3 inches at Frazier Park in the Kern Mountains to 25 inches at Ostander Knob in the Southern Sierra and Crabtree Meadows in the Tulare County Mountains.						

Storm Data and Unusual Weather Phenomena

March 2001

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

CAZ091>092-095 Sw Sj Valley - Se Sj Valley - Kern Cty Mtns
04 0700PST 0 0 600K 100K High Wind (G72) ^M
05 0400PST

CAZ089>090 W Central Sj Valley - E Central Sj Valley
04 1400PST 0 0 Wind
2000PST

Strong southeast wind flow ripped through Interior California with various degrees of damage reported on the San Joaquin Valley floor to small structures and agriculture in addition to the damage in the Kern Mountains from strong wind around Frazier Park, Lebec, and Fort Tejon. Local utility companies reported more than 53 power poles downed and a dozen 70,000-volt power lines on the Southern San Joaquin Valley floor and in the Kern Mountains causing a power loss to at least 15,000 customers. Wind speed to 83 MPH was reported 5 mile east of Tehachapi with 55 MPH wind in Tehachapi Valley itself. Numerous trees and fences were downed with dirt piled up to 10 inches from blowing dust in the South Valley communities of Arvin, Wasco, and Shafter.

CAZ093 S Sierra Foothills
04 1400PST 0 0 100K Wind
2000PST

In the vicinity of Coarsegold and other foothill communities of the Southern Sierra Nevada gusty wind up to 55 MPH caused power lines to be downed and resulted in the loss of power to 15,000 utility customers.

Fresno County
Fresno 05 0800PST 0 0 Urban/Sml Stream Fld
06 0400PST

Mariposa County
Mariposa 05 0800PST 0 0 Urban/Sml Stream Fld
2100PST

Fresno County
5 NNE Coalinga 05 0833PST 0 0 Urban/Sml Stream Fld
06 0400PST

Fresno County
20 WSW Mendota 05 0833PST 0 0 Urban/Sml Stream Fld
06 0400PST

Kern County
Lebec 05 1140PST 0 0 Urban/Sml Stream Fld
2100PST

Heavy rain led to roads being washed out at Panoche Creek and Silver Creek Roads and Highway 33/198 in far west Fresno County. Within Fresno City numerous intersections were flooded due to the substantial rain from the period beginning late on the 4th and into the early hours on the 6th. Heavy rain led to small stream flooding in the foothills of the Southern Sierra Nevada around Mariposa and mudflows around Lebec in the Kern County Mountains. Some rainfall amounts reported during the period from the 4th through the 6th included: 2.99" at Coalinga, 2.20" at Avenal, 1.35" at Chowchilla, and 0.89" at Fresno on the San Joaquin Valley floor; 2.02" at Mariposa, 2.69" at Yosemite and 2.76" at Graveyard Meadow in the Southern Sierra Nevada; and, 6.10" at Frazier Park and 4.05" at Pine Mountain in the Tehachapi Mountains of Kern County.

Kings County
9 SE Avenal 05 0830PST 0 0 Flood
1500PST

Fresno County
2.5 N Huron 05 1305PST 0 0 Flood
1500PST

Large accumulations of rain from the 4th and into the 6th provided for substantial sheet flow or small stream flooding, especially on the west side of the San Joaquin Valley.

Kern County
Bakersfield 06 1900PST 0 0 Urban/Sml Stream Fld
2030PST

Kern County
Oildale 06 1900PST 0 0 Lightning

Kern County
2 W Bakersfield 06 1950PST 0 0 Lightning

A fierce thunderstorm flooded numerous streets in Bakersfield and triggered a 2-hour power outage to 2,000 utility customers from a lightning strike in the Oildale area around 1900 PST and another around 1950 PST in west Bakersfield. Flooding impeded traffic in a least 19 different locations from the cloudburst. This thunderstorm activity ended an inclement weather period of rain and wind for the South San Joaquin Valley that began on the 4th.

Storm Data and Unusual Weather Phenomena

March 2001

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

CAZ099

Se Kern Cty Desert

28 2250PST

0 0

Wind

29 0400PST

Extremely localized wind up to 63 knots was reported at the Mojave Airport in the Kern County desert.

CAZ096

S Sierra Mtns

31 0001PST

0 0

Abnormally Dry

2359PST

Interior Central California continues to run behind normal in regard to water storage during the current water year (7/1/2000 to 6/30/2001). By the end of the month the Southern Sierra Nevada was running only about 65% of the normal water/rainfall for the date with similar percentages for the north part of the state.

CALIFORNIA, Southeast

CAZ026

Owens Valley

04 0900PST

0 0

Heavy Snow

05 0935PST

A weather spotter in Aspendell, CA reported 28 to 29 inches of new snow in just over 24 hours.

CALIFORNIA, Southwest

San Diego County

Ocean Beach

01 1630PST

1 0

Rip Currents

M49IW

CAZ055

San Bernardino County Mountains

03 0800PST

0 0

Fog

1030PST

Dense fog along the north slopes of the San Bernardino Mountains led to a tour bus, a semi-tractor trailer rig, and a car colliding with each other near Cajon Pass. Seventeen people were injured and damage was estimated at \$150,000.

Orange County

Yorba Linda

06 1032PST

0 0

Funnel Cloud

CAZ043

San Diego County Coasts

29 1000PST

0 5

150K

Heavy Surf

30 1000PST

A 27 foot boat was broadsided by a 7 foot wave southwest of the entrance to Oceanside Harbor. The fifteen occupants were thrown into the water. Two men suffered major injuries, three others had minor injuries.

CALIFORNIA, Upper

CAZ082-082-082

South Central Siskiyou County

04 1445PST

0 0

Heavy Snow

05 0100PST

Spotter SY68 1.5 miles SW of Black Butte reported 6 inches of snow in 13 hours at 0837 PST, then reported 6 additional inches between 1000 PST and 1445 PST.

A Winter Storm Warning for CAZ082 above 4500 feet was issued at 0420 PST on 3/4 and expired at 0400 PST on 3/5. The above reports verified the warning, which should have been issued for elevations above 4000 feet.

CALIFORNIA, West South Central

San Luis Obispo

County

Countywide

04 1000PST

0 0

Heavy Rain

06 1000PST

Santa Barbara

County

Countywide

04 1000PST

0 0

Heavy Rain

06 1000PST

CAZ034>040-

044>045-051>052

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 - Ventura County Interior Valleys - Ventura County Coastal Valleys - San Luis Obispo County Mountains - Santa Barbara County Mountains

04 1200PST

0 0

High Wind (G65) ^M

06 0300PST

Los Angeles County

Countywide

04 1400PST

0 0

Heavy Rain

06 1000PST

Storm Data and Unusual Weather Phenomena

March 2001

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

Ventura County

Countywide	04 06	1400PST 1000PST			0 0		Heavy Rain
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CAZ053>054 Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range

	04 07	1615PST 1200PST			0 0		Winter Storm
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CAZ035>036 Santa Barbara County Central Coast - Santa Ynez Valley

	04 07	1915PST 0500PST			0 0		Flood
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Santa Barbara County

Santa Barbara Arprt	05	0005PST			0 0		Flood
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Los Angeles County

Malibu	05	0100PST			0 0		Flood
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Ventura County

2 S Fillmore to Fillmore	05	0130PST			0 0		Flood
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San Luis Obispo County

Creston	05	0300PST			0 0		Urban/Sml Stream Fld
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San Luis Obispo County

San Luis Obispo	05	0300PST			0 0		Coastal Flooding
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San Luis Obispo County

Nipomo	05	0530PST			0 0		Flood
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San Luis Obispo County

Arroyo Grande	05	0600PST			0 0		Flood
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San Luis Obispo County

Oceano	05	0600PST			0 0		Flood
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San Luis Obispo County

Pismo Beach	05	0600PST			0 0		Flood
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A powerful and slow-moving storm brought heavy rain, strong winds and snow to Central and Southern California. Across San Luis Obispo and Santa Barbara counties, rainfall totals ranged from 2 to 6 inches over coastal and valley areas to 6 to 13 inches in the mountains. In San Luis Obispo county, the heavy rain produced numerous flooding. In Oceano, the Arroyo Grande Creek overflowed, destroying numerous crops and damaging one home. Also, the Pacific Dunes RV Park was flooded, stranding several residents. In Arroyo Grande, flooding along Corbett Creek damaged 4 homes and 5 classrooms in Arroyo Grande High School. In Pismo Beach, flooding along Pismo Creek damaged some homes in Pismo Court Village. In Nipomo, several small streams flooded, damaging 20 to 30 homes. In Creston, the heavy rain produced widespread urban flooding. Widespread flooding also occurred across Santa Barbara county. The Santa Barbara Airport was flooded when the Las Vegas and Mission Creeks overflowed. Many reports of mudslides were received from Santa Barbara county. In addition, the extreme rainfall and runoff resulted in flooding along the Santa Ynez River. Along the Santa Ynez River, the peak river stage reached 21 feet which was 9 feet above flood stage. Across Ventura and Los Angeles counties, rainfall totals were somewhat less, but still very significant. Ventura county received between 3 and 12 inches of rainfall while Los Angeles county received 1 to 3 inches. This heavy rainfall produced numerous flooding and mudslides. Near Fillmore, South Mountain and Guiberson Roads were closed due to mudslides. In Malibu, mudslides closed sections of Corral Canyon and Malibu Canyon Roads. Across Central and Southern California, strong southeasterly winds accompanied the storm. Widespread winds between 30 and 50 MPH with stronger gusts were reported from the coastal areas to the mountains. In the mountains of Ventura and Los Angeles counties, winter storm conditions developed with snowfall accumulations of 6 to 12 inches, gusty southeast winds and visibilities near zero in blowing snow and dense fog.

San Luis Obispo County

Santa Margarita	06	1530PST			0 0		Hail (0.75)
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A severe thunderstorm produced dime size hail in the community of Santa Margarita.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>COLORADO, East Central</u>							
COZ090>091	Yuma County - Kit Carson County						
	15	0025MST 0900MST			0 0		High Wind (G63)
	High winds across far eastern Colorado created ground blizzard conditions for a short time. This was caused by a strong late winter low pressure system that also produced some snow.						
<u>COLORADO, South Central and Southeast</u>							
COZ058>059- 061>062-065>069- 071>072-075	Leadville And Vicinity - W Lake / W Chaffee County - Eastern San Juan Mountains - Northern San Luis Valley/Del Norte And Vicinity - Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Western Fremont And Northern Custer Counties - Upper Arkansas River Valley/Salida And Vicinity - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Upper Purgatoire River Basin/Trinidad And Vicinity						
	10	0200MST			0 0		Winter Storm
	11	1200MST					
	A strong weather disturbance moving across northern New Mexico...in combination with upslope flow behind a surface cold front generated widespread snow across southern Colorado from the morning of the 10th into the morning of the 11th. Northern and central El Paso county...including Colorado Springs tallied up to 6 to 7 inches of snow. Up to 8 inches fell in Teller county at Cripple Creek...and in Climax in Lake county. Saguache...in Saguache county and Westcliffe...in Custer county measured 8 to 10 inches. Both Monarch Ski Area and Wolf Creek Pass tallied 10 inches. Gulnare...in Las Animas county saw 12 inches of new snow...and 14 inches piled up in Cuchara in Huerfano county.						
COZ071-076-078- 080>081	Southern El Paso County/Colorado Springs And Vicinity - Crowley And Otero Counties/La Junta And Vicinity - Kiowa County - Prowers County/Lamar And Vicinity - Baca County/Springfield And Vicinity						
	15	0500MST 0930MST			0 0		High Wind (G59) ^M
	A strengthening low pressure system over central Kansas generated some high winds over portions of southern Colorado including 60 mph wind gusts near Wiley and Sheridan Lake as well as eastern El Paso county. 62 mph wind gusts were noted in the vicinity of Springfield and a 68 mph wind gust was measured at La Junta.						
COZ061-068>069	Eastern San Juan Mountains - Western Fremont And Northern Custer Counties - Upper Arkansas River Valley/Salida And Vicinity						
	16	1600MST			0 0		Heavy Snow
	17	1000MST					
	An upper level storm system generated a few bands of heavy snow accumulation over parts southern Colorado. Most area in the mountains and adjacent high valleys and plains had 2 to 5 inches of snow...but some of the heavier snow totals include: 7 inches at Nathrop in Chaffee county...8 inches at Coaldale in Fremont county...in Custer county...up to 10 inches 7 to 10 miles west of Westcliffe...and in in Mineral county the Wolf Creek Ski area picked up 15 inches of snow.						
COZ067-070-072	Teller County/Rampart Range/Pikes Peak - Wet Mountains - Northern El Paso County/Monument Ridge						
	29	1400MST			0 0		Heavy Snow
	30	0200MST					
<u>COLORADO, West</u>							
COZ004	Elkhead And Park Mountains						
	03	1245MST 2330MST			0 0		Winter Storm
	Over a foot of snow fell across the Elkhead and Park Mountains as a weak upper level disturbance moved southeast through the area. The heaviest snowfall was near Rabbit Ears Pass where 14 to 18 inches of new snow was reported. In addition to the heavy snowfall, wind gusts to 40 mph resulted in considerable blowing and drifting snow.						
COZ009>010-017-019	Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Uncompahgre Plateau And Dallas Divide - Southwestern San Juan Mountains						
	10	1130MST			0 0		Heavy Snow
	11	1500MST					
	A strong low pressure system over northern Arizona brought moist, southerly flow to much of western Colorado. This resulted in heavy snowfall over portions of the southwest and west-central Colorado mountains. Over a foot of snow fell in many areas. Some of the higher amounts reported from the storm include 16 inches at the Powderhorn Ski Area, 13 inches on the Grand Mesa and 13 inches near Lemon Reservoir.						
Delta County							
2 SE Delta to	12	1100MST			0 0	2K	Urban/Sml Stream Fld
1 SE Delta	13	1700MST					
	A hydraulic valve broke on a headgate in the dam at Sweitzer Lake State Park, causing minor flooding at a residence and some erosion along a railroad track.						

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>COLORADO, West</u>							
COZ006			Grand Valley				
	14	1444MST 1445MST			0 0	10K	High Wind (G52) ^M
	Strong winds ahead of a cold front ripped shingles off of rooftops and damaged metal sheds in Grand Junction. In Fruita, the winds knocked over a privacy fence which was 24 feet in length.						
COZ002			Central Yampa River Basin				
	14	1450MST 1452MST			0 0		High Wind (G53) ^M
	Winds ahead of a cold front gusted to 61 mph in the vicinity of Meeker.						
COZ021			Four Corners / Upper Dolores River Basin				
	14	1455MST 1457MST			0 0	10K	High Wind (G50)
	Strong winds ahead of a cold front toppled a few trees and tore shingles off rooftops in the vicinity of Cortez. One tree fell into a house.						
COZ023			San Juan River Basin				
	14	1500MST 1502MST			0 0		High Wind (G62) ^M
	Strong winds ahead of a cold front were reported in the Pagosa Springs area. Gusts to 71 mph occurred at a residence 3 miles west of Pagosa Springs.						
COZ023			San Juan River Basin				
	16	1830MST			0 0		Heavy Snow
	17	0730MST					
	A slow moving Pacific low pressure system dropped 6 to 8 inches of snow in the vicinity of Pagosa Springs.						
COZ004			Elkhead And Park Mountains				
	18	1330MST 1331MST			1 0		Avalanche
	A backcountry skier was caught and buried in an avalanche on the northeast slope of Farwell Mountain, at the 10,840 foot level. The avalanche location is about 23 miles north of Steamboat Springs. M34OU						
<u>CONNECTICUT, Northeast</u>							
CTZ002>004			Hartford - Tolland - Windham				
	05	1300EST			0 0	5M	Heavy Snow
	06	2300EST					
	A major winter storm impacted northern Connecticut with heavy snow and strong winds. The slow-moving storm, which tracked south of New England, dumped 10 to 20 inches of snow across Hartford, Tolland, and Windham counties and knocked out power to tens of thousands of customers. Schools and businesses were shut down for three days in some communities.						
	Officially, Bradley International Airport in Windsor Locks reported a storm total of 9.9 inches. Other reports from Hartford County include 15 inches in Farmington, 14 inches in East Windsor, Burlington, and Wethersfield, 13 inches in Glastonbury, and 12 inches in Manchester. In Tolland County, 16 inches of snow fell in Stafford, 15 inches in Tolland, 14 inches in Vernon, and 11 inches in Mansfield. In Windham County, East Killingly reported 15 inches, Andover 13 inches, and Putnam, Willimantic, and Pomfret all had 12 inches of snow.						
CTZ002>004			Hartford - Tolland - Windham				
	09	1500EST			0 0	2M	Heavy Snow
	10	0800EST					
	A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of northern Connecticut. The highest snowfall totals were found in the higher elevations of Hartford County, where around one foot of snow fell. Other areas received between 5 and 10 inches of snow.						
Hartford County							
Southington	22	0430EST			0 0		Flood
	23	0600EST					
	Quinnipiac River at Southington The combination of melting snow and heavy rain brought the Quinnipiac River into flood. It crested at 4.6 feet at 3 pm on the 22nd (flood stage is 3.5 feet). Several roadways near the river were closed by flood waters, but no damage was reported.						
Hartford County							
Southington	30	1400EST			0 0		Flood
	31	1100EST					
	Quinnipiac River Renewed flooding occurred on the Quinnipiac River. Flows remained well above normal after the previous week's flooding, and a storm system brought 2 to 3 inches of rain to Hartford County. The river crested at 4.4 feet at 10 pm on the 20th (flood stage is 3.5 feet). There were no reports of flood damage.						

Storm Data and Unusual Weather Phenomena

March 2001

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

CTZ001

Litchfield

05	1300EST						
06	1500EST			0	0		Winter Storm

A large storm center formed off the mid Atlantic coast on the morning of March 5. The low proceeded slowly to the north, off the DelMarVa peninsula, then the coast of New Jersey, reaching just south of central Long Island by late in the day. Then, during the overnight hours, a strong upper level disturbance, diving south from the eastern Great Lakes, added energy to the storm and forced it to temporarily track to the west and nearly stall near New York city. The cyclone then pulled southeast away from Long Island later on March 6. This storm, the biggest nor'easter of the winter season, produced an extended period of moderate to heavy snow, starting early Monday morning and not ending until Tuesday evening. Some sleet and freezing rain mixed in during the day Monday but this was primarily a snow maker. A general 12 to 18 inches of snow fell across Litchfield County. Specific snowfall amounts included 14.5 inches at Bakersville, 12 inches at Thomaston Lake and 18 inches at Falls Village. Many schools and businesses were closed across Northwest Connecticut. The governor declared a ban on all commercial truck travel from 5AM Monday the 5th, until noon the following Tuesday. Also, for the first time since 1978, the U.S. Postal Service was closed throughout the state.

CTZ001

Litchfield

09	1700EST						
10	2200EST			0	0		Winter Storm

Just as northwest Connecticut had recovered from the big snowstorm, another nor'easter moved up the coast, forming off the New Jersey coast early on March 9th, and reaching Cape Cod shortly after midnight. This storm was not nearly as powerful as its predecessor, nor did it include as much moisture. Snowfall amounts were somewhat elevation dependent and the snow had a high moisture content. Accumulations ranged from about 4 to 8 inches in Litchfield County. Bakersville received the most in the county, with a storm total of 8.8 inches.

CONNECTICUT, Southern

CTZ005>011

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

05	2030EST						
06	0000EST			0	0		Winter Storm

A complex and slow-moving coastal storm affected much of southern Connecticut from Sunday March 4th through midday Wednesday March 7th. This storm was accompanied by a mixture of snow, sleet, freezing rain and rain through the early portion of the event, and mainly heavy snow for the remainder of the event. Gusty winds and minor to moderate coastal flooding and beach erosion also occurred along portions of coastal Connecticut.

On Sunday March 4th, a strong low pressure system moved east across the Tennessee Valley, while a new low slowly developed off the Mid Atlantic coast. The precipitation shield accompanying this complex storm system moved north and reached southern Connecticut in the form of spotty light snow and sleet by Sunday afternoon. The precipitation intensified Sunday night and early Monday, but as warmer air moved into the region aloft, the snow changed to a mixture of sleet, freezing rain and rain by Monday morning.

During Monday March 5th, the new low pressure system off the Mid Atlantic coast began to intensify rapidly. This spread heavy precipitation across southern Connecticut from the southeast by Monday afternoon and evening. As colder air was drawn into the storm's circulation, the precipitation changed to heavy wet snow by Monday evening. Snow fell at the rate of two to three inches per hour for around 3 hours during Monday evening across most of southern Connecticut.

Bands of very heavy wet snow continued through Monday night and into much of Tuesday, as the low slowly drifted north off the eastern end of Long Island. This coastal low then became nearly stationary during Tuesday, and even retrograded slightly to the southwest during Tuesday afternoon. This allowed periods of heavy wet snow to continue across most of southern Connecticut through Tuesday evening. The storm finally began to retreat east off the New Jersey coast Tuesday night and Wednesday, allowing the snow to taper off and end by midday Wednesday March 7th.

The combination of very heavy wet snow and strong winds with this prolonged coastal storm produced numerous power outages across southern Connecticut. In addition, many schools and businesses were closed for several days due to the hazardous nature of this storm.

Here are some storm total snowfall amounts:

For Fairfield County: 4 inches at Stamford, to 16.8 inches at Danbury.

For New Haven County: 9 inches at West Haven, to 17 inches at Prospect.

For Middlesex County: 14 inches at Old Saybrook and 14.3 inches at Haddam.

For New London County: 5.5 inches at Groton, to 16.8 inches at Colchester.

CTZ005>006

Northern Fairfield - Northern New Haven

09	1530EST						
	1600EST			0	0		Heavy Snow

Storm Data and Unusual Weather Phenomena

March 2001

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

On Friday March 9th, a developing low pressure system moved across southeast Canada. A cold front trailing from this low moved east across southern New England during the morning. This front, combined with low level moisture transported by easterly winds off the nearby Atlantic Ocean, produced a band of wet snow across portions of southern Connecticut. This front moved off the New England coast by Friday afternoon, allowing the snow to taper off and end by Friday evening.

Heavy wet snow occurred mainly across the area's higher terrain. Here are a few snowfall measurements:

In Northern Fairfield County, 8.8 inches was measured at New Fairfield.

In Northern New Haven County, 7.0 inches was measured at Prospect.

New Haven County

Milford	22	0100EST		0	0		Flood
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Fairfield County

Bridgeport	22	0300EST		0	0		Urban/Sml Stream Fld
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CTZ008-012

Northern New London - Southern New London

	22	0600EST 1930EST		0	0		Flood
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New London County

Montville	22	0800EST		0	0		Flood
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Middlesex County

West Brook	22	0830EST		0	0		Flood
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New Haven County

Hamden	22	0830EST		0	0		Flood
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A strong and slow-moving coastal storm produced widespread heavy rain and strong gusty winds throughout much of southern Connecticut from Wednesday March 21st through Thursday March 22nd. Heavy rain, combined with rapid snowmelt from a deep pre-existing snowpack, produced significant rises on many small rivers and streams across southern Connecticut. This triggered flash flooding of several areas adjacent to these rivers and streams, with water inundating homes and roadways. The Yantic River rose above its' flood stage of 9.0 feet at Norwich and crested at 10 feet from 10 am to 11 am EST. The river was above flood stage from 6 am until 7:30 pm EST during March 22nd. Urban flooding also was rather significant with this storm. On average, between two and three inches of rain occurred with this storm.

In addition to the heavy rain, strong gusty winds buffeted much of southern Connecticut during this storm. Wind gusts up to 40 mph, combined with nearly saturated ground conditions, led to fallen trees and power lines, with subsequent power outages scattered throughout southern Connecticut. These strong winds also created localized coastal flooding and beach erosion across coastal sections of Connecticut.

Here are some storm total rainfall amounts:

For Fairfield County: 2.12 inches at Danbury, and 2.16 inches at Bridgeport.

For New Haven County: 2.52 inches at Madison, to 3.04 inches at New Haven.

For New London County: 1.76 inches at North Stonington, to 2.42 inches at Groton.

Fairfield County

Countywide	30	1100EST		0	0		Urban/Sml Stream Fld
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Middlesex County

Countywide	30	1100EST		0	0		Urban/Sml Stream Fld
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New Haven County

Countywide	30	1130EST		0	0		Urban/Sml Stream Fld
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New London County

Countywide	30	1145EST		0	0		Urban/Sml Stream Fld
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CTZ008-012

Northern New London - Southern New London

	30	1830EST		0	0		Flood
	31	2000EST					

A low pressure system moved northeast along the mid Atlantic coast and produced widespread heavy rain across southern Connecticut during Friday March 30th. The low developed over the southeast states Thursday afternoon, and moved northeast to a position near Washington D.C. by early Friday morning. The low then continued moving northeast, passing across eastern Long Island early Friday afternoon, and off the New England coast by late Friday night. Strong "overrunning" of warm, moist air over a pre-existing colder airmass,

Storm Data and Unusual Weather Phenomena

March 2001

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

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

26	0300EST				0	0	Snow
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A vigorous upper air disturbance produced snow showers across Delaware during the morning of the 26th. Accumulations averaged between 1 and 3 inches. Secondary and tertiary roadways were slippery, mainly before sunrise. Specific accumulations included 2.3 inches in Greenwood (Sussex County), 1.7 inches in Bear (New Castle County), 1 inch in Milford (Kent County) and 0.7 inches at the New Castle County Airport. This was the last widespread measurable snow of the season for Delaware.

New Castle County

Summit Bridge to Walker

29	1400EST				0	0	Heavy Rain
30	0900EST						

New Castle County

North Portion

30	0230EST				0	0	Flood
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Heavy rain fell on the 29th and 30th across the northern half of Delaware and caused flooding along the Christina River. Light rain began falling during the afternoon of the 29th and fell heavy at times during the second half of the evening on the 29th and into the morning of the 30th. The rain ended by mid morning on the 30th. There was urban and poor drainage flooding. Storm totals averaged around 2.0 inches. Storm totals farther south in the state were between 0.75 and 1.5 inches.

The Christina River at Coochs Bridge was above its 9 foot flood stage from 230 a.m. EST through Noon EST on the 30th. It crested at 11.02 feet at 550 a.m. EST. No serious injuries were reported. Specific storm totals included 2.13 inches at the New Castle County Airport, 1.90 inches in Newark (New Castle County), 1.87 inches in Bear (New Castle County), 1.22 inches in Dover (Kent County) and 0.96 inches in Georgetown (Sussex County). A low pressure system developed over the Gulf of Mexico the night of the 28th. By the morning of the 29th, it moved northeast into the Florida Panhandle and by the morning of the 30th, it reached the Delmarva Peninsula. The low moved offshore that morning and by the morning of the 31st was located near Nova Scotia.

DISTRICT OF COLUMBIA

DCZ001

District Of Columbia

06	0900EST				0	0	Strong Wind
07	0400EST						

Strong low pressure over New England brought gusty northwest winds between 35 and 50 MPH to the Mid Atlantic region from the morning of the 6th through the early morning hours of the 7th. A wind gust of 44 MPH was recorded at Washington Reagan National Airport.

District Of Columbia

Countywide

13	2155EST				0	0	5K	Thunderstorm Wind
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Nine trees were downed.

District Of Columbia

Northwest Portion

13	2157EST				0	0	Thunderstorm Wind (G54)^M
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A wind gust of 62 MPH was recorded on the top of a building at the intersection of Florida and Connecticut Avenues. A line of showers and a few thunderstorms moved across the Washington D.C. metropolitan area around 10 PM on the 13th. These storms produced winds in excess of 55 MPH across the District. An anemometer on the roof of a building on the corner of Florida and Connecticut Avenue recorded a wind gust of 62 MPH. Winds gusted to 48 MPH at Washington Reagan National Airport. At the intersection of Wisconsin Avenue and Porter Street NW, winds toppled a portable toilet. Across the city, nine trees were downed.

DCZ001

District Of Columbia

21	0700EST				0	3	40K	Strong Wind
	1600EST							

Two cars were crushed by fallen trees and 3 people were injured.

A Nor'easter moved from the North Carolina coast to New England from the 20th to the 22nd. As it passed by the Mid Atlantic region, it dropped 1.5 inches of rain between midnight and mid afternoon on the 21st. After the precipitation ended, northwest winds gusted up to 45 MPH. A wind gust of 44 MPH was recorded at Washington Reagan National Airport and a gust of 42 MPH was reported downtown. The high winds downed several trees. One tree fell onto a passing car on Blagden Avenue NW, damaging the car extensively and giving the driver a bump on the head. Another tree fell onto a truck on Massachusetts Avenue, causing major damage to the front of the vehicle. The driver and passenger sustained neck injuries. Another car on Massachusetts Avenue ran into the downed tree head-on but the three occupants were not injured. Two houses on Brandywine Street NW were damaged by felled trees and power lines were downed.

District Of Columbia

Countywide

29	1000EST				0	0	Heavy Rain
30	1000EST						

Low pressure brought a period of heavy rainfall to the Mid Atlantic region between the morning of the 29th and the morning of the 30th. Rainfall totals included 1.61 inches at the National Arboretum and 1.49 inches at Washington Reagan National Airport.

FLORIDA, East Central

Volusia County

Pierson

13	1010EST				0	0	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

March 2001

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

Volusia County

Daytona Beach	13	1050EST 1100EST	2.5	300	0	5	5M	Tornado (F1)
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An F1 tornado and strong downburst winds touched down in the heart of Daytona Beach just west of the Halifax River Lagoon. At least 100 homes and dozens of vehicles were damaged, many due to fallen trees. Boats on trailers were overturned and the roof of a furniture store was destroyed. An airplane was overturned at Daytona Beach Airport. Five people were injured, three were taken to an emergency room. Damage estimates were near \$5 million.

Volusia County

Daytona Beach	13	1055EST			0	1	30K	Thunderstorm Wind (G60)
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Strong microburst winds hit the barrier island in Daytona Beach destroying a large tent and a beach tollbooth. One person was injured.

Lake County

Clermont	29	1055EST			0	0		Hail (1.00)
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Orange County

Zellwood	29	1130EST			0	0		Hail (1.00)
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Seminole County

2 W Sanlando Spgs	29	1210EST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees in the Lake Brantley area 2 miles west of Sanlando Springs.

Orange County

Windermere	29	1215EST			0	0		Hail (1.00)
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Volusia County

Oak Hill	29	1226EST			0	0		Hail (1.00)
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Osceola County

St Cloud	29	1235EST			0	0		Hail (0.75)
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Brevard County

Cocoa	29	1310EST			0	0		Hail (0.75)
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Osceola County

2 S Holopaw	29	1312EST			0	0		Hail (1.75)
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Brevard County

Rockledge	29	1335EST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds blew down a few trees in Rockledge.

Okeechobee County

Ft Drum	29	1431EST			0	0		Hail (1.00)
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Indian River County

Sebastian	29	1455EST			0	0		Hail (1.00)
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St. Lucie County

Port St Lucie	29	1637EST			0	0		Hail (1.00)
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Martin County

Stuart	29	1755EST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds blew down power lines in the Stuart area.

Orange County

Apopka	31	1111EST			0	1		Lightning
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asdfasd

Seminole County

Winter Spgs	31	1435EST			0	0		Hail (1.00)
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Osceola County

Holopaw	31	1525EST			0	0		Hail (0.75)
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Brevard County

Cocoa	31	1550EST			0	0		Hail (1.50)
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Lake County

Cassia	31	1600EST			0	0		Hail (0.75)
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Volusia County

De Land	31	1611EST			0	0		Hail (1.00)
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Volusia County

De Land	31	1615EST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds blew down trees and damaged carports in De Land.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>FLORIDA, Extreme Southern</u>							
Monroe County							
Marathon	02	0802EST			0 0		Waterspout
Waterspout observed 1 miles south of 7 mile bridge.							
<u>FLORIDA, Northeastern</u>							
Putnam County							
Palatka	03	0900EST			0 1		Lightning
Putnam County							
Palatka	03	0900EST			0 0		Tstm Wind/Hail
A few trees were blown down along US-17.							
Alachua County							
Gainesville	04	0700EST			0 0	3K	Tstm Wind/Hail
Trees damaged.							
Marion County							
1 S Martel to 1.5 N Martel	04	0720EST 0731EST	2.5	20	0 0	80K	Tornado (F0)
Sixty-one homes were damaged, 44 were manufactured. Fourteen homes were heavily damaged.							
Marion County							
5 NE Ocala to 5.5 NE Ocala	04	0750EST	0.5	50	0 0	150K	Tornado (F0)
Tornado was a weak FO, with some evidence of downburst. Damage was near Northeast 38th Street. Two homes with substantial roof damage, and 19 others with damage.							
Marion County							
10 E Ocala	04	0831EST 0835EST			0 0	80K	Thunderstorm Wind
A strong downburst damaged 19 mobile homes. Large trees were uprooted.							
Hamilton County							
12 SSW Jasper to 10.5 SW Jasper	13	0200EST 0217EST	3.5	30	0 0	80K	Tornado (F2)
One mobile home and one church were destroyed. Two vehicles damaged. Tornado ranged from F0-F2 and skipped along the path. Numerous trees and power lines were blown down.							
Nassau County							
Callahan	13	0330EST			0 0	1.5K	Thunderstorm Wind
Large trees were blown down.							
Nassau County							
5 E Yulee to 5.1 E Yulee	13	0340EST 0342EST	0.1	75	0 0	10K	Tornado (F0)
Brief touchdown. several large trees downed. Roof damage to private home and church, both structures of wood frame construction. Portable shed and wood frame garage damaged.							
Putnam County							
Crescent City	13	0900EST			0 1		Lightning
Putnam County							
5 S Palatka	13	0900EST			0 0	1.5K	Thunderstorm Wind
Large trees and power lines were blown down near Espranza Shores.							
Marion County							
Silver Spgs	13	0930EST			0 0		Hail (0.75)
Suwannee County							
Live Oak	15	1510EST			0 0		Hail (0.75)
Duval County							
Arlington	15	1616EST			0 0	2K	Thunderstorm Wind
Large trees were blown down.							
Duval County							
Jacksonville	15	1645EST			0 0	2.4K	Thunderstorm Wind
Large trees were blown down.							
Bradford County							
5 N Starke	15	1659EST			0 0	5K	Thunderstorm Wind
Large trees were blown down.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>FLORIDA, Northeastern</u>							
Alachua County							
Alachua	15	1710EST			0 0		Hail (0.75)
Alachua County							
Alachua	15	2047EST			0 0		Hail (0.75)
Duval County							
Jacksonville	20	0400EST			0 0	10K	Thunderstorm Wind
Large trees and power lines were blown down. Around 10,000 customers were without power.							
Clay County							
Orange Park	20	1206EST			0 0	6K	Tstm Wind/Hail
A tree was blown down on a home.							
Alachua County							
Gainesville	25	1224EST			0 0	3.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Union County							
Lake Butler	25	1300EST			0 0	2K	Thunderstorm Wind
Large trees and power lines were blown down.							
Bradford County							
Starke	25	1305EST			0 0	0.50K	Thunderstorm Wind
Large trees and power lines were blown down.							
Gilchrist County							
Trenton	29	0940EST			0 0	30K	Thunderstorm Wind
Large trees and power lines were blown down. A barn was blown down.							
Alachua County							
Gainesville	29	1000EST			0 0	0.50K	Tstm Wind/Hail
Minor damage to greenhouse at high school.							
Suwannee County							
5 S Live Oak	29	1000EST			0 0	10K	Thunderstorm Wind
Large trees and power lines were blown down. One barn lost roof, one van crushed, one mobile home damaged.							
Marion County							
Fellowship	29	1000EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Columbia County							
Lake City	29	1015EST			0 0	10K	Tstm Wind/Hail
Trees down on roadway. Tree down on car.							
Union County							
Providence	29	1015EST			0 0	15K	Thunderstorm Wind
Large trees and power lines were blown down. Two mobile homes damaged. More than one half of the county was without power.							
Marion County							
20 SW Ocala to 3.5 SSE Ocala	29	1020EST	22	100	0 0	1.5M	Tornado (F2)
More than 85 homes were damaged in three neighborhoods, knocking power out to 10,000 thousand of residents.							
Baker County							
Sanderson	29	1020EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Clay County							
Keystone Hgts	29	1030EST 1035EST			0 0	25K	Thunderstorm Wind
Large trees and power lines were blown down. Several home with roof damage.							
Clay County							
10 SSW Green Cove Spg 2 NNE Green Cove Spgs	29	1050EST 1105EST	12	150	0 0	1.1M	Tornado (F2)
Tornado was mainly F0-F1. Large trees were uprooted and power lines were blown down. Two homes were destroyed, 4 with major damage, and 50 with minor damage. A total of 56 homes in the Highlands Avenue area were damaged.							
Columbia County							
Lake City	29	1030EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>FLORIDA, Northeastern</u>							
Bradford County							
2 SE Hampton	29	1030EST			0 0	20K	Thunderstorm Wind
Three homes damaged. Large trees and power lines were blown down.							
Marion County							
Ocala	29	1030EST			0 0	5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Alachua County							
Hawthorne	29	1035EST			0 0		Hail (0.75)
Putnam County							
Interlachen	29	1035EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Nassau County							
Hilliard	29	1040EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Columbia County							
5 S Lake City	29	1045EST			0 0	15K	Thunderstorm Wind
Large trees and power lines were blown down. One house damaged.							
St. Johns County							
Hastings	29	1105EST			0 0	3.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Flagler County							
Bunnell	29	1115EST			0 0	10K	Thunderstorm Wind
Large trees were blown down. One structure damaged.							
Flagler County							
8 N Bunnell	29	1115EST			0 0		Hail (0.75)
Flagler County							
5 N Bunnell	29	1125EST			0 0	15K	Thunderstorm Wind
Roof damage in Palm Coast. 20,000 electric customers without service.							
Duval County							
Jacksonville	29	1115EST			0 0	10K	Thunderstorm Wind
Mobile home damaged on Ricker Road. Large trees and power lines were blown down.							
St. Johns County							
St Augustine	29	1115EST			0 0		Hail (1.00)
Putnam County							
Putnam Hall to .1 NE Putnam Hall	29	1117EST	0.1	10	0 0	0	Tornado (F0)
Weak FO. No significant damage							
Duval County							
Jacksonville	29	1130EST			0 0		Hail (0.75)
Flagler County							
10 N Bunnell	29	1138EST			0 0		Hail (0.75)
Duval County							
Jacksonville Beach	29	1140EST			0 0	3K	Thunderstorm Wind
Large trees were blown down.							
Flagler County							
Codys Corner	30	1645EST			0 0		Hail (0.75)
<u>FLORIDA, Northwest</u>							
Jackson County							
Marianna Muni Arpt	03	2121EST			0 0		Thunderstorm Wind (G51) ^M
ASOS measured a peak wind gust of 59 mph.							
Walton County							
Northwest Portion	12	0455EST			0 0		Hail (1.00)
Dime to quarter size hail. Reported by the Florida Emergency Operations Center.							
Walton County							
6 NE Santa Rosa Beach	12	1628EST			0 0		Waterspout
Several sightings of a waterspout near the U.S. Highway 331 bridge over the Choctawhatchee Bay. Reported by the Walton County EMA.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
FLORIDA, Northwest							
Bay County							
7 N Vicksburg	12	1720EST			0 0		Hail (0.75)
Dime size hail reported by a WJHG-TV meteorologist.							
Bay County							
Panama City Beach	12	1721EST			0 0	50K	Thunderstorm Wind
A portion of the roof covering four rooms at the Majestic Motel and Resort was torn off. Some small sheds on the beach were destroyed and a few cars were damaged. Reported by the Bay County EMA.							
Calhoun County							
Northwest Portion	12	1800EST			0 0		Funnel Cloud
A funnel cloud reported by a SKYWARN storm spotter.							
Leon County							
Tallahassee	12	2000EST			0 0	10K	Lightning
Lightning struck a home in the 1900 block of Nelson Circle. Reported by the Tallahassee Democrat.							
Leon County							
Tallahassee	12	2230EST			0 0	75K	Lightning
Lightning struck a pine tree. The bolt shot down the tree and jumped to the house. Much of the house was damaged, as well as a camper trailer parked nearby. Reported by the Tallahassee Democrat.							
Washington County							
3 SE Wausau to 6 E Wausau	15	0430EST 0440EST	7	350	1 21	1.5M	Tornado (F2)
An F2 tornado touched down in the Sunny Hills subdivision near Gin Lake in southeast Washington County, and raced northeast into southwest Jackson County. The tornado struck the Country Oaks, Buckhorn Creek, and Highview Acres communities. The hardest hit area was Highview Acres where 20 homes were damaged or destroyed. One man was killed when his mobile home was destroyed. 21 people were injured. Hundreds of trees were uprooted and debris scattered over several miles along the tornado's path. Numerous downed power lines affected 4,500 customers. Reported by the Washington County EMA. M59MH							
Washington County							
Vernon	15	0440EST			0 0		Hail (1.00)
Quarter size hail reported by WJHG-7 TV in Panama City.							
Jackson County							
Alford	15	0445EST			0 0		Hail (1.25)
Half dollar size hail reported by WJHG-7 TV in Panama City.							
Jackson County							
2 SW Round Lake to 3 NE Round Lake	15	0440EST 0445EST	3	300	0 0	500K	Tornado (F2)
The F2 tornado that touched down near Wausau in southeast Washington County, raced northeast across the Washington-Jackson County line and hit the Round Lake community just south of Alford before it dissipated. Fifteen homes were severely damaged and two homes were destroyed. A gift shop on U.S. Highway 231 was destroyed. There were numerous downed trees and power lines. Reported by the Jackson County EMA.							
Calhoun County							
.5 S Kinard to 2.5 E Kinard	15	0630EST 0652EST	2	150	0 0	50K	Tornado (F2)
An F2 tornado touched down just south of Kinard on the west side of SW J.A. Daniels Road. It damaged two sheds and two barns. It tracked northeast and crossed State Road 73, two-tenths of a mile south of Mark Barbee Lane, and uprooted numerous trees. From Mark Barbee Lane, the tornado continued its northeast track and severely damaged two vacant structures on SW Clayton Shiver Road, and then dissipated. Damage surveyed by the NWS Tallahassee WCM and reported by the Calhoun County EMA.							
Gadsden County							
Northeast Portion	15	0745EST			0 0	10K	Thunderstorm Wind
Trees and power lines down. Reported by the Gadsden County EMA.							
Dixie County							
Northwest Portion	15	1500EST 1505EST			0 0	25K	Thunderstorm Wind
A mobile home off Governor Hill Road was damaged when winds torn off its roof and walls. Reported by the Dixie County Advocate.							
Gulf County							
Port St Joe	20	0155EST			0 0		Thunderstorm Wind (G65) ^M
Recorded a peak wind gust of 75 mph at the county waste water treatment plant. Reported by the Gulf County EMA.							
Leon County							
Countywide	20	0315EST 0330EST			0 0	20K	Thunderstorm Wind
Several trees down on power lines at Blue Smoke Drive and Bannerman Road. Power lines down with outages at E. Tennessee Street and							

Storm Data and Unusual Weather Phenomena

March 2001

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

Franklin Boulevard. Trees and power lines down on Chapel Drive. Reported by a WTXL-TV meteorologist.

Dixie County

Countywide	29	0925EST 0940EST			0 0	275K	Thunderstorm Wind
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Thunderstorm winds lifted a roof off a shopping center at State Road 55 and County Road 349 in Old Town. Trees and power lines down with scattered power outages and debris littered over numerous county roads near Jena, Cross City and Horseshoe Beach. Hardest hit was Munden Camp in Suwannee where large trees were uprooted and tossed against buildings. One home was destroyed, two homes sustained major damage, and 10 homes and a business received minor damage. Reported by the Dixie County EMA.

FLORIDA, Southern

Broward County

Pompano Beach	19	1340EST			0 0		Hail (0.75)
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A SKYWARN spotter reported dime-size hail.

Palm Beach County

West Palm Beach	19	1411EST			0 0		Funnel Cloud
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A SKYWARN spotter sighted a funnel cloud forming near Climatis and Quadrille Roads.

Broward County

Coral Spgs	19	1430EST			0 0		Hail (0.75)
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A SKYWARN spotter reported dime-size hail.

Broward County

Davie	19	1620EST			0 0		Funnel Cloud
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Broward County

Davie	19	1620EST			0 0		Thunderstorm Wind (G60)
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Severe thunderstorm wind gusts near 70 mph blew down large tree limbs and uprooted trees. A person videotaped a funnel cloud.

Broward County

Plantation	19	1630EST			0 1		Lightning
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An unknown person was struck and injured by lightning.

Broward County

Oakland Park	19	1645EST			0 0		Hail (0.80)
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Nickel-size hail was observed.

Broward County

Davie	19	1730EST			0 0	5K	Thunderstorm Wind (G60)
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Trees and power lines were blown down.

Palm Beach County

8 N Canal Pt	29	1630EST			0 0		Funnel Cloud
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A SKYWARN spotter sighted a funnel cloud over Lake Okeechobee.

Dade County

Kendall	29	2105EST			0 0		Hail (1.75)
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Hail the size of nickels, quarters and golf balls were reported in several locations.

Dade County

1 W Miami Beach	29	2355EST			0 0		Waterspout
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A boater reported a waterspout over Biscayne Bay near the 79th Street Causeway.

Palm Beach County

20 NW West Palm Beach	31	2350EST			0 0		Hail (0.75)
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A spotter reported dime-size hail between Indiantown and West Palm Beach.

FLORIDA, West Central

Citrus County

Lecanto to Inverness	04	0738EST 0752EST			0 0	5K 0	Thunderstorm Wind
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Law enforcement officials in Citrus county reported that thunderstorm winds downed several trees, large branches and power lines from Lecanto east to Inverness.

Pinellas County

Tarpon Spgs	04	0757EST			0 0	10K 0	Thunderstorm Wind
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Florida Power Company representatives reported that thunderstorm winds downed several large trees, branches and power lines in Tarpon Springs.

Pasco County

1 SSE Hudson to 4.6 ENE Hudson	04	0803EST 0810EST	4.7	50	0 0	250K 0	Tornado (F0)
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National Weather Service damage survey indicated that a high end F0 tornado, that averaged 35 yards in width, initially touched down and

Storm Data and Unusual Weather Phenomena

March 2001

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

uprooted two large pine trees which damaged the roof of a home on Willow Brook Court in a residential community of Hudson. The tornado continued on a tree-top level northeast trajectory where it caused additional sporadic tree and pool enclosure damage on Ashbury Drive.

The tornado then began a east-northeast trajectory and removed a poorly fastened aluminum roof from a mobile home on Bud Street. As the path direction became northeast, the next sporadic touchdown occurred at the Hudson High School where a portion of the gynasium roof was lifted, buckled and removed, while the nearby ballfield bleachers were flipped over by the tornado.

The tornado continued over rural semi-wooded western Pasco county where it snapped two pine trees along Coyote Road before it lifted and dissipated.

Pasco County

**Hudson to
3 NE Hudson**

04	0803EST				0	0	100K	0	Thunderstorm Wind
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National Weather Service damage survey indicated that thunderstorm winds caused a sporadic path of damage from downtown Hudson to three miles northeast of Hudson. The straight-line thunderstorm winds damaged vehicles, signs and building awnings at an automobile dealership on U.S. Highway 19 near Hudson Avenue in Hudson. Also, thunderstorm winds downed trees, branches and power lines on Kitten Trail, three miles northeast of Hudson.

Manatee County

**Bradenton Beach to
Ellenton**

04	1120EST				0	0	100K	0	Thunderstorm Wind
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Utility company representatives reported that thunderstorm winds downed numerous trees, branches and power lines from Bradenton Beach east across Bradenton to Ellenton.

Sarasota County

**Sarasota to
6 E Sarasota**

04	1126EST				0	0	150K	0	Thunderstorm Wind
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Utility company representatives reported that thunderstorm winds downed numerous large trees, branches and power lines from Sarasota east to the Interstate 75 corridor in Sarasota county.

Levy County

6 NW Chiefland

29	0925EST				0	0	5K	0	Thunderstorm Wind
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Levy County Emergency Management officials reported that thunderstorm winds damaged the wall of a mobile home on NW 170th Street in Fannin Springs.

Levy County

**6 W Chiefland to
Bronson**

29	0925EST				0	0	250K	0	Thunderstorm Wind
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Levy county emergency management officials reported that thunderstorm winds downed several large trees and branches, caused moderate to major roof damage to 13 mobile homes and minor damage to another 30, in the Hideaway Park mobile home complex along County Road 320 near Manatee Springs.

Thunderstorm winds also downed several trees, large branches and a few power lines in Bronson.

Citrus County

**4 N Crystal River to
1 E Citrus Spgs**

29	1005EST	10.3	100		0	0	200K	0	Tornado (F0)
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National Weather Service damage survey indicated that a high end F0 tornado, that averaged 50 yards in width, touched down and caused heavy roof damage to a mobile home along West Jennifer Court, east of County Road 495. The tornado continued northeast and sporadically touched down on North Fairport Avenue near West Dunklin Street where minor to moderate damage occurred to rooftops, sheds and lanais, including several downed pines trees and large branches. Also, the tornadic winds rolled over one mobile home along the 4500 block of North Fairport near West Dunklin Street.

The tornado continued northeast and caused sporadic damage to mainly roof tiles, shingles, lanais and trees in and along the Citrus Springs Country Club. The tornado downed a few additional trees and large branches near County Road 39 and North Perkins Path before it lifted and dissipated.

Hernando County

Spring Hill

29	1005EST				0	0	5K		Thunderstorm Wind
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Hernando county emergency management reported that thunderstorm winds downed a few large trees and several large limbs mainly along Laredo Avenue in Spring Hill.

Hernando County

**1 W Spring Hill to
2 E Spring Hill**

29	1005EST				0	0	60K	0	Thunderstorm Wind
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Ham radio operators reported that thunderstorm winds removed residential home roofing tiles, toppled sheds, damaged a commercial signs, downed a few trees and numerous large branches along and east of the U.S. Highway 19 corridor in Spring Hill.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
FLORIDA, West Central							
Citrus County							
2 SSW Hernando to 1 E Hernando	29	1010EST 1014EST	2.7	20	0 1	75K 0	Tornado (F0)
Citrus county emergency management reported that a F0 tornado initially touched down near East Bryant Street and North Croft Avenue, two miles south-southwest of Hernando, and sporadically touched down as it moved northeast across mixed residential neighborhoods near U.S. Highway 41. The tornado continued northeast, then lifted and dissipated near East Parson Point Road, one mile east of Hernando. The tornado caused mainly minor damage to roof tiles, awnings, sheds, lanais of homes and toppled a few trees along its narrow path. A woman was injured from shattered glass when wind blown debris broke her vehicle's windshield along North Croft Avenue.							
Pinellas County							
Tarpon Spgs to 1 N Palm Harbor	29	1010EST			0 0	0 0	Hail (0.75)
Dime sized hail was reported by Skywarn Spotters from one mile north of Palm Harbor to Tarpon Springs.							
Pasco County							
New Port Richey to 3 E New Port Richey	29	1012EST 1017EST			0 0	50K 0	Hail (1.75)
Skywarn Spotters reported golfball sized hail from U.S. Highway 19 to Little Road, three miles east of New Port Richey. The large hail damaged the tops and windshields of a few vehicles in New Port Richey.							
Pasco County							
New Port Richey	29	1020EST			0 0	10K 0	Thunderstorm Wind
A Skywarn Spotter reported that thunderstorm winds downed a few large trees and power lines on Sycamore Road in New Port Richey.							
Pasco County							
4 E Jasmine Estates to 6 E Jasmine Estates	29	1020EST 1023EST			0 0	25K 0	Thunderstorm Wind
Ham radio operators reported that thunderstorm winds downed several trees, branches and a few power lines in the Moon Lake Estates along County Road 587.							
Pasco County							
Land O Lakes	29	1030EST			0 0	25K 0	Thunderstorm Wind
An off-duty NWS meteorologist reported numerous downed trees, large branches and power lines by thunderstorm winds along U.S. Highway 41 in Land O' Lakes of central Pasco county.							
Sumter County							
7 SW Bushnell to Center Hill	29	1045EST			0 0	0 0	Hail (1.00)
Quarter sized hail was reported by Sumter county emergency management along County Road 476B in extreme southwest Sumter county.							
Pasco County							
4 SW Dade City to 2 SSW Dade City	29	1045EST 1057EST	2.3	15	0 0	150K 0	Tornado (F0)
The Pasco county emergency management reported that a tornado touched down three miles southwest of Dade City and caused minor to moderate roof and lanai damage to homes along Roberts Road between Smith Road and County Road 41. The tornado continued east-northeast and sporadically touched down leveling a few trees and sheds in it's path before it lifted and dissipated near County Road 34A, two miles southeast of Dade City.							
Pasco County							
2 W Zephyrhills to Zephyrhills	29	1053EST 1059EST			0 0	0 0	Hail (1.00)
Quarter sized hail was reported by a Skywarn Spotter in Zephyrhills over extreme southeast Pasco county.							
Pasco County							
Richland	29	1105EST			0 0	0 0	Hail (0.88)
Nickel sized hail was reported by Ham radio operators along U.S. Highway 98 near Richland.							
Sumter County							
5 SW Bushnell	29	1109EST			0 0	10K 0	Thunderstorm Wind
The Sumter county emergency management reported thunderstorm winds damaged a few sheds, downed a few trees and several large branches along U.S. Highway 301 in extreme southern Sumter county.							
Polk County							
2 N Lakeland	29	1115EST			0 0	0 0	Hail (1.00)
Quarter sized hail was reported by Polk county emergency management near the intersection of Interstate 4 and U.S. Highway 98, two miles north of Lakeland.							
Polk County							
4 W Lakeland to 1 N Bartow Muni Arpt	29	1129EST 1144EST			0 0	0 0	Hail (0.75)
Dime sized hail was reported by Ham radio operators near the intersection Interstate 75 and County Line Road southeast to near Bartow							

Storm Data and Unusual Weather Phenomena

March 2001

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

over extreme western Polk county.

Polk County

8 N Haines City **29** **1140EST** **0** **0** **0** **0** **Hail (1.75)**

Golfball sized hail was reported by Polk county emergency management at Baseball City near the intersection of Interstate 4 and U.S. Highway 27 over extreme northeast Polk county.

Sarasota County

3 W Sarasota **29** **1215EST** **0** **0** **0** **0** **Waterspout**

Law enforcement reported a family of three waterspouts one half mile west of Lido Key.

Charlotte County

Charlotte Harbor **29** **2130EST** **2** **0** **50K** **0** **Lightning**

A fire inspector for the State Fire Marshal's office determined that lightning lightning struck and ignited a fire at a group home on the 3400 block of Drance Street in Charlotte Harbor. The lightning ignited fire killed two developmentally disabled men residing at the group home. M42PH, M37PH

Highlands County

1 E Sebring **30** **0411EST** **0** **0** **0** **0** **Hail (0.88)**

Nickel sized hail was reported by a Skywarn Spotter one mile east of Sebring.

Hillsborough County

6 NE Thonotosassa **31** **1400EST** **0** **0** **0** **0** **Hail (0.75)**

Dime sized hail was reported by a park ranger at the Hillsborough River State Park along U.S. Highway 301.

Pinellas County

Largo **31** **1405EST**
1408EST **0** **0** **0** **0** **Hail (1.75)**

Golfball to dime sized hail was reported by Skywarn Spotters in Largo.

Polk County

Polk City **31** **1438EST**
1450EST **0** **0** **0** **0** **Hail (1.75)**

Golfball to dime sized hail was reported by Skywarn Spotters from Haines City to Polk City in northern Polk county.

Hillsborough County

Seffner to Plant City **31** **1458EST**
1505EST **0** **0** **0** **0** **Hail (1.50)**

Ping pong ball to dime sized hail was reported by Skywarn Spotters, the broadcast media and the public from Brandon northeast to Plant City.

Polk County

1 W Lakeland **31** **1519EST** **0** **0** **0** **0** **Hail (0.75)**

Dime sized hail was reported by a Skywarn Spotter one mile west of Lakeland.

Polk County

1 N Cypress Gardens to Winter Haven **31** **1603EST**
1604EST **0** **0** **0** **0** **Hail (0.88)**

Nickel to dime sized hail was reported by Skywarn Spotters and Ham Radio operators from Winter Haven to one mile north of Cypress Gardens.

Sarasota County

6 SE Sarasota **31** **1835EST** **0** **0** **0** **0** **Hail (0.88)**

Nickel sized hail was reported by a Skywarn Spotter near the intersection of Tuttle and Bee Ridge Roads in Sarasota.

FLORIDA, West Panhandle

Escambia County

North Portion **03** **1200CST**
1600CST **0** **0** **5K** **Flash Flood**

Santa Rosa County

North Portion **03** **1200CST**
1600CST **0** **0** **5K** **Flash Flood**

Heavy rains fell across the north parts of the area during the early afternoon. Several secondary streets were flooded and had to be closed for several hours. Most of the roads had been reopened by sunset. Radar estimated three to four inches of rain fell across the area.

Escambia County

Warrington **12** **0320CST** **0** **0** **25K** **Lightning**

Lightning struck a live oak tree and shattered it. The tree fell on a home and caused damage to the roof. Parts of the tree were blown about 100 yards away from the strike. No one was injured.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>FLORIDA, West Panhandle</u>							
Santa Rosa County							
Harold	12	0335CST 0340CST			0 0		Hail (1.75)
Okaloosa County							
Baker	12	0350CST 0355CST			0 0		Hail (1.00)
Escambia County							
Walnut Hill	12	1220CST 1223CST			0 0	15K	Thunderstorm Wind (G60)
Several trees and power lines were blown down by high thunderstorm winds just north of Walnut Hill.							
Santa Rosa County							
Jay	12	1240CST 1242CST			0 0	15K	Thunderstorm Wind (G60)
Several trees were blown down by high thunderstorm winds just north of Jay.							
Escambia County							
Molino	12	1310CST 1312CST			0 0	15K	Thunderstorm Wind (G55)
Trees and power lines were blown down by high thunderstorm winds near Molino.							
Okaloosa County							
Blackman	12	1320CST 1322CST			0 0	15K	Thunderstorm Wind (G55)
Several trees and power lines were blown down by high thunderstorm winds just west of Blackman.							
Okaloosa County							
Laurel Hill	12	1415CST 1417CST			0 0	10K	Thunderstorm Wind (G55)
Trees and power lines were blown down by high thunderstorm winds just southeast of Laurel Hill.							
Okaloosa County							
Destin	12	1510CST 1515CST			0 0		Waterspout
Several people reported a waterspout over Choctawhatchee Bay near the Mid Bay Bridge. The waterspout lasted for several minutes and eventually dissipated over the bay.							
Santa Rosa County							
Milton	15	0042CST 0048CST			0 0	35K	Thunderstorm Wind (G50) ^M
High winds from a thunderstorm blew several trees and power lines down near Milton. A roof was blown off a manufactured home in the area. Wind gusts of 58 mph were reported on Whiting Field at an observation site.							
Okaloosa County							
Crestview	15	0115CST 0117CST			0 0	15K	Thunderstorm Wind (G55)
High winds from a thunderstorm damaged the roof on a home near Crestview. No injuries were reported.							
<u>GEORGIA, East Central</u>							
Columbia County							
Countywide	20	1045EST 1105EST			0 0	0	Thunderstorm Wind (G50)
EM reported scattered trees and powerlines down throughout county.							
<u>GEORGIA, Lower</u>							
Camden County							
Kingsland	13	0327EST			0 0	2.5K	Thunderstorm Wind
Large trees were blown down.							
Charlton County							
6 W Folkston	13	0500EST			0 0	2.5K	Thunderstorm Wind
Large trees were blown down.							
Charlton County							
5 W Folkston	13	0500EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							
Clinch County							
15 S Homerville	13	0520EST			0 0	2.5K	Thunderstorm Wind
Large trees and power lines were blown down.							

Storm Data and Unusual Weather Phenomena

March 2001

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

Camden County

Kingsland **15** **1436EST** **0** **0** **2.5K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

Glynn County

Brunswick **15** **1450EST** **0** **0** **3.5K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

Clinch County

Fargo **15** **1600EST** **0** **0** **1K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

Charlton County

Folkston **15** **1610EST** **0** **0** **0.50K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

Ware County

Waycross **15** **1612EST** **0** **0** **2.5K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

Camden County

Kingsland **16** **0650EST** **0** **0** **3.5K** **Thunderstorm Wind**
 Large trees and power lines were blown down.

GEORGIA, North and Central

GAZ001>009-011>016-019>025-027-030>039-041>062-066>076-078>086-089>098-102>113 **Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Wilkes - Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - Taliaferro - Heard - Coweta - Fayette - Clayton - Spalding - Henry - Butts - Jasper - Putnam - Hancock - Warren - Troup - Meriwether - Pike - Upson - Lamar - Monroe - Jones - Baldwin - Washington - Glascock - Jefferson - Harris - Talbot - Taylor - Crawford - Bibb - Twiggs - Wilkinson - Johnson - Emanuel - Muscogee - Chattahoochee - Marion - Schley - Macon - Peach - Houston - Bleckley - Laurens - Treutlen - Stewart - Webster - Sumter - Dooly - Crisp - Pulaski - Wilcox - Dodge - Telfair - Wheeler - Montgomery - Toombs**

01 **0000EST** **0** **0** **Extremely Wet**
31 **2359EST**

March 2001 was one of the wettest March's on record for north and central Georgia. In the case of Columbus, it was the wettest month in history. Frequent heavy rain and thunderstorm events occurred during the month as a very active southern jet stream remained in place. Columbus received 13.30 inches of rain during the month, exceeding the previous record of 12.53 which occurred in 1952 and exceeding the normal rainfall for March by 7.53 inches. This also made it the wettest month ever recorded in Columbus since records had been started in 1946. Just on March 3rd alone, Columbus recorded 4.40 inches of rain. A similar story was repeated across the remainder of the state. Atlanta had 9.07 inches of rain, which was 3.30 inches above normal, Athens had 8.53 inches of rain, which was 3.07 inches above normal, and Macon recorded 9.83 inches of rain, which was 5.04 inches above normal.

Crisp County

2 W Coney to Cordele **03** **0145EST** **0** **2** **250K** **Thunderstorm Wind**
0150EST

The Cordele Dispatch reported that trees and power lines were blown down across the county, but especially in the Cordele and Lake Blackshear areas. On Lakeshore Court at Lake Blackshear, a tree fell on a house and caved in the bedroom wall injuring a man and his wife who were sleeping. Three other homes on Lakeshore Court were also damaged when trees fell on them. In addition, a boat house was completely destroyed by the wind and a tree fell on a pickup truck causing considerable damage. At the Falcon Run Golf course, a shed which housed golf carts, was completely destroyed. Several of the golf carts inside were damaged or destroyed as well. In addition, the tops were snapped out of pine trees all across the golf course and several homes around the course were damaged as well.

Dooly County

Vienna **03** **2240EST** **0** **0** **1K** **Thunderstorm Wind**
 The Dooly county 911 center reported that two trees were blown down on the Pinehurst Highway in Vienna.

Wilcox County

Rochelle to Abbeville **03** **2245EST** **0** **0** **2K** **Thunderstorm Wind**
2300EST

The Wilcox county 911 center reported 4 to 5 trees down from Rochelle to Abbeville.

Dodge County

Eastman **03** **2300EST** **0** **0** **1K** **Thunderstorm Wind**
 The Dodge county 911 center reported that the wing of a glider parked at the Eastman airport was damaged.

Storm Data and Unusual Weather Phenomena

March 2001

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

Treutlen County

Soperton **03** **2335EST** **0** **0** **2K** **Thunderstorm Wind**

The Treutlen county 911 center reported that a power line was blown down.

GAZ068>069-089-104 Pike - Upson - Muscogee - Sumter

03 **2100EST** **0** **0** **Flood**
2300EST

Heavy rain and thunderstorms persisted across the west central Georgia area throughout the afternoon and early evening forcing creeks and rivers out of their banks and flooding roads in many areas. Rainfall amounts of 3 to 5 inches were common throughout the region, with 24 hour amounts of 5.98 inches being reported from Preston in Webster county and 5.75 inches at Thomaston in Upson county for some of the heavier observed amounts. Local Emergency Management Personnel and various county/city newspapers reported many problems. In Muscogee county, a few streets were closed because of high water and the Chattahoochee Riverwalk was flooded as the Chattahoochee river rose to 28 feet, which is within 6 feet of flood stage. In Americus in Sumter county, several homes were flooded and some roads were blocked as water became so deep that cars could not pass safely. In Upson county, flooding of the Ten Mile Creek about 3 miles northeast of Thomaston resulted in the evacuation of 2 homes. Several streets were closed in the city of Thomaston because of high water. The Potato Creek in northeast Upson county was also reported to be at bankfull and was threatening some homes as well. In the extreme southern part of Pike county, near the Upson county border, water was flowing over the dam of a small lake on Weems Road.

Carroll County

Carrollton **03** **2200EST** **0** **0** **15K** **Lightning**

The Times Georgian newspaper in Carrollton reported that lightning struck the First Baptist Church on Dixie Street in Carrollton. The lightning struck the church steeple and blew out several small stained glass windows and also damaged the stained glass protective cover over the front door. The sound system and organ were also damaged. In addition, the lightning damaged some galvanized pipe in the office, which caused a water leak and subsequent damage to the office area. It was also apparent that a fire had been started by the lightning, but heavy rain which followed quickly doused the fire.

Bibb County

Macon **03** **2245EST** **0** **0** **Urban/Sml Stream Fld**

The Bibb county Emergency Management Director reported that some roads in the Lake Wildwood subdivision of Macon were reported to be 2 to 3 feet under water at some bridges.

Laurens County

Dublin **03** **2335EST** **0** **0** **Urban/Sml Stream Fld**

The Laurens county 911 center reported flooding at some of the bridges in the city.

Harris County

3 SE Ellerslie **03** **2200EST** **1** **0** **Flash Flood**

The Harris county 911 center reported that thunderstorms dumped very heavy rainfall across the county. Rainfall amounts of 2 to 4 inches in a 6 hour period were common across much of the county. Around 10 pm EST a 19-year old male and an additional occupant tried to cross swollen Randall Creek near Georgia Highway 315 approximately 3 miles southeast of Ellerslie. The vehicle became stranded in the rising flood waters and the 19-year old male driver was overcome by the rising flood waters. The passenger was able to escape. M19VE

Sumter County

Americus **03** **2200EST** **0** **0** **5K** **Thunderstorm Wind**

The Sumter county Sheriff's office reported that trees and power lines were blown down in Americus.

Fayette County

Fayetteville **12** **1620EST** **0** **0** **150K** **Lightning**

The Fayette Daily News reported that lightning struck and set on fire a brick, ranch-style house at 110 Sharon Drive. The fire destroyed a good portion of one end of the house including the attic, kitchen, and the dining room. No one was home at the time and no injuries were reported.

Floyd County

Countywide **12** **1630EST** **0** **0** **Flash Flood**

The Floyd county 911 center reported that very heavy rain within a 1 to 2 hour period had resulted in flooding of 2 roads on the north side of Rome and 1 road on the south side of Rome, both rendered impassible by the high water, some 2 feet or greater in depth. In addition, minor flooding of roads was reported throughout the county.

Upson County

2 NE Thomaston **12** **1640EST** **0** **1** **Lightning**

The Upson County Sheriff's Department reported that a Sheriff's Deputy was struck by lightning while on duty at the scene of an accident on the Barnesville Highway, approximately 2 miles northeast of Thomaston. He was still conscious and alert, but reported tingling sensations in his extremities. He was transported to a local hospital.

Upson County

Thomaston **12** **1720EST** **0** **0** **Urban/Sml Stream Fld**

The Upson County Emergency Management Director reported that heavy rain from thunderstorms caused some minor flooding on the basement floor of a church on West County Road. No monetary value of damage was believed to have been sustained since the floor affected was concrete.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
GEORGIA, North and Central							
Harris County							
Hamilton to Pine Mtn	15	0330EST 0340EST			0 0	5K	Thunderstorm Wind
The Harris county 911 center reported several trees and power lines down.							
Meriwether County							
Manchester	15	0400EST 0430EST			0 0	2K	Thunderstorm Wind
A storm spotter reported several trees down in Manchester, one of which was down on Georgia Highway 190.							
Muscogee County							
Columbus	15	0400EST 0430EST			0 1	300K	Thunderstorm Wind (G53) ^M
The Columbus Ledger Enquirer newspaper, Columbus television station WTVM, as well as local emergency management officials reported widespread storm damage to much of the Historic District and surroundings areas of Columbus. The damage was caused by a strong gust front preceding a line of early morning thunderstorms. Wind gusts of 61 mph were measured by the ASOS unit at the Columbus airport, but winds were believed to have gusted to near 80 mph in the downtown Historic District of Columbus. Extensive and widespread damage occurred to trees, power lines, and structures throughout the Columbus area, particular in the Martin Luther King Jr. Boulevard and Brown Avenue areas. Martin Luther King Boulevard, as well as Columbus thoroughfares north of Victory Drive and south of Peachtree Mall, were strewn with fallen oaks, splintered pines, and other debris, temporarily blocking traffic. Damage consisted of 47 trees, some of which were very large, old oak trees, 17 power lines, and 20 traffic lights. One home was badly damaged when a large oak tree fell across the roof, barely missing the occupant sleeping inside. Damage was also reported at the Columbus RedStixx baseball park where the awning of the office was ripped off, 2 dugouts roofs were damaged, and 3 sets of bleachers were blown on to the playing field. In addition, a firefighter on his way to a call was injured when a power line junction box was blown down and through the window of his fire truck.							
Talbot County							
Talbotton	15	0425EST			0 0	7K	Thunderstorm Wind
The Talbot county Sheriff's department reported that trees were down on some roads in Talbotton and a roof was blown off a carport. Power was reported to be out countywide.							
Meriwether County							
Manchester	15	0430EST			0 0	2K	Thunderstorm Wind
The Georgia Highway Department reported several trees down in the city of Manchester.							
Upson County							
Countywide	15	0430EST 0445EST			0 0	3K	Thunderstorm Wind
The Upson county 911 center reported several trees down in random areas across the county. In Thomaston, two trees were down across Birdsong Road and another was down on Triune Mill Road. In addition, a satellite dish was blown off its pedestal on Birdsong Road.							
Pike County							
Zebulon	15	0435EST			0 0		Urban/Sml Stream Fld
The Pike county 911 center reported that two roads were flooded in the county. Campground Road was reported to be impassable.							
Crawford County							
Roberta	15	0455EST			0 0	5K	Thunderstorm Wind
The Crawford county 911 center reported power lines and trees down along with trees blown down on power lines.							
Monroe County							
Forsyth	15	0505EST			0 0	2K	Thunderstorm Wind
The Monroe county 911 center reported that several trees were blown down.							
GAZ005>009 Murray - Fannin - Gilmer - Union - Towns							
	19	1800EST			0 0		Winter Storm
	20	1200EST					
The same strong, slow moving, cut off upper-level low pressure system that brought damaging winds and heavy rain to north and central Georgia, also brought an unseasonably late snowfall to the higher elevations of the northeast Georgia mountains. Unseasonably cold air was wrapped into the strong storm system, changing the rain to sleet and snow at the higher elevations. The event began as a period of sleet mixed with snow from the northern Atlanta metropolitan area eastward to Athens during the evening hours of the 19th and then spread north and northeast into the north Georgia mountains. In the higher elevations, mainly above 2500 feet, much of the precipitation during the night fell as snow, with some sleet mixture. Snowfall accumulations of 1 to 2 inches were common in the higher elevations in Murray, Gilmer, Fannin, and Towns counties. Because temperatures were near or slightly above freezing at most locations, the snowfall melted quickly and minimized hazardous road conditions.							

Storm Data and Unusual Weather Phenomena

March 2001

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

GAZ006>009-013>016-021>025-027-032>038-043>050-053>055-057>061-066-072>073-078-082 **Fannin - Gilmer - Union - Towns - Pickens - Dawson - Lumpkin - White - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - Coweta - Fayette - Clayton - Henry - Butts - Jasper - Putnam - Hancock - Troup - Jones - Baldwin - Harris - Bibb**

20	0600EST 1200EST				0 0	1.5M	High Wind
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A very strong, cutoff upper-level low pressure system moved slowly through the southeast U.S. from the evening of the 19th of March through the morning of the 20th. The accompanying surface low took a path from near Columbus, Georgia to near Athens, Georgia, to near Greenville-Spartanburg, South Carolina between midnight and noon on the 20th. Very strong east to northeast winds accompanied the surface low as it took this path through central and northeast Georgia during the early morning hours on the 20th. Sustained wind speeds of 30 to 40 mph with gusts to near 60 mph were common throughout central, north central, and northeast Georgia during the morning hours on the 20th, particularly around sunrise. The ground was saturated from heavy rains which occurred overnight and in preceding days. This simply aggravated the situation. Widespread damage was reported to trees, power lines, and structures across much of north central, northeast, and east central Georgia. Most of the damage reported was northeast of a line from Chatsworth, to Douglasville, to Newnan, to Griffin, to Macon, to Milledgeville, to Sparta. The hardest hit areas were in north central and northeast Georgia where many roofs were blown off buildings, particularly in Pickens, Cherokee, Dawson, Lumpkin, Forsyth, and White counties. Downtown Jasper was closed as tin roofs from several buildings littered the streets and created a hazard with flying debris. Just to the south in Cherokee county, a church steeple was blown down and the roof was blown off Fire Station No. 2. In White county, the roof was blown off the Cleveland Auto Body Shop causing \$200,000 in damage to the building and vehicles on the premises. Extensive damage was also reported in Bibb county at Macon, in Forsyth county, where dozens of roofs were blown off homes.

GEORGIA, Northeast

GAZ010-017>018-026-028>029 **Rabun - Habersham - Stephens - Franklin - Hart - Elbert**

01 31	0000EST 2359EST				0 0		Drought
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Despite beneficial rain in March, the drought worsened across the region. Water levels on some streams, creeks and lakes reached record-low levels.

GAZ010-017

Rabun - Habersham

06	0000EST 1500EST				0 0		High Wind (G55)
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Low pressure developed off the mid-Atlantic coast, and steadily strengthened as it crept northward up the Atlantic seaboard. As the storm grew stronger, the pressure gradient increase over the region resulted in high winds. Business signs were blown down and power was out for several days in some cases. Some people described this as the worst wind storm since March 1993.

GAZ017>018

Habersham - Stephens

20	0500EST 1200EST				0 0		Snow/Sleet
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Light snow and sleet caused numerous traffic accidents on roads and highways. Some accidents resulted in injuries and fatalities.

GAZ010

Rabun

20	0700EST 1300EST				0 0		Heavy Snow
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GAZ010-017>018-026-028>029 **Rabun - Habersham - Stephens - Franklin - Hart - Elbert**

20	0700EST 1500EST				0 0		High Wind (G55)
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Low pressure developed off the coast of the Carolinas and steadily strengthened as it crept up the coastline. As the storm strengthened, abundant moisture was wrapped around the storm and thrown back against the higher terrain of northern Georgia, resulting in locally heavy snow. A tightening pressure gradient over the region resulted in high winds.

There were numerous trees and power lines downed during the height of the storm, when estimated winds of around 60 mph were blowing. A dock was torn from a pier on Lake Hartwell.

Snowfall was confined to extreme Rabun and Habersham counties. Sky Valley led all northeast Georgia reporting locations with an accumulation of 10 inches. Most other accumulations were in the 2 to 5 inch range.

GEORGIA, Southeast

Candler County

2 N Metter

04	0015EST				0 0		Thunderstorm Wind (G50)
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Trees and large branches down

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>GEORGIA, Southeast</u>							
Jenkins County							
Millen	04	0015EST			0 0		Thunderstorm Wind (G50)
							Coop observer reported several trees and power lines down.
Tattnall County							
Reidsville	04	0015EST			0 0		Thunderstorm Wind (G50)
							Several trees and power lines down.
Bulloch County							
Portal	04	0020EST			0 0		Thunderstorm Wind (G50)
							Large limbs down and damage to a building.
Evans County							
1 NW Claxton	04	0030EST			0 0		Thunderstorm Wind (G50)
							Large limbs down and damage to a roof along highway 129.
Screven County							
Rocky Ford	04	0040EST			0 0		Thunderstorm Wind (G50)
							Coop observer reported damage to several farm buildings.
Bulloch County							
Brooklet	04	0105EST			0 0		Thunderstorm Wind (G50)
							Several large limbs down and damage to a detached garage.
Screven County							
1 W Oliver	04	0105EST			0 0		Thunderstorm Wind (G50)
							Several trees and numerous large branches down,
Effingham County							
2 W Kildare to Kildare	04	0110EST			0 0		Thunderstorm Wind (G50)
							Few trees down.
Effingham County							
2 E Springfield	04	0130EST			0 0		Thunderstorm Wind (G50)
							Several trees down.
Screven County							
Sylvania	20	0955EST			0 0		Thunderstorm Wind (G50)
							Large limbs and power lines down.
Bryan County							
Richmond Hill	29	1155EST			0 0		Hail (0.75)
Chatham County							
Savannah Muni Arpt	29	1216EST			0 0		Thunderstorm Wind (G50) ^M
Chatham County							
2 NW Hunter Afb	29	1220EST			0 0		Hail (1.00)
<u>GEORGIA, Southwest</u>							
Mitchell County							
2 N Baconton	03	0323EST			0 2	150K	Thunderstorm Wind
							A microburst caused F1 damage along a half mile path. Three mobile homes were destroyed. Two occupants inside one of the mobile homes were injured, one seriously. Six mobile homes were damaged. Some trees and power lines down. Reported by Mitchell County 911.
Early County							
Countywide	03	1510EST 1530EST			0 0	5K	Thunderstorm Wind
							Several trees and power lines down. Reported by the Early County EMA.
Colquitt County							
Berlin	03	2040EST			0 0	1K	Thunderstorm Wind
							Trees down on Little Mexico and Edmonson Roads. Reported by the Colquitt County Sheriff.
Mitchell County							
1 E Camilla	03	2230EST			0 0		Thunderstorm Wind (G52)
							60 mph wind gust reported by a SKYWARN storm spotter.
Colquitt County							
2 W Hartsfield	03	2240EST			0 0		Thunderstorm Wind (G57)
							65 mph wind gust reported by a SKYWARN storm spotter.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
GEORGIA, Southwest							
Dougherty County							
Albany	12	1130EST			0 0		Hail (0.88)
Nickel size hail reported by a SKYWARN storm spotter.							
Tift County							
6 N Tifton	12	1220EST			0 0		Hail (0.88)
Dime to nickel size hail at the Tift Area Academy on Highway 41 and at the Lang Farm on Rigdon-Aultman Road. Reported by the Tift County EMA.							
Miller County							
1.5 S Boykin to 2 SE Boykin	12	1715EST 1720EST	2	50	0 2	500K	Tornado (F1)
An F1 tornado touched down just west of U.S. Highway 27 in southern Miller County and tracked east to North Eldorado Road before it dissipated. Seven mobile homes were damaged. A roof was torn off a frame house. One frame house collapsed. Several sheds were damaged. One single-wide trailer was destroyed. An irrigation system was damaged. Storm damage surveyed by the NWS Tallahassee WCM.							
Lowndes County							
Valdosta	12	2100EST			0 0	5K	Lightning
Lightning struck a home on Deborah Drive. Reported by the Thomasville Times Enterprise.							
Dougherty County							
Putney	15	0520EST			0 0		Thunderstorm Wind (G50)
Reported by a SKYWARN storm spotter.							
Decatur County							
3 SSE Climax to 3 SE Climax	15	0610EST 0611EST	1	200	0 4	500K	Tornado (F2)
An F2 tornado touched down on Fewell Road in the Bell Dixon Community and tracked northeast into western Grady County. Debris was scattered over a wide area. Four persons were injured, one critically. Five homes sustained roof and window damage. Numerous trees and power lines down. One house was destroyed and eight others were severely damaged. A double-wide mobile home on Bell Dixon Road was lifted from its foundation and reduced to bits of debris in a neighboring field. Reported by the Decatur County EMA and Bainbridge Post Searchlight.							
Grady County							
4 SW Whigham to 1 SE Whigham	15	0611EST 0617EST	5	200	0 9	1M	Tornado (F2)
The F2 tornado raced northeast from just southeast of Climax in Decatur County to just southeast of Whigham in Grady County, then dissipated. Nine persons were injured, one critically. Ten homes were damaged and two homes destroyed on Piney Grove Road four miles southwest of Whigham. A half dozen homes were damaged two miles southwest of Whigham at the intersection of Attapulugus and Cleon Roads. Additionally, ten barns and sheds were damaged and eight trailers destroyed. Numerous trees and power lines down with outages. Reported by the Grady County EMA and a SKYWARN storm spotter.							
Colquitt County							
Moultrie	15	0645EST			0 0	75K	Thunderstorm Wind
Thunderstorm winds blew the top of a water tower into a porch of an adjacent house. Reported by a SKYWARN storm spotter.							
Thomas County							
6 NE Thomasville Mun 12 NE Thomasville Muni Arp	15	0805EST 0812EST	6	50	0 0	10K	Tornado (F0)
An F0 tornado touched down along Highway 122 and raced northeast toward Pavo in extreme northwest Brooks County. The tornado uprooted trees and downed power lines along its intermittent damage path. Reported by a SKYWARN storm spotter.							
Brooks County							
Pavo to 3 NE Pavo	15	0812EST 0815EST	3	50	0 0	5K	Tornado (F0)
The F0 tornado moved northeast from northeast Thomas County along Highway 122, crossed the Thomas-Brooks County line near Pavo, then dissipated just northeast of Pavo in extreme northwest Brooks County. It uprooted several trees and downed some power lines. Reported by a SKYWARN storm spotter.							
Thomas County							
1 N Thomasville	15	0820EST			0 0		Funnel Cloud
A funnel cloud sighted just north of Thomasville by a SKYWARN storm spotter.							
Mitchell County							
Pelham	20	0430EST			0 0	10K	Thunderstorm Wind
Several trees down on two transformer power lines caused scattered outages. Reported by the Pelham Journal.							

Storm Data and Unusual Weather Phenomena

March 2001

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

HIZ003-005>008

Maui - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau

01	0000HST						
31	2359HST			0	0		Drought

Maui County

Maui County continued its streak of dryness through the month of March. Gages on the three populated islands of Maui, Molokai and Lanai reported below normal rainfall, with three sites (Waikapu, Lahainaluna, and Kihei) reporting amounts less than 10 percent of average. There were no daily totals greater than 1 inch; the highest total for the month was only 3.04 inches at Haiku. Increasing rainfall deficits on Molokai further aggravated agricultural drought conditions, where irrigation reservoirs were at critically low levels.

Island of Hawaii

Rainfall totals for 2001 through the end of March across the eastern half of the Big Island were mostly in the range of 50 to 80 percent of average. Totals at most locations in the western half of the island were in the range of 20 to 40 percent of average.

The following list contains rainfall statistics for selected locations from around Maui County and the island of Hawaii where there have been ongoing drought conditions. The first column is the observed rainfall for March. The second column is the 30-year average for each location, while the third column lists the percent of average for the month. The fourth and fifth columns are the year-to-date total and percent of average, respectively.

	March 01	Avg.	% Avg.	YTD	YTD % Avg.
Maui					
Kihei	0.19	2.10	9	0.59	7
Lahainaluna	0.05	2.40	2	0.74	8
Kula	0.57	2.80	20	3.57	31
Ulupalakua	1.28	4.00	32	2.70	20
Molokai					
Kaunakakai	0.30	1.80	17	1.26	16
Kamalo	1.50	3.60	42	4.92	38
Lanai					
Lanai City	0.73	3.70	20	2.57	18
Island of Hawaii					
Honaunau	2.37	5.10	46	3.73	31
Kamuela (Upper)	1.49	6.70	22	6.99	39
Waiaha	1.38	5.20	27	2.27	17
Kahua Ranch	1.14	8.80	13	6.58	27
Kealahou	2.17	5.60	39	4.11	30

Recent drought problems have worsened on Molokai. By the end of March, the Maui County mayor was asking the governor to declare a drought emergency on the isle. A declared drought emergency would free up funds to pay for electricity needed to pump well water and deliver it to the 1.4 billion gallon reservoir at Kualapuu in central Molokai. The reservoir, which is normally at 20 feet, had fallen to about 4 feet after an electrical failure halted pumping for about two weeks in the month. More than 200 farmers and Hawaiian homesteaders on Molokai had reduced their water usage by about 30 percent by March 31st.

The ongoing drought continues to affect livestock and agricultural producers in the state, especially in Maui County and western parts of the Big Island of Hawaii. The losses in dollar values are not readily available for most sectors, but cattle operations lost around \$9 million in 2000 alone.

HIZ001>007

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

Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona

05	0700HST					
07	0400HST		0	1		High Surf

Storm lows well northeast and northwest of the state produced surf of 6 to 10 feet along the northwest clockwise through northeast shorelines of all the Hawaiian Islands. At Waimea Bay on the North Shore of Oahu on the 6th, lifeguards rescued six people from strong currents, while at Sunset Beach lifeguards launched a Jet Ski to aid a sailboarder who got in trouble after breaking the mast of his sail. Also, a surfer at Pipeline was taken to Kahuku Hospital after being injured in the rough surf.

Honolulu County

1 SE Waialua

09	1130HST					
	1740HST		0	0		Wild/Forest Fire

Storm Data and Unusual Weather Phenomena

March 2001

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

A brush fire of unknown origin started about a half mile from Thomson Corner, along Kaukonahua Road near Waialua, and blackened about 100 acres. At one point, the fire had a front more than two miles wide, but it was headed toward Mount Kaala and well away from any homes. The blaze kept firefighters busy for more than five hours before it was brought under control.

HIZ001>007 **Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona**

09	1500HST	0	0	High Surf
14	2000HST			

Intense storm low northeast of Japan generated surf of 10 to 15 feet along the north and northwest shores of all the Hawaiian Islands.

HIZ004-008 **North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - South Hawaii Including Kau**

15	0800HST	0	0	High Surf
16	1300HST			

A trade wind swell caused surf of 4 to 6 feet along the east-facing shores of the island of Hawaii.

HIZ001>007 **Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona**

17	0600HST	0	0	High Surf
18	2200HST			

A deep low well northwest of the state generated surf of 12 to 16 feet along the north and northwest shores of all the islands.

HIZ004-007 **North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - West Hawaii Including Leeward Kohala And Kona**

21	1200HST	0	0	High Surf
24	0400HST			

A storm low north of the state produced surf of 4 to 10 feet along the north and northeast shores of the island of Hawaii.

Honolulu County

Central Portion to Makakilo City	24	2145HST	0	0	Urban/Sml Stream Fld
	25	0045HST			

Thunderstorms and heavy showers caused ponding of roadways and minor drainage ditch and stream flooding from the Wahiawa- Mililani area to the southwest part of Oahu. No serious property damage or injuries were reported.

Kauai County

Kalaheo to Lihue	24	2155HST	0	0	Urban/Sml Stream Fld
	25	0115HST			

Heavy showers and thunderstorms caused flooding of drainage ditches and streams and ponding of roadways in southeast Kauai. No serious injuries or property damage were reported.

Maui County

Kualapuu to 13 W Kualapuu	25	0215HST	0	0	Urban/Sml Stream Fld
		0515HST			

Thunderstorms and heavy rain caused minor stream and drainage ditch flooding and ponding of roadways in central and western parts of Molokai. No serious property damage or injuries were reported.

HIZ004-008 **North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - South Hawaii Including Kau**

27	1300HST	0	0	High Surf
30	0700HST			

A trade wind swell generated surf of 4 to 8 feet on the east- and southeast-facing shores of the island of Hawaii.

IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

IDZ009>010 **Western Lemhi County - Eastern Lemhi County**

13	2028MST	0	0	High Wind (G60) ^M
	2109MST			

Fast moving cold front produced strong winds near convective showers. RAWS stations Kriley Creek reported 63 MPH wind gust, and Skull Gulch reported 69 MPH wind gust.

IDZ005 **Northern Clearwater Mountains**

31	1500MST	0	0	Heavy Snow
	2359MST			

15 hour heavy snowfall for the northern Clearwater Mountains included: in Clearwater County, 7 inches at Cool Creek, and 10.5 inches at Hemlock Butte. (Storm ended on 04/01/01)

Storm Data and Unusual Weather Phenomena

March 2001

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

IDZ001-003>004

Northern Panhandle - Idaho Palouse - Central Panhandle Mountains

13	1400PST 1730PST				0 0	14K	High Wind
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High winds caused quite a few power outages through the Idaho panhandle. About three dozen customers in the Sandpoint/Priest River areas were without power and about a dozen customers in the Pullman-Moscow area were without power. The ASOS at the Pullman-Moscow Airport measured a peak wind gust of 51 mph (44 knots) around 300 PM PST. Most power outages were caused by tree branches blowing into power lines. In Wallace, a stop sign was blown down, and a tree limb fell into a power line. This led to one power transformer box catching fire.

Kootenai County

Hayden

13	1605PST 1615PST				0 0	25K	Thunderstorm Wind
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Thunderstorm winds blew this tree into power lines in the 11000 block of Strahorn in the Hayden Lake area.

Strong winds blew down several trees and many larger tree limbs in the Hayden area. Several dozen power customers were without power when trees either blew into power lines or power lines were simply blown down.

Summary of events for March 13 2001:

An upper level low with lots of cold air aloft moved across the Northwest on March 13, bringing unstable conditions to the region. Meanwhile, a surface low moving across southern British Columbia brought strong sustained gradient winds of 25 to 35 miles an hour to much of the Idaho panhandle that afternoon. The combination of gradient winds and outflow from showers and thunderstorms caused minor wind damage and marginally severe wind gusts. For reference, most peak wind gusts and damage described on this date were associated with convective elements. Damage caused by elements containing cloud-to-ground lightning have been counted as "Thunderstorm Wind" events, while damage caused by elements containing NO cloud-to-ground lightning have been counted as "High Wind" events.

IDAHO, Southeast

IDZ032

Lost River / Pahsimeroi

13	2235MST				0 0		High Wind (G56) ^M
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A powerful fast moving cold front moved through southeast Idaho during the evening of March 13th. A measured wind gust of 65 mph occurred at Craters of the Moon National Monument in Butte County. No reports of damage were received.

IDZ021

Lower Snake River Plain

13	2346MST				0 0		High Wind (G54) ^M
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A powerful fast moving cold front moved through southeast Idaho during the evening of March 13th. a measured wind gust of 62 mph occurred at the ASOS site at the Pocatello Airport in Bannock County. This was the third fastest March wind ever recorded at Pocatello. No reports of damage were received.

IDZ022

South Central Highlands

15	1800MST				0 0		Heavy Snow
16	1800MST						

Heavy snow fell in the higher elevations of extreme southern Idaho. Amounts of 12 inches were recorded at the Pomerelle ski resort with 12 inches also at Howell Canyon and 17 inches at Magic Mountain. Lesser amounts of 1 to 3 inches were reported in lower elevations of the Snake River Plain with this system.

Storm Data and Unusual Weather Phenomena

March 2001

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

NONE REPORTED.

INDIANA, Northwest

NONE REPORTED.

INDIANA, South Central

NONE REPORTED.

INDIANA, Southeast

NONE REPORTED.

INDIANA, Southwest

INZ081>082-085>088

Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer

31	0001CST 0830CST						Fog
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Widespread dense fog formed around midnight. During the early morning hours, visibility was below a quarter mile. The fog lifted between 8 and 9 A.M.

IOWA, Central

IAZ085>086

Monroe - Wapello

15	0900CST 1615CST			0	0	75K	Flood
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A large area of rain spread north and west into Iowa during the early morning hours of the 15th and continued through much of the morning of the 15th. Though the rainfall did not fall at a fast rate, it was steady over a long period of time. Rainfall rates were in the one to two tenth inch per hour range. Reports of one to two inches of rain were common, with spotty reports of anywhere from three to five inches. The ground was saturated from recent storms and snow melt. As a result much of the rain ran off. Creeks overflowed their banks and numerous roads were closed. Some of the worst flooding took place in Wapello County. At one point at least 21 roads and highways were closed in the county. The water receded slowly during the late afternoon and evening hours as rainfall rates decreased and the precipitation began to change to snow.

IAZ059>062-071>075-081>086-092>097

Dallas - Polk - Jasper - Poweshiek - Adair - Madison - Warren - Marion - Mahaska - Adams - Union - Clarke - Lucas - Monroe - Wapello - Taylor - Ringgold - Decatur - Wayne - Appanoose - Davis

15	1500CST			0	0	650K	Heavy Snow
16	1700CST						

A late winter storm took aim on Iowa on the 15th. Initially, a large amount of very warm air was drawn north into the state, sending temperatures into the 50s over the southern third of the state. This caused a considerable amount of snow melt during the day on the 14th. During the early morning of the 15th, rain began to breakout over the southeast part of the state. During this time, a complex weather system was taking shape over the southwest High Plains. Two upper level systems merged over the central U.S., forming one low pressure system over south central Kansas by the morning of the 15th. During this time, cold air began to sink south into Iowa. the low tracked east across Missouri, eventually passing just south of St. Louis. A large precipitation shield formed on the north and west sides of the low. This deformation zone precipitation remained stationary for several hours. Rain changed to snow over central Iowa by the early afternoon hours of the 15th, with snow falling over most of the south half of the state by the mid evening hours. Snow fell heavily through the night with a large area of eight inches or more reported from parts of central Iowa, south into south central Iowa. The heaviest snow fall over the south central counties. A National Weather Service off-duty employee measured 14 inches of snow in central Decatur County. In nearby Lamoni, a NWS observer reported 12.4 inches from the storm. A band of very heavy snow, about 25 miles wide, extended from Lamoni northeast into Marion County. Ten inch plus reports were received in this area, with a narrow area of 12 inch plus amounts extending from Lamoni into Clarke and southeast Marion Counties. There was a sharp cut off of the heavy snowfall as you went northwest. Des Moines was near the northwest edge of the snow. Nearby Ames to the north received about an inch, while the NWS office in Johnston on the north side of the metropolitan area picked up 5.1 inches. Just 10 miles to the south of the NWS office, 8.2 inches was measured in the city of Windsor Heights. Even though the winds during the event were in the 20 to 40 MPH range, there was little blowing snow due to the very wet nature of the snow. Some drifting occurred and caused some problems with travel conditions. The very wet nature of the snow also caused some power outages. Snow caked on trees and power lines. A few branches were broken by the weight of the snow, resulting in the power outages. Nearly all schools across the southeast third of the state were closed by the storm.

IAZ046>050-057>062-070>075-081>086-092>097

Greene - Boone - Story - Marshall - Tama - Audubon - Guthrie - Dallas - Polk - Jasper - Poweshiek - Cass - Adair - Madison - Warren - Marion - Mahaska - Adams - Union - Clarke - Lucas - Monroe - Wapello - Taylor - Ringgold - Decatur - Wayne - Appanoose - Davis

15	1500CST			0	0	260K	Flood
16	2100CST						

The first 10 days of March were essentially dry and cool across the Des Moines HSA. There was some melting of the impressive snowpack still in place across the northern two thirds of Iowa, but not enough to prevent a record duration snow cover (one inch or more) to be established at Des Moines. A new record of 99 days was reached by the 19th of the month. Over parts of northwest Iowa, new records for the state were set with duration in excess of 140 days. A major precipitation event that affected the southern half of the HSA took place on

Storm Data and Unusual Weather Phenomena

March 2001

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

KSZ023-036

Pottawatomie - Geary

01	0720CST 0725CST				2	0	Ice Storm
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Slick roads caused by freezing rain resulted in two fatal accidents just minutes apart. The first accident occurred 3 miles north of Wamego in Pottawatomie county when slick roads caused a 2 vehicle collision that resulted in the death of a 17 year old female driver of one of the cars. The second accident occurred just 5 minutes later 15 miles east of Junction City in Geary county when a vehicle slid off the road and overturned killing a 23 year old male passenger. F17VE, M23VE

Jefferson County

2 S Mc Louth

14	1555CST				0	0	Hail (0.75)
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Jefferson County

Oskaloosa

14	2010CST 2230CST				0	0	Urban/Sml Stream Fld
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Heavy rains of one to 3 inches caused many small creeks and streams to overflow their banks and spread water over roadways. Several roads were reported impassable for a time.

KSZ022

Riley

15	1300CST				0	0	2K	High Wind (G55)
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Strong non-thunderstorm winds blew down a large tree on a car in Manhattan and caused several thousand dollars damage to the vehicle.

KSZ010>012

Marshall - Nemaha - Brown

15	1700CST 2200CST				0	0	Winter Storm
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A winter storm caused strong winds and one to 3 inches of snow near the Nebraska border. Slick roads and poor visibility was the result with near blizzard conditions at times. A number of vehicle accidents occurred but none with serious injury.

Shawnee County

6 E Topeka

15	2200CST 2330CST				0	0	Urban/Sml Stream Fld
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Heavy rains caused small creeks and streams to overflow their banks in eastern Shawnee county for a time covering some roads with water.

KANSAS, Extreme Southeast

NONE REPORTED.

KANSAS, North Central

KSZ005>007

Phillips - Smith - Jewell

10	1800CST				0	0	0	0	Winter Storm
11	1330CST								

A strong winter storm passed through parts of north-central Kansas this weekend. While most areas picked up around 4 inches of snow, it was combined with freezing rain and gusty winds to provide for dangerous conditions. Only a few minor accidents were noted during the storm. Early forecasts of the storm likely helped keep motorists off the roadways during the height of the dangerous conditions.

KANSAS, Northeast

KSZ103

Leavenworth

15	0100CST				0	0	Flood
16	2200CST						

A strong storm system moved across northeast Kansas on March 15th and 16th. Rains of around 1 inch, in combination with melting snow, caused minor flooding on Stranger Creek.

KSZ102

Doniphan

15	1500CST				0	0	Heavy Snow
16	1100CST						

A strong storm system moved across extreme northeast Kansas on March 15th and 16th. Snow reached a depth of 7 inches around Troy. In addition, gusty north winds caused extensive blowing and drifting of the snow.

KANSAS, Northwest

KSZ003>004-

015>016-029

Decatur - Norton - Sheridan - Graham - Gove

15	0400MST 1200MST				0	0	Blizzard
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Blizzard conditions affected parts of northwest Kansas. Sections of Interstate 70 were closed and travelers were stranded. In addition, snowfall amounts ranged from three to six inches with some higher drifts due to very strong winds.

Logan County

7.5 SSW Monument

30	1515MST				0	0	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>KANSAS, Southeast</u>							
Marion County							
Lost Spgs to 5 W Lost Spgs	14	1347CST 1440CST			0 0		Flash Flood
Rainfall in the 2.5-3.0 inch range caused flash flooding of numerous roads in northeast Marion County.							
Kingman County							
Cunningham	14	2025CST			0 0		Hail (0.75)
Harper County							
9 NW Attica	14	2040CST			0 0		Hail (1.00)
Kingman County							
3 S Nashville	14	2100CST			0 0		Hail (1.00)
Harper County							
5 NE Attica	14	2106CST			0 0		Hail (0.75)
Harper County							
3 SW Duquoin	14	2114CST			0 0		Hail (0.75)
Harper County							
5 NW Harper	14	2126CST			0 0		Hail (0.75)
Kingman County							
Nashville	14	2131CST			0 0		Hail (0.88)
Kingman County							
4 NE Cunningham	14	2136CST			0 0		Hail (0.88)
Marion County							
5 E Goessel	14	2143CST "Greater than 3/4 inch."			0 0		Hail (0.88)
Harper County							
9 NW Attica	14	2147CST			0 0		Hail (0.75)
Harper County							
Harper	14	2225CST Time estimated.			0 0		Hail (1.00)
<u>KANSAS, Southwest</u>							
Seward County							
Liberal	10	1507CST			0 0		Hail (0.75)
Seward County							
4 SE Kismet	10	1540CST			0 0		Hail (0.75)
Meade County							
10 SSW Meade	10	1600CST			0 0		Hail (0.75)
Meade County							
8 SSE Meade	10	1615CST			0 0		Hail (1.75)
Gray County							
Montezuma	10	1657CST			0 0		Hail (0.75)
Meade County							
11 SSE Fowler	10	1710CST			0 0		Hail (0.75)
Clark County							
Minneola	10	1730CST			0 0	0.50K	Thunderstorm Wind
Road sign blown down on the east side of town.							
Meade County							
16 S Meade	10	1735CST			0 0		Hail (0.75)
Clark County							
9 SSE Minneola	10	1740CST			0 0		Hail (0.75)
Ellis County							
7 SW Hays	14	1813CST			0 0		Hail (0.88)
Ellis County							
Munjoy	14	1820CST			0 0		Lightning
lightning entered into the house trough conduit and wiring. Extensive smoke damage was reported.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>KANSAS, Southwest</u>							
Kearny County							
Lakin	14	1820CST			0 0	7K	Thunderstorm Wind
The roof was blown off a building, a semi was overturned and power lines were brought down.							
Gray County							
4 S Cimarron	14	1822CST			0 0		Hail (0.75)
Hodgeman County							
4 SSW Jetmore	14	1836CST			0 0		Hail (0.88)
Finney County							
14 SSE Garden City	14	1840CST			0 0		Hail (0.75)
Ford County							
10 W Dodge City	14	1840CST			0 0		Hail (0.75)
Hodgeman County							
4 S Jetmore	14	1840CST			0 0		Hail (0.88)
The hail covered highway 283.							
Finney County							
16 S Garden City	14	1845CST			0 0		Hail (1.00)
Hail fell on the county line.							
Finney County							
16 S Garden City	14	1845CST			0 1	5K	Thunderstorm Wind
High wind blew a semi over. The driver had minor injuries.							
Haskell County							
17 NNE Sublette	14	1855CST			0 0		Thunderstorm Wind (G52)
Gray County							
Montezuma	14	1910CST			0 0		Hail (0.75)
Gray County							
Montezuma	14	1910CST			0 0		Thunderstorm Wind (G52)
Meade County							
6 W Fowler	14	1930CST			0 0		Hail (0.75)
Gray County							
12 ESE Montezuma	14	1935CST			0 0		Hail (0.75)
Ford County							
11 E Dodge City	14	1945CST			0 0		Hail (1.00)
Ford County							
5 ESE Wright	14	1945CST			0 0		Thunderstorm Wind (G52)
Barber County							
Isabel	14	2010CST			0 0		Hail (0.75)
Barber County							
10 N Medicine Lodge	14	2108CST			0 0		Hail (1.00)
KSZ063-078-084							
Finney - Ford - Morton							
	15	0530CST 1500CST			1 0		High Wind (G54) ^M
Wind of 40 to 60 mph for much of the morning and early afternoon blew several cars off the road. In Ford county, the wind blew a motor home into the path of a semi. The result was one fatality. F70VE							
KSZ030-044>045-063>064-076>078-086>088							
Trego - Lane - Ness - Finney - Hodgeman - Haskell - Gray - Ford - Seward - Meade - Clark							
	15	0700CST 1200CST			0 0		Blizzard
A blizzard occurred for a short period of time with 2 to 4 inches of snow and sustained wind of 40 mph and frequent gusts to near 60 mph. A 15 mile wide band of 4 to 6 inches fell from near Wakeeney, south to near Dodge City. Snow drifts were 4 to 6 feet in this narrow band.							
Hamilton County							
14 SW Syracuse	23	1710CST			0 0		Hail (0.75)
Stanton County							
17 NW Johnson	23	1715CST			0 0		Hail (0.75)

Storm Data and Unusual Weather Phenomena

March 2001

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

KSZ074>076-086

Stanton - Grant - Haskell - Seward

25	2200CST				0	0		Heavy Snow
26	0500CST							

Early spring snow was dumped upon some parts of far southwest Kansas. Amounts ranged from 3 to 5 inches.

KENTUCKY, Central

Hart County

1 E Bonnieville

13	0130EST				0	0		Hail (1.00)
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Cumberland County

Peytonsburg

13	0330EST				0	0		Hail (0.75)
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Clinton County

Albany

13	0335EST				0	0		Hail (1.00)
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KENTUCKY, Eastern

KYZ088

Harlan

06	0930EST				0	0	0	0	Heavy Snow
	1330EST								

Heavy snow was reported across portions of the county. 4 to 6 inches of snow was reported with the greatest amount of 8 inches measured on Black Mountain.

KYZ118

Letcher

06	1400EST				0	0	0	0	Heavy Snow
	1600EST								

Heavy snow was reported across the county. 4 to 6 inches of snow were reported with the greatest depth of 6.5 inches on Pine Mountain.

Pulaski County

5 N Somerset

13	0340EST				0	0	0	0	Hail (0.75)
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Perry County

Hazard

13	0520EST				0	0	0	0	Hail (1.00)
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Knott County

2 SE Hall

13	0555EST				0	0	0	0	Hail (1.75)
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Pike County

5 NW Elk Horn City

13	0615EST				0	0	0	0	Hail (0.88)
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Pike County

Kimper

13	0620EST				0	0	5K	0	Thunderstorm Wind
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Strong thunderstorm winds brought trees and power lines down.

Pike County

Feds Creek

13	0630EST				0	0	0	0	Hail (1.00)
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KYZ088-115-117>118

Harlan - Perry - Leslie - Letcher

21	0100EST				0	0			Heavy Snow
	1300EST								

The first full day of Spring brought heavy snow to extreme southeastern Kentucky which began around 1 am on Wednesday, March 21. Kingdom Come State Park in Harlan County received 17 inches by 8:15 am, with Big Laurel in Leslie County receiving 16 inches by 9 am. The largest total recorded in Perry County was in Leatherwood with 13 inches on the ground by 8:45 am and Skyline and Whitesburg in Letcher County reporting 4 inches on the ground by 1 pm. 3,500 people were without power in Whitesburg and several people were stranded on Pine Mountain. Snow amounts of 4 inches or more were generally reported above 2000 feet in elevation.

KENTUCKY, Northeast

KYZ101>103-105

Greenup - Carter - Boyd - Lawrence

01	0000EST				0	0			Prolong Cold
31	2300EST								

The monthly average temperature across northeast Kentucky was 4 to 6 degrees colder than a normal March.

KYZ101>103-105

Greenup - Carter - Boyd - Lawrence

13	1630EST				0	0			Wind
	1800EST								

A cold pocket of air aloft triggered instability showers in the wake of a cold frontal passage. The showers helped drag down momentum from aloft. Wind gusts of 40 to 50 mph were common.

KENTUCKY, Northern

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>KENTUCKY, Southwest</u>							
KYZ001>022	Fulton - Hickman - Carlisle - Ballard - Mcracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd						
	31	0001CST 0830CST			0 0		Fog
	Widespread dense fog formed around midnight. During the early morning hours, visibility was below a quarter mile. The fog lifted between 8 and 9 A.M.						
<u>LOUISIANA, Northeast</u>							
Catahoula Parish							
Countywide	01	2200CST 2230CST			0 0		Flash Flood
	A few roads were flooded.						
Concordia Parish							
Countywide	01	2200CST			0 0		Flash Flood
	02	0000CST					
	A few roads were flooded.						
Catahoula Parish							
Countywide	02	0145CST 0430CST			0 0		Flash Flood
	Several roads flooded from continued heavy rains.						
Concordia Parish							
Countywide	02	0200CST 0400CST			0 0	80K	Flash Flood
	Water entered about 30 homes in the parish from the flooding of rapidly rising creeks and drainage ditches. Many roads flooded from the continued heavy rains.						
Morehouse Parish							
Countywide	02	0200CST 0400CST			0 0		Flash Flood
	Several roads were closed due to flooding rains.						
Catahoula Parish							
Countywide	02	1000CST 1200CST			0 0		Flash Flood
	Many roads became flooded.						
Concordia Parish							
Countywide	02	1000CST 1200CST			0 0		Flash Flood
	Many roads were flooded. Water overflowed creeks and drainage ditches, especially around the city of Ferriday.						
Tensas Parish							
Countywide	02	1000CST 1200CST			0 0	10K	Flash Flood
	Several houses experienced flooding. One road was closed.						
Catahoula Parish							
Countywide	02	1600CST 2230CST			0 0	20K	Flash Flood
	Numerous roads in the parish were flooded. Many homes were surrounded by water.						
Concordia Parish							
Countywide	02	1600CST 2230CST			0 0	70K	Flash Flood
	Approximately 15 houses were flooded. Many roads were flooded, and several roads were closed due to flooding.						
Concordia Parish							
Countywide	03	1100CST 1400CST			0 0		Flash Flood
	Additional rainfall caused more flooding on roads and around several homes in the parish.						
LAZ024	Catahoula						
	08	1500CST			0 0	30K	Flood
	Rising waters around Lake Louis after previous week-end rains caused significant flooding of property around the lake with water in several homes.						

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
LOUISIANA, Northeast							
Franklin Parish							
Wisner	12	0715CST			0 0	2K	Thunderstorm Wind
Several trees and power lines were blown down.							
Tensas Parish							
Newellton to Lake Bruin	12	0730CST			0 0	8K	Thunderstorm Wind
Numerous tree limbs were blown down. Roofing was torn off of a house near Lake Bruin. Roofing was also torn off of an elementary school.							
LOUISIANA, Northwest							
LAZ002>003-012 Bossier - Webster - Bienville							
	01	0000CST			0 0		Flood
	25	2100CST					
Heavy rainfall throughout the early portion of March led to some of the highest water levels on Lake Bistineau and Bayou Dorcheat since 1997 and 1991. Up to two dozen homes were flooded including all camps and campgrounds which had to be evacuated. Bayou Dorcheat at Dixie Inn crested at 22.2 feet on March 4th. Flood state is 14 feet. Lake Bistineau crested at 147.1 feet on March 5th and 6th. Flood stage is 142.5 feet. Dollar figures were not available.							
LAZ002 Bossier							
	01	0000CST			0 0		Flood
	31	2359CST					
Heavy rains during the beginning of the month led to high water on Red Chute Bayou in southern Bossier Parish. Near and south of Sligo, LA, some 25 homes reported flooding. Red Chute Bayou crested at 27.2 feet on the 2nd and 3rd. Flood stage is 31 feet.							
LAZ001>002-011-018 Caddo - Bossier - Red River - Natchitoches							
	01	0000CST			0 0		Flood
	10	2359CST					
High water levels from heavy rainfall in February, combined with additional heavy rains during early March, producing some of the highest river readings on the Red River from Shreveport, LA, to Grand Ecore since May of 1990. Three homes had backwater flooding problems near Shreveport. Further south, high water claimed another two homes near Natchitoches, LA, because of backwater flooding of Bayou Pierre. The Red River in Shreveport crested at 29.8 feet on the 5th. Flood stage is 30 feet. At Coushatta, LA, the Red River crested at 35.2 feet. Flood stage is 31 feet. At Grand Ecore, the Red River crested at 29.4 feet. Flood stage is 33 feet.							
LAZ002 Bossier							
	01	0000CST			0 0		Flood
	31	2359CST					
Consecutive months of well above normal rainfall in Bossier Parish led to a record pool stage on Bodcou Reservoir. The lake crested at 197.4 feet on the morning of the 20th. Flood stage is 172.0 feet.							
LAZ001 Caddo							
	01	0600CST			0 0		Flood
	25	2359CST					
Heavy rains through the early portion of March combined with already high water conditions on Caddo Lake which crested at 175.6 feet. This resulted in some 150 homes flooded along the shores of the lake. Flood stage is 172.0 feet. Damage figures are not available.							
Sabine Parish							
2 S Belmont	01	1815CST			0 0		Flash Flood
Highway 175 was closed due to flooding of the roadway.							
Sabine Parish							
3 N Converse	01	1820CST			0 0		Flash Flood
Highway 171 was closed due to flash flooding.							
Sabine Parish							
Zwolle	01	1825CST			0 0		Flash Flood
Highway 171 was closed due to flash flooding.							
Natchitoches Parish							
10 S Natchitoches	01	1820CST			0 0		Flash Flood
Parish Road 1724 was closed due to rapid flooding across the roadway.							
La Salle Parish							
Jena	01	2030CST			0 0		Flash Flood
Highway 84 was closed due to rapid rise of water across the roadway.							
Caldwell Parish							
2 S Grayson	01	2045CST			0 0		Flash Flood
Highway 126 was closed due to rapid flooding across the highway.							
Caldwell Parish							
10 NW Columbia	01	2050CST			0 0		Flash Flood
Parish Road 846 was closed due to rapid flooding across the highway.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>LOUISIANA, Northwest</u>							
Ouachita Parish							
10 SW Monroe	01	2115CST			0 0		Flash Flood
Several rural roads were closed from a rapid rise in waters due to heavy rainfall.							
Union Parish							
2 W Spearsville	01	2140CST			0 0		Flash Flood
State Highway 15 between 167 and Spearsville was closed due to high water from heavy rains.							
Lincoln Parish							
5 W Dubach	01	2150CST			0 0		Flash Flood
Three feet of water was reported across some roads due to rapid and heavy rains.							
Grant Parish							
Pollock	01	2300CST			0 0		Flash Flood
Several roads in and near town were underwater and closed from rapid and heavy rains.							
La Salle Parish							
Jena	02	0330CST			0 0		Flash Flood
Highway 84 was closed again for rapid flooding.							
Grant Parish							
Colfax	02	0330CST			0 0		Flash Flood
Several roads were closed due to excessive rapid rainfall.							
Caddo Parish							
Greenwood	12	0420CST			0 0		Hail (1.00)
Sabine Parish							
5 W Zwolle	12	0526CST			1 0	28K	Thunderstorm Wind (G52)
A man was killed when a tree was blown over on a vehicle on LA 482 5 west of Zwolle. M28VE							
Natchitoches Parish							
Marthville	12	0537CST			0 0		Thunderstorm Wind (G60)
Numerous trees were broken and felled along Hwy 485.							
Natchitoches Parish							
2.8 NW Natchitoches to 2.8 NE Natchitoches	12	0540CST			0 6	500K	Thunderstorm Wind (G87)
A squall line with a bow echo moved across the north side of Natchitoches. Several mobile homes had siding damage in the Hidden Hills mobile home park of north Natchitoches, and two were overturned by straight line winds. They were not tied down. A church and several frame homes were damaged by falling trees. In extreme NE Natchitoches in the 2000 block of Williams Rd., a mobile home was destroyed by wind, estimated by eye witness and NWS Doppler radar at 90 to 100 mph. Six people were injured in this mobile home. Numerous trees snapped and uprooted along the 4.5 mile path of the microburst and several power lines were knocked down by falling trees. All debris was blown from west to east in a fan pattern.							
Winn Parish							
Winnfield	12	0600CST			0 0		Thunderstorm Wind (G52)
Numerous trees down across the area.							
Winn Parish							
Atlanta	12	0600CST			0 0	45K	Thunderstorm Wind (G65)
Roof was blown off the Post Office.							
La Salle Parish							
Tullos	12	0635CST			0 0		Thunderstorm Wind (G52)
Numerous trees down at the Intersection of Hwy 84 and Hwy 125 in Tullos.							
<u>LOUISIANA, Southeast</u>							
Lafourche Parish							
Raceland	03	0130CST			0 0	10K	Thunderstorm Wind
Thunderstorm wind gusts damaged a mobile home, knocked down several trees and downed power lines.							
St. Tammany Parish							
South Portion	03	0200CST 0400CST			0 0		Flash Flood
Heavy rainfall caused severe flooding of a number of streets and secondary roadways.							
St. Tammany Parish							
Slidell	03	1335CST			0 0	0.75K	Thunderstorm Wind
A few trees were blown down.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>LOUISIANA, Southeast</u>							
Lafourche Parish							
Thibodaux	03	1745CST			0 0	1K	Thunderstorm Wind
Several tree limbs and power lines were knocked down.							
Lafourche Parish							
6 SW Lockport	09	0320CST			0 0	15K	Thunderstorm Wind
Thunderstorm wind gusts caused minor damage to several houses and mobile homes.							
Terrebonne Parish							
Bourg	09	0330CST			0 0	325K	Thunderstorm Wind
Thunderstorm winds in the Bourg and Dularge areas damaged twelve homes, wrecked a recreational vehicle, caused a car to be crushed by a falling tree, flipped a refrigerator truck, toppled several boats, destroyed several backyard sheds, and knocked down numerous trees. Four of the houses affected by the storm sustained severe damage.							
Terrebonne Parish							
Montegut	09	0330CST			0 0	1K	Thunderstorm Wind
Several trees were blown down.							
Terrebonne Parish							
8 S Houma	09	0330CST			0 0	10K	Thunderstorm Wind
Thunderstorm winds caused damage to three homes and knocked down trees and power lines.							
St. Charles Parish							
Destrehan	11	2352CST			0 0		Hail (1.00)
Tangipahoa Parish							
8 E Kentwood	12	0720CST	0.2	20	0 0	2K	Tornado (F0)
A weak tornado knocked down several trees and power lines.							
Pointe Coupee Parish							
Innis	12	0806CST			0 0	1.5K	Thunderstorm Wind
Several trees were blown down.							
West Feliciana Parish							
Countywide	12	0821CST			0 0	1.5K	Thunderstorm Wind
Several trees were blown down across northern areas of the parish.							
Tangipahoa Parish							
Kentwood	12	0910CST	0.3	20	0 0	28K	Tornado (F0)
A tornado knocked down numerous trees and power lines. Several homes received roof damage as a result of the downed trees.							
Washington Parish							
Countywide	12	0930CST			0 0	40K	Thunderstorm Wind
Thunderstorm winds blew down numerous trees across the parish. In Bogalusa, two homes were damaged by falling trees and one mobile home was destroyed. In Franklinton, a greenhouse and a business were damaged by the winds.							
<u>LOUISIANA, Southwest</u>							
Evangeline Parish							
Pine Prairie	01	1427CST			0 0		Hail (0.75)
St. Landry Parish							
Lebeau	01	1515CST			0 0		Hail (0.88)
Rapides Parish							
Woodworth	01	1620CST			0 0		Hail (0.75)
Rapides Parish							
Pearl	02	0905CST			0 0	2K	Thunderstorm Wind
Trees were blown down along Highway 165 just north of the Rapides - Allen Parish line.							
Evangeline Parish							
3 N Turkey Creek	02	0915CST			0 0	2K	Thunderstorm Wind
Several trees were blown down during a severe thunderstorm.							
Allen Parish							
Oakdale	02	0920CST			0 0	2K	Thunderstorm Wind
Trees and power lines were blown down during a severe thunderstorm.							
St. Mary Parish							
Amelia	03	1200CST			0 0	8K	Thunderstorm Wind
The roof of a mobile home was ripped off during a severe thunderstorm.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
LOUISIANA, Southwest							
LAZ028			Rapides				
	04	0000CST			0	0	250K
	26	2359CST					Flood
	The Red River near Alexandria was above flood stage for over three weeks, cresting at 35.52 feet on the 13th. Areas unprotected by the levee system had as much as ten feet of water in them, primarily in the Pineville area and Bayou Rigolette areas. Rescues of trapped cows and horses were common, but there were no reports of human injuries.						
LAZ027-030-041			Vernon - Beauregard - Calcasieu				
	04	0000CST			0	0	175K
	12	2359CST					Flood
	The Sabine River had a major flood in early March, cresting five to six feet above flood stage between the 9th and 11th. Significant erosion occurred on the river bank, and many homes and camps immediately on the river had water enter them. Many roads leading to the river were damaged from the rapidly moving water. Most of the damage occurred along the river near Burr Ferry and Merryville.						
Calcasieu Parish							
Vinton	08	2245CST			0	0	5K
	Thunderstorm Wind						
	Several trees and power lines were blown down on Gary Cutoff Road, Five Corners, and Big Vinton.						
Cameron Parish							
Creole	08	2300CST			0	0	20K
	Thunderstorm Wind						
	Trees and power lines were downed in Creole and Little Chenier. Roof shingles and tin were blown off boat and trailer houses, and a horse trailer was flipped into a truck. One large oak tree smashed through a mobile home. No one was inside at the time.						
Jefferson Davis Parish							
Hathaway	08	2315CST			0	0	5K
	Thunderstorm Wind						
	The roof was blown off a barn and knocked the walls out during a severe thunderstorm.						
Jefferson Davis Parish							
Welsh	09	0100CST			0	0	5K
	Thunderstorm Wind						
	A large oak tree fell on South Adams Street, causing minor damage to the sidewalk and electrical lines.						
Iberia Parish							
South Marsh Is	09	0133CST			0	0	10K
	Thunderstorm Wind (G60) ^M						
	At the wildlife refuge, measured winds of 60 knots caused the siding to be ripped off the headquarters building.						
St. Mary Parish							
Franklin	09	0300CST			0	0	25K
	Thunderstorm Wind						
	The corner of a department store roof was torn off during a severe thunderstorm.						
Vermilion Parish							
Forked Is	09	1243CST			0	0	25K
	Thunderstorm Wind						
	The bridge tender reported trees blown down and the gate on the draw bridge was broken.						
Rapides Parish							
Alexandria	12	0426CST			0	0	5K
	Thunderstorm Wind						
	Several trees were blown down during a severe thunderstorm.						
Avoyelles Parish							
Bordelonville	12	0740CST			0	0	150K
	Thunderstorm Wind						
	Over 15 homes and businesses received minor damage as winds in excess of 70 mph passed through town. The water works office, a church, and at least two mobile homes were damaged severely or destroyed. The rest of the damage was tin and shingle damage to roofs. Several trees and power lines were also blown down. Damage also occurred in Marksville and Simmesport.						
St. Landry Parish							
Eunice	12	0751CST			0	0	Hail (1.00)
Evangeline Parish							
Chataignier	12	0759CST			0	0	Hail (0.75)
Calcasieu Parish							
Gillis	12	0812CST			0	0	Hail (0.75)
Allen Parish							
Reeves	12	0817CST			0	0	2K
	Thunderstorm Wind						
	Trees were blown down on Ike Road.						
Allen Parish							
Reeves	12	0818CST			0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

March 2001

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

Jefferson Davis Parish

Fenton	12	0819CST			0	0	Hail (0.75)
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St. Landry Parish

Eunice	12	0900CST			0	0	2K Urban/Sml Stream Fld
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Two inches of rain in less than two hours caused minor street flooding in Eunice. Several streets had to be temporarily closed.

Jefferson Davis Parish

Lake Arthur	14	1830CST			0	0	5K Thunderstorm Wind
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Trees and power lines were downed in the Lake Arthur area during a severe thunderstorm.

Cameron Parish

Grand Chenier	14	1840CST			0	0	5K Thunderstorm Wind
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Several trees were downed.

Vermilion Parish

Kaplan	14	1957CST			0	0	5K Thunderstorm Wind
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Several trees were downed.

Vermilion Parish

Forked Is	14	2004CST			0	0	5K Thunderstorm Wind
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Several trees were blown down.

Iberia Parish

New Iberia	14	2020CST			0	0	5K Thunderstorm Wind
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Several trees were downed.

St. Martin Parish

Catahoula	24	2305CST			0	0	Hail (0.75)
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Allen Parish

Kinder	28	1800CST			0	0	15K Thunderstorm Wind
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A large oak tree fell on a church in Kinder during a severe thunderstorm.

MAINE, North

MEZ029>030

Coastal Hancock - Coastal Washington

06		0100EST			0	0	Blizzard
		2000EST					

An intensifying low lifting along the Atlantic coast reached the Gulf of Maine during the 6th...spreading snow across Downeast areas. The low became nearly stationary for a time before drifting southward again later on the 6th. The storm produced 5 to 10 inches of snow across coastal Downeast Maine. Sustained winds of 30 to 40 mph...with gusts of 50 to 60 mph...were reported along the coast. Wind gusts of 60 to 70 mph were reported offshore.

Blizzard conditions were reported with visibilities below a quarter mile and widespread blowing and drifting snow. Scattered power outages were also reported.

MEZ005>006-011-015>017-029>030

Northern Penobscot - Southeast Aroostook - Central Penobscot - Southern Penobscot - Interior Hancock - Interior Washington - Coastal Hancock - Coastal Washington

09		2200EST			0	0	Winter Storm
10		1700EST					

An intensifying low along the southern New England coast during the 9th...lifted northward along the Maine coast to the maritimes during the 10th. The storm generally produced 6 to 12 inches of snow. However...localized snowfall totals of 15 to 20 inches were reported across Downeast areas.

MEZ001>002-004>005-010

Northwest Aroostook - Northeast Aroostook - Northern Piscataquis - Northern Penobscot - Southern Piscataquis

13		1100EST			0	0	Winter Storm
14		1100EST					

Low pressure intensifying along the southern New England coast early on the 13th...lifted to Downeast Maine that night before lifting through New Brunswick during the 14th. The storm generally produced 6 to 9 inches of snow across the region...although localized totals of around 12 inches were reported across portions of northern Aroostook county.

MEZ001>002-004-006-010>011-017

Northwest Aroostook - Northeast Aroostook - Northern Piscataquis - Southeast Aroostook - Southern Piscataquis - Central Penobscot - Interior Washington

22		1200EST			0	0	Winter Storm
23		2200EST					

Storm Data and Unusual Weather Phenomena

March 2001

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

An intensifying low lifting along the Atlantic coast during the 22nd lifted through the Gulf of Maine during the 23rd. The storm generally produced 6 to 12 inches of snow across the region...although localized totals of around 18 inches were reported across portions of northern Piscataquis county.

Warmer air changed precipitation to sleet and rain after a little snow accumulation along the Downeast coast. A brief interval of stronger winds with some gusts in excess of 50 mph brought down some trees and powerlines along the immediate coast producing scattered power outages.

**MEZ001>002-
004>006-010>011-
015>017**

Northwest Aroostook - Northeast Aroostook - Northern Piscataquis - Northern Penobscot - Southeast Aroostook - Southern Piscataquis - Central Penobscot - Southern Penobscot - Interior Hancock - Interior Washington

30	1300EST						
31	2359EST						Winter Storm

Low pressure lifting along the Atlantic coast during the 30th slowly tracked through the Gulf of Maine to Nova Scotia during the 31st bringing a prolonged interval of snow to the region. The heaviest snows across Downeast areas fell from late on the 30th through early on the 31st. The heaviest snows across northern areas fell from the 31st through the early morning hours of April 1st. Snowfall totals generally ranged from 10 to 18 inches...although localized totals in excess of 20 inches were reported.

MAINE, South

**MEZ007-012>014-
018>028**

Northern Oxford - Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

05	0800EST						
06	2200EST						Heavy Snow

MEZ018>028

Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

06	1300EST						
	1900EST						Blizzard

A major winter storm brought blizzard conditions to much of western Maine as heavy snow and strong winds combined to produce near-zero visibility. An area of low pressure moved from the southeastern states on the morning of March 4th to off the Mid-Atlantic Coast by the morning of the 5th. The low continued to intensify as it moved slowly northeastward to just off Cape Cod by the morning of the 6th. The storm then tracked east into the Atlantic by the morning of the 7th. Many businesses and schools were closed due to the storm. In addition, a 1 to 2 foot storm surge combined with high astronomical tides to produce coastal flooding and beach erosion along the Maine coast south of Portland. Snowfall amounts from the storm generally ranged from several inches in the western mountains near the Canadian border to 20 inches or more along the coast. Several locations in York and Cumberland Counties reported around 2 feet of new snow while most locations southeast of the mountains had more than a foot of new snow from the storm. Blizzard conditions developed along and inland from the coast during the afternoon of the 6th.

MEZ018>028

Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

05	1900EST						
07	0100EST						Strong Winds

A powerful ocean storm moving north toward the Gulf of Maine on Monday evening, March 5, and Tuesday, March 6, brought strong, gusty, northeast winds to the coastal and southern interior sections of western Maine. Peak wind gusts were measured at 41 mph in Rockland and 40 mph in Portland and Sanford.

**MEZ007>009-
012>014-018>028**

Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

06	0000EST						
31	2359EST						Accumulated Snowfall

The accumulated weight of snow and mixed precipitation during March caused numerous buildings to collapse throughout western Maine. Although the major accumulating snow ended across the state in late March, problems with building collapses continued into mid April.

York County

Cape Neddick to Saco	06	0430EST					
		0830EST					Storm Surge

Cumberland County

South Portland to Portland	06	0630EST					
		0830EST					Storm Surge

Storm Data and Unusual Weather Phenomena

March 2001

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

Cumberland County

Scarborough to Portland	07	0800EST 0900EST			0 0	75K	Storm Surge
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York County

York Beach to Saco	07	0800EST 0900EST			0 0	110K	Storm Surge
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Low pressure developed off the New Jersey coast on March 5th, then moved slowly to the waters south of Cape Cod by the morning of the 6th. The system stalled off the southern New England coast on the afternoon of the 6th, and then drifted east of the Gulf of Maine on the 7th. The storm caused very strong northeasterly winds and high seas along coastal sections of northern New England. Seas at the Portland Weather Buoy reached 17 feet. Peak wind gusts in the coastal waters on the 6th reached 45 knots at the Isles of Shoals, 56 knots at Matinicus Rock, and 37 knots at the Portland Weather Buoy. On the 7th, peak winds reached 61 knots at Isles of Shoals, 60 kts at Matinicus Rock, and 39 kts at the Portland Weather Buoy. The Portland Harbor tide gage reached 12.0 foot on the 6th and 12.4 feet, on the 7th. Flood stage is 12 feet. The southwest coast, which is more susceptible to flooding on a northeast wind, bore the brunt of the storm surge and tidal flooding. Flooding and beach erosion were reported in York and Cumberland Counties. High water caused problems along Commercial Street in Portland and debris covered roads in Kennebunk where a family was evacuated. Water covered coastal roadway Route 1a in York, Cape Neddick, and Saco. A footbridge in Perkins Cove was destroyed.

MEZ012>014-018>028 Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

09	1500EST				0 0		Heavy Snow
10	1100EST						

An area of low pressure off the Mid-Atlantic coast on the 9th developed rapidly as it moved northeastward to near Nova Scotia by the morning of the 10th. Heavy snow developed over much of western Maine as the storm tracked northeastward. Snowfall amounts across western Maine ranged from near nothing in the mountains to more than a foot in parts of central Maine and in extreme southwestern Maine. Most areas south of the mountains received from 4 to 12 inches of snow.

MEZ007>009 Northern Oxford - Northern Franklin - Central Somerset

13	0600EST				0 0		Heavy Snow
14	0100EST						

MEZ012>014-018>028 Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

13	0600EST				0 0		Mixed Precipitation
14	0100EST						

A mixture of precipitation fell across the state as a warm front associated with an area of low pressure over the Great Lakes moved slowly northward in the Atlantic. Snowfall amounts ranged from 4 to 8 inches in the mountains to an inch or less along the immediate coast where the precipitation fell mostly as rain. Between the mountains and the coast, the precipitation fell as a mixture of snow, sleet, freezing rain, and rain, and most areas received between 2 and 4 inches of snow before the precipitation changed over to the mix.

MEZ018 Interior York

16	1600EST				1 0		Falling Snow/Ice
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A 51-year-old woman from South Berwick was killed when snow and ice slid off the high-pitched roof of her 2-story home and completely buried her. At the time, she was apparently shoveling snow off the outside deck when the snow and ice slid off the roof and fell 20 to 25 feet to the deck. F51OT

MEZ018>028 Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

22	0200EST 1800EST				0 0		Strong Winds
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A powerful ocean storm moving north toward the Gulf of Maine on Thursday, March 22, brought strong, gusty, northeast winds to the coastal and southern interior sections of western Maine. Peak wind gusts were measured at 46 mph in Sanford, 45 mph in Rockland, and 40 mph in Portland.

MEZ003-007>009-012>014-018>021 Northern Somerset - Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec

22	0200EST				0 0		Heavy Snow
23	2000EST						

MEZ022-024>026 Interior Waldo - Coastal Cumberland - Sagadahoc - Lincoln

22	0200EST				0 0		Moderate Snowfall
23	2000EST						

A deep area of low pressure moved very slowly northeastward from eastern North Carolina on the morning of the 21st to off southeastern New Jersey by the morning of the 22nd, then to southwest of Nova Scotia by the morning of the 23rd, and finally to New Brunswick by the 24th. Across the mountains and foothills the storm brought 1 to 2 feet of new snow with locally higher amounts. Along much of the coast, from 3 to 6 inches of snow fell. Along the York County coast, the precipitation was mostly in the form of rain with some snow at the

Storm Data and Unusual Weather Phenomena

March 2001

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

onset. In interior zones, generally, from 6 to 12 inches of snow fell.

York County

Berwick	22	1400EST			0	0	Flood
	23	0600EST					

York County

York Vlg	22	1400EST			0	0	Flood
	23	0600EST					

The coastal storm that brought heavy snow to much of western Maine dropped 2 to 5 inches of rain in the southwestern part of the state. Small rivers and streams overflowed their banks resulting in flooded roads and washouts. Melting snow also contributed to the runoff problem. Many basements were reported flooded.

MEZ007>009-012>014-018>022-024>028

Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Southern Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo

30	0600EST				0	0	Heavy Snow
31	0900EST						

Low pressure off the Delmarva peninsula on the morning of the 30th intensified as it moved northeast during the day reaching southern Nova Scotia by the morning of the 31st. The low brought heavy snow to all of the state except coastal York county where the precipitation fell mostly as rain. Snowfall amounts generally ranged from 10 to 18 inches with 6 to 10 inches along the coast from Portland northward where the precipitation mixed with rain.

MARYLAND, Central

MDZ002

Allegany

04	1400EST				0	0	Winter Storm
05	1000EST						

MDZ003>007-009-011

Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Southern Baltimore

04	1400EST				0	0	Winter Weather
05	1200EST						

A Nor'easter formed off the coast of North Carolina and moved northward along the Atlantic seaboard on the 4th and 5th. This storm brought moisture onshore and resulted in two days of precipitation across the Mid Atlantic area. As the storm passed by the Delmarva Peninsula a strong easterly wind pushed tides along the western shore of the Chesapeake Bay about 2 feet above normal which resulted in minor flooding at high tide from late evening on the 4th through the early morning hours of the 5th. Because temperatures were above freezing for most of the storm, a majority of the precipitation fell as rain, especially south and east of Washington D.C. and Baltimore. North and east of Baltimore and Washington D.C. to Hagerstown and average of 1.5 to 3 inches of snow was recorded and a brief period of sleet was also noted. In the high terrain of northwest Frederick County, 5.8 inches of snow fell. From Hagerstown to Frostburg, a total of 3 to 5 inches of snow accumulated. From Frostburg to the Garrett/Allegany border, a period of lake effect snow following the main storm on the 6th left an additional 5 inches along the ridges. Frostburg ended up with a grand total of 9.5 inches. After the precipitation from the Nor'easter ended, northwest winds gusted up to 40 MPH during the afternoon and evening of the 5th.

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

06	0900EST				0	0	Strong Wind
07	0400EST						

Strong low pressure over New England brought gusty northwest winds between 35 and 50 MPH to the Mid Atlantic region from the morning of the 6th through the early morning hours of the 7th. Recorded wind gusts included 51 MPH at Andrews Air Force Base in Prince George's County, 49 MPH at Tall Timbers in St. Mary's County, 41 MPH at Cumberland in Allegany County, and 40 MPH at Baltimore/Washington International Airport, Laurel in Howard County, and Martin State Airport just east of Baltimore.

Washington County

Smithsburg	13	2113EST			0	0	5K Thunderstorm Wind (G56) ^M
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Trees and power lines were downed by a wind gust of 64 MPH.

Frederick County

Countywide	13	2120EST 2130EST			0	0	5K Thunderstorm Wind
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Trees and wires were downed.

Frederick County

Frederick	13	2120EST 2125EST			0	0	10K Thunderstorm Wind (G52)
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Several trees and power lines were downed by winds estimated at 60 MPH.

Frederick County

Frederick Arpt	13	2125EST			0	0	Funnel Cloud
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Two funnel cloud reports were received via dispatch near the airport.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MARYLAND, Central							
Montgomery County							
Countywide	13	2130EST 2200EST			0 0	15K	Thunderstorm Wind
		Numerous trees were downed.					
Montgomery County							
Damascus	13	2145EST			0 0		Thunderstorm Wind (G57)
		A wind gust of 65 MPH was estimated.					
Carroll County							
Countywide	13	2150EST			0 0	5K	Thunderstorm Wind
		Trees were downed.					
Howard County							
Countywide	13	2150EST			0 0	5K	Thunderstorm Wind
		Thirteen trees were downed.					
Prince George'S County							
Countywide	13	2158EST 2225EST			0 0	5K	Thunderstorm Wind
		Trees and wires were damaged.					
Anne Arundel County							
Countywide	13	2200EST 2220EST			0 0	2K	Thunderstorm Wind
		Tree and wire damage was reported.					
Charles County							
Countywide	13	2200EST 2220EST			0 0	2K	Thunderstorm Wind
		Trees were downed.					
Baltimore County							
Parkton	13	2205EST			0 0		Thunderstorm Wind (G50) ^M
		A wind gust of 58 MPH was reported.					
Baltimore City (C)							
Baltimore	13	2205EST			0 0	5K	Thunderstorm Wind
		Trees and power lines were downed.					
Calvert County							
Chesapeake Beach	13	2220EST			0 0	2K	Thunderstorm Wind (G52)
		Winds estimated at 60 MPH downed trees.					
Anne Arundel County							
Crownsville	13	2225EST			0 0		Lightning
		Lightning struck a home.					

A line of showers and a few thunderstorms moved across North Central and South Central Maryland between 9 and 11 PM on the 13th. These storms produced winds in excess of 55 MPH and pea sized hail. In Allegany County, a wind gust of 39 MPH was recorded in Cumberland. In Washington County, a wind gust of 64 MPH downed trees and power lines in Smithsburg. In Frederick County, several trees were downed in Frederick by winds estimated at 60 MPH. Two people in town reported seeing a funnel cloud. Trees and power lines were also downed across the county. Across Carroll County, trees were downed onto roads and a car. A chimney was also toppled. Measured wind gusts included 48 MPH in Millersville, 44 MPH in Westminster, and 42 MPH in Millers. In Baltimore County, winds gusted to 58 MPH in Parkton and 40 MPH in Owings Mills. Trees and power lines were downed across the city of Baltimore. Across Harford County, a few branches were downed. Across Howard County, thirteen trees were downed. Winds gusted to 55 MPH in Laurel and 50 MPH in Ellicott City.

Across Montgomery County, trees were downed in Silver Spring, Bethesda, and Chevy Chase. A wind gust of 65 MPH was estimated in Damascus. Across Prince George's County, trees and wires were downed. A gust of 56 MPH was recorded at Andrews Air Force Base and winds gusted to 46 MPH in South Bowie. Across Anne Arundel County, trees and wires were downed. One tree fell onto a home in Severna Park. Lightning struck a home in Crownsville. Winds gusted to 43 MPH at Baltimore/Washington International Airport and 50 MPH at Rivera Beach. In Calvert County, winds estimated at 60 MPH downed trees in Chesapeake Beach and elsewhere across the county. Across Charles County, trees were downed including one which fell onto a home in Bryans Road. In St. Mary's County, a wind gust of 56 MPH was reported at Tall Timbers and a gust of 47 MPH was reported in Hollywood.

Storm Data and Unusual Weather Phenomena

March 2001

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

**Anne Arundel
County**

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Baltimore County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Baltimore City (C)

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Calvert County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Carroll County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Charles County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Harford County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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Howard County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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MDZ002

Allegany

21		0000EST 1400EST			0 0		Winter Weather
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Montgomery County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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**Prince George'S
County**

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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St. Mary'S County

Countywide	21	0000EST 1400EST			0 0		Heavy Rain
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**MDZ003-006-009-014- Washington - Northern Baltimore - Montgomery - Anne Arundel - St. Mary'S
017**

21		0700EST 1600EST			0 1	110K	Strong Wind
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A Nor'easter moved from the North Carolina coast to New England from the 20th to the 22nd. As it passed by the Mid Atlantic region, it dropped heavy precipitation between midnight and mid afternoon on the 21st. From Washington County eastward, the precipitation fell in the form of rain and totaled between 1 and 2.5 inches. A rain/snow mix fell across Allegany County. Two inches of snowfall was reported in Frostburg. After the precipitation ended on the 21st, northwest winds gusted between 35 and 50 MPH. Recorded gusts included 52 MPH at Parkton in Baltimore County, 51 MPH at Smithsburg in Washington County, 43 MPH at Tall Timbers in St. Mary's County, 41 MPH at Hagerstown, and 40 MPH at Baltimore/Washington International Airport. In Montgomery County, high winds toppled a tree onto a passing car in Bethesda, injuring the driver. High wind also downed trees onto a home in both Colesville and Silver Spring. In Baltimore County, tree limb and power line damage was reported. In Anne Arundel County, a 60 foot tree fell onto a home in Maryland City and caused extensive damage. A live power line was downed onto a dump truck in Gambrills, trapping the driver. Across the county, 8 power lines were downed by high winds and 2000 customers lost power. In Washington County, the cap blew off the back of a pickup truck and was carried 500 feet near Smithsburg. In addition, several trees were downed, a small silo blew apart, and some shingles were blown off a home.

**Anne Arundel
County**

Countywide	29	1000EST			0 0		Heavy Rain
	30	1000EST					

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MARYLAND, Central							
Baltimore County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Baltimore City (C)							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Calvert County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Carroll County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Charles County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Frederick County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Harford County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Howard County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Montgomery County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Prince George'S County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Washington County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					

Low pressure brought a period of heavy rainfall to the Mid Atlantic region between the morning of the 29th and the morning of the 30th. Between 1.5 and 2.5 inches of rain was recorded.

MARYLAND, Northeast

MDZ008

Cecil

04 0700EST
05 1400EST

0 0

Wintry Mix

An intensifying low pressure system brought a wintry mix of precipitation to Cecil County on the 4th and 5th. Precipitation began as rain across the county around daybreak on the 4th. As precipitation intensity increased and a high pressure system built into northern New England, a mixture of rain, sleet and snow fell across the region during the afternoon and night. Toward daybreak on the 5th, enough cold air had moved south to change the rain to freezing rain, especially across the northern half of the county. As colder air moved in aloft, the freezing rain and sleet changed to all snow for several hours around midday on the 5th. As the low retrograded a bit on Tuesday the 6th, another period of light snow or flurries moved through the county during the daytime hours. Throughout this event, ground temperatures were relatively warm and the snow had a difficult time accumulating. Total accumulations were generally an inch or less.

The low pressure system developed over the western Gulf of Mexico on the 3rd. By the morning of the 4th, the surface low had moved northeast into eastern Tennessee. The low continued to move northeast and was over the Delmarva coastal waters on the morning of the 5th. It then began to intensify as it moved toward Cape Cod. An upper level low then captured the surface system and dragged it westward (retrograded) toward the coast on the 6th before it headed east for good on the 7th.

**MDZ012-015-
019>020-020**

Kent - Queen Annes - Talbot - Caroline

05 1000EST
06 1800EST

0 0

Snow

An intensifying low pressure system that moved slowly off the Delmarva Peninsula on the 5th and looped back toward the coast on the 6th brought a couple of periods of snow to the Eastern Shore on the 5th and 6th. On the 5th, as colder air moved into the region, the rain changed to sleet and snow during the midday hours. A burst of heavier snow prompted school officials to dismiss children early in Caroline

Storm Data and Unusual Weather Phenomena

March 2001

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

and Talbot Counties. Some minor traffic accidents also occurred. Snow ended by the evening of the 5th with accumulations of an inch or less. Wraparound snow as the storm retrograded toward the coast affected the Eastern Shore again on the 6th with the heaviest snow in Caroline County. Students were sent home early in Caroline County again. Accumulations were an inch or less.

Talbot County

St Michaels	13	2240EST			0 0	0	Thunderstorm Wind (G57) ^M
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The gust front from a line of severe thunderstorms that moved through the western shore of Chesapeake Bay moved through Saint Michaels during the evening of the 13th. A wind gust to 65 mph was measured. The winds damaged one roof, uprooted several trees, and mangled patio furniture. No injuries were reported.

Caroline County

Countywide	21	0400EST 1500EST			0 0		Heavy Rain
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Talbot County

Countywide	21	0400EST 1500EST			0 0		Heavy Rain
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A low pressure system that developed along the Gulf Coast brought heavy rain, particularly to southern areas of the Eastern Shore on the 21st. Rain began before sunrise on the 21st and fell heavy at times during the morning and early afternoon. This caused ponding of water in poor drainage areas, but no serious flooding. The rain ended during the afternoon. The intensifying low pressure system also produced strong northeast winds, with peak wind gusts of between 40 and 45 mph reported. Storm totals included 2.20 inches in Federalsburg (Caroline County), 2.07 inches in Royal Oak (Talbot County) and 1.24 inches in Stevensville (Queen Anne's County).

The low pressure system developed in the Gulf of Mexico on the 19th and moved slowly northeast. It reached Georgia the morning of the 20th, North Carolina the morning of the 21st and was about 100 miles east of the New Jersey coast by the morning of the 22nd.

MDZ008-012-015-019>020

Cecil - Kent - Queen Annes - Talbot - Caroline

	26	0300EST 0800EST			0 0		Snow
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A vigorous upper air disturbance produced snow showers across the Maryland Eastern Shore during the early morning of the 26th. Accumulations averaged between 1 and 3 inches. Secondary and tertiary roadways were slippery, mainly before sunrise. Specific accumulations included 3.5 inches in Federalsburg (Caroline County), 2.5 inches in Galena (Kent County), 1 inch in Easton (Talbot County) and 0.8 inches in Stevensville (Queen Anne's County). This was the last widespread measurable snow of the season for the Eastern Shore.

Cecil County

Countywide	29	1000EST			0 0		Heavy Rain
	30	0800EST					

Kent County

Countywide	29	1000EST			0 0		Heavy Rain
	30	0800EST					

Queen Anne'S County

Countywide	29	1000EST			0 0		Heavy Rain
	30	0800EST					

Talbot County

Countywide	29	1000EST			0 0		Heavy Rain
	30	0800EST					

Heavy rain fell across most of the Maryland Eastern Shore on the 29th and 30th. Light rain began falling during the morning of the 29th and fell heavy at times the evening of the 29th and the first couple of hours of the 30th. The rain ended by mid morning on the 30th. There was ponding of water in low lying and poor drainage areas. There were no reports of serious flooding. Storm totals averaged near 2 inches. Specific storm totals included 2.06 inches in Easton (Talbot County), 1.89 inches at the Conowingo Dam (Cecil County) and 1.83 inches in Stevensville (Queen Anne's County). A low pressure system developed over the Gulf of Mexico the night of the 28th. By the morning of the 29th, it moved northeast into the Florida Panhandle and by the morning of the 30th, it reached the Delmarva Peninsula. The low moved offshore that morning and by the morning of the 31st was located near Nova Scotia.

MARYLAND, South

NONE REPORTED.

MARYLAND, West

MDZ001

Garrett

	04	1600EST			0 0		Winter Storm
	05	0800EST					

A winter storm moving up the Tennessee Valley spread a mix of freezing rain, sleet, and snow to the far western sections of the Maryland panhandle. Freezing rain accumulations of over ¼ inch were reported by the afternoon of the 4th at several locations across Garrett County

Storm Data and Unusual Weather Phenomena

March 2001

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

before the precipitation turned over to all snow. By the early morning hours of the 5th, between 1-3 inches of snow were reported over the lower elevations, while 3-6 inches accumulated along the higher ridges.

MDZ001

Garrett

06	0500EST 1400EST				0	0	Winter Storm
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Just one day after a strong winter storm brought several inches of snow to the area, strong northwest flow on the backside of the low produced additional orographically enhanced snowfall of between 3 and 6 inches along the ridges of Garrett county in western Maryland.

MASSACHUSETTS, Central and East

MAZ007-015>016- 019-022>024

Eastern Essex - Suffolk - Eastern Norfolk - Eastern Plymouth - Barnstable - Dukes - Nantucket

05	0800EST				0	0	15M	Coastal Flooding
06	1100EST							

MAZ020>022-024

Southern Bristol - Southern Plymouth - Barnstable - Nantucket

05	1200EST				0	0		High Wind (G50)
06	2100EST							

MAZ002>019

Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Eastern Essex - Western Hampshire - Western Hampden - Eastern Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth

05	1300EST				0	0		Heavy Snow
06	2300EST							

A major winter storm impacted the Bay State with near blizzard conditions, high winds, and coastal flooding. The slow-moving storm, which tracked south of New England, dumped over two feet of snow across the interior, knocked out power to about 80,000 customers, and shut down businesses and schools for several days. There were also many reports of downed trees and wires during the height of the storm, along with reports of lightning and thunder. Hundreds of flights at Logan International Airport were canceled, as were flights at other nearby airports. In magnitude, it was the worst storm to affect the state since 1992, and a state of emergency was in effect for three days. After the storm, the weight of the heavy wet snow caused several roof collapses throughout the state, most notably at a church in Westford. No injuries were reported. Damage from this storm was estimated to be in the tens of millions of dollars.

The highest snowfall totals were reported from the east slopes of the Berkshires across Worcester County and into northeast Massachusetts, where amounts of 15 to 30 inches were common. Greater Boston received between 12 and 22 inches of snow, but Logan International Airport received 9.8 inches from this storm. Amounts in southeast Massachusetts ranged from 2 to 4 inches along the immediate coast to as much as a foot farther inland. Other official totals include 23 inches at the Blue Hills Observatory in Milton, 22 inches at Worcester Airport, and 9.5 inches at the National Weather Service in Taunton.

Powerful northeast winds affected much of east coastal and southeast Massachusetts. Speeds of 50 to 60 mph were widely observed and caused damage to trees and power lines, especially on Cape Cod and the islands. Some unofficial gusts reported by spotters include 64 mph in Wareham, 61 mph in Fairhaven, and 60 mph at Nauset Beach in Orleans. At Chatham Municipal Airport, winds gusted to 63 mph.

High tides during the storm ran 2 to 3 feet above normal, resulting in widespread coastal flooding along the entire east facing coastline, including Cape Cod and the islands. The strong surf slammed sea walls and flooded beachfront homes and roadways, and damaged a part of the sea wall in Winthrop. In Marblehead, Ocean Avenue and Front Street were flooded, as was Nahant Road in Nahant. In Winthrop, Winthrop Shore Drive, Shirley Avenue, and Moore and Charles Streets were flooded. Flood waters also impacted the Jamaicaaway in Boston and Quincy Shore Drive in Quincy. In Hull, flooding affected Gun Rock, Atlantic, and Nantasket Avenues while in Scituate, flooding affected Turner and Jericho Roads as well as 5th, 6th, and 7th Avenues. In its wake, the flooding left behind piles of seaweed, pieces of deck and lawn furniture, and even lobsters and fish.

MAZ002>014

Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Eastern Essex - Western Hampshire - Western Hampden - Eastern Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex

09	1500EST				0	0	3M	Heavy Snow
10	0800EST							

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of interior Massachusetts. The highest snowfall totals were found in the higher elevations of central and northeast Massachusetts, where around one foot of snow fell. Other areas, including Greater Boston, received 4 to 8 inches of snow on average.

MAZ005-005-005-005- 005-012>013-013

Western Middlesex - Southern Worcester - Western Norfolk

22	0600EST				0	0		Flood
31	2359EST							

Sudbury River at Saxonville

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MASSACHUSETTS, Central and East							
Middlesex County							
Waltham to	22	1022EST			0	0	Flood
Winchester	25	0115EST					
Norfolk County							
Weymouth	22	1108EST			0	0	Flood
	23	0308EST					
Essex County							
Methuen to	22	1815EST			0	0	Flood
Ipswich	28	2100EST				10M	
Bristol County							
Norton	22	2245EST			0	0	Flood
	23	1215EST					
<p>Widespread flooding occurred on rivers and streams in eastern Massachusetts as a result of melting snow and heavy rainfall. The most severe flooding occurred in the Merrimack Valley, where flood damage was estimated at ten million dollars. Federal assistance was made available for residents of Essex, Middlesex, Suffolk, Norfolk, Bristol, and Plymouth Counties.</p> <p>Record flooding occurred on the Aberjona River in Winchester, where the crest of 16.80 feet exceeded the crest of 16.78 feet which occurred on October 21, 1996. This was the worst flooding to strike the Merrimack Valley since the October, 1996 flood and was comparable in magnitude. In the Charles and Neponset basins, flooding was similar to the June, 1998 flood, though the severity of urban flooding was much less.</p> <p>The Nashua River at East Pepperell crested at 9.5 feet at 545 pm on the 24th (flood stage is 8 feet). The Concord River at Lowell crested at 8.94 feet at 115 am on the 26th (flood stage is 8 feet). The Assabet River at Maynard crested at 6.41 feet at 11am on the 23rd (flood stage is 5 feet). The Shawsheen River at Wilmington crested at 9.87 feet at 10 am on the 23rd (flood stage is 7 feet). The Sudbury River at Saxonville crested at 12.61 feet at 715 am on the 23rd (flood stage is 10 feet). The Blackstone River at Northbridge crested at 9.22 feet at 530 pm on the 22nd (flood stage is 9 feet). The Charles River at Dover crested at 6.97 feet at 11 pm on the 25th (flood stage is 5 feet). The Neponset River at Norwood crested at an estimated 10.2 feet at 11 pm on the 22nd (flood stage is 9 feet).</p>							
MAZ013-016>022 Western Norfolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable							
	26	1600EST			0	0	250K Heavy Snow
	27	0300EST					
<p>A small but fast moving storm brought heavy snow to southeast Massachusetts, as it moved off the coast south of Long Island. Snowfall totals of 5 to 10 inches were widely reported from the southern suburbs of Boston to Cape Cod. As much as 10.6 inches of snow fell in Fairhaven.</p>							
Middlesex County							
Waltham	30	1315EST			0	0	Flood
	31	1715EST					
Charles River at Waltham							
MAZ007-016-022-024 Eastern Essex - Eastern Norfolk - Barnstable - Nantucket							
	30	1400EST			0	0	Strong Wind
	31	0200EST					
MAZ015 Suffolk							
	30	1601EST			0	0	High Wind (G50)
Barnstable County							
Sandwich	30	2200EST			0	0	Heavy Rain
	31	1400EST					
Bristol County							
Fairhaven	30	2200EST			0	0	Heavy Rain
	31	1400EST					
MAZ002>006-008 Western Franklin - Eastern Franklin - Northern Worcester - Western Middlesex - Western Essex - Western Hampshire							
	30	2200EST			0	0	8M Heavy Snow
	31	1400EST					
Norfolk County							
Randolph	30	2200EST			0	0	Heavy Rain
	31	1400EST					
Plymouth County							
Plymouth	30	2200EST			0	0	Heavy Rain
	31	1400EST					

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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MASSACHUSETTS, Central and East

MAZ005

Western Middlesex

31 0000EST 2359EST 0 0 Flood

Assabet River at Maynard

Bristol County

**Norton to
South Dartmouth**

31 0615EST 2359EST 0 0 Flood

Wading River at Norton and Paskamanset River at S Dartmouth

A storm system brought heavy snow to portions of interior Massachusetts, heavy rain and strong winds closer to the coast, and renewed flooding on some rivers and streams in eastern Massachusetts.

Snowfall accumulations were confined to the higher terrain of western, central, and northeast Massachusetts where around one foot of snow fell. As much as 15 inches fell in Ashburnham, 12 inches in Leyden and Shelburne, and 11 inches in Shirley. The lower elevations reported snowfall totals between 3 and 6 inches on average. In general, accumulating snows fell along and outside of the Interstate 495 corridor.

Strong northeast winds buffeted the coast, averaging between 40 and 50 mph over land. Logan International Airport in Boston reported a sustained 40 mph wind around 5 pm. In Massachusetts Bay, a Boston pilot boat reported winds of 50 to 55 knots with a gust to 65 knots around 6 pm. Seas were in excess of 20 feet at that time.

Heavy rain fell across much of southeast Massachusetts, where many places in Norfolk, Bristol, Plymouth, and Barnstable Counties reported rainfall totals of 3 to 5 inches. As much as 6.21 inches of rain fell in Fairhaven, 5.74 inches in New Bedford, 4.25 inches in Sandwich, and 3.65 inches in Plymouth.

The heavy rain caused renewed minor flooding on some rivers in eastern Massachusetts, primarily since river flows were still high after the flooding from the past week. The most serious flooding occurred on the Paskamanset River in South Dartmouth, where several roads were closed by flood waters. The river crested at 14.31 feet at 1230 pm on the 31st (flood stage is 14 feet).

MASSACHUSETTS, West

MAZ001

Berkshire

05 1400EST 0 0 Winter Storm

A large storm center formed off the mid Atlantic coast on the morning of March 5. The low proceeded slowly to the north, off the DelMarVa peninsula, then the coast of New Jersey, and reached just south of central Long Island by late in the day. During the overnight hours, a strong upper level disturbance, diving south from the eastern Great Lakes, added energy to the storm helping it to temporarily track to the west and nearly stall near New York city. The cyclone then pulled to the southeast, away from Long Island later on March 6. This storm became the biggest nor'easter of the winter season as it produced an extended period of moderate to heavy snow across Berkshire County. One to two feet of snow fell across the region. A little sleet and even freezing rain mixed in during the day Monday. Specific snowfall reports included 17.9 inches at Williamstown and 24.9 inches at Savoy.

Besides the usual school closings and some business closings, no unusual problems were reported to the National Weather Service with this storm.

MAZ001

Berkshire

09 1800EST 2200EST 0 0 Winter Storm

Just as western Massachusetts had recovered from the big snowstorm, another nor'easter moved up the coast, forming off the Jersey coast early on March 9th, and reaching Cape Cod shortly after midnight. This storm was not nearly as powerful as its predecessor, nor did it include as much moisture. Snowfall amounts were somewhat elevation dependent and the snow had a high moisture content. A 6-12 inch swath of snow fell across Berkshire county. Specific amounts included 7 inches at Lanesboro, 10 at West Otis and 11.5 in the town of Florida.

MAZ001

Berkshire

30 0900EST 2000EST 0 0 Winter Storm

An area of low pressure formed over southeastern Pennsylvania early on March 29th. This storm tracked northeast, off the New Jersey coast, to become the fourth and final nor'easter of March. By the end of the day, this low pressure was centered north of Cape Cod. The storm was weak, however it tapped into a rich supply of Atlantic moisture. While a mix of snow sleet and rain fell in valley locations, very wet heavy snow once again buried portions of the higher terrain of Berkshire County. Specific amounts included 11.5 inches at Savoy and 13.5 in Florida.

MICHIGAN, East

MIZ049-055-063-075

Huron - Sanilac - St. Clair - Washtenaw

05 1200EST 06 0200EST 0 0 Snow

A potent storm system off the east coast provided a cold, northerly wind across the Great Lakes. A strong upper level disturbance was also present over the Great Lakes. Widespread snow showers were the result, with lake enhancement occurring near Lake Huron. Though all of southeast Michigan received snow, the shoreline counties of the Thumb got the worst of it. Four inches of snow fell in Port Hope,

Storm Data and Unusual Weather Phenomena

March 2001

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

with one report of hail up to one foot deep in Sumrall. Numerous homes, buildings, and cars sustained damage from this significant hail storm.

Adams County

Countywide	01	2000CST 2200CST			0	0	Flash Flood
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Minor flooding was reported in various portions of the county.

Forrest County

1 N Petal	01	2028CST 2030CST			0	0	Hail (0.75)
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Jones County

2 S Overt	01	2043CST			0	0	Hail (0.88)
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Covington County

Countywide	01	2300CST 02 0000CST			0	0	Flash Flood
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Minor flooding of roads occurred in various portions of the county.

Lincoln County

Countywide	01	2300CST 02 0000CST			0	0	Flash Flood
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Minor flooding of roads occurred in various portions of the county.

Covington County

Countywide	02	0130CST 0300CST			0	0	10K	Flash Flood
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Several roads had to be closed due to flooding over the roadway.

Adams County

Countywide	02	0200CST 0400CST			0	0	10K	Flash Flood
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With nearly 7 inches of rain recorded in the previous 24 hours, a number of roads became flooded.

Jones County

Countywide	02	0300CST 0400CST			0	0	12K	Flash Flood
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Water covered numerous secondary roads.

Adams County

Countywide	02	1000CST 1400CST			0	0	30K	Flash Flood
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A total rainfall event accumulation of nearly 8.5 inches caused an increasing number of roads to flood. Mudslides occurred on several hillsides near the Mississippi River, and several trees were knocked down in the mudslides. The primary damage from this event was to roads in the county.

Franklin County

Countywide	02	1000CST 1400CST			0	0	10K	Flash Flood
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Flooding of roads occurred around Meadville, and in various portions of the county. Highway 556 was closed due to water covering the road.

Claiborne County

Countywide	02	1020CST 1500CST			0	0	100K	Flash Flood
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Several roads in the county were closed due to water on the roads. Many streets were flooded. Several homes had flood damage.

Jefferson County

Stampley	02	1145CST 1430CST			0	0	8K	Flash Flood
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Flooding occurred on roads in the Stampley area.

Jones County

Sandersville	02	1330CST			0	0	25K	Thunderstorm Wind
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High winds caused structural damage to a mobile home. A number of trees and power lines were blown down.

Copiah County

Countywide	02	1350CST 1600CST			0	0	100K	Flash Flood
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Many roads were flooded. A bridge was washed out on Shady Grove Road.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, Central</u>							
Simpson County							
Mendenhall	02	1430CST 1630CST			0 0	5K	Flash Flood
Numerous roads sustained flooding. A few roads were closed.							
Marion County							
10 E Columbia	02	1449CST			0 0	1K	Thunderstorm Wind
A few trees were blown down in rural eastern portions of the county.							
Covington County							
Collins	02	1500CST 1700CST			0 0		Flash Flood
Flooding of several roads occurred, mainly in the Collins area.							
Jones County							
4 W Ovett to Ovett	02	1500CST 1515CST			0 0	5K	Thunderstorm Wind
Many trees and power lines were blown down in southeastern portions of the county.							
Lawrence County							
Monticello	02	1500CST 1600CST			0 0		Flash Flood
Minor flooding occurred on roads in the Monticello area.							
Lincoln County							
Countywide	02	1500CST 1600CST			0 0		Flash Flood
Flooding occurred on a few roads.							
Smith County							
Countywide	02	1500CST 1630CST			0 0	5K	Flash Flood
Water covered portions of a few roads. County Road 136 was closed due to flooding.							
Clarke County							
3 E Shubuta	02	1527CST			0 0	1K	Thunderstorm Wind
A few trees were blown down along County Road 212.							
Forrest County							
Hattiesburg	02	1530CST 1730CST			0 0		Flash Flood
Localized flooding of roads occurred in western portions of the city.							
Jefferson Davis County							
Prentiss	02	1530CST 1630CST			0 0		Flash Flood
Minor road flooding occurred around the Prentiss area.							
Lamar County							
Hattiesburg	02	1530CST 1800CST			0 0		Flash Flood
Localized flooding occurred on the streets in various portions of the city.							
Marion County							
Countywide	02	1530CST 1730CST			0 0		Flash Flood
Minor flooding occurred on various roads in the county.							
Adams County							
Countywide	02	1600CST 2230CST			0 0	25K	Flash Flood
A significant amount of additional rainfall added to already flooded conditions in the area to produce more flooding of roads and fields. Flood waters were close to entering several homes.							
Jasper County							
Countywide	02	1600CST 1700CST			0 0	5K	Flash Flood
A few roads sustained minor flooding.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, Central</u>							
Jones County							
Countywide	02	1600CST 1730CST			0 0		Flash Flood
							Minor flooding occurred on several roads.
Copiah County							
Countywide	02	1605CST 1930CST			0 0		Flash Flood
							Minor flooding occurred on various roads in the county.
Lincoln County							
Countywide	02	1615CST 1900CST			0 0	30K	Flash Flood
							Significant flooding occurred across much of the county. Over a dozen roads and several bridges were closed. One bridge was washed out.
Claiborne County							
Countywide	02	1630CST 1900CST			0 0		Flash Flood
							Additional rainfall caused continued flooding of roads in the county.
Covington County							
Countywide	03	0230CST 0630CST			0 0		Flash Flood
							Many roads were becoming flooded from continued rainfall on saturated ground.
Jasper County							
Countywide	03	0300CST 0600CST			0 0		Flash Flood
							Additional rainfall continued to produce flooding of several county roads.
Marion County							
Countywide	03	0400CST 0600CST			0 0		Flash Flood
							A few roads in the county had flooding.
Lincoln County							
Countywide	03	0715CST 1015CST			0 0	20K	Flash Flood
							Additional rainfall produced continued flooding of roads and bridges in the county with up to two dozen roads and six bridges closed.
Covington County							
Countywide	03	0730CST 1045CST			0 0		Flash Flood
							Additional rainfall on saturated roads produced more flooding of roads in the county.
Jefferson Davis County							
Countywide	03	0800CST 1000CST			0 0		Flash Flood
							Several roads were flooded.
Marion County							
Countywide	03	0800CST 1000CST			0 0		Flash Flood
							Additional rainfall produced continued flooding of several roads.
Lamar County							
Countywide	03	0900CST 1015CST			0 0		Flash Flood
							Flooding occurred on several roads.
Jasper County							
Countywide	03	0930CST 1115CST			0 0		Flash Flood
							Several roads in the county were flooded from continued rainfall.
Covington County							
Countywide	03	1100CST 1400CST			0 0		Flash Flood
							Additional roads became flooded from continued rainfall in the county.

Storm Data and Unusual Weather Phenomena

March 2001

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

Jefferson Davis County

Countywide	03	1100CST 1400CST			0 0	10K	Flash Flood
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Additional rainfall caused more flooding of roads with several roads closed.

Lamar County

Countywide	03	1100CST 1400CST			0 0		Flash Flood
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A few roads experienced minor flooding from continued rainfall.

Lincoln County

Countywide	03	1100CST 1400CST			0 0		Flash Flood
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Numerous roads and bridges continued to be flooded due to additional rainfall.

Marion County

Countywide	03	1100CST 1400CST			0 0		Flash Flood
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Minor street flooding occurred in various portions of the county.

Forrest County

Hattiesburg	03	1200CST 1400CST			0 0		Flash Flood
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Several roads flooded, mainly southeast of Hattiesburg.

Jones County

Countywide	03	1200CST 1400CST			0 0		Flash Flood
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Minor street flooding occurred in various portions of the county.

Madison County

Gluckstadt	03	1330CST 1630CST			0 0		Flash Flood
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Several roads flooded in the Gluckstadt area.

Copiah County

Countywide	03	1400CST 1600CST			0 0		Flash Flood
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Flooding occurred on a few roads across the county.

Covington County

Countywide	03	1415CST 1700CST			0 0	10K	Flash Flood
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Numerous roads were flooded from the continued rainfall. At least 10 roads had to be closed due to flooding.

Forrest County

Countywide	03	1415CST 1800CST			0 0		Flash Flood
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Several roads flooded from continued rainfall over saturated ground.

Jefferson Davis County

Countywide	03	1415CST 1730CST			0 0		Flash Flood
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Several roads remained closed and water covered additional roads due to the continued flooding rains.

Jones County

Countywide	03	1415CST 1800CST			0 0		Flash Flood
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Minor flooding occurred on the roads in various portions of the county.

Lamar County

Countywide	03	1415CST 1700CST			0 0		Flash Flood
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Flooding occurred on several roads from continued periods of heavy rainfall.

Lauderdale County

Countywide	03	1415CST 1800CST			0 0		Flash Flood
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Flooding occurred on several low lying roads. One road was closed due to the high water.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MISSISSIPPI, Central							
Marion County							
Countywide	03	1415CST 1700CST			0 0		Flash Flood
Additional rainfall on saturated ground produced continued minor street flooding.							
Jasper County							
Countywide	03	1430CST 1800CST			0 0		Flash Flood
Flooding continued on several roads due to additional rainfall.							
Smith County							
Countywide	03	1500CST 1630CST			0 0		Flash Flood
A few roads in the county were flooded.							
Rankin County							
Richland	12	0237CST			0 0		Hail (0.75)
Hinds County							
Raymond to 3 SW Jackson	12	0240CST 0255CST			0 0	100K	Hail (1.75)
Numerous reports of large hail were received for this event. The first reports included golfball sized hail at a local television station several miles southwest of Jackson, and 1 inch hail in Raymond reported by Hinds County emergency management. These large hail events occurred around 2:40 AM. Reports ranging from dime to half dollar sized hail were reported in the city of Jackson between 2:50 and 2:55 AM by sources from emergency management and by ham radio operators. Based on the many reports of 1 to 1.75 inch diameter hail in populated areas of northeast Hinds County and the city of Jackson, damage costs to roofs of homes and cars were estimated to be around \$100,000.							
Rankin County							
1 E Brandon	12	0250CST			0 0		Hail (0.75)
Madison County							
Madison	12	0305CST			0 0		Hail (0.88)
Rankin County							
Flowood	12	0310CST			0 0		Hail (0.75)
Dime sized hail reported near Thompson Field in Rankin County.							
Leake County							
Walnut Grove	12	0345CST			0 0	10K	Hail (1.00)
Quarter sized hail caused minor roof damage.							
Marion County							
Goss	12	0350CST			0 0	25K	Lightning
Lightning struck a house and caused a fire.							
Lamar County							
4 NW Lumberton	12	0418CST			0 0	1K	Thunderstorm Wind
A few trees were blown down in a rural area.							
Adams County							
Kingston	12	0800CST			0 0	15K	Thunderstorm Wind
Several trees and power lines were blown down. One house had structural damage. Some roofing was torn off of several houses.							
Jefferson County							
Fayette	12	0805CST			0 0	2K	Thunderstorm Wind
A tree and several power lines were blown down.							
Marion County							
Foxworth	12	0830CST			0 0	8K	Hail (1.00)
Up to quarter sized hail caused minor roof damage in the Foxworth area.							
Simpson County							
Countywide	12	0830CST 0845CST			0 0	10K	Thunderstorm Wind
A number of trees were blown down. Some damage occurred to a few buildings and to power lines.							
Marion County							
1 N Columbia to 9 NE Columbia	12	0832CST	8	440	0 0	100K	Tornado (F1)
Numerous trees were blown down, and several buildings sustained damage as this F1 tornado moved northeast from the northern edge of Columbia to about nine miles northeast of Columbia.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MISSISSIPPI, Central							
Covington County							
Seminary	12	0845CST			0 0	5K	Thunderstorm Wind
Several trees and power lines were blown down.							
Lincoln County							
15 S Brookhaven	12	0855CST			0 0	12K	Thunderstorm Wind
The roof was blown off of a mobile home. A number of trees and power lines were blown down in southern sections of the county.							
Forrest County							
5 NE Hattiesburg	12	0900CST			0 0	25K	Thunderstorm Wind
Several roofs had minor wind damage. Numerous trees were blown down.							
Lawrence County							
Countywide	12	0915CST			0 0	12K	Thunderstorm Wind
Many trees were blown down in various parts of the county. A mobile home sustained damage.							
Marion County							
3 N Kokomo to 2 NW Morgantown	12	0918CST			0 0	5K	Thunderstorm Wind
Trees were blown down across highway 586 near the Walthall County line. Many trees were blown down across northwestern portions of the county.							
Copiah County							
Countywide	12	0920CST 0935CST			0 0	25K	Thunderstorm Wind
A mobile home was destroyed. Numerous trees and power lines were blown down.							
Jones County							
2 W Eastabuchie to Ellisville	12	0930CST			0 0	5K	Thunderstorm Wind
Many trees were blown down along Highway 59.							
Simpson County							
Martinville	12	0940CST			0 0	2K	Thunderstorm Wind
Several trees were blown down.							
Covington County							
Sanford	12	0945CST			0 0	5K	Thunderstorm Wind
Several trees and power lines were blown down. A tool shed was damaged.							
Jones County							
Soso to Hebron	12	1000CST			0 0	8K	Thunderstorm Wind
Numerous trees were blown down in northwestern portions of the county with minor damage to several structures.							
Jones County							
Laurel to Moselle	12	1010CST			0 1	100K	Thunderstorm Wind
Numerous trees and power lines were blown down. Many homes and cars were damaged by fallen trees. Several homes in the Moselle area had significant roof damage from the strong winds. People were trapped in a house trailer due to fallen trees. Several people were also trapped in a car after trees fell on them. No serious injuries were reported.							
Forrest County							
Carnes	12	1015CST			0 0	10K	Thunderstorm Wind
Trees and power lines were blown down. Several houses had roof damage from the wind.							
Forrest County							
2 S Rock Hill	12	1035CST			0 0	1K	Thunderstorm Wind
Several trees were blown down in a rural area.							
Noxubee County							
8 E Macon	12	1038CST			0 0	3K	Thunderstorm Wind
Several trees blew down onto power lines.							
Marion County							
2 W Kokomo to 3 ENE Kokomo	12	0919CST 0924CST	5	440	0 0	10K	Tornado (F1)
Marion County							
2 E Columbia to 7 ENE Columbia	12	0930CST 0936CST	6	440	0 0	700K	Tornado (F1)

Storm Data and Unusual Weather Phenomena

March 2001

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

Marion County

9 ENE Columbia to 11 ENE Columbia	12	0938CST 0940CST	1	440	0 0	2K	Tornado (F1)
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Lamar County

3 WSW Oloh to 4 NE Oak Grove	12	0940CST 1002CST	17	440	0 7	4.5M	Tornado (F1)
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Forrest County

Hattiesburg to 2 E Petal	12	1004CST 1012CST	7	440	0 5	6M	Tornado (F1)
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A supercell thunderstorm produced a tornado that moved out of Walthall County into Marion County, about two miles west of Kokomo. The tornado traveled five miles to a point three miles eastnortheast of Kokomo. The next tornado touched down about two miles east of Columbia and traveled six miles to a point seven miles eastnortheast of Columbia. The next tornado touched down nine miles eastnortheast of Columbia and traveled into Lamar County to a point four miles northeast of Oak Grove. The final tornado produced by the supercell in the Jackson NWS County Warning Area touched down in the northwest part of the city of Hattiesburg and traveled across northern sections of Hattiesburg and then across the city of Petal. This tornado lifted about two miles east of Petal. Damage reports in Marion County are somewhat difficult to estimate because an earlier tornado affected portions of the county, and the severe thunderstorm that produced the first tornado in the county caused damage in the city of Columbia before the second tornadic storm moved into the county. Damage to homes in Marion County from the tornado is estimated at \$700,000 with other damage in the county listed under separate storms. The total damage from the tornado in Lamar County is estimated to have been around \$4.5 million. In Lamar County, the tornado destroyed five houses, 24 mobile homes, one business, and 17 farms. The tornado caused major damage to 33 houses, 30 mobile homes, one church, two businesses, and seven farms. Minor damage occurred to approximately 30 mobile homes, eight apartment units, one church, two businesses, and a farm. The total damage from the tornado in Forrest County was estimated to be around \$6 million. In Forrest County, the tornado tracked through populated areas of Hattiesburg and Petal. The tornado caused major damage to 112 houses, one mobile home, eight businesses, and six vehicles. Additionally, the tornado caused minor damage to 223 houses, four mobile homes, and 21 businesses. Despite the widespread damage across three counties, no serious injuries were reported in the storms.

Grenada County

7 N Grenada	31	1951CST			0 0	12K	Hail (1.00)
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A large amount of up to quarter sized hail caused roof damage in northern portions of county. A spotter report indicated hail was covering the ground.

Grenada County

4 NE Grenada	31	2005CST			0 0	10K	Hail (1.00)
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An official NWS cooperative observer reported hail of up to quarter size covering the ground. The hail caused damage to roofs and cars in the area.

Grenada County

Gore Spgs	31	2010CST			0 0	8K	Hail (0.75)
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Minor roofing damage was reported in the Gore Springs area from large amounts of dime sized hail.

Webster County

6 NW Eupora	31	2025CST			0 0	10K	Hail (1.00)
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Hail of up to 1 inch in diameter caused minor roofing damage in the Center community.

Webster County

1 W Grady	31	2040CST			0 0	8K	Hail (1.00)
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Hail of up to 1 inch in diameter caused minor roofing damage.

Winston County

4 SW Winston	31	2140CST			0 0		Hail (0.75)
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Noxubee County

1 N Brooksville	31	2145CST			0 0	10K	Hail (1.75)
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Hail of up to golfball size caused damage to roofs and cars in the Brooksville area.

MISSISSIPPI, North

De Soto County

Hernando	31	1657CST 1705CST			0 0	0.10K	Hail (1.00)
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De Soto County

Hernando	31	1657CST 1705CST			0 0	5K	Thunderstorm Wind
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A few trees were blown down.

De Soto County

2 E Hernando	31	1708CST			0 0	0.01K	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, North</u>							
Marshall County							
Red Banks	31	1730CST 1735CST			0 0	0.01K	Hail (0.75)
Quitman County							
Crowder	31	1840CST			0 0	0.01K	Hail (0.75)
Coahoma County							
Clarksdale	31	1845CST 1855CST			0 0	0.02K	Hail (0.75)
Yalobusha County							
Coffeeville	31	1942CST 1950CST			0 0	0.01K	Hail (0.75)
<u>MISSISSIPPI, South</u>							
Amite County							
Liberty	01	1709CST			0 0	7K	Thunderstorm Wind
Thunderstorm winds damaged a barn and knocked down two trees.							
Amite County							
12 SW Liberty	01	1715CST			0 0	15K	Thunderstorm Wind
Thunderstorm winds tore the roof off of a house, blew down a barn, and damaged several trees.							
Pearl River County							
Countywide	03	0200CST 1400CST			0 0	10K	Flash Flood
Heavy rainfall caused severe flooding of roadways. Law enforcement reported 13 to 14 roadways were severely flooded, mostly in the Picayune area. At least one home had minor flooding.							
Jackson County							
2 W Ocean Spgs	11	2320CST			0 0		Hail (1.75)
Pike County							
7 E Mc Comb	12	0737CST			0 0		Hail (0.75)
Wilkinson County							
Woodville to Lessley	12	0815CST			0 0	25K	Thunderstorm Wind
Several trees were blown down from Woodville to Lessley. Two mobile homes near Lessley were heavily damaged by fallen trees while a business in Woodville also received damage due to a downed tree.							
Wilkinson County							
Centreville	12	0822CST			0 0	8K	Thunderstorm Wind
Thunderstorm winds blew down several trees including one which fell on and damaged a car. The occupants of the vehicle were not injured.							
Amite County							
Countywide	12	0840CST			0 0	15K	Thunderstorm Wind
A few homes in southwest area of the county were damaged by downed trees.							
Walthall County							
4.5 N Tylertown	12	0910CST			1 0	10K	Thunderstorm Wind
Thunderstorm winds blew down a tree along Highway 583 that fell on a car fatally injuring the driver. M31VE							
Walthall County							
Countywide	12	0910CST			0 0	35K	Thunderstorm Wind
Thunderstorm winds blew down several trees and power lines across northern and central areas of the county and damaged several poultry houses on a farm. The roof of a house in Tylertown was heavily damaged by a downed tree.							
Walthall County							
9 NE Tylertown	12	0914CST	0.5	25	0 0	1.5K	Tornado (F1)
A tornado knocked down several trees in extreme eastern Walthall county north of U.S. Highway 98 and east of Mississippi Highway 585. Tornado then moved into Marion County.							
Pike County							
Countywide	12	0930CST 0945CST			0 0	55K	Thunderstorm Wind
Several trees were blown down in scattered locations around the county. A billboard sign was knocked down along Interstate 55. Four houses and several cars were damaged by falling trees.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
MISSISSIPPI, South							
Pearl River County							
Derby	12	0930CST			0 0	40K	Thunderstorm Wind
Thunderstorm winds caused moderate damage to two homes, destroyed a shed, blew a trailer off of its foundation, and knocked down several trees which damaged two cars and a truck.							
Pearl River County							
Millard	12	1015CST	0.2	20	0 0	30K	Tornado (F0)
A small tornado caused severe to moderate structural damage to buildings, blew the windows out of several vehicles, and knocked down trees and power lines.							
Harrison County							
Howison	12	1100CST	0.1	20	0 0	1.5K	Tornado (F0)
A small tornado knocked down several trees.							
Hancock County							
7 NNW Diamondhead	12	1110CST			0 0		Hail (0.75)
Harrison County							
5 E Airey	12	1110CST	0.2	20	0 0		Tornado (F0)
A small tornado briefly touched down knocking down trees and power lines.							
Harrison County							
Countywide	12	1139CST			0 0	2.5K	Thunderstorm Wind
Several trees and power lines were blown down at various locations across the county.							
Hancock County							
Waveland	14	2130CST			0 0	0.50K	Thunderstorm Wind
A tree was blown down.							
MISSISSIPPI, Southeast							
Wayne County							
Matherville	02	1500CST 1505CST			0 0	10K	Thunderstorm Wind (G65)
High thunderstorm winds blew down trees along Highway 510 just south of the community. High thunderstorm winds also produced some minor structural damage to a store and restaurant in the community.							
Wayne County							
Eucutta	02	1605CST 1610CST			0 0	3K	Thunderstorm Wind (G55)
Thunderstorm winds downed trees in the community.							
Perry County							
3 SW Richton	02	1605CST 1610CST			0 0	10K	Thunderstorm Wind (G65)
High thunderstorm winds downed trees and damaged the roof of a home.							
Greene County							
Countywide	03	0200CST 1900CST			0 0	40K	Flash Flood
Persistent thunderstorms remained over the county for several hours causing heavy rains. Radar estimated 4-6 inches of rain fell in a twenty-four hour period across the county. Numerous secondary roads throughout the county were washed out, and several had to be closed throughout the day.							
Perry County							
Countywide	03	0230CST 1900CST			0 0	30K	Flash Flood
Heavy rains across the county caused many secondary roads to wash out. Many had to be closed for several hours. Radar estimated rainfall totals of four to six inches across most of the county.							
Wayne County							
Countywide	03	0230CST 1830CST			0 0	10K	Flash Flood
Heavy rains caused many secondary roads across the county to washout. Several of the roads were closed by the high water throughout the day. Radar estimated rainfall totals of three to five inches across the county.							
George County							
Countywide	03	0830CST 1830CST			0 0	15K	Flash Flood
Stone County							
Countywide	03	0830CST 1830CST			0 0	10K	Flash Flood

Storm Data and Unusual Weather Phenomena

March 2001

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

Heavy rains caused several secondary roads throughout the county to washout. Most of the water had drained from the roads by sunset and the streets were reopened. Radar estimated three to five inches of rain fell across the area.

Wayne County

Waynesboro	12	1020CST 1025CST			0 0	5K	Thunderstorm Wind (G60)
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A line of strong thunderstorms downed trees near the community.

Perry County

Richton	12	1020CST 1025CST			0 0	50K	Thunderstorm Wind (G70)
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Numerous trees were blown down as a line of severe thunderstorms moved through the community. An area store was also damaged by the high winds.

Greene County

Rounsaville	12	1045CST 1055CST			0 2	50K	Thunderstorm Wind (G70)
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Severe thunderstorm downburst winds downed trees and overturned a mobile home in the community. Two occupants in the mobile home received minor injuries. The same line of storms also downed trees and produced roof damage to structures in the Leakesville area.

George County

Lucedale	12	1120CST 1125CST			0 0	20K	Thunderstorm Wind (G70)
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Numerous trees down Southeast of Lucedale as line of strong thunderstorms moved through.

MISSOURI, East

MOZ018>019-026>027-034>036-041>042-047>052-059>065-072>075-084>085-099

Knox - Lewis - Shelby - Marion - Monroe - Ralls - Pike - Boone - Audrain - Moniteau - Cole - Osage - Callaway - Montgomery - Lincoln - Gasconade - Warren - St. Charles - Franklin - St. Louis - St. Louis (C) - Jefferson - Crawford - Washington - St. Francois - Ste. Genevieve - Iron - Madison - Reynolds

13	0900CST 1700CST				0 0		High Wind (G45)
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A strong low pressure system moving across the Great Lakes made for a windy day across the region. Winds were generally 20 to 40 mph with gusts from 40 to 50. Scattered reports of tree, roof shingle and sign damage were common across the area.

MISSOURI, Lower

NONE REPORTED.

MISSOURI, Northeast

MOZ009>010

Scotland - Clark

15	0000CST				0 0		Snow
16	1800CST						

A strong late winter storm system developed over the Rockies and strengthened as it moved across the Mississippi Valley. Initially, as warm air surged north ahead of the storm system, the precipitation fell in the form of rain. However, as the storm system moved east of the region, brisk northwest winds ushered in much colder air, allowing the rain to change over to snow. Most of the area received between 2 and 5 inches of snow.

MISSOURI, Northwest

MOZ001

Atchison

12	0600CST 2300CST				0 0		Flood
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Melting snow in Atchison on March 11th and 12th, caused the Tarkio river in Fairfax to crest right at flood stage, or 17 feet.

MOZ020-023-

028>030-032-

038>040-046-054

Buchanan - Livingston - Platte - Clay - Ray - Chariton - Lafayette - Saline - Howard - Cooper - Henry

13	0600CST				0 0		Flood
20	2200CST						

A strong storm system moved across northwest Missouri on March 15th and 16th. The combination of 1 to 2 inches of rain and melting snow, produced extensive minor to moderate river flooding across the region. The Fishing river at Mosby crested at 23.40 feet or more than 5 feet above flood stage. The Grand river at Sumner crested at 34.60 feet, or 8.6 feet above flood stage.

Storm Data and Unusual Weather Phenomena

March 2001

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

MTZ010	Eastern Glacier						
	19	0953MST			0	0	High Wind (G57) ^M
	Cut Bank ASOS.						
MTZ012	Cascade						
	19	1200MST			0	0	High Wind (G54) ^M
	Power 6 SE spotter.						
MTZ055	Gallatin						
	27	0600MST 1800MST			0	0	Heavy Snow
	7 inches snowfall reported by spotter at Bozeman (Montana State University).						
MTZ055	Gallatin						
	27	0800MST 2000MST			0	0	Heavy Snow
	6 inches snowfall reported by spotter at Hebgen Dam.						
MTZ009	North Rocky Mountain Front						
	30	0000MST 2300MST			0	0	Heavy Snow
	9 inches snowfall reported near town of East Glacier (National Park Service office in Glacier National Park).						
MTZ052	Jefferson						
	30	0000MST 0700MST			0	0	Heavy Snow
	6 inches snowfall reported by spotter at Boulder.						
MTZ013	Chouteau						
	30	0600MST 1800MST			0	0	Heavy Snow
	6 inches snowfall reported by spotter at Shonkin.						

MONTANA, East

MTZ059	Northern Phillips						
	19	1553MST			0	0	High Wind (G59) ^M
	A strong cold front passed through the region causing strong winds for several hours.						

MONTANA, South

MTZ028	Wheatland						
	08	1100MST			0	0	Heavy Snow
	Gardiner--6 inches of new snow.						
MTZ028	Wheatland						
	08	1100MST			0	0	Heavy Snow
	Big Timber--7 inches of new snow.						
MTZ034	Stillwater						
	08	1100MST			0	0	Heavy Snow
	Red Lodge--12 inches of new snow.						
MTZ034	Stillwater						
	08	1100MST			0	0	Heavy Snow
	Red Lodge (2 miles north)--14 inches of new snow.						
MTZ034	Stillwater						
	08	1100MST			0	0	Heavy Snow
	Columbus--12 inches of new snow.						
MTZ034	Stillwater						
	08	1100MST			0	0	Heavy Snow
	Nye--14 inches of new snow.						
MTZ034	Stillwater						
	08	1100MST			0	0	Heavy Snow
	Roscoe--14 inches of new snow.						
MTZ038	Southern Big Horn						
	08	1100MST			0	0	Heavy Snow
	Hardin (20 miles north)--5 inches of new snow.						
MTZ038	Southern Big Horn						
	08	1100MST			0	0	Heavy Snow
	Fort Smith--6 inches of new snow.						

Storm Data and Unusual Weather Phenomena

March 2001

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

MTZ038

Southern Big Horn

08 1100MST **0** **0** **Heavy Snow**

Pryor--8 inches of new snow.

MONTANA, West

MTZ004

Lower Clark Fork Region

13 2100MST **0** **0** **High Wind (G52) ^M**

Fast moving cold front produced strong winds near convective showers. RAW5 station Pardee in Mineral County reported wind gust to 60 MPH.

MTZ002-043

West Glacier Region - Blackfoot Region

31 1500MST **0** **0** **Heavy Snow**

2359MST

15 hour heavy snowfall for northwest Montana included: in Flathead County, 7 inches at Olney, and 8 inches at Noisy Basin; in Lake County, 8 inches at Moss Peak, in Missoula County, 13.5 inches at North Fork Jocko. (Storm ended on 04/01/01)

NEBRASKA, Central

NONE REPORTED.

NEBRASKA, East

NEZ044>045-

050>053-065>067-

078-088

Dodge - Washington - Butler - Saunders - Douglas - Sarpy - Seward - Lancaster - Cass - Saline - Jefferson

11 1400CST **0** **0** **Winter Storm**

2100CST

A brief mix of sleet, freezing drizzle and snow changed to a 4 to 6 hour period of freezing rain from parts of southeast Nebraska into west central Iowa. Liquid precipitation amounts were in the .25 to .50 inch range with temperatures at or a little below freezing. Since readings were close to freezing when the precipitation fell, and then climbed to or a little above freezing as the precipitation ended, glazing was not as serious as would have otherwise been expected with the above mentioned precipitation totals. Nonetheless, the glazing that did occur caused above normal traffic accidents and knocked the power out for several thousand customers in the Omaha area.

NEZ044-051>053

Dodge - Saunders - Douglas - Sarpy

14 1700CST **0** **0** **Flood**

16 2200CST

A 1 mile long ice jam and other smaller ice jams caused considerable flooding along the Platte River, especially southwest of Valley near Sokol Camp and Vencils Island. The higher river level and ice jams were the result of several warm days that caused snow melt and ice breakup. The ice was unusually thick, around 12 to 18 inches, due to a colder than normal winter season that saw prolonged subfreezing temperatures. Sokol Camp was evacuated due to water that came over a local dike that protected the mainly summer-type cabins, and an evacuation by boat was needed for a residence at Vencils Island. At Ashland, downstream of the above mentioned areas that were evacuated, the Platte River reached 21.9 feet for several hours around 500 pm 3/15/01. Flood stage at Ashland is 20 feet.

NEZ033-044

Cuming - Dodge

15 0300CST **0** **0** **Flood**

17 1200CST

Snow melt, and ice jams near West Point and Winslow, caused lowland flooding along the Elkhorn River from around Wisner downstream through West Point to near Winslow. Although most of the flooding was minor, Highway 32 just southwest of West Point was closed Thursday night 3/15/01 and highway 275 just south of West Point was closed Friday morning 3/16/01, due to flooding from the Elkhorn. There was some road damage reported to both River Road and Highway 32 near West Point. The Wisner River Park was also flooded with several feet of water. At one time the ice jam near West Point was estimated to be 4 1/2 miles long.

The Elkhorn River at West Point reached an ice affected 17.1 feet at 600 am CST on 3/16, flood stage is 12.0 feet.

NEZ011

Knox

15 0300CST **0** **0** **Flood**

17 0600CST

Snow melt and ice jams caused flooding along Ponca and Bazile Creeks in Knox county. The Bazile Creek flooding briefly closed highway 12 east of Niobrara, while Ponca Creek near Verdel reached 14.4 feet at 100 pm on 3/15/01, flood stage at Verdel is 12 feet.

NEZ011

Knox

19 2000CST **0** **0** **Flood**

21 1500CST

Snow melt combined with an ice jam to produce flooding along the Niobrara River near Verdel. The river at Verdel crested at 7.9 feet at 1100 am 3/20/01, flood stage is 7.0 feet. The flooding affected mainly lowlands along the river.

NEBRASKA, Extreme Northeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

March 2001

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

NONE REPORTED.

NEBRASKA, South Central

NEZ073>077-082>087 Phelps - Kearney - Adams - Clay - Fillmore - Furnas - Harlan - Franklin - Webster - Nuckolls - Thayer

10	1800CST	0	0	0	0	0	Winter Storm
11	1330CST						

A strong winter storm moved across the area during the weekend. While most areas picked up 4 to 6 inches of snow, it was combined with freezing rain and gusty winds to provide dangerous conditions. One traffic accident occurred during the storm and the winter conditions likely played somewhat of a role. This accident occurred in southern Fillmore county and involved at least 3 vehicles and 12 people. One person was killed and several were injured, mostly minor. Even with the dangerous driving conditions during the weekend, early forecasts of the storm likely helped keep motorist off the road during the height of the storm.

NEZ046-060>062-072>073-082>083 Sherman - Dawson - Buffalo - Hall - Gosper - Phelps - Furnas - Harlan

15	0600CST	0	0	0	0	0	Winter Storm
	1200CST						

A late winter storm moved through parts of south-central Nebraska on the morning of the 15th. This storm brought strong winds and snow. Most locations picked up around 4 inches of snow, but a few locations had more. Bertrand had the most with 10 inches reported and at Johnson Lake, around 6 to 8 inches were common. Winds gusted between 30 and 50 mph during the storm and caused some blowing a drifting of the snow. This produced some hazardous driving conditions and one accident along Interstate 80 shut down the roadway near Kearney for a short while. The strong winds and the wet snow caused power lines to sway dramatically. Many slapped together, blowing circuit breakers along the lines. This caused numerous power outages across the area. The near blizzard conditions also closed or delayed starting area schools and the courthouse in Buffalo county was closed during the morning hours.

NEBRASKA, West

NONE REPORTED.

NEVADA, North

NVZ035-037

White Pine - S Lander & S Eureka

09	0500PST	0	0				Heavy Snow
	2300PST						

The Eureka Sheriff reported close to 2 feet of snow fell in Eureka. A foot of new snow was reported on state highway 892 near Strawberry and on Austin Summit.

NEVADA, South

NVZ013

Northern Nye

04	0900PST	0	0	3K			High Wind (G45)
	1255PST						

Estimated winds around 50 mph caused minor roof damage to 6 homes in Gabbs, NV.

NVZ020

Las Vegas Valley

11	1640PST	0	1	10K			High Wind (G48) ^M
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A strong cold front pushing through southern Nevada helped to develop several thunderstorms north of Las Vegas. Outflow from one storm produced wind gusts up to 55 mph at the Las Vegas airport. One person was injured when a palm tree fell onto her vehicle and several power lines were blown down across town.

NEVADA, West

NVZ001

Mineral/Southern Lyon

04	1215PST	0	0	0			High Wind (G43) ^M
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Spotter report of sustained winds of 50 mph with higher gusts and low visibility

NEW HAMPSHIRE, North and Central

NHZ002>010-013>014 Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham

05	0500EST	0	0				Heavy Snow
06	2300EST						

NHZ010-013>014 Strafford - Interior Rockingham - Coastal Rockingham

06	1100EST	0	0				Blizzard
	1800EST						

A major winter storm brought blizzard conditions to much of southeastern New Hampshire as heavy snow and strong winds combined to produce near-zero visibility. An area of low pressure moved from the southeastern states on the morning of March 4th to off the Mid-Atlantic Coast by the morning of the 5th. The low continued to intensify as it moved slowly northeastward to just off Cape Cod by the morning of the 6th. The storm then tracked east into the Atlantic by the morning of the 7th. Many businesses and schools were closed due to the storm. In addition, a 1 to 2 foot storm surge combined with high astronomical tides to produce coastal flooding and beach erosion along the New Hampshire coast. Snowfall amounts from the storm generally ranged from 4 to 6 inches in northern Coos County to

Storm Data and Unusual Weather Phenomena

March 2001

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

20 inches or more along the coast. Several locations in central and southeastern New Hampshire reported around 2 feet of new snow while most locations south of the mountains had more than a foot of new snow from the storm. Blizzard conditions developed along and inland from the coast during the afternoon of the 6th.

NHZ008>010-013>014 Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham

05	2000EST						Strong Winds
06	1600EST						

A powerful ocean storm moving north toward the Gulf of Maine on Monday evening, March 5, and Tuesday, March 6, brought strong, gusty, northeast winds to southeastern and parts of central New Hampshire. Peak wind gusts were measured at 38 mph in Portsmouth and 36 mph in Concord.

NHZ001>010-013>014 Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham

06	0000EST					Accumulated Snowfall
31	2359EST					

The accumulated weight of snow and mixed precipitation during March caused numerous buildings to collapse throughout New Hampshire. Although the major accumulating snow ended across the state in late March, problems with building collapses continued into mid April.

Rockingham County

Hampton to Portsmouth	06	0630EST 2040EST				100K	Storm Surge
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Rockingham County

Hampton	07	0800EST 0900EST				110K	Storm Surge
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Low pressure developed off the New Jersey coast on March 5th, then moved slowly to the waters south of Cape Cod by the morning of the 6th. The system stalled off the southern New England coast on the afternoon of the 6th, and then drifted east of the Gulf of Maine on the 7th. The storm caused very strong northeasterly winds and high seas along coastal sections of northern New England. Seas at the Portland Weather Buoy reached 17 feet. Peak wind gusts in the coastal waters on the 6th reached 45 knots at the Isles of Shoals, 56 knots at Matinicus Rock, and 37 knots at the Portland Weather Buoy. On the 7th, peak winds reached 61 knots at Isles of Shoals, 60 kts at Matinicus Rock, and 39 kts at the Portland Weather Buoy. The Portland Harbor tide gage reached 12.0 foot on the 6th and 12.4 feet, on the 7th. Flood stage is 12 feet. New Hampshire's coast, which is more susceptible to flooding on a northeast wind, reported moderate tidal flooding and erosion. Flooding and beach erosion were reported from Hampton to Portsmouth on the 6th and in Hampton on the 7th. On the 6th, water covered roads in Portsmouth, Route 1a was closed in Rye and North Hampton, and seawalls were damaged in Rye Beach. On the morning of the 7th, flooding was once again reported in Hampton.

NHZ004>010-013>014 Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham

09	1500EST					Heavy Snow
10	1100EST					

An area of low pressure off the Mid-Atlantic coast on the 9th developed rapidly as it moved northeastward to near Nova Scotia by the morning of the 10th. Heavy snow developed over much of southern and central New Hampshire as the storm tracked northeastward. Snowfall amounts across New Hampshire ranged from near nothing in the northern mountains to more than a foot in much of the southeastern part of the state with 15 inches in Gilford, 14 inches in Laconia, and 13 inches in Salisbury and Wakefield.

NHZ001

Northern Coos

13	0400EST					Heavy Snow
14	0100EST					

NHZ002>010-013

Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham

13	0400EST					Mixed Precipitation
14	0100EST					

A mixture of precipitation fell across the state as a warm front associated with an area of low pressure over the Great Lakes moved slowly northward in the Atlantic. Snowfall amounts ranged from 4 to 8 inches in the mountains to an inch or less along the immediate coast where the precipitation fell mostly as rain. Between the mountains and the coast, the precipitation fell as a mixture of snow, sleet, freezing rain, and rain, and most areas received between 2 and 4 inches of snow before the precipitation changed over to the mix.

NHZ001>010

Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford

22	0200EST					Heavy Snow
23	2000EST					

A deep area of low pressure moved very slowly northeastward from eastern North Carolina on the morning of the 21st to off southeastern New Jersey by the morning of the 22nd, then to southwest of Nova Scotia by the morning of the 23rd, and finally to New Brunswick by the 24th. Across the mountains, the storm brought 1 to 2 feet of new snow. In central parts of the state, snowfall amounts ranged from 4 to 10 inches. Along the coast, the precipitation was mostly in the form of rain with some snow at the onset.

Storm Data and Unusual Weather Phenomena

March 2001

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

NHZ002-008>010-013>014 **Southern Coos - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham**

	22	0600EST			0	0		
	23	1900EST						Strong Winds

A powerful ocean storm moving north toward the Gulf of Maine on Thursday, March 22, brought strong, gusty winds to southeastern and parts of central and northern New Hampshire. Peak wind gusts were measured at 40 mph in Rochester, Portsmouth, and Whitefield.

Merrimack County

	22	1300EST			0	0		
Countywide	23	0600EST						Flood

Rockingham County

	22	1300EST			0	0		
Countywide	23	0600EST						Flood

Strafford County

	22	1400EST			0	0		
Dover	23	0600EST						Flood

Strafford County

	22	1400EST			0	0		
Durham	23	0600EST						Flood

Strafford County

	22	1400EST			0	0		
Rochester	23	0600EST						Flood

The coastal storm that brought heavy snow to northern and central New Hampshire dropped 2 to 5 inches of rain in the southern part of the state. Small rivers and streams overflowed their banks. Melting snow also contributed to the runoff problem. Storm drains were overburdened causing some sewer systems to back up. Many washouts were also reported as the water flowed down the shoulders of the roads due to the high snow banks.

NHZ001>010-013 **Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham**

	30	0300EST			0	0		
	31	0500EST						Heavy Snow

Low pressure off the Delmarva peninsula on the morning of the 30th intensified as it moved northeast during the day reaching southern Nova Scotia by the morning of the 31st. The low brought heavy snow to all of northern and central sections of the state. In the southeast, the precipitation fell mostly as rain and little or no snowfall accumulation was reported. Snowfall amounts in the remainder of the state generally ranged from 6 to 16 inches with the heaviest band running through Merrimack, Belknap, and Carroll Counties.

NEW HAMPSHIRE, Southern

NHZ011>012 **Cheshire - Hillsborough**

	05	1300EST			0	0	5M	
	06	2300EST						Heavy Snow

A major winter storm impacted southwest New Hampshire with near blizzard conditions. The slow-moving storm, which tracked south of New England, dumped over two feet of snow across Cheshire and Hillsborough Counties and knocked out power to tens of thousands of customers. Businesses and schools were shut down for several days in some communities. After the storm, the weight of the heavy wet snow caused several roof collapses of homes and businesses.

As much as 30 inches of snow fell in Jaffrey. Other snowfall totals reported include 29 inches in Swanzey, 27 inches in Westmoreland, 25 inches in Keene and Frankestown, 24 inches in Pelham, Hudson and Nashua, 22 inches in Rindge, and 21 inches in Manchester.

NHZ011>012 **Cheshire - Hillsborough**

	09	1500EST			0	0	500K	
	10	0800EST						Heavy Snow

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to much of southwest New Hampshire. The highest snowfall totals were found in the higher terrain, where around one foot of snow fell. Other areas received 4 to 8 inches of snow on average.

NHZ011>012 **Cheshire - Hillsborough**

	30	2200EST			0	0	200K	
	31	1400EST						Heavy Snow

A storm system brought heavy snow to Cheshire and Hillsborough Counties. The highest snowfall totals were found in the higher terrain, where over a foot of snow accumulated, and as much as 19 inches of snow fell in Jaffrey. Rindge and Greenfield reported 16 inches, Marlow and Frankestown had 14 inches of snow, and Weare 11 inches. The lower elevations reported totals of 5 to 8 inches on average.

Storm Data and Unusual Weather Phenomena

March 2001

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

NJZ002>003-005

Western Passaic - Bergen - Essex

05	1900EST				0	0	Winter Storm
06	2350EST						

A complex and slow-moving coastal storm affected much of northern New Jersey from Sunday March 4th through the early morning hours of Wednesday March 7th. This storm was accompanied by a mixture of snow, sleet, freezing rain and rain through the early portion of the event, and mainly heavy snow for the remainder of the event. Gusty winds were also present throughout the duration of the storm.

On Sunday March 4th, a strong low pressure system moved east across the Tennessee Valley, while a new low slowly developed off the Mid Atlantic coast. The precipitation shield accompanying this complex storm system moved north and reached northern New Jersey in the form of spotty light snow and sleet by Sunday afternoon. The precipitation intensified Sunday night and early Monday, but as warmer air moved into the region aloft, the snow changed to a mixture of sleet, freezing rain and rain by Monday morning along coastal sections. Some portions of interior New Jersey received several inches of snow from this initial surge of precipitation.

During Monday March 5th, the new low pressure system off the Mid Atlantic coast began to intensify rapidly. Heavier precipitation associated with this developing coastal low remained east of New Jersey through much of Monday. As colder air was entrained into the storm's circulation, any precipitation that did occur during Monday afternoon and evening changed back to snow.

The low slowly drifted north off the eastern end of Long Island late Monday night and Tuesday morning, and then became nearly stationary during Tuesday. This spread heavier bands of wet snow southwest across northern New Jersey by early Tuesday morning. The low then began to retrograde slightly to the southwest during Tuesday afternoon, continuing intermittent bands of moderate snow across northern New Jersey into Tuesday evening. The storm finally began to retreat east off the New Jersey coast Tuesday night and Wednesday, allowing the snow to taper off and end during the early morning hours of Wednesday March 7th.

The combination of heavy wet snow and strong winds with this prolonged coastal storm produced scattered power outages across portions of northern New Jersey.

Here are some storm total snowfall amounts:

For Passaic County: 6 inches at West Milford, to 8 inches at Greenwood Lake.

For Bergen County: 3.1 inches at Fair Lawn, to 7 inches at Cliffside Park.

For Essex County: 6 inches at Newark International Airport and West Caldwell.

For Hudson County: 3 inches at Secaucus, to 5 inches at Hoboken.

For Union County: 2.2 inches at Watchung.

Essex County

East Orange

21	1725EST				0	1	Non Tstm Wind
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Tree fell on car

A strong and slow-moving coastal storm produced widespread heavy rain and strong gusty winds throughout much of northern New Jersey from Wednesday March 21st through Thursday March 22nd. A tight pressure gradient between the intensifying low pressure system off the mid Atlantic coast and a strong high pressure system over the Canadian Maritimes produced wind gusts between 40 and 50 mph from Wednesday afternoon into early Thursday morning. These strong wind gusts, combined with the nearly saturated ground conditions from heavy rainfall, triggered numerous fallen trees to occur throughout northern New Jersey. Some of these trees fell onto power lines, leading to several power outages.

In addition to the strong gusty winds, heavy rainfall also occurred during this storm. This heavy rain, combined with rapid snow melt from a significant pre-existing snow pack, created localized small stream and urban flooding across northern New Jersey. One to two inches of rain were common with this storm, with some localized amounts approaching three inches.

Here are some storm total rainfall amounts:

For Bergen County: 1.35 inches at Midland Park, to 2.34 inches at Teterboro Airport.

For Essex County: 1.76 inches at Canoe Brook, to 2.48 inches at Verona.

For Hudson County: 1.21 inches at Harrison.

For Passaic County: 0.92 inches at West Milford, to 2.32 inches at West Paterson.

Hudson County

Harrison

30	0930EST				0	0	Urban/Sml Stream Fld
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Storm Data and Unusual Weather Phenomena

March 2001

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

Bergen County

Lyndhurst	30	0940EST			0	0	Flood
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Essex County

Countywide	30	0940EST			0	0	Urban/Sml Stream Fld
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Passaic County

Countywide	30	0940EST			0	0	Urban/Sml Stream Fld
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Union County

Countywide	30	0940EST			0	0	Urban/Sml Stream Fld
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A low pressure system moved northeast along the mid Atlantic coast and produced widespread heavy rain across northern New Jersey beginning late Thursday night March 29th and ending by Friday evening March 30th. The low developed over the southeast states Thursday afternoon, and moved northeast to a position near Washington D.C. by early Friday morning. The low then continued moving northeast, passing across eastern Long Island early Friday afternoon, and off the New England coast by late Friday night. Strong "overrunning" of warm, moist air over a pre-existing colder airmass, combined with a strong easterly wind flow of moisture-laden air off the Atlantic Ocean, produced very heavy rainfall across northern New Jersey during the daytime hours on Friday. One to two inches of rain were common across much of northern New Jersey, with some localized amounts of between two and three inches. This created widespread urban and highway flooding during the Friday morning commute, which continued into the early afternoon hours. The rain finally tapered to showers later Friday afternoon, and ended by Friday night as the low departed off the New England coast.

In Bergen County, several sewer caps were reportedly blown out due to the excessive rainfall, and several roads were impassable due to the flooding.

Here are some storm total rainfall amounts:

For Bergen County: 1.60 inches at Fair Lawn, to 2.01 inches at Teterboro Airport.

For Hudson County: 2.76 inches at Harrison.

For Union County: 2.53 inches at Elizabeth.

For Essex County: 1.88 inches at Newark International Airport to 1.98 inches at Caldwell.

NEW JERSEY, South and Northwest

NJZ013-016>019

Western Monmouth - Salem - Gloucester - Camden - Burlington

04	0700EST				0	0	Wintry Mix
05	1700EST						

NJZ001-007>010-012-015

Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Mercer

04	1200EST				0	0	Winter Storm
06	2200EST						

An intensifying low pressure system brought a protracted wintry mix of precipitation to central and southern New Jersey on the 4th and 5th and to Northwest New Jersey on the 4th through the 6th. Precipitation began as rain across southwest New Jersey around daybreak on the 4th. Farther to the north as a high pressure system built into northern New England, precipitation spread as light snow through the rest of the morning reaching the New York State border around Noon EST. As precipitation intensity increased during the day, sleet and snow began to mix in the Philadelphia suburbs. As evening arrived, while warm air was moving in aloft, the northeast winds around the surface low pressure system to the south and the high pressure system over eastern New England, not only anchored the cold air in place, but started moving it southward. This continued a mixture of rain and sleet through the night across southwest New Jersey. Farther to the north, precipitation changed to sleet and then freezing rain. This began during the early evening in the Trenton and New Brunswick areas, later in the evening in the Morristown area and around midnight EST in far northwestern New Jersey. Toward daybreak on the 5th, cold air began moving in at all levels. This changed the rain to freezing rain in all areas of southwest New Jersey. Elsewhere precipitation was changing back to all snow. The change to all snow also spread across southwest New Jersey around noon EST. The snow ended during the second half of the afternoon and during the early evening of the 5th across the state. As the low retrograded a bit on Tuesday the 6th, steadier snow moved into Sussex, Warren and Morris Counties overnight on the 5th and persisted into the 6th. Elsewhere, the snow intensity was considerably lighter and fell mainly during the daytime hours on the 6th.

Throughout this event, ground temperatures were relatively warm across the southern half of New Jersey and the snow had a difficult time accumulating, especially before nightfall on the 4th. Elsewhere, the change to sleet and snow compacted the accumulations. Total accumulations ranged from one to two inches across southeast New Jersey, to around four inches along the U.S Route 1 corridor in central New Jersey to around one foot in Sussex County. About one quarter to one third of an inch of ice accrued on exposed surfaces during the night of the 4th and morning of the 5th across Mercer, Hunterdon and Somerset Counties.

There were numerous minor accidents, mainly across the northern half of the state and especially on Interstate 78. One of the more serious accidents occurred in Mansfield Township (Warren County) when a vehicle slammed head on into a tree. The governor's office declared a

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW JERSEY, South and Northwest

state of emergency late in the day on the 4th. Many businesses and schools were closed on the 5th. Some schools were also closed on the Tuesday the 6th as far south as Ocean County.

Specific accumulations included 15 inches in Highland Lakes (Sussex County), 11 inches in Wantage (Sussex County), 10 inches in Jefferson Township (Morris County), 7 inches in Hackettstown (Warren County) and Marcella (Morris County), 6.4 inches in Sussex (Sussex County), 6 inches in Long Valley and Rockaway Township (Morris County), 5.9 inches in New Brunswick (Middlesex County), 4.4 inches in Chatham (Morris County), 4 inches in Belvidere (Warren County), 3.4 inches in Wertsville (Hunterdon County), 2.8 inches in Hightstown (Mercer County), 2.7 inches in Belle Mead (Somerset County), 2.1 inches in Mount Holly (Burlington County) and 1.3 inches in Somerdale (Camden County).

The low pressure system developed over the western Gulf of Mexico on the 3rd. By the morning of the 4th, the surface low had moved northeast into eastern Tennessee. The low continued to move northeast and was over the Delmarva coastal waters on the morning of the 5th. It then began to intensify as it moved toward Cape Cod. The later intensification prevented heavier snow from occurring farther to the south with this system. An upper level low then captured the surface system and dragged it westward (retrograded) toward the coast on the 6th before it headed east for good on the 7th.

NJZ014-024>026

Eastern Monmouth - Eastern Cape May - Eastern Atlantic - Eastern Ocean

05	0200EST						
09	1100EST			0	0		Cstl Flooding/Erosion

An intensifying coastal low pressure system brought a protracted period of tidal flooding and beach erosion to coastal New Jersey from the 5th through the 9th. The highest tides (just reached moderate levels) occurred the morning of the 7th. The first high tide that brought minor tidal flooding was during the morning of the 5th. Winds shifted into the northwest that afternoon and brought few tidal problems (although minor erosion continued) during the second half of the 5th and on the 6th. But on the 6th, the low pressure system was caught by its upper low at higher levels of the atmosphere and started to move back (retrograde) toward the coast. The low began moving farther offshore for good on the 7th. The combination of the onshore flow and the high astronomical tides because of the full moon produced tidal flooding on the 7th and the mornings of the 8th and 9th. The highest tide for this event was 7.7 feet above mean lower low water at both Sandy Hook and Cape May on the morning of the 7th.

The effects of the tides and erosion varied from shore community to community. Most locations only suffered minor tidal flooding and erosion. A few though were hit harder. In Monmouth County, in Ocean Grove 150 of 200 yards of beach replenishment sand was submerged by the tides. In Sea Bright, three to four feet of erosion occurred at the north end of the town. On the Shrewsbury River side, minor tidal flooding occurred on Center, Beach and Surf Streets. In Ocean County, significant erosion occurred in Brick Township as 50 feet of beach was lost. A voluntary evacuation was suggested on the 3rd for residents of Long Beach Island. It was later cancelled. In Long Beach Township, five foot cliffs were cut by the surf. In Brant Beach, erosion was described as the worst on 51st and 79th Streets. In Cape May County, severe erosion was reported in North Wildwood. Fifty feet of beach was lost on Third and Fourth Avenues and erosion extended south to 13th Avenue. Several dunes were destroyed. Significant erosion also occurred on the Second Avenue Beach on Hereford Inlet.

NJZ001-007>008

Sussex - Warren - Morris

09	0500EST						
	1000EST			0	0		Snow

A vigorous occluded front produced several hours of accumulating snow across northwest New Jersey during the morning of the 9th. The snow began after midnight EST and ended between 8 a.m. and 10 a.m. EST. The morning commute was more treacherous and longer than usual. Accumulations averaged between 2 and 4 inches. No serious accidents were reported. Specific accumulations included 4.5 inches in High Point (Sussex County), 4 inches in Wantage (Sussex County), 3 inches in Rockaway Township and Butler (Morris County), 2.7 inches in Marcella (Morris County), 2.5 inches in Phillipsburg (Warren County) and 2 inches in Long Valley (Morris County).

NJZ007>008

Warren - Morris

12	2300EST						
13	0300EST			0	0		Freezing Rain

NJZ001

Sussex

13	0000EST						
	0700EST			0	0		Ice Storm

A dry and cold dome of high pressure built into the Northeast on the 11th and 12th. Meanwhile, a low pressure system was developing over the Central States. This low moved northeast from Iowa the morning of the 12th to Lake Superior the morning of the 13th. The low's warm front also moved northeast from the Tennessee Valley the morning of the 12th to the Delmarva Peninsula the morning of the 13th. Relatively warmer air that moved northeast over this frontal boundary developed clouds and precipitation. While it was warm enough above the ground for precipitation to fall as rain, the cold air left in place by the high pressure system made it freeze on contact during the late evening of the 12th and the morning of the 13th in Sussex County and colder spots in Warren and Morris Counties. Warm air near the ground moved into the region and changed precipitation over to plain rain by around 3 a.m. EST in Morris and Warren Counties and in Sussex County by around daybreak. This took the longest over northwest parts of Sussex County where precipitation nearly ended as freezing rain. About .1 of an inch of ice accrued on exposed surfaces in Warren and Morris Counties. But totals reached as much as half an inch in the higher terrain of northwest Sussex County. Any untreated roadways or walkways were extremely hazardous.

NJZ020-026

Western Ocean - Eastern Ocean

14	0600EST						
	1600EST			0	0		Wind

Strong, gusty west to northwest winds following a cold frontal passage buffeted Ocean County during the day on the 14th. The winds also

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW JERSEY, South and Northwest

developed waves on Barnegat Bay. The wave action caused some minor flooding along some bayside streets in Seaside Park. The peak wind gust at the Lakehurst NAS was 48 mph.

Atlantic County

Countywide	21	0500EST 2000EST			0	0	Heavy Rain
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Cape May County

Countywide	21	0500EST 2000EST			0	0	Heavy Rain
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Cumberland County

Countywide	21	0600EST 2000EST			0	0	Heavy Rain
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Ocean County

Countywide	21	0600EST 2000EST			0	0	Heavy Rain
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Burlington County

Countywide	21	0700EST 2000EST			0	0	Heavy Rain
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Middlesex County

Countywide	21	0700EST 2000EST			0	0	Heavy Rain
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Monmouth County

Countywide	21	0700EST 2000EST			0	0	Heavy Rain
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NJZ018

Camden

21		2029EST 2157EST			0	0	Flood
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A low pressure system that developed along the Gulf Coast brought heavy rain, particularly to the southeast half of New Jersey. Rain began around daybreak on the 21st and fell heavy at times during the late morning and the first half of the afternoon. The rain ended during the early evening. The heavy rain caused ponding of water in poor drainage areas and minor flooding along the Cooper River in Camden County. The Cooper River at Haddonfield reached its 2.8 foot flood stage at 829 p.m. EST on the 21st, crested at 2.82 feet at 845 p.m. EST and was back within bankfull at 957 p.m. EST on the 21st. The intensifying low pressure system also produced strong northeast winds, with peak wind gusts of between 40 and 49 mph reported.

Storm totals included 2.54 inches in Freehold (Monmouth County), 1.81 inches in Seabrook (Cumberland County), 1.80 inches in Estell Manor (Atlantic County), 1.71 inches at the Atlantic City International Airport, 1.70 inches in Atsion (Burlington County), 1.57 inches in Red Bank (Monmouth County), 1.56 inches in Mount Laurel (Burlington County), 1.55 inches in Cherry Hill (Camden County) and 1.49 inches in Somerdale (Camden County).

The low pressure system developed in the Gulf of Mexico on the 19th and moved slowly northeast. It reached Georgia the morning of the 20th, North Carolina the morning of the 21st and was about 100 miles east of the New Jersey coast by the morning of the 22nd.

NJZ016>019-021>025 Salem - Gloucester - Camden - Burlington - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic

26		0500EST 1030EST			0	0	Snow
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A vigorous upper air disturbance produced snow showers across southeast New Jersey during the morning of the 26th. Accumulations averaged between 1 and 2 inches. Secondary and tertiary roadways were slippery, mainly before sunrise. Specific accumulations included 2.5 inches in Atco (Camden County), 1.6 inches in Mount Laurel (Burlington County), 1.5 inches in Mount Holly (Burlington County), 1 inch in Estell Manor (Atlantic County) and New Lisbon (Burlington County) and 0.5 inches in Margate (Atlantic County). This was the last widespread measurable snow of the season for Southeast New Jersey.

Cumberland County

Countywide	29	1300EST 1000EST			0	0	Heavy Rain
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Salem County

Countywide	29	1300EST 1100EST			0	0	Heavy Rain
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Atlantic County

Countywide	29	1400EST 1200EST			0	0	Heavy Rain
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Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
NEW JERSEY, South and Northwest							
Gloucester County							
Countywide	29	1400EST			0	0	Heavy Rain
	30	1300EST					
Ocean County							
Countywide	29	1400EST			0	0	Heavy Rain
	30	1400EST					
Burlington County							
Countywide	29	1430EST			0	0	Heavy Rain
	30	1330EST					
Hunterdon County							
Countywide	29	1700EST			0	0	Heavy Rain
	30	1600EST					
Middlesex County							
Countywide	29	1700EST			0	0	Heavy Rain
	30	1600EST					
Morris County							
Countywide	29	1700EST			0	0	Heavy Rain
	30	1600EST					
NJZ010-015 Somerset - Mercer							
	30	0550EST			0	0	Flood
	31	2359EST					
Camden County							
Countywide	30	0659EST			0	0	Flood
		1635EST					
Monmouth County							
Countywide	30	1000EST			0	0	Flood
	31	0400EST					

Heavy rain fell across most of New Jersey on the 29th and 30th. The rain caused urban and poor drainage flooding as well as flooding across a few of the rivers, streams and creeks in the state. Light rain spread from south to north during the afternoon of the 29th and fell heavy at times during the late evening of the 29th and the morning of the 30th. The rain ended (again from the south to north) during the late morning and afternoon of the 30th. Storm totals averaged between 1.5 and 2.5 inches.

Monmouth County was one of the hardest hit counties. A senior citizen facility in Ocean Township was threatened by flooding along the Poplar Brook. Access to another senior citizen facility in Tinton Falls was blocked by four feet of standing water for several hours. Serious road flooding was also reported in the bayshore communities along New Jersey State Routes 35 and 36 as well as in Neptune, Manalapan and Oceanport. Flooding forced road closures in Holmdel Township. In Squankum, the Manasquan River was above its estimated flood stage of 7 feet from 1126 a.m. EST on the 30th through 4 a.m. EST on the 31st. It crested at 8.28 feet at 945 p.m. EST on the 30th.

In Somerset County, flooding along the Millstone River caused the closure of the Blackwells Mills and Griggstown Causeways. One road over the North Branch of the Raritan River was also closed between Branchburg and Bridgewater Townships. The Millstone River at Griggstown reached its 9 foot flood stage at 1040 a.m. EST on the 30th. It crested at 11.7 feet at 9 p.m. EST on the 30th, but took until 9 a.m. EST on April 1st to get back below flood stage. Farther downstream, the Millstone River at Blackwells Mills reached its 9 foot flood stage at Midnight EST on the 31st, crested at 9.7 feet at 230 a.m. EST and was back within bankfull at 137 p.m. EST on the 31st.

In Camden County, the Cooper River flooded and sent its waters into the backyards of several homes in Cherry Hill. At Haddonfield, the Cooper River reached its 2.8 foot flood stage at 659 a.m. EST on the 30th, crested at 3.22 feet at 845 a.m. EST and was back within bankfull at 435 p.m. EST on the 30th. In Mercer County, the Assunpink Creek was above its 7 foot flood stage from 550 a.m. EST through 853 p.m. EST on the 30th. It crested at 9.17 feet at 1250 p.m. EST.

Specific storm totals included 3.00 inches in New Monmouth (Monmouth County), 2.95 inches in Willingboro (Burlington County), 2.80 inches in Mount Ephraim (Camden County), 2.72 inches in Cherry Hill (Camden County), 2.60 inches in Trenton (Mercer County), 2.53 inches in Hightstown (Mercer County) and Somerdale (Camden County), 2.52 inches in Mount Laurel (Burlington County), 2.50 inches in Eatontown (Monmouth County), 2.47 inches in New Brunswick (Middlesex County) and Marlboro (Monmouth County), 2.46 inches in Verga (Gloucester County), 2.45 inches in Reigelsville (Hunterdon County), 2.43 inches in Sewell (Gloucester County), 2.36 inches in West Deptford (Gloucester County), 2.31 inches in Mount Holly (Burlington County), 2.24 inches in Keansburg (Monmouth County), 2.15 inches in Point Pleasant (Ocean County), 2.14 inches in Belle Mead (Somerset County), 2.10 inches in Bound Brook (Somerset County), 2.00 inches in Chatham (Morris County), 1.96 inches in Blackwells Mills (Somerset County), 1.93 inches in Flemington (Hunterdon County) and Freehold (Monmouth County), 1.89 inches in Morristown (Morris County), 1.88 inches in Washington's Crossing (Mercer County), 1.85 inches in Wertsville (Hunterdon County), 1.83 inches in Estelle Manor (Atlantic County) and 1.79 inches in Seabrook (Cumberland County)

Storm Data and Unusual Weather Phenomena

March 2001

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

NYZ009-017>018-022>025-036>037-044>046-056>057-062 **Northern Oneida - Southern Cayuga - Onondaga - Steuben - Schuyler - Chemung - Tompkins - Madison - Southern Oneida - Cortland - Chenango - Otsego - Broome - Delaware - Sullivan**

09	0300EST				0	0	Heavy Snow
	2000EST						

On March 9th, low pressure located in northern Pennsylvania on a north to south front tracked east to southern New England on the 10th. Steady snow moved in ahead of the intensifying storm on the morning of the 9th. Bands of heavy snow dropped 2 to 3 inches per hour. The heavy snow lasted 1 to 3 hours mainly between 6 AM and noon on the 9th. Snowfall totals were 4 to 10 inches. Some higher amounts occurred across the western Mohawk Valley and in the northern Catskills. Moisture from Lake Ontario helped increase the snow amounts in the Mohawk Valley. The snow ended from southwest to northeast starting around noon.

NYZ009-018-036>037-046-057-062 **Northern Oneida - Onondaga - Madison - Southern Oneida - Otsego - Delaware - Sullivan**

12	2300EST				0	0	Ice Storm
13	0900EST						

Low pressure moved across the western Great Lakes late on the 12th into eastern Canada on the 13th. Warm moist air moved over colder air at the surface. Precipitation fell as mostly freezing rain. Freezing rain amounts were around half an inch.

NYZ015>016-022>023 **Yates - Seneca - Steuben - Schuyler**

16	1300EST				0	0	Heavy Snow
18	0500EST						

A slow moving storm system in the Ohio Valley on the 16th moved east to western Pennsylvania on the 17th then to the New Jersey coast early on the 18th. During the day, rain fell in the valleys with wet snow and rain at the higher elevations. Mostly snow fell at the higher elevations at night. Snowfall amounts at the higher elevations were 6 to 12 inches from northeast Steuben County east to southern Seneca County and northeast Schuyler County. Heavy snow fell during the early afternoon of the 17th.

NYZ022>024-036-045>046-056>057 **Steuben - Schuyler - Chemung - Madison - Chenango - Otsego - Broome - Delaware**

21	0900EST				0	0	Heavy Snow
22	2300EST						

A late winter storm along the middle Atlantic coast on the 21st moved north to the New Jersey coast early on the 22nd, before moving northeast out to sea. Precipitation moved in the morning of the 21st to counties near the Pennsylvania border. The precipitation was mostly snow, but valleys had a mix of rain and snow. By evening the precipitation was across all the counties. Most of the snow fell overnight from the 21st into the 22nd. The greatest amounts of snow were at the highest elevations. The snow was heavy and wet with water equivalents mostly between 1 and 1.5 inches. Snowfall amounts in these areas were 6 to 12 inches.

NYZ009 **Northern Oneida**

24	1600EST				0	0	Heavy Snow
25	1300EST						

A cold arctic airmass moved east across Lake Ontario on the 24th. Snow moved into central New York the afternoon of the 24th. A band of lake effect snow set up over northern Oneida County around 10 PM on the 24th and remained into the morning of the 25th. The snow tapered off to snow showers and flurries midday on the 25th. Most locations got 6 to 8 inches, but 14 inches fell in Point Rock.

NYZ009-036-057 **Northern Oneida - Madison - Delaware**

29	1400EST				0	0	Heavy Snow
30	2100EST						

A strong low pressure system in Maryland early on the 30th moved to near Cape Cod late that same day. Precipitation moved in ahead of the storm around 2 PM on the 29th. Precipitation became steady that evening, then become heavy at times early on the 30th. The precipitation tapered off to showers during the afternoon and early evening. Heavy wet snow fell at elevations above 1500 feet. Rain or a mix of precipitation types fell at lower elevations. The greatest snow was at the highest elevations in eastern Delaware County with 12 inches. 7 to 9 inches fell in the Tug Hill Plateau in northeast Oneida County and in the headwaters of the Chenango River in Madison County. Water equivalent amounts were 1 to 2 inches.

NYZ055 **Tioga**

31	0000EST				0	0	Flood
	0400EST						

The river forecast point of Waverly on the Susquehanna River near the Pennsylvania border rose to 10.75 feet early on the 31st. Flood stage at Waverly is 11.0 feet. The impact of nearing 11 feet causes minor flooding in the Cannonhole neighborhood just east of Waverly. The river at Waverly was just over 4 feet early on the 30th. This crest was in response to heavy rain of 1.0 to 1.3 inches in the valleys. Heavy wet snow fell across areas above 1000 feet.

NEW YORK, Coastal

NYZ067>073-076>081 **Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - New York (Manhattan) - Bronx - Queens - Nassau - Northwest Suffolk - Northeast Suffolk - Southwest Suffolk - Southeast Suffolk**

05	1400EST				0	0	Winter Storm
06	1700EST						

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW YORK, Coastal

A complex and slow-moving coastal storm affected much of southeast New York and Long Island from Sunday March 4th through the early morning hours of Wednesday March 7th. This storm was accompanied by a mixture of snow, sleet, freezing rain and rain through the early portion of the event, and mainly heavy snow for the remainder of the event. Gusty winds and minor to moderate coastal flooding and beach erosion also occurred along coastal portions of Long Island.

On Sunday March 4th, a strong low pressure system moved east across the Tennessee Valley, while a new low slowly developed off the Mid Atlantic coast. The precipitation shield accompanying this complex storm system moved north and reached southeast New York in the form of spotty light snow and sleet by Sunday afternoon. The precipitation intensified Sunday night and early Monday, but as warmer air moved into the region aloft, the snow changed to a mixture of sleet, freezing rain and rain by Monday morning along coastal sections. Some portions of interior southeast New York received several inches of snow from this initial surge of precipitation.

During Monday March 5th, the new low pressure system off the Mid Atlantic coast began to intensify rapidly. This spread heavy precipitation across eastern Long Island from the east by Monday afternoon and evening. As colder air was drawn into the storm's circulation, the precipitation changed to heavy wet snow by Monday evening across eastern Long Island. Snowfall rates of two to three inches per hour for at least 3 hours were common across most of Suffolk County through the early portion of Monday night. This heavier snow also began to move west, spreading across western Long Island and the New York City area later Monday night into Tuesday.

Bands of moderate to heavy wet snow continued into Tuesday across much of southeast New York, extending back into interior sections as the low slowly drifted north off the eastern end of Long Island. This coastal low then became nearly stationary during Tuesday, and even retrograded slightly to the southwest during Tuesday afternoon. This prolonged the periods of moderate to heavy wet snow across most of southeast New York into the late afternoon hours on Tuesday. The storm finally began to retreat east off the New Jersey coast Tuesday night and Wednesday, allowing the snow to taper off and end by early Wednesday morning on March 7th.

The combination of very heavy wet snow and strong winds with this prolonged coastal storm produced scattered power outages across southeast New York, primarily across Suffolk County. In addition, many schools and businesses were closed for several days due to the hazardous nature of this storm.

Here are some storm total snowfall amounts:

For Orange County: 6 inches at Middletown, to 13 inches at Monroe and Tuxedo Park.

For Putnam County: 6 inches at Carmel, to 14 inches at Mahopac.

For Rockland County: 4.5 inches at Valley Cottage, to 7.6 inches at Stony Point.

For Westchester County: 5.5 inches at New Rochelle, to 9.5 inches at Yonkers.

For New York County (Manhattan): 3.5 inches at Central Park, to 6 inches at Columbia University.

For Bronx County: 4 inches to 6.7 inches.

For Kings County (Brooklyn): 2.5 inches at Bay Ridge, to 4.2 inches at Gravesend.

For Richmond County (Staten Island): 3 inches at New Dorp, to 3.8 inches at Grasmere.

For Queens County: 3.7 inches at John F. Kennedy International Airport, to 6.0 inches at La Guardia Airport.

For Nassau County: 4 inches at Sea Cliff, to 7.4 inches at Hicksville.

For Suffolk County: 5.6 inches at Montauk Point, to 16.0 inches at East Setauket and Huntington.

Kings County

Countywide	21	1800EST	0	0	Heavy Rain
	22	1800EST			

Richmond County

Countywide	21	1800EST	0	0	Heavy Rain
	22	1800EST			

New York County

Countywide	21	1900EST	0	0	Non Tstm Wind
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Suffolk County

Countywide	21	1900EST	0	0	Heavy Rain
	22	1900EST			

A strong and slow-moving coastal storm produced widespread heavy rain and strong gusty winds throughout southeast New York from

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW YORK, Coastal

Wednesday March 21st through Thursday March 22nd. A tight pressure gradient between the intensifying low pressure system off the mid Atlantic coast and a strong high pressure system over the Canadian Maritimes produced wind gusts between 40 and 50 mph from Wednesday afternoon into early Thursday morning. These strong wind gusts caused several buildings in Manhattan to lose scaffolding and broke some windows. On Long Island and other portions of southeast New York, strong winds combined with nearly saturated ground from heavy rainfall, caused trees to fall onto power lines, and resulted in scattered power outages.

In addition to the strong gusty winds, heavy rainfall also occurred during this storm. Across the lower Hudson Valley, one to two inches of rain were common. Two to three inches of rain were common with this storm across New York City and Long Island, with some localized amounts reaching 4 inches. This triggered urban flooding in several areas, and created hazardous driving conditions for the Wednesday evening commute and the Thursday morning commute across the New York City metropolitan area.

Here are some storm total rainfall amounts:

For New York County (Manhattan): 2.31 inches at Central Park.

For Queens County: 1.91 inches at La Guardia Airport, to 2.25 inches at John F. Kennedy International Airport.

For Kings County (Brooklyn): 4.16 inches at Gravesend.

For Richmond County (Staten Island): 3 inches at Annadale.

For Nassau County: 1.48 inches at Hicksville, to 2.65 inches at Lido Beach.

For Suffolk County: 2.02 inches at St. James, to 3.08 inches at Upton.

Richmond County

Countywide	30	0945EST		0	0	Urban/Sml Stream Fld
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Bronx County

Countywide	30	1000EST		0	0	Urban/Sml Stream Fld
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Kings County

Countywide	30	1000EST		0	0	Urban/Sml Stream Fld
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New York County

Countywide	30	1000EST		0	0	Urban/Sml Stream Fld
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Queens County

Countywide	30	1000EST		0	0	Urban/Sml Stream Fld
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Nassau County

Countywide	30	1030EST		0	0	Urban/Sml Stream Fld
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Westchester County

Countywide	30	1030EST		0	0	Urban/Sml Stream Fld
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Suffolk County

Countywide	30	1100EST		0	0	Urban/Sml Stream Fld
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A low pressure system moved northeast along the mid Atlantic coast and produced widespread heavy rain across the New York City metropolitan area and Long Island beginning late Thursday night March 29th and ending by Friday evening March 30th. The low developed over the southeast states Thursday afternoon, and moved northeast to a position near Washington D.C. by early Friday morning. The low then continued moving northeast, passing across eastern Long Island early Friday afternoon, and off the New England coast by late Friday night. Strong "overrunning" of warm, moist air over a pre-existing colder airmass, combined with a strong easterly wind flow of moisture-laden air off the Atlantic Ocean, produced very heavy rainfall across New York City and Long Island during the daytime hours on Friday. Two to three inches of rain were common across much of southeast New York, with some localized amounts up to four inches, particularly across portions of Nassau and Suffolk counties. This created widespread urban and highway flooding during the Friday morning commute, which continued into the early afternoon hours. The rain finally tapered to showers later Friday afternoon, and ended by Friday night as the low departed off the New England coast.

Here are some storm total rainfall amounts:

For Westchester County: 2.24 inches at White Plains (Westchester County Airport).

For Bronx County: 2.90 inches.

For New York County (Manhattan): 2.37 inches at Central Park.

For Kings County (Brooklyn): 2.70 inches at Gravesend.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW YORK, Coastal

For Queens County: 1.99 inches at La Guardia Airport, to 2.41 inches at John F. Kennedy International Airport.

For Nassau County: 2.70 inches at Plainview, to 3.60 inches at Lynbrook.

For Suffolk County: 2.65 inches at Port Jefferson Station, to 3.50 inches at Sag Harbor.

NEW YORK, East

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

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

05	0700EST						Winter Storm
06	1900EST						

A large storm center formed off the mid Atlantic coast on the morning of March 5. The low proceeded slowly to the north, off the DelMarVa peninsula, then the coast of New Jersey, and reached just south of central Long Island by late in the day. During the overnight hours, a strong upper level disturbance, diving south from the eastern Great Lakes, added energy to the storm and forced it to temporarily track to the west and nearly stall near New York city. The cyclone pulled southeast away from Long Island later on March 6. This storm became the biggest nor'easter of the winter season as it produced an extended period of moderate to heavy snow, starting late Sunday night and not completely ending until the following Tuesday evening. In fact, in many places across eastern New York, this was the heaviest snowfall since the Blizzard of 93. Some sleet, and even freezing rain mixed in for a while Monday, from Albany southward. However the bulk of the precipitation fell as snow. The heaviest snow fell overnight from March 5th to the 6th, when 2 to 3 inch/hour snowfall rates were observed in many places.

After the two day snowstorm was finished, a general one to two feet of snow blanketed the region, with a noteworthy band of even heavier amounts across the Lake George Saratoga region, westward into the Mohawk Valley, as well as across the western Adirondacks.

Specific snowfall amounts included 17.1 inches officially at Albany. This was the 5th greatest snowstorm in March history. In Columbia county, East Chatham reported 16.1 inches. Millbrook in Dutchess County had 10.3 while New Paltz in Ulster County accumulated 17. Much heavier amounts included Gloversville with 25.2 inches, and Northville with 22, both located in Fulton County. In western Greene County, 25 inches fell at Prattsville and 26 at Windham. The city of Saratoga Springs was buried with 26 inches while Bolton Landing, Warren County, had 28 inches. The highest storm total was Whitehall in Washington County with a storm total of 29.8 inches!

The storm virtually shut the school system down for two days and disrupted most businesses. While the Albany International Airport was never officially closed, more than 100 flights were cancelled during the two day storm. Since the storm struck early, and was well forecast, N.Y.D.O.T. crews were able to keep major roadways open. Many people heeded the warnings, and remained off the roads, which actually led to an unusual paucity of weather related accidents. Very few, if any, power outages were reported.

Two factors made the arduous snowfall removal a bit easier. First, temperatures rose slightly above freezing after the storm. Second, there was a limited amount of wind. Some wind at the storm's departure, did produce blowing and little drifting of the snow, mainly in outlying regions. However, the magnitude of wind fell well short of blizzard criteria.

**NYZ033-039>041-049-
051-054-058-061-063** **Hamilton - Fulton - Montgomery - Northern Saratoga - Eastern Schenectady - Western Albany - Eastern Rensselaer - Western Greene - Eastern Columbia - Western Ulster**

09	1500EST						Winter Storm
10	0100EST						

Just as eastern New York State had recovered from the big snowstorm, another nor'easter moved up the coast, forming off the New Jersey coast early on Friday, March 9th, and reaching Cape Cod shortly after midnight. This storm was not nearly as powerful as its predecessor, nor did it include as much moisture. Snowfall amounts were somewhat elevation dependent and the snow had a high water content.

A swath of 6-12 inches fell across the Catskills, Mohawk Valley northward to Saratoga Springs and portions of the eastern Taconics. Specific amounts included 7 inches at Voorheesville in Albany county, 7 inches at Brainard in Columbia county, 7.5 inches in the city of Schenectady, 8.5 inches in Northville, Fulton county, 10 inches at both Windham, Green county and Slide Mountain in Ulster County.

The weight of snow, combined with the earlier storm, caused the roof of a cold-storage leather facility plant to collapse. around 3:30 PM. The plant is located on Harrison Street in Gloversville, Fulton County. No injuries were reported to the National Weather Service from that incident.

Since the storm fell at the beginning of the weekend, its impact on the region was somewhat minimized. Twenty-five vehicles became stuck on Corinth Mountain Road, in Saratoga County, but with no injuries or damage to the vehicles.

**NYZ032>033-
042>043-047-058-063** **Northern Herkimer - Hamilton - Warren - Washington - Schoharie - Western Greene - Western Ulster**

21	1800EST						Winter Storm
23	0000EST						

Low pressure, from eastern Georgia, moved to eastern North Carolina by the morning of March 21. The storm then tracked off

Storm Data and Unusual Weather Phenomena

March 2001

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

the Virginia coastline and up the eastern seaboard, to become the third nor'easter of the month. By the morning of March 23, the storm center had slowly progressed to the Gulf of Maine. Although not all that powerful, the storm had both Gulf and Atlantic moisture to work with. Heavy wet snow fell, accumulating 5 to 10 inches across the higher terrain of eastern New York, with most valley locations getting little or no slushy accumulation. This snow was heavy and wet enough to bring down limbs across the region. Wires and trees were reported down in Middelburgh, Schoharie county. Trees also fell across portions of Warren county. Specific snowfall amounts included 7 inches at Windham, Greene County, 10.5 inches at Indian Lake, Hamilton County, 8.7 inches at Summit, Schoharie County, 8.5 inches at Stillwater in Herkimer County and 7.6 inches in Warrensburg, Warren County.

An estimated 1,500 homes over the higher terrain across eastern New York state, were without power. Service was disrupted to about 100 phone customers in Warren County.

**NYZ032>033-
038>039-041>042-
047>048-058**

Northern Herkimer - Hamilton - Southern Herkimer - Fulton - Northern Saratoga - Warren - Schoharie - Western Schenectady - Western Greene

30	0800EST 1500EST				0	0	80K	Winter Storm
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A low pressure center formed over southeastern Pennsylvania early on March 29th. This storm tracked northeast, off the New Jersey coast, to become the fourth and final nor'easter of March. By the end of the day, this low pressure was centered north of Cape Cod. The storm was weak, however it tapped into a rich supply of Atlantic moisture. While a mix of snow sleet and rain fell in valley locations, very wet heavy snow once again buried portions of the higher terrain. Six to 12 inches of slushy snow fell over the Catskills, western Adirondacks and elevated sections of the Mohawk Valley. Specific amounts included 8 inches at East Jewett and 10 at Prattsville, both in Greene County. 8.5 and 8.7 inches fell in Galway and Hadely respectively, both in Saratoga County. 10 inches was reported in Delanson, Schenectady County and 11 inches in Summit, Schoharie County. 10.4 inches fell in the town of Warrensburg in Warren County.

The combination of wet snow and sleet produced downed limbs and trees throughout Herkimer county. On West German Street, in the town of Herkimer, a large tree uprooted and knocked down some wires. Wires were also downed at several other locations in other portions of Herkimer County, as well as places in Fulton and Schoharie Counties.

**Columbia County
Claverack**

30	1630EST 2000EST				0	0	15K	Flood
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Heavy rains and snowmelt produced a rapid run off of water into the Claverack Creek in Columbia county. As a result, the creek overflowed its banks and flooded portions of Webb Road.

NEW YORK, North

NYZ028-035

Northeast Clinton - Eastern Essex

05	1500EST				0	0	150K	Winter Storm
06	1500EST							

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from the region during Tuesday, March 6th. Snow overspread the area during Monday morning (March 5th) and became steady and heavier by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed. A number of accidents were reported. Generally, between 20 and 35 inches of snow fell. A few snowfall reports included: In eastern Essex county, Keeseville reported 29 inches while in northeast Clinton county, Harkness reported 34 inches.

NYZ029-031-034

Southern St. Lawrence - Southwest Clinton - Western Essex

05	2000EST				0	0	150K	Winter Storm
06	1500EST							

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from the region during Tuesday, March 6th. Snow overspread the area during Monday morning (March 5th) and became steady and heavier by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed. A number of accidents were reported. Generally, between 20 and 30 inches of snow fell except between 8 and 18 inches of snow fell in southern St. Lawrence. A few snowfall reports included: In western Essex county, Wilmington reported 26 inches while in southwest Clinton county, Ellenburg Depot had 26 inches. In southern St Lawrence county, Edwards received 8 inches.

NYZ027-030

Northern Franklin - Southern Franklin

05	2200EST				0	0	150K	Winter Storm
06	1500EST							

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from the region during Tuesday, March 6th. Snow overspread the area during Monday morning (March 5th) and became steady and heavier by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed. A number of accidents were reported. Generally, between 12 and 30 inches of snow fell. A few snowfall reports included: In northern Franklin county, Malone reported 13 inches while in southern Franklin county, Tupper Lake reported 29 inches.

NYZ026

Northern St. Lawrence

06	0300EST 1500EST				0	0	10K	Winter Storm
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Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NEW YORK, North

night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from the region during Tuesday, March 6th. Snow overspread the area during Monday (March 5th) and tapered off during Tuesday, March 6th. Some schools were closed. Snow accumulations were generally around 7 inches across northern St Lawrence county.

NYZ026>031-034>035 Northern St. Lawrence - Northern Franklin - Northeast Clinton - Southern St. Lawrence - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex

09	1800EST							
10	0300EST							Light Snow

A low pressure system reorganized off New England during Friday, March 9th. It then moved northeast away from the area on Saturday, March 10th. Snowfall accumulations were generally 2 to 4 inches with around 5 inches in the mountains. Slippery roads were reported.

NYZ026>031-034>035 Northern St. Lawrence - Northern Franklin - Northeast Clinton - Southern St. Lawrence - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex

13	0300EST							
	1100EST							Mixed Precipitation

Cold air allowed mixed precipitation to spread across the area during March 13th. Accumulations were generally in the 2 to 5 inch range with slippery roads reported.

NYZ026 Northern St. Lawrence

22	1200EST							
23	0300EST							Light Snow

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Steady snow fell across northern St Lawrence county. The snow was wet with some power outages reported. Snowfall was generally 6 inches or less.

NYZ029 Southern St. Lawrence

22	1200EST							
23	0300EST							Winter Storm

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Significant snow fell across the area. The snow was wet with power outages and a few accidents. Snowfall was generally around 7 inches but locally higher in the mountains.

NYZ027>028-030>031-034>035 Northern Franklin - Northeast Clinton - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex

22	1500EST							
23	0500EST							Winter Storm

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Significant snow fell across the area. The snow was heavy and wet with power outages reported and a number of accidents. Snowfall was generally 10 to 25 inches with the greatest amounts in the mountains. A few reports included: Clinton county...Ellenburg Depot 27.5 inches. Franklin county...Malone 26 inches.

NYZ027>028-030>031-034>035 Northern Franklin - Northeast Clinton - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex

30	1500EST							
31	0100EST							Winter Storm

A storm system moved slowly northeast along the New England coast Friday, March 30th and Friday night. Snow fell across the area, with generally between 5 and 14 inches of snow accumulation. The greatest amounts fell in the mountains. A few snowfall reports by county included: Clinton county...Ellenburg Depot 8 inches with 5 inches in Champlain. Essex county...14.2 inches in Newcomb with 7 inches in Wilmington. Franklin county...Tupper Lake reported 10 inches with 5 inches in South Bombay. The snow that fell was heavy and wet with slippery roads with some accidents.

NYZ026-029 Northern St. Lawrence - Southern St. Lawrence

30	1700EST							
	2300EST							Winter Storm

A storm system moved slowly northeast along the New England coast Friday, March 30th and Friday night. Steady snow fell across the area, especially across elevated terrain with lesser amounts in the valley. In general 7 inches or less of wet snow fell.

NEW YORK, West

NYZ005>006 Northern Cayuga - Oswego

01	0600EST							
								Heavy Snow

A single lake effect snow band developed off Lake Ontario in a cold westerly flow. The heaviest snow fell within a 10-mile wide area where the band was most persistent from northeast Wayne county across Northern Cayuga and Oswego counties. The Town of Martville, Cayuga county, reported 23" while Sodus, Hannibal, Fair Haven, Phoenix, Fulton and West Monroe all had between twelve and eighteen inches.

NYZ003>006-008-010>012-014-019>021 Monroe - Wayne - Northern Cayuga - Oswego - Lewis - Erie - Genesee - Wyoming - Ontario - Chautauqua - Cattaraugus - Allegany

04	2353EST							
06	0710EST							Heavy Snow

Storm Data and Unusual Weather Phenomena

March 2001

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

A complex low pressure system that plagued the Northeast brought significant snowfall to western and central New York. The snow in western New York came in two phases from Sunday night to early Monday morning (4th-5th) and again Monday night to Tuesday morning (5th-6th). The heaviest snow fell during the first period and was associated with upper level energy, while the second snow period resulted from the western fringe of a large coastal storm south of New England. East of Lake Ontario, the snow was nearly continuous from late Monday night through Tuesday morning (4th-6th). Snowfall totals for the 48-hour event were generally between 12-18" from the Genesee Valley eastward and 8-12" across far western New York. Specific storm totals reported...Niagara county: 9" North Tonawanda and Niagara Falls and 7" Youngstown; Erie county: 12" Wales, 11" Colden; 10" Boston and Buffalo; 9" Orchard Park, Lancaster and Amherst, and 8" Tonawanda, Alden and Grand Island; Orleans county: 11" Medina and 10" Lyndonville; Genesee county: 10" Pavilion and 9" Batavia; Wyoming county: 13" Portageville, 10" Warsaw, and 9" Bennington; Chautauqua county: 14" Sherman, 12" Frewsburg and Sinclairville, 10" Jamestown and 7" Silver Creek; Cattaraugus county: 14" Perrysburg, 13" Olean and Salamanca; 12" Franklinville and Little Valley, and 9" New Albion; Allegany county: 15" Angelica and Friendship, 14" Alfred, 12" Wellsville and Whitesville; Monroe county: 19" Mendon; 17" Greece, 16" Webster, 15" Honeoye Falls, 14" Penfield and Perinton and 10" Rochester; Livingston county: 19" Conesus, 16" Mount Morris, 14" Nunda and Dansville, 11" Avon; Ontario county: 13" Honeoye Lake and 12" Geneva; Wayne county: 21" Sodus, 14" Ontario, and 13" Newark and Palmyra; Cayuga county: 18" Fair Haven; Oswego county: 19" West Monroe; 16" Fulton, and 15" Oswego; Jefferson county: 9" Adams, and 8" Chaumont and Watertown; and Lewis county: 16" Castorland, 12" Lowville, 11" North Osceola, 9" and Highmarket.

NYZ006-008

Oswego - Lewis

09	1200EST				0	0	30K	Heavy Snow
	1600EST							

Low pressure along the New England coast intensified and produced a general snowfall across the North Country. Six to ten inches fell during the morning hours with seven inches reported in Redfield and 8" in North Osceola.

NYZ013

Livingston

16	0900EST				0	0	15K	Heavy Snow
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Low pressure moved across Ohio and Pennsylvania and stalled to our southeast. While most of the area received a general four to six inch snowfall some higher elevations of the Genesee Valley received six to ten inches of snow.

NYZ008-013>014

Lewis - Livingston - Ontario

22	0630EST				0	0	37K	Heavy Snow
	0730EST							

Deepening low pressure moved north along the Atlantic seaboard and spread wet snow across the entire region. While a general three to six inches fell in most areas, the higher elevations of the Finger Lakes and Tug Hill saw between eight and twelve inches.

NYZ008

Lewis

31	0940EST				0	0	10K	Heavy Snow
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Low pressure moved northeast along the Atlantic coast and spread snow across the north country. Snowfalls ranged from six to eight inches with higher amounts over the Tug Hill.

NORTH CAROLINA, Central

NONE REPORTED.

NORTH CAROLINA, Central Coastal

Dare County

Manteo

06	2100EST				0	0		Storm Surge
	07	0300EST						

Strong northwest winds of 40 mph caused soundside flooding of the causeway in Manteo, on Highway 12 in the town of Waves and flooding in Collington Harbor. These strong winds persisted for nearly 24 hours allowing the Pamlico Sound to cause soundside flooding.

NCZ093-095-098-103

Craven - Carteret - Onslow - Eastern Dare

13	0130EST				0	0	20K	High Wind (G55) ^M
	0330EST							

Strong northeast winds of 50 to 60 mph caused minor damage in coastal counties and along the Outer Banks. The worst damage reported was a roof that had been blown off of a business in Onslow County.

NCZ095-098-103>104

Carteret - Onslow - Eastern Dare - Eastern Hyde

20	1900EST				0	0	15K	High Wind (G52) ^M
	21	0500EST						

Strong northeast winds of 55 to 60 mph effected the Crystal Coast as well as the Outer Banks. A roof was destroyed on a home in Onslow county when a tree fell on the residence.

Beaufort County

Whichards Beach

21	0100EST				0	0		Storm Surge
	0400EST							

Strong east-northeast winds caused minor coastal flooding along the Pamlico River in Washington and Belhaven. Numerous roads were closed in Belhaven and Washington. Water reached a few structures along the river in the vicinity of Whichards Beach. Water damage was minimal.

Storm Data and Unusual Weather Phenomena

March 2001

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

NCZ060>061

Cherokee - Clay

20 0430EST

0 0

Winter Storm

21 1030EST

A low pressure system passing to the south and east of the southern Appalachians and Tennessee Valley dropped snow of varying depth. Around 12 inches fell on the highest elevations in Clay County. Little if any snow was reported elsewhere in Clay and Cherokee Counties.

NORTH CAROLINA, North Coastal

NONE REPORTED.

NORTH CAROLINA, Northwest and North Central

NCZ018

Watauga

05 0200EST

0 0

125K

High Wind

0700EST

High winds during the early morning of the 5th downed numerous trees in the Blowing Rock area of Watauga county. Several houses were damaged as winds ripped shingles off their roofs. One house suffered over \$50,000 damage as the roof was blown off and walls were damaged by the high wind. A number of trees were downed onto vehicles and buildings, resulting in numerous reports of minor damage.

NCZ001-018

Ashe - Watauga

06 0200EST

0 0

Heavy Snow

1900EST

NCZ001-018

Ashe - Watauga

06 1100EST

0 0

0

High Wind

1800EST

Snow during the 6th accumulated 4 to 10 inches across Ashe and Watauga counties.

High winds during the midday and afternoon of the 6th downed trees and power lines in Ashe and Watauga counties.

NCZ005

Rockingham

06 0900EST

0 0

15K

High Wind

1700EST

In Reidsville in Rockingham County, trees were downed onto power lines resulting in power outages. One tree was downed onto a house, causing serious damage to the roof.

NCZ001-018

Ashe - Watauga

20 1100EST

0 0

Heavy Snow

21 0200EST

NCZ003-018

Surry - Watauga

20 2100EST

0 0

30K

High Wind

21 0600EST

Snow from late in the morning of the 20th through the early morning of the 21st accumulated from 5 to 12 inches.

In Ashe and Watauga counties, the combination of the heavy wet snow and strong winds downed power lines with scattered power outages reported. In Watauga County there was also minor damage to several structures when trees land on them.

High winds In Surry County during the night of the 20th and the morning of the 21st downed trees and power lines. Several trees were downed onto cars.

NORTH CAROLINA, South Coastal

NCZ097-100>101

Pender - Brunswick - New Hanover

06 1100EST

0 0

High Wind (G50) ^M

1800EST

An intense low pressure system developed off the Atlantic seaboard, causing strong northwest winds to blow over the coastal counties of North Carolina. For most of the afternoon, winds were sustained at 30 to 35 mph with higher gusts. At the airport in Wilmington, the peak wind was measured by ASOS at 47 mph, and at the Southport Elementary School a gust to 46 mph was recorded. Further north along the coast in Pender county, Surf City measured a peak gust at 50 mph. At Sunspree in Wrightsville Beach, the winds topped out at 57 mph. No wind damage was reported.

Brunswick County

Long Beach

20 1730EST

0 0

Flash Flood

1900EST

New Hanover County

Wilmington

20 2015EST

0 0

50K

Flash Flood

2200EST

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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NORTH CAROLINA, South Coastal

Pender County

Watha to	20	2030EST			0	0	Flash Flood
Hampstead	21	0100EST					

A strong low pressure system caused gusty winds...but heavy rains during the afternoon and into the night accumulated 2 to 4 inches and caused widespread flash flooding over eastern Brunswick, New Hanover and Pender Counties.

At the Wilmington airport in New Hanover County, rainfall increased significantly between 8 and 9 pm, where 1.63 inches fell. This produce widespread street flooding across town. The New Hanover 911 center reported flooding on 17th and Dawson Streets, 3rd and Wooster, and 13th and Rankin. Flooding also occurred on the 1400 block of Market Street, and two feet of water was reported on Princess Place Drive. College Road also had extensive flooding, with several cars reported floating down the street or submerged near Greenbriar, causing an estimated \$50,000 damage.

Heavy rains also occurred in Pender County, where a spotter reported three inches of rainfall in the town of Watha with numerous streets flooded. In Hampstead, law enforcement reported flooding on Hwy 210, with flooding also on Hwy 53 between Atkinson and Maple Hill. A law enforcement vehicle was traveling east on Hwy 53 when he hydroplaned off the road. No injuries were reported.

Brunswick County had flooding in the town of Long Beach. Law enforcement reported street flooding, not only due to rainfall, but to some minor storm surge from strong onshore winds. Police reported over 1 1/2 feet of ocean water on Beach Road.

NORTH CAROLINA, Southwest

NCZ033>037-048>059-062>072-082 **Avery - Caldwell - Alexander - Iredell - Davie - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Mcdowell - Burke - Catawba - Rowan - Graham - Northern Jackson - Macon - Southern Jackson - Transylvania - Henderson - Polk - Rutherford - Cleveland - Lincoln - Gaston - Mecklenburg - Cabarrus - Union**

01	0000EST				0	0	Drought
31	2359EST						

Despite beneficial rain during March, the drought continued to grip most of the area. Severe water restrictions were implemented in parts of the North Carolina piedmont, where reservoir had dropped to all-time low levels. In Concord, food establishments were asked to use paper and plastic products to conserve water.

NCZ033-049>050 **Avery - Yancey - Mitchell**

04	2200EST				0	0	Snow
05	0300EST						

Rain changed over to snow and accumulated a bit. Most accumulations were on grassy areas but a few icy spots developed on roads.

NCZ033-048>050 **Avery - Madison - Yancey - Mitchell**

06	0000EST				0	0	Blizzard
	1500EST						

NCZ033-048>054-058>059-062>066 **Avery - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Mcdowell - Graham - Northern Jackson - Macon - Southern Jackson - Transylvania - Henderson - Polk**

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

NCZ051>055-059-063 **Swain - Haywood - Buncombe - Mcdowell - Burke - Northern Jackson - Southern Jackson**

06	0700EST				0	0	Heavy Snow
	1200EST						

NCZ034-036-055-057-068-070 **Caldwell - Iredell - Burke - Rowan - Cleveland - Gaston**

06	1000EST				0	0	High Wind (G55)
	1500EST						

Low pressure developed off the mid-Atlantic coast late on the 4th and steadily strengthened as it crept slowly up the coastline. Moisture advected into the region as it began to intensify contributed to light snowfall accumulations in the northern Mountains late on the 4th through early on the 5th. As the storm strengthened even more on the 5th and 6th, colder air filtered into the region and interacted with the tightening pressure gradient and the abundant flow of air off the Atlantic Ocean on the backside of the system to set up a full-fledged blizzard across most of the higher terrain.

Winds estimated at over 55 knots were sustained for several hours. One measured report from Flat Top Mountain, in southeast Buncombe County, came in at 60 knots. Widespread power outages were reported from the mountains. There were numerous trees and power lines brought down by the high winds, and these were not confined just to the higher terrain. In Alexander County, for example, two fallen trees downed by the winds also brought down power lines, resulting in widely different outcomes. One sparked a fire while the other fell on a car, fortunately without injuring its occupants.

As colder air wrapped around the developing tempest as it meandered off the New England coast, heavy snow blanketed much of extreme western North Carolina. The highest snowfall accumulations were along and near the Tennessee border in Avery County. Newland and Sugar Mountain each received 18 inches of snow, while between 12 and 15 inches were reported at Beech Mountain. However, even some inland locations, such as the higher-elevation foothill town of Jonas Ridge, reported between 8 and 10 inches of snow.

Storm Data and Unusual Weather Phenomena

March 2001

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

NCZ033-051>053	Avery - Swain - Haywood - Buncombe						
	15	0100EST 0700EST			0	0	Snow
	A cold front, accompanied by abundant low level moisture, crossed the region early on the 15th, resulting in a light blanket of fresh snow.						
NCZ048	Madison						
	20	0500EST 1200EST			0	0	Heavy Snow
NCZ051-058-062-066	Swain - Graham - Macon - Polk						
	20	0700EST 1300EST			0	0	Heavy Snow
NCZ034>036-049>050-052>057-059-062>071	Caldwell - Alexander - Iredell - Yancey - Mitchell - Haywood - Buncombe - Mcdowell - Burke - Catawba - Rowan - Northern Jackson - Macon - Southern Jackson - Transylvania - Henderson - Polk - Rutherford - Cleveland - Lincoln - Gaston - Mecklenburg						
	20	0700EST 1500EST			0	0	1M High Wind (G55)
NCZ033-048>050-052>055-059-063>065-067>068	Avery - Madison - Yancey - Mitchell - Haywood - Buncombe - Mcdowell - Burke - Northern Jackson - Southern Jackson - Transylvania - Henderson - Rutherford - Cleveland						
	20	0800EST 2200EST			0	0	Heavy Snow

Low pressure developed off the South Carolina coast and steadily strengthened as it moved northward across the coastal waters of North Carolina, the Virginia tidewater and eventually out to sea. Rapid strengthening occurred as a strong upper level disturbance rotated around an upper low that was crossing the southeast states. As the cyclone strengthened, abundant moisture was wrapped around the storm and thrown back against the higher terrain of the Carolinas, resulting in high winds and very heavy snow.

The heaviest snow accumulations were in far western North Carolina. The highest accumulations were 24 to 30 inches at Sugar Mountain, Beech Mountain and Newland in Avery County, at Mount Mitchell in southern Yancey County and in a narrow swath along the border between Madison and Haywood counties. However, accumulations of over a foot were reported from most mountain counties, including Buncombe, Haywood, Jackson, Macon, Mitchell, and Transylvania. Accumulations of over a foot also extended into the extreme western foothills, where Jonas Ridge and Little Switzerland each recorded between 12 and 16 inches of snow. East of the higher terrain, snowfall amounts ranged from 2 to 5 inches from northern Caldwell county southward to Morganton, Marion, Lake Lure and Tryon. Isolated 2 inch amounts came from as far east as Casar in northern Cleveland County.

Wind damage was far more widespread than the heavy snow, for most foothill and piedmont areas experienced numerous downed trees and power lines, although damage appeared to take on a more scattered character as one moved east away from the higher terrain. The highest wind gust was an estimated 80 knots from a cooperative observer at Flat Top Mountain in southeast Buncombe County.

NORTH DAKOTA, Central and West

NONE REPORTED.

NORTH DAKOTA, East

NONE REPORTED.

OHIO, East

NONE REPORTED.

OHIO, North

OHZ010>013-019>023-029>030	Lorain - Cuyahoga - Lake - Geauga - Huron - Medina - Summit - Portage - Trumbull - Richland - Ashland						
	05	1900EST			0	0	390K
	06	1200EST					Heavy Snow
	North to northwest winds across Lake Erie caused lake effect snow showers to develop during the evening of the 5th. Most of the snow fell during the early morning hours of the 6th. The biggest accumulations occurred in the secondary snowbelt where 10 to 12 inches of snow fell across northern sections of Medina, Summit and Portage Counties. 6 to 7 inches of snow accumulated as far south as Richland and Ashland Counties and as far west as Huron County. 11 inches of snow also fell in Geauga county with 6 to 9 inches of snow elsewhere in the primary snowbelt.						
OHZ011>014	Cuyahoga - Lake - Geauga - Ashtabula						
	26	1400EST			0	0	180K
	27	0700EST					Heavy Snow

Northwest winds across Lake Erie caused lake effect snow showers to develop during the afternoon of the 26th. The heaviest snow fell

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>OHIO, North</u>							
							during the late evening hours. Accumulations of up to 8 inches were reported in Lake, Ashtabula and Geauga Counties with around 7 inches of snow in eastern Cuyahoga County.
<u>OHIO, Northwest</u>							
							NONE REPORTED.
<u>OHIO, Southeast</u>							
OHZ066>067-075>076-083>087							
							Perry - Morgan - Athens - Washington - Jackson - Vinton - Meigs - Gallia - Lawrence
	13	1600EST 1800EST			0 0		Wind
							A cold pocket of air aloft triggered instability showers in a wake of a cold frontal passage. The showers helped drag down momentum from aloft. Wind gusts of 40 to 50 mph were common.
<u>OHIO, Southwest</u>							
Greene County							
Xenia	13	1545EST 1550EST			0 0		Hail (0.75)
Hamilton County							
Cincinnati	13	1545EST			0 1		Lightning
							A woman was injured when lightning struck the building and went through electronic equipment into her phone headset.
Hamilton County							
Countywide	13	1545EST 1600EST			0 0	25K	Thunderstorm Wind (G50)
							A thunderstorm produced strong winds which knocked down a few trees and power lines.
Warren County							
9 NW Lebanon	13	1553EST 1557EST			0 0	50K	Thunderstorm Wind (G55)
							A roof was blown off a paper factory and trees were knocked down.
Warren County							
Springboro	13	1605EST 1610EST			0 0		Hail (0.75)
Clinton County							
Wlmngtn Indus Arprt to Martinsville	13	1610EST 1625EST			0 0	30K	Thunderstorm Wind (G56) ^M
							Thunderstorm winds gusted to 65 mph at the Wilmington Industrial Airport. Also, a metal building was blown over in a mall parking lot in Wilmington. A roof was blown off of trailer home in Martinsville.
Fayette County							
South Plymouth to Washington Court Hou	13	1630EST 1635EST			0 0	10K	Thunderstorm Wind (G50)
							A Semi truck was blown over along State Route 218 in Washington Court House and trees were knocked down in South Plymouth.
Highland County							
Hillsboro	13	1640EST 1645EST			0 0	5K	Thunderstorm Wind (G55)
							Numerous trees down citywide
Butler County							
Trenton to Middletown	13	1705EST 1710EST			0 0	3K	Thunderstorm Wind (G50)
							Trees downed in eastern part of county.
Warren County							
Springboro	13	1735EST 1740EST			0 0	2K	Thunderstorm Wind (G50)
							Large tree limbs downed
Butler County							
9 N Hamilton	13	1752EST 1755EST			0 0		Hail (0.88)

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>OKLAHOMA, Eastern</u>							
OKZ066							
		Okmulgee					
	01	0000CST			0	0	Flood
	03	0400CST					
	The Deep Fork river near Beggs rose above its flood stage of 18 feet at 4 am cst on February 25. The river crested at 21.3 feet at 7 pm cst on February 28. The river did not fall below its flood stage until 4 am cst on March 3.						
Osage County							
Hominy	11	2318CST			0	0	Thunderstorm Wind (G52)
Creek County							
Bristow	11	2324CST			0	0	Hail (1.00)
Tulsa County							
Sand Spgs	11	2324CST			0	0	Thunderstorm Wind (G52)
Creek County							
3 SSE Bristow	11	2330CST			0	0	40K Thunderstorm Wind
	Thunderstorm winds blew the roof off a house and a garage. The wind also blew the cover off a hot tub and the hood off of a car. Several trees were also uprooted.						
Osage County							
Avant	11	2330CST			0	0	0.10K Thunderstorm Wind
	Thunderstorm winds blew a large tree down onto Highway 20.						
Okfuskee County							
10 N Okemah	11	2335CST			0	0	0.10K Thunderstorm Wind
	Thunderstorm winds blew down several large tree limbs.						
Tulsa County							
Tulsa	11	2335CST			0	0	Thunderstorm Wind (G50)
Okmulgee County							
7 N Beggs	11	2345CST			0	0	Hail (0.75)
Tulsa County							
3 W Bixby	11	2345CST			0	0	Thunderstorm Wind (G61)
Washington County							
Bartlesville	11	2345CST			0	0	Hail (0.75)
Rogers County							
Talala	12	0000CST			0	0	Thunderstorm Wind (G52)
Wagoner County							
Coweta	12	0005CST			0	0	0.10K Thunderstorm Wind
	Thunderstorm winds blew down large tree limbs.						
Muskogee County							
Haskell	12	0006CST			0	0	Thunderstorm Wind (G52)
Nowata County							
Nowata	12	0015CST			0	0	0.10K Thunderstorm Wind
	Thunderstorm winds blew down several large tree limbs.						
Craig County							
7 SSW Vinita	12	0025CST			0	0	0.10K Thunderstorm Wind
	Thunderstorm winds blew down several large tree limbs at Big Cabin.						
Mayes County							
Pryor	12	0025CST			0	0	Hail (0.88)
Cherokee County							
2 N Hulbert	12	0045CST			0	0	Hail (0.88)
OKZ058							
		Ottawa					
	17	0400CST			0	0	Flood
	18	0600CST					
	The Neosho river near Commerce rose above its flood stage of 15 feet at 4 am cst on March 17. The river crested at 15.8 feet at 7 pm cst on March 17 before falling below its flood stage at 6 am cst on March 18.						

OKLAHOMA, Extreme Southeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>OKLAHOMA, Panhandle</u>							
Texas County							
Texhoma	10	1745CST			0 0		Hail (0.75)
Beaver County							
Turpin	10	1850CST			0 0		Hail (0.75)
Hail was reported to have accumulated to a depth of three inches.							
Beaver County							
8 W Forgan	10	1920CST			0 0		Hail (0.88)
Severe thunderstorms developed over the central and eastern Oklahoma panhandle during the early evening hours producing large hail.							
OKZ001>002							
Cimarron - Texas							
	14	1910CST 1950CST			0 0		High Wind (G54) ^M
Reported at the Boise City Mesonet which is located three miles south southeast of Boise City.							
Wind gust of fifty-three knots was reported at the Goodwell Mesonet site which is located two miles east of Goodwell.							
Beaver County							
6 S Beaver	14	2107CST			0 0		Hail (1.00)
Beaver County							
6 S Beaver	14	2128CST			0 0		Hail (1.00)
Beaver County							
6 S Beaver	14	2128CST			0 0	6K	Thunderstorm Wind (G61)
Power poles and street stop signs were blown down.							
Beaver County							
4 S Beaver	14	2139CST			0 0	4K	Thunderstorm Wind (G60)
Four power poles were blown down and pieces of metal were found in fence rows.							
Beaver County							
10 E Beaver	14	2145CST			0 0	3K	Thunderstorm Wind (G60)
Tree limbs were reported down and a large fiberglass tank was seen rolling down the road.							
High non-thunderstorm winds along with severe thunderstorms containing large hail and damaging winds occurred across the Oklahoma panhandle during the early evening hours.							
OKZ001							
Cimarron							
	17	1200CST			0 0		Heavy Snow
	18	0600CST					
Eight inches of snow fell at Boise City.							
A developing upper low pressure system tracked from Utah across southern New Mexico and then northeast across the southern Texas panhandle. At the surface...a cold front ushered in much colder Canadian air and a moist upslope flow combined with the upper low to produce heavy snowfall over the western Oklahoma panhandle.							
Cimarron County							
Griggs	23	1446CST			0 0		Hail (1.00)
Texas County							
10 N Guymon	23	1500CST			0 0		Hail (0.88)
Hail was reported to be two inches deep by an Exxon oil worker at their headquarters.							
Severe thunderstorms with large hail developed during the afternoon across the western and central Oklahoma panhandle.							
<u>OKLAHOMA, Western, Central and Southeast</u>							
Jefferson County							
Addington	11	2018CST			0 0		Hail (0.75)
Caddo County							
2 W Cyril	11	2148CST			0 0		Hail (0.88)
Logan County							
5 S Crescent	11	2204CST			0 0		Hail (0.88)
Garvin County							
2.5 N Maysville	12	0000CST			0 0		Hail (0.75)
McClain County							
6 SW Wayne	12	0000CST			0 0		Hail (0.75)

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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OKLAHOMA, Western, Central and Southeast

OKZ004>006-009>011-014>017-022>023-033>038 **Harper - Woods - Alfalfa - Ellis - Woodward - Major - Roger Mills - Dewey - Custer - Blaine - Washita - Caddo - Harmon - Greer - Kiowa - Jackson - Tillman - Comanche**

15	0940CST 1800CST				0 0	100.5K	High Wind (G50)
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Northwest winds between 35 and 45 mph with gusts near 60 mph developed across western Oklahoma from mid-morning through the afternoon of the 15th. Winds were in response to intense low pressure near the Kansas/Oklahoma border. Lesser wind speeds spread eastward into the remainder of central and southeast Oklahoma during the afternoon, with speeds averaging 30 mph and gusts near 50 mph. Regarding damage, a portion of the roof was blown off at Lakeside Theater in Woodward in Woodward County, and trees were downed across Ellis County. Six to seven cars were also blown off the road near Laverne in Harper County.

Murray County

4 W Davis	23	1924CST			0 0		Hail (0.88)
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Carter County

2 N Graham	23	1938CST			0 0		Hail (0.75)
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Jefferson County

1 W Ringling	23	2000CST			0 0		Hail (0.75)
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Carter County

5 S Healdton	23	2035CST			0 0		Hail (1.00)
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Carter County

4 S Wilson	23	2100CST			0 0		Hail (0.75)
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Atoka County

5 E Stringtown	23	2125CST			0 0		Hail (0.75)
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Pontotoc County

Fittstown	23	2205CST			0 0		Hail (1.00)
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Oklahoma County

Oklahoma City	30	1800CST			0 0	500K	Lightning
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Lightning struck a building at the StoneBrook Apartments on Britton Road, igniting a fire which heavily damaged 2 units and caused minor damage to several others.

OREGON, Central and East

ORZ044

Lower Columbia Basin

13	1430PST 1600PST				0 0	0 0	High Wind (G58)
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High winds developed during the afternoon in the Lower Columbia Basin in Oregon. At 3 pm, sustained winds of 44 mph with gusts of 53 mph were recorded at the ASOS site at the Hermiston Airport. Farther west, a spotter in Boardman estimated wind gusts ranging from 65 to 70 mph.

ORZ042

North Central Oregon

13	1430PST 1550PST				0 0	25K 0	High Wind (G52) ^M
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High winds toppled an old barn in the Tygh Valley, which is located east of Mt. Hood, during the afternoon. Several RAWS sites measured wind gusts at or above 60 mph. These include Patgens (elevation 2350 ft), which measured a gust of 60 mph at 250 pm PST, and North Pole Ridge (elevation 3480 ft) which recorded a gust of 68 mph at 3:30 pm.

ORZ045

Foothills Of The Blue Mountains

13	1630PST				0 0	0 0	High Wind (G36) ^M
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At the Pendleton Airport, the ASOS recorded sustained winds of 41 mph with gust as high as 48 mph during the late afternoon.

ORZ046

Blue Mountains

15	1700PST				0 0	10K	Snow
16	0500PST						

Overnight snow in the Blue Mountains brought hazardous conditions that forced the closure of Interstate-84 near Meacham between 3 and 4 am on the 16th. Several semi-trucks spun out on snow covered roads beginning around 1:30 am. At Meacham, 5 inches of snow fell overnight..

OREGON, Northwest

ORZ001>002

Northern Oregon Coast - Central Oregon Coast

01	0600PST 2200PST				0 0		High Wind (G59) ^M
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A strong Pacific storm brought high winds to the North and Central Oregon Coastal areas. On the Central Oregon Coast, Newport reported winds to 50 mph with gusts to 68 mph, and Florence reported winds to 62 mph. On the North Oregon Coast, Netarts reported winds of 40 to 50 mph with gusts to 59 mph, and Tillamook reported winds to 46 mph.

Storm Data and Unusual Weather Phenomena

March 2001

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

NONE REPORTED.

OREGON, Southwest

NONE REPORTED.

PACIFIC

NONE REPORTED.

PENNSYLVANIA, Central

PAZ004>006-010>012-017>019-024>028-033>037-041>042-045>046-049>053-056>058-063>064
Warren - Mckean - Potter - Elk - Cameron - Northern Clinton - Clearfield - Northern Centre - Southern Centre - Cambria - Blair - Huntingdon - Mifflin - Juniata - Somerset - Bedford - Fulton - Franklin - Tioga - Northern Lycoming - Sullivan - Southern Clinton - Southern Lycoming - Union - Snyder - Montour - Northumberland - Columbia - Perry - Dauphin - Schuylkill - Cumberland - Adams

04	0700EST								
07	0400EST			0	0	150K		Heavy Snow	

Low pressure moving up from the Tennessee Valley spread snow into central Pennsylvania early on the morning of March 4th. The snow tapered off to flurries and drizzle during the evening hours of the 4th, leaving much of central and western sections of WFO CTP forecast area with 3 to 6 inches of snow. In the far southeast, the snow was mixed with rain and sleet as it fell. During the evening of the 4th, another round of snow developed over western portions of the area, leaving an additional 3 to 8 inches of snow by the morning of March 5th. Again, far southern portions of the Lower Susquehanna Valley were warm enough for mostly rain to fall. On the 5th, a strong coastal low developed which brought more significant snow to the far northeast and the Laurel Highlands. Snow from this slow moving coastal storm lasted into the early morning hours of March 7th. Storm snowfall totals ranged from an inch or two of wet snow and sleet over York, Lancaster, and Lebanon counties, to 12 to 15 inches across the northern tier and 15 to 20 inches over the Laurel Highland counties of Cambria and Somerset.

Although impact from the storm was far reaching, little in the way of damage was reported. There were several automobile accidents reported throughout the region, with several injuries. Many businesses and schools were closed on March 5th. Airports cancelled or delayed many flights.

Adams County

Countywide	13	2130EST				0	0	1K	Thunderstorm Wind
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A line of strong thunderstorms clipped southern Adams County during the evening of March 13th. Trees were reported down across the county, blocking several roads.

York County

Spring Grove	13	2203EST				0	0		Thunderstorm Wind (G61) ^M
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A severe thunderstorm produced a 61 mph wind gust in Spring Grove. No damage was reported.

PAZ033-037-042 Somerset - Tioga - Sullivan

21	1200EST					0	0		Heavy Snow
22	1200EST								

Deep low pressure moved up the Middle Atlantic coast on March 16th. This system spread snow across most of central Pennsylvania. Heavier snow amounts were reported in the far northeastern counties of Tioga (6 to 12 inches) and Sullivan (4 to 6 inches). Orographically enhanced snow also accumulated in Somerset County where 6 inches was reported.

PENNSYLVANIA, East

PAZ067-070>071 Chester - Delaware - Philadelphia

04	0700EST					0	0		Wintry Mix
05	1600EST								

PAZ054>055-060>062-068>069 Carbon - Monroe - Berks - Lehigh - Northampton - Montgomery - Bucks

04	0800EST					0	0		Winter Storm
07	0200EST								

An intensifying low pressure system brought a protracted wintry mix of precipitation to Eastern Pennsylvania on the 4th and 5th and to the Poconos through the 6th. Precipitation began as rain across extreme southeast Pennsylvania around daybreak on the 4th. Farther to the north as a high pressure system built into northern New England, precipitation spread as light snow through the rest of the morning into the Poconos. As precipitation intensity increased during the day, sleet and snow began to mix in around the Philadelphia area. As evening arrived, while warm air was moving in aloft, the northeast winds around the surface low pressure system to the south and the high pressure system over eastern New England, not only anchored the cold air in place, but started moving it southward. This continued a mixture of rain, freezing rain, sleet and snow through the night across extreme Southeast Pennsylvania. Farther to the north, precipitation changed to sleet and then freezing rain. This began during the early evening in the northern Philadelphia suburbs, late in the evening across Berks

Storm Data and Unusual Weather Phenomena

March 2001

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

County and the Lehigh Valley and after midnight in the Poconos. Toward daybreak on the 5th, cold air began moving in at all levels. This changed the rain to freezing rain in all areas of southeast Pennsylvania. Elsewhere precipitation changed to all snow. The change to all snow also spread across extreme southeast Pennsylvania around noon EST. The snow ended during the second half of the afternoon and during the early evening of the 5th across Eastern Pennsylvania. As the low retrograded a bit on Tuesday the 6th, steadier snow moved into the Poconos overnight on the 5th and persisted into the 6th. Elsewhere, the snow intensity was considerably lighter and fell mainly during the daytime of the 6th.

Throughout this event, ground temperatures were relatively warm across southeastern Pennsylvania and the snow had a difficult time accumulating, especially before nightfall on the 4th. Elsewhere, the change to sleet and snow compacted the accumulations. Total accumulations ranged from around one inch in the Philadelphia area, to around six inches in the Lehigh Valley and to around one foot in the Poconos. About one quarter to one third of an inch of ice accrued on exposed surfaces during the night of the 4th and morning of the 5th across the northern Philadelphia suburbs.

There were numerous minor accidents across the area. Many motorists were stranded in the Poconos. The one reported traffic fatality occurred on the 5th in Coolbaugh Township (Monroe County). A 54-year-old woman was killed when the driver of the vehicle on Pennsylvania State Route 611 lost control and struck a utility pole. In Monroe County, Interstate 80 was also closed for one hour because of a tractor trailer accident near Stroudsburg. Many businesses and schools were closed on the 5th. Schools around Philadelphia dismissed children early as the precipitation changed to snow on the 5th. Snow emergencies were declared by many municipalities. Many flights were cancelled from Lehigh Valley International Airport. Some schools were also closed on the 6th, but most just had delayed openings.

Specific accumulations included 14 inches in Tobyhanna (Monroe County), 11 inches in Pocono Summit (Monroe County), 8 inches in Saylorburg (Monroe County), 6.5 inches in Penn Forest Township (Carbon County), 6.2 inches in East Stroudsburg (Monroe County), 6 inches in Schnecksville (Lehigh County), 5.5 inches in Jim Thorpe (Carbon County), 5.3 inches in Bath (Northampton County), 4.6 inches in Springtown (Bucks County), 4 inches in Easton (Northampton County), Palm (Montgomery County) and Southampton (Bucks County), 3.4 inches in Honey Brook (Chester County), 3 inches in Sellersville and Doylestown (Bucks County), 2 inches in Morgantown and Reading (Berks County), 1.8 inches in Crum Creek (Delaware County) and 1 inch at the Philadelphia International Airport.

The low pressure system developed over the western Gulf of Mexico on the 3rd. By the morning of the 4th, the surface low had moved northeast into eastern Tennessee. The low continued to move northeast and was over the Delmarva coastal waters on the morning of the 5th. It then began to intensify as it moved toward Cape Cod. The later intensification prevented heavier snow from occurring farther to the south with this system. An upper level low then captured the surface system and dragged it westward (retrograded) toward the coast on the 6th before it headed east for good on the 7th.

PAZ054>055-061>062 Carbon - Monroe - Lehigh - Northampton

09	0100EST						
	0900EST			0	0		Snow

A vigorous occluded front produced several hours of accumulating snow across the Lehigh Valley and the Poconos during the morning of the 9th. The snow began after midnight EST and ended between 7 a.m. and 9 a.m. EST. The morning commute was more treacherous and longer than usual. Accumulations averaged between 2 and 4 inches. No serious accidents were reported. Specific accumulations included 4 inches in Pocono Summit and Tobyhanna (Monroe County), 3 inches in Williams Township (Northampton County) and 2 inches in Bath (Northampton County).

PAZ054>055

Carbon - Monroe

12	2300EST						
13	0500EST			0	0		Ice Storm

PAZ060>062

Berks - Lehigh - Northampton

13	0000EST						
	0300EST			0	0		Freezing Rain

A dry and cold dome of high pressure built into the Northeast on the 11th and 12th. Meanwhile, a low pressure system was developing over the Central States. This low moved northeast from Iowa the morning of the 12th to Lake Superior the morning of the 13th. The low's warm front also moved northeast from the Tennessee Valley the morning of the 12th to the Delmarva Peninsula the morning of the 13th. Relatively warmer air that moved northeast over this frontal boundary developed clouds and precipitation. While it was warm enough above the ground for precipitation to fall as rain, the cold air left in place by the high pressure system made it freeze on contact during the early morning of the 13th in Berks County, the Lehigh Valley and the Poconos. Warm air near the ground moved into the region and changed precipitation over to plain rain by around 3 a.m. EST in Berks County and the Lehigh Valley and by daybreak in the Poconos. The change took the longest over the higher terrain of the Poconos where precipitation nearly ended as freezing rain. About .1 to .2 of an inch of ice accrued on exposed surfaces in Berks County and the Lehigh Valley. But totals reached as much as half an inch in the higher terrain of the Poconos. Any untreated roadways or walkways were extremely slippery. School openings in the Poconos were delayed for two hours the morning of the 13th.

Berks County

Countywide	29	1400EST					
	30	1500EST			0	0	Heavy Rain

Bucks County

Countywide	29	1400EST					
	30	1500EST			0	0	Heavy Rain

Storm Data and Unusual Weather Phenomena

March 2001

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

Chester County

Countywide	29	1400EST			0	0	Heavy Rain
	30	1500EST					

Delaware County

Countywide	29	1400EST			0	0	Heavy Rain
	30	1500EST					

Montgomery County

Countywide	29	1400EST			0	0	Heavy Rain
	30	1500EST					

Philadelphia County

Countywide	29	1400EST			0	0	Heavy Rain
	30	1500EST					

Heavy rain fell across Berks County and Southeast Pennsylvania on the 29th and 30th. The rain caused urban and poor drainage flooding and significant, but mainly within bankfull rises on creeks and streams. Light rain began falling during the afternoon of the 29th and fell heavy at times during the late evening of the 29th and the morning of the 30th. The rain ending during the afternoon of the 30th. Storm totals averaged around 2 inches. The Manatawny Creek in Pottstown crested at 4.56 feet at 10 a.m. EST on the 30th. Its flood stage is estimated at 4.5 feet. The East Branch of the Brandywine Creek at Downingtown came with 0.06 feet of its 7 foot flood stage at 830 a.m. EST on the 30th.

Specific storm totals included 3.00 inches in Wynnewood (Montgomery County), 2.31 inches in Neshaminy Falls (Bucks County), 2.30 inches in Springfield (Delaware County), 2.23 inches at the Franklin Institute within Philadelphia, 2.17 inches in Chadds Ford (Delaware County), 2.10 inches in Downingtown (Chester County), 1.99 inches in West Chester (Chester County), 1.90 inches in Palm (Montgomery County), 1.89 inches in Southampton (Bucks County), 1.87 inches in Glenmoore (Chester County), 1.85 inches in Doylestown (Bucks County), 1.78 inches in Valley Forge (Montgomery County), 1.72 inches in Doylestown (Bucks County), 1.68 inches in Pottstown (Montgomery County), 1.61 inches in Green Lane (Montgomery County), 1.57 inches in Morgantown (Berks County), 1.53 inches in Berne (Berks County) and 1.40 inches in Reading and Hamburg (Berks County).

A low pressure system developed over the Gulf of Mexico the night of the 28th. By the morning of the 29th, it moved northeast into the Florida Panhandle and by the morning of the 30th, it reached the Delmarva Peninsula. The low moved offshore that morning and by the morning of the 31st was located near Nova Scotia.

PAZ055

Monroe

29	1930EST			0	0	Ice Storm
30	1000EST					

An ice storm affected higher terrain locations of Monroe County during the night of the 29th and the morning of the 30th. While temperatures were warm enough in the valleys for rain, temperatures tenaciously lingered just below the freezing mark during the night over the higher terrain. Three quarters to around an inch of ice accrued on exposed surfaces. This took down power lines. About 600 customers lost power. The outages and ice mainly affected Mount Pocono, Coolbaugh and Tobyhanna Townships. A low pressure system developed over the Gulf of Mexico the night of the 28th. By the morning of the 29th, it moved northeast into the Florida Panhandle and by the morning of the 30th, it reached the Delmarva Peninsula. Surface winds remained from the northeast and this surface direction prevented above freezing temperatures from spreading throughout the Poconos. Untreated roadways were treacherous.

PENNSYLVANIA, Northeast

PAZ038>040-

Bradford - Susquehanna - Wayne - Wyoming - Lackawanna - Luzerne - Pike

043>044-047>048

04	1300EST			0	0	Heavy Snow
06	1700EST					

A major winter storm moved slowly north along the east coast of the United States. The storm was on the Virginia coast on the afternoon of the 4th. Snow moved north quickly into northeast Pennsylvania that afternoon. Snowfall rates were one inch an hour. The snow continued for the most part continuously for two days. Midday on the 5th, the storm was off the New Jersey coast. The storm then moved very little until late on the 6th when it moved east out to sea. Snowfall totals were 6 to 20 inches. The greatest amounts were in the northern tier.

PAZ038

Bradford

09	0300EST			0	0	Heavy Snow
	1600EST					

On March 9th, low pressure located in northern Pennsylvania on a north to south front tracked east to southern New England on the 10th. Steady snow moved in ahead of the intensifying storm on the morning of the 9th. Bands of heavy snow dropped 2 to 3 inches per hour. The heavy snow lasted 1 to 3 hours mainly between 7 AM and 10 AM on the 9th. Snowfall totals were 4 to 8 inches. The snow ended from southwest to northeast starting around noon.

PAZ039>040-048

Susquehanna - Wayne - Pike

12	2100EST			0	0	Ice Storm
13	0900EST					

Low pressure moved across the western Great Lakes late on the 12th into eastern Canada on the 13th. Warm moist air moved over colder

Storm Data and Unusual Weather Phenomena

March 2001

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

San Juan And Vicinity

North Portion	07 09	2200AST 1100AST			0 0	5K	Coastal Flooding
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A strong low pressure system north of the area caused large northwest swells to move across the coastal waters. These swells began to arrive on Wednesday night and continued into Friday morning. The most affected areas were the west and north coasts of the island where various coastal roads were inundated especially at times of high tide. Emergency Managers indicated road 681 in Barceloneta, road 187 in Loiza, and various roads in Aguadilla and Mayaguez were directly affected by the heavy surf with water, sand and debris. In Yumet sector in Aguadilla these swells partially destroyed a boardwalk and street lightning. In Higuely sector, also in Aguadilla, various boats and a drydock were partially damaged.

Elsewhere, in Manati Beach two people were walking along the beach Wednesday night when they were overtaken by the large waves and pulled out to sea. One person was able to reach land. The other one disappeared and was presumed dead.

Northeast

Loiza	10	1300AST 1330AST			1 0		High Surf
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A woman drowned in Pinones beach when strong waves pulled her out to the sea. F37IW

San Juan And Vicinity

Toa Baja	11	1500AST 1530AST			0 2	2K	High Surf
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In Palo Seco beach two people suffered lacerations when riding their jet skis. They lost control and crashed into the reef.

Northeast

Naguabo	22	0600AST 0800AST			0 0		Urban/Sml Stream Fld
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Heavy rains during the night and early morning hours caused Blanco River to overflow its banks over road 31 near La Fe sector.

Northeast

Ceiba	23	1300AST 1500AST			0 0	5K	Urban/Sml Stream Fld
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Heavy rains caused a small stream to overflow its banks in a poor drainage area affecting 10 houses in Aguas Claras sector with mud and water.

Central Interior

Jayuya	24	1530AST 1730AST			0 0		Urban/Sml Stream Fld
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An Emergency Manager indicated that Rio Jayuya went out of its banks in Jayuya, flooding nearby areas. In addition five people were trapped in the river, when a sudden water rush forced them to climb a rock in the middle of the stream. They were later rescued unharmed.

RHODE ISLAND

RIZ001>004

Northwest Providence - Southeast Providence - Western Kent - Eastern Kent

05	1300EST				0 0	10M	Heavy Snow
06	2300EST						

A major winter storm impacted central and northern Rhode Island with heavy snow and strong winds. The slow-moving storm, which tracked south of New England, dumped more than a foot of snow across Providence and Kent counties and knocked out power to tens of thousands of customers. Schools and businesses were shut down for three days in some communities.

Officially, T.F. Green State Airport in Warwick reported a storm total of 6.5 inches. Other areas of Kent County reported 6 to 10 inches of snow from the storm. In Providence County, as much as 16 inches of snow fell in North Foster. Burrillville and Lincoln both reported totals of 14 inches, North Smithfield 13 inches, and Cumberland, Johnston, and Woonsocket had 10 inches of snow.

RIZ001

Northwest Providence

09	1500EST				0 0	500K	Heavy Snow
10	0800EST						

A winter storm tracking from the Great Lakes to just south of New England brought heavy snow to northern Providence County. The highest snowfall totals were found in the higher elevations, where 6 to 8 inches of snow fell.

Providence County

Cranston	22 23	0630EST 2215EST			0 0		Flood
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Pawtuxet River at Cranston

RIZ001

Northwest Providence

22	1201EST				0 0	3M	Flood
24	0409EST						

Blackstone River at Woonsocket

Storm Data and Unusual Weather Phenomena

March 2001

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

A small F0 tornado intermittently touched down along a 5 mile path in rural southeast Richland county. Trees were topped and some were taken down.

SOUTH CAROLINA, North Coastal

Horry County

5 SW Conway 15 1030EST 0 0 3K Thunderstorm Wind (G61)

An estimated 70 mph straight line wind gusts from the SE blew apart 2 east-facing post and sheet metal construction horse stables on Hodges Road. 2 of the 6 horses in the stables sustained minor cuts. There was no damage to nearby double-wide and single-wide trailers, with minor damage to a shed.

Horry County

**Surfside Beach to
North Myrtle Beach 20 1530EST
1830EST 1 0 50K Flash Flood**

A low pressure system caused heavy showers and wind gusts 30 to 50 mph that downed a few powerlines...but widespread rainwater flooding along the Grand Strand caused more serious problems. Radar rainfall estimates and local reports indicated 2-4 inches of rain in a couple of hours, and 6 inches to 2 feet of water flooded many roads and intersections. Police reported 30 roads were barricaded. A 7 year old boy drowned when he ventured into a flooded ditch along Sycamore Street near the entrance of Sea Gate Village.
M71W

Georgetown County

**Georgetown to
Andrews 20 1530EST
1700EST 1 0 25K Urban/Sml Stream Fld**

Heavy rains and clogged drains contributed to localized flooding in the town of Andrews. On US 17A, 4 miles west of Georgetown a motorist was killed and two were injured when a car hydroplaned into another vehicle.
M29VE

SOUTH CAROLINA, Northwest

SCZ001>014-019 Oconee Mountains - Pickens Mountains - Greenville Mountains - Greater Oconee - Greater Pickens - Greater Greenville - Spartanburg - Cherokee - York - Anderson - Abbeville - Laurens - Union - Chester - Greenwood

01 0000EST 0 0 Drought
31 2359EST

Despite beneficial rain during March, the drought continued to grip most of the area. The rainfall deficit for the 34-month period ending March 31 surpassed 36 inches by the end of the month.

SCZ001>003 Oconee Mountains - Pickens Mountains - Greenville Mountains

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

Low pressure developed off the mid-Atlantic and steadily strengthened as it crept northward up the Atlantic seaboard. As the storm grew stronger, the pressure gradient increase over the region resulted in very high winds.

SCZ005 Greater Pickens

13 1700EST 0 0 5K Gusty Wind

Gusty winds, estimated at 45 knots, late in the afternoon of the 13th blew over a greenhouse at a discount store in Easley. The structure blew into an adjacent greenhouse with employees in it.

SCZ004>005-010-012 Greater Oconee - Greater Pickens - Anderson - Laurens

20 0500EST 0 0 Snow/Sleet
1200EST

SCZ001>014-019 Oconee Mountains - Pickens Mountains - Greenville Mountains - Greater Oconee - Greater Pickens - Greater Greenville - Spartanburg - Cherokee - York - Anderson - Abbeville - Laurens - Union - Chester - Greenwood

20 0700EST 0 0 High Wind (G55)
1500EST

SCZ001>002-006>007 Oconee Mountains - Pickens Mountains - Greater Greenville - Spartanburg

20 0700EST 0 0 Heavy Snow
1300EST

Low pressure developed off the South Carolina coast and steadily strengthened as it moved northward across the coastal waters of North Carolina, the Virginia tidewater and eventually out to sea. Rapid strengthening occurred as a strong upper level disturbance rotated around an upper low that was crossing the southeast states. As the cyclone strengthened, abundant moisture was wrapped around the storm and thrown back against the higher terrain of the Carolinas, resulting in high winds and snow, which was heavy in a few locations.

The highest snowfall report from western South Carolina occurred in the watershed area of northern Greenville County, near Table Rock, where 8 to 12 inches of snow fell. Caesars Head reported 6 inches of snow, and the Cliffs of Glassy Mountain checked in with 5 inches. Most of the other significant accumulations in western South Carolina were confined to the mountainous regions bordered by Highway 11, with 4 to 6 inch accumulations reported from northern Pickens and northern Oconee counties. The town of Salem checked in with 5 inches.

Storm Data and Unusual Weather Phenomena

March 2001

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

Outside of the mountains, Landrum, in northwest Spartanburg County, led all reporting stations with 5 inches...with isolated 4 inch amounts from southern Greenville County.

Winds were estimated at between 40 and 50 mph at most upstate locations during the height of the storm, although gusts higher than that occurred in the higher terrain. Many thousands of trees were downed in the mountains, while the number of downed trees in the foothills and piedmont was more scattered in nature. The character of the wind in the mountains was a steady 35 to 45 mph wind of long duration, with gusts to near 60. However, damage was most significant in the foothills and piedmont, despite slightly lower speeds estimated there. An outbuilding in northern Abbeville County was destroyed, along with most of the contents. The porch and roof of the house on the property were also damaged. A dock was torn from a pier at Hartwell Lake, setting boats adrift. 100 trees were downed in Easley. In Spartanburg county, a roof was blown off a mobile home, and a county sheriff car was blown off the road at Pauline. An awning was torn of a storefront in Anderson County. Some trees fell on structures and vehicles throughout the upstate region.

SOUTH CAROLINA, South Coastal

Allendale County

10 SW Barton	04	0100EST			0	0	Thunderstorm Wind (G50)
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Few trees down along State Road 3.

Allendale County

3 S Ulmers	04	0120EST			0	0	Thunderstorm Wind (G50)
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Several trees down along U.S. Highway 321.

Jasper County

3 NW Pineland	04	0130EST			0	0	Thunderstorm Wind (G50)
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Several trees down, one fell on a building, and several large limbs down.

Hampton County

3 NE Varnville	04	0140EST			0	0	Thunderstorm Wind (G50)
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Several trees down.

Berkeley County

1 N Goose Creek	04	0240EST			0	0	Thunderstorm Wind (G50)
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Several trees and numerous large branches down.

Colleton County

Smoaks	04	0140EST			0	0	Thunderstorm Wind (G50)
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Several trees and large limbs down.

Dorchester County

2 S Ridgeville	04	0210EST			0	0	Thunderstorm Wind (G50)
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Several trees and large limbs down.

Dorchester County

2 E Harleyville	15	0930EST			0	0	Thunderstorm Wind (G52)
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Front porch torn off of a mobile home, one automobile damaged from pieces of the wood from the porch, underskirting damaged on 3 mobile homes and a few shingles taken off a house.

Allendale County

Allendale	20	1104EST			0	0	Thunderstorm Wind (G50)
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Several large limbs down.

Jasper County

5 S Hardeeville	29	1215EST			0	0	Hail (0.75)
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Beaufort County

3 W Pritchardville to 5 W Pritchardville	29	1230EST			0	0	Hail (0.75)
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Beaufort County

2 SE Beaufort	29	1240EST			0	0	Thunderstorm Wind (G50)
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SOUTH DAKOTA, Central and North

SDZ033

Stanley							
	14	1000CST			0	0	Flood
		2200CST					

The Bad River rose above flood stage to 22.1 feet near Fort Pierre. As a result, a trailer park and some agricultural land near the river received some minor flooding.

SDZ006

Brown							
	28	0700CST			0	0	Flood
	31	2359CST					

The James River at Columbia went above flood stage and rose to nearly 15 feet by the end of the month. As a result, flooding of agricultural land and a few secondary roads occurred.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>TEXAS, Central</u>							
Fisher County							
Rotan	08	1512CST			0 0		Hail (1.75)
Fisher County							
Roby	08	1535CST			0 0		Hail (1.00)
Taylor County							
Buffalo Gap	08	1616CST			0 0		Hail (1.00)
Taylor County							
3 N Trent	08	1700CST			0 0		Hail (0.88)
Coleman County							
Silver Vly	08	1750CST			0 0		Hail (0.88)
Coleman County							
Coleman	08	1830CST			0 0	2.8M	Hail (1.75)
Hail up to the size of golf balls fell across a large part of the city of Coleman, causing extensive damage to area roofs and vehicles. Local insurance agencies reported nearly 1000 insurance claims, with damage reaching almost 3 million dollars.							
Coleman County							
Santa Anna	08	1852CST			0 0		Hail (1.00)
Although scattered severe thunderstorms produced dime to nickel size hail on the evening of the 8th, the most extensive damage was the result of a long lived supercell. This supercell began in Fisher County near Rotan and tracked across part of Taylor County before striking the city of Coleman. Many roofs and automobiles were damaged in Coleman, with extensive damage reported.							
Menard County							
7 N Ft Mckavett	11	2015CST			0 0		Hail (0.75)
Brown County							
Zephyr	11	2044CST			0 0		Hail (0.88)
Brown County							
Indian Creek	11	2045CST			0 0		Hail (1.75)
Mcculloch County							
Brady	11	2102CST			0 0		Hail (0.75)
Mcculloch County							
Lohn	11	2223CST			0 0		Hail (0.75)
TXZ066-072-139							
Runnels - Tom Green - Coleman							
	14	0639CST 0900CST			0 0	8K	High Wind
Scattered light showers produced very high winds across parts of the Concho Valley and Heartland. The showers allowed much higher winds just above the ground to reach the surface and produce gusts estimated at 60 to 65 mph. Several large trees were uprooted in the city of Coleman, while a metal building had its roof ripped off in Runnels County.							
Taylor County							
Abilene	24	0048CST			0 0		Thunderstorm Wind (G52) ^M
A local TV station measured winds up to 60 mph.							
Taylor County							
4 SW Abilene	24	0055CST			0 0		Hail (0.88)
Throckmorton County							
2 S Throckmorton	24	0122CST			0 0		Hail (0.75)
Shackelford County							
Moran	24	0155CST			0 0	2K	Thunderstorm Wind
High winds downed a tree in Moran in southern Shackelford County, with the tree falling onto a parked vehicle. These winds also tore part of a roof off of an area barn.							
Scattered thunderstorms produced dime to nickel size hail and winds measured up to 60 mph across the Big Country during the early morning hours of the 24th. Minor damage was reported in Moran when high winds blew a tree onto a parked car.							
<u>TEXAS, Central Southeast</u>							
Montgomery County							
Egypt	08	1932CST			0 0	10K	Thunderstorm Wind
Trees down along FM 1488 between FM 2972 and SH 242.							
Montgomery County							
Oak Ridge North	08	1945CST			0 0	5K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
TEXAS, Central Southeast							
Montgomery County							
New Caney	08	1959CST			0 0	5K	Hail (0.75)
Liberty County							
Cleveland Muni Arpt	08	2020CST			0 0	10K	Thunderstorm Wind
Pine trees down west of airport.							
Grimes County							
Anderson	12	0345CST			0 0	10K	Thunderstorm Wind
Trees down along County Road 405.							
Grimes County							
Iola	12	0346CST			0 0	10K	Thunderstorm Wind
Trees down along FM 1696.							
Montgomery County							
3 S Montgomery to Montgomery	12	0430CST			0 0	10K	Thunderstorm Wind
Trees down at FM 149 and Spring Branch Road and at FM 149 and Karen Switch Road.							
Walker County							
New Waverly	12	0435CST			0 0	10K	Thunderstorm Wind
Trees down at FM 1791 near Highway 30.							
Montgomery County							
Conroe	12	0505CST			0 0	10K	Thunderstorm Wind
Trees down on River Plantation Road near I-45.							
San Jacinto County							
Pointblank to Coldspring	12	0530CST			0 0	15K	Thunderstorm Wind
Trees down between Point Blank and Coldspring.							
Waller County							
Hempstead	14	1410CST			0 0	5K	Hail (0.75)
Austin County							
Sealy	14	1415CST			0 0	5K	Hail (0.75)
Waller County							
2 N Pattison to 6 NE Pattison	14	1420CST 1430CST			0 0	60K	Thunderstorm Wind
Trailer overturned, power lines down, and roof damage two miles north of Pattison. Roofs damaged and trees down along FM 529 from Pattison to the county line.							
Montgomery County							
The Woodlands	14	1438CST			0 0		Funnel Cloud
Funnel cloud at Woodlands Parkway and Kuykendahl Road.							
Harris County							
Cypress	14	1440CST			0 0	10K	Hail (1.00)
Harris County							
Houston	14	1450CST 1510CST			0 0	20K	Thunderstorm Wind
Numerous reports of trees down on north and west sides of Houston.							
Harris County							
Spring	14	1500CST 1515CST			0 0	10K	Hail (0.75)
Hail accumulated to a depth of three inches at Interstate 45 and FM 1960.							
Harris County							
Houston	14	1505CST 1530CST			0 0	20K	Thunderstorm Wind
Numerous reports of trees down throughout Houston.							
Montgomery County							
Porter	14	1505CST			0 0	10K	Hail (1.75)
Montgomery County							
Splendora	14	1530CST			0 0	5K	Hail (0.75)
Liberty County							
Plum Grove	14	1545CST			0 0	5K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

March 2001

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

Harris County

Webster	14	1550CST			0	0	5K	Thunderstorm Wind
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Tree down blocking street.

Brazoria County

Pearland	14	1555CST			0	0	15K	Thunderstorm Wind
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Numerous trees and street signs down near County Road 90 and FM 518.

Wharton County

Boling	14	1619CST			0	0	5K	Thunderstorm Wind
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12 inch diameter tree limb blown down blocking Texas Street.

Wharton County

Boling	14	1620CST			0	0	10K	Thunderstorm Wind
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Large oak tree blown down in Pysen Oaks Subdivision off FM 442.

Brazoria County

Alvin	14	1630CST			0	0	15K	Thunderstorm Wind
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Numerous trees and street signs down.

Galveston County

Friendswood	14	1630CST			0	0	10K	Hail (0.88)
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Galveston County

Santa Fe	14	1635CST 1640CST			0	0	40K	Thunderstorm Wind
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Numerous fences and trees down in Bay Colony.

Galveston County

Dickinson	14	1636CST			0	0		Thunderstorm Wind (G54) ^M
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Harris County

Countywide	14	1640CST 1655CST			0	0	15K	Thunderstorm Wind
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Numerous trees down in southern Harris County.

Galveston County

Texas City	14	1645CST			0	0		Thunderstorm Wind (G57) ^M
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Galveston County

Galveston	14	1654CST			0	0		Funnel Cloud
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Galveston County

Galveston	14	1700CST			0	0	20K	Thunderstorm Wind
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Utility poles and power lines down; broken windows at a car dealership.

Washington County

Brenham	27	1335CST			0	0	5K	Hail (0.75)
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Washington County

Brenham	27	1345CST			0	0	5K	Hail (0.75)
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Harris County

Houston	27	1435CST			0	0	10K	Hail (0.75)
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Galveston County

Hitchcock	27	1530CST			0	0	5K	Hail (0.75)
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Wharton County

El Campo	27	2040CST			0	0	5K	Hail (0.75)
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Harris County

Houston	28	0330CST 0600CST			0	0	20K	Flash Flood
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Flooding on Interstate 10 between Washington Street and Interstate 610.

Harris County

Houston	28	0420CST 0600CST			0	0	15K	Flash Flood
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Flooding on Milam and Travis Streets in downtown Houston.

Fort Bend County

6 SE Katy	28	0530CST 0730CST			0	0	10K	Flash Flood
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Flooding at Madden and Harlem Roads and along Bellaire Boulevard from State Highway 99 to Peek Road.

Storm Data and Unusual Weather Phenomena

March 2001

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

NONE REPORTED.

TEXAS, Mid - South

Victoria County

Mission Vly	08	2030CST			0	0	Hail (0.75)
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La Salle County

Fowlerton	28	0945CST			0	0	Hail (0.88)
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Live Oak County

5 N Three Rivers	28	1105CST			0	0	Hail (0.75)
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Hail fell on Interstate 37.

Bee County

Beeville	28	1123CST			0	0	Hail (0.75)
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TEXAS, North

Denton County

Sanger	11	0140CST			0	0	Flash Flood
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Roads were closed near Sanger due to high water.

Dallas County

Richardson	11	1415CST			0	0	Hail (0.88)
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Collin County

Plano	11	1440CST			0	0	Hail (0.88)
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Occurred in the southeast portion of the city.

Dallas County

Mesquite	11	1600CST			0	0	Flash Flood
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Water was reported over Highway 80 and Parkside.

Comanche County

Gustine	11	1727CST			0	0	Hail (1.00)
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Comanche County

Lamkin	11	1745CST			0	0	Hail (1.25)
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Hamilton County

Carlton	11	1808CST			0	0	Hail (0.75)
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Hamilton County

5 NW Hamilton	11	1830CST			0	0	Hail (1.50)
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Hamilton County

2 N Hamilton	11	1900CST			0	0	Hail (1.75)
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Bosque County

Cranfills Gap	11	1930CST			0	0	Hail (1.00)
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Bosque County

Clifton	11	1955CST			0	0	Hail (1.75)
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Mills County

Mullin	11	2000CST			0	0	Hail (1.50)
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Parker County

9 NW Weatherford	11	2028CST			0	0	Hail (0.75)
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Parker County

Poolville	11	2030CST 2035CST			0	0	Hail (1.00)
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Parker County

Springtown	11	2035CST			0	0	Hail (1.00)
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Wise County

4 SE Cottondale	11	2050CST			0	0	Hail (1.75)
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Tarrant County

Haslet	11	2100CST			0	0	Hail (1.00)
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Wise County

Briar	11	2100CST			0	0	Hail (1.75)
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Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
TEXAS, North							
Wise County							
Newark	11	2100CST			0 0		Hail (1.75)
Montague County							
3 S Nocona	11	2105CST			0 0		Hail (0.75)
Comanche County							
Comanche	11	2120CST			0 0		Hail (0.75)
Denton County							
2 W Lewisville	11	2130CST			0 0		Hail (1.00)
		Occurred in Flower Mound.					
Bosque County							
Lakeside Vlg	11	2300CST			0 0		Hail (1.00)
Mills County							
2 N Goldthwaite	11	2330CST			0 0		Hail (1.75)
Tarrant County							
Ft Worth	11	2340CST			0 0		Flash Flood
		High water was reported at Oakmont and Hulen streets.					
Dallas County							
Dallas	12	0045CST			0 0		Flash Flood
		Several streets were flooded and barricaded.					
Ellis County							
Ferris	12	0100CST			0 0		Hail (1.00)
March 11,12 - Episode Narrative							
An upper level low moved into the southern plains and thunderstorms were triggered as a series of short waves ejected out of the system. Most of the severe activity occurred north and west of a Stephenville, Dallas, Greenville line. However, locally heavy rain was reported across many areas, including southeastern portions of the region.							
TXZ148							
Anderson							
	14	0600CST			0 0		Flood
		Highway 287 north of Cayuga was closed due to flooding of the Trinity River. The event occurred in the morning hours (time is an estimate).					
TXZ116							
Palo Pinto							
	15	1953CST			0 0	5K	High Wind (G41) ^M
		Gradient wind gusts to 47 mph out of the northwest unroofed a business in downtown Mineral Wells.					
Palo Pinto County							
Graford	23	2315CST			0 0		Hail (1.00)
Palo Pinto County							
5 N Mineral Wells	23	2355CST			0 0		Hail (0.75)
Parker County							
1 W Whitt	23	2355CST			0 0		Hail (0.75)
Parker County							
7 E Dennis	24	0045CST			0 0		Hail (1.00)
		Occurred at Tin Top.					
Jack County							
1 S Perrin	24	0047CST			0 0		Hail (0.75)
Stephens County							
Caddo	24	0200CST			0 0		Thunderstorm Wind (G52)
		A large tree was blown down.					
Eastland County							
Eastland	24	0210CST			0 0		Hail (0.88)
Eastland County							
Eastland	24	0210CST			0 0		Thunderstorm Wind (G52)
		Large dumpsters were blown over and gas station signs were blown down.					

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>TEXAS, North</u>							
Parker County							
12 W Weatherford	24	0212CST 0220CST			0 0		Hail (1.00)
Eastland County							
Ranger	24	0225CST			0 0	5K	Thunderstorm Wind (G52)
The roof of a building was blown off.							
Palo Pinto County							
1 W Graford	24	0240CST			0 0		Hail (0.88)
Palo Pinto County							
Graford	24	0245CST			0 0		Hail (1.00)
Comanche County							
De Leon	24	0250CST			0 0		Hail (0.88)
Jack County							
3 S Bartons Chapel	24	0300CST 0430CST			0 0		Flash Flood
One lane of Highway 4 was closed due to high water.							
Grayson County							
Howe	24	0400CST			0 0		Flash Flood
Flood waters reached a depth of four feet on city streets. Two mobile homes were evacuated.							
Johnson County							
2 W Joshua	24	0434CST			0 0		Hail (0.75)

March 23-24, Episode Narrative

Another cold upper level low settled into the region. More thunderstorms were triggered by disturbances moving out of the low. Additionally, there was more heavy rain which fell onto already wet ground and created more flooding problems in some locations. Most of the activity was north and west of an Eastland, Waxahachie, Athens line.

TEXAS, North Panhandle

Sherman County							
6 E Stratford	10	1735CST			0 0		Hail (0.75)
Sherman County							
Texhoma	10	1740CST			0 0		Hail (1.00)
Moore County							
2 E Sunray	10	1905CST			0 0		Hail (0.75)
Moore County							
8 E Sunray	10	1915CST			0 0		Hail (1.00)
Hail reported to have covered the ground to a depth of two inches.							
Moore County							
12 SW Dumas	10	1939CST			0 0		Hail (0.75)
Severe thunderstorms developed during the early evening hours across the north central Texas panhandle producing large hail.							
TXZ001>008-010-013>014-017-019							
Dallam - Sherman - Hansford - Ochiltree - Lipscomb - Hartley - Moore - Hutchinson - Hemphill - Carson - Gray - Randall - Donley							
	14	1935CST 2300CST			0 0	120K	High Wind (G67) ^M
Sustained winds measured at the Dalhart ASOS. Other sustained winds across the north-central Texas panhandle were estimated to be forty to forty-five miles per hour. A SchoolNet site in Booker measured winds of sixty-seven knots as reported by a local television station. Tradewinds Airport...which is located two miles south of Amarillo...reported winds of fifty-eight knots.							
Very damaging non-thunderstorm winds ravaged much of the northern...central and eastern Texas panhandle during the evening hours. These winds resulted in numerous reports of telephone and power poles down...trailer homes blown over...windows of cars and businesses blown out...and a tractor-trailer rig blown off the road in and around Dumas. Also...windows were reported blown out of cars in Pampa by Pampa Central Dispatch.							
TXZ001>002-006							
Dallam - Sherman - Hartley							
	17	1200CST			0 0		Heavy Snow
	18	0600CST					
Four to five inches of snow fell in and around Dalhart.							
Five inches of snow fell in and around Stratford.							
A developing upper low pressure system tracked from Utah across southern New Mexico and then northeast across the southern Texas							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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TEXAS, North Panhandle

panhandle. At the surface...a cold front ushered in much colder Canadian air and a moist upslope flow combined with the upper low to produce heavy snowfall over the northwestern Texas panhandle.

Dallam County

2 SE Texline	23	1500CST 1510CST	0.1	25	0	0	Tornado (F0)
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Three public reports of a rope...thin tornado with no damage. The tornado remained over open country.

Dallam County

2 SE Texline	23	1522CST			0	0	Hail (1.00)
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Hutchinson County

7 E Borger	23	1823CST			0	0	Hail (1.00)
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Hutchinson County

9 E Borger	23	1858CST			0	0	Hail (0.88)
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Potter County

11 NW Amarillo	23	2002CST			0	0	Hail (0.75)
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Severe thunderstorms developed over the northwest through central Texas panhandle during the afternoon and evening hours producing large hail and an isolated tornado which stayed over open country and did not cause any damage.

TEXAS, Northeast

TXZ126

Marion

01	0000CST				0	0	Flood
25	2359CST						

Heavy rains through the early part of March combined with the already high water conditions on Caddo Lake. The result was some 150 homes in the Karnack, Uncertain, and Cypress Village areas inundated with high water. The lake crested at 175.6 feet. Flood stage is 172.0 feet. Damage figures were not available.

Smith County

Tyler	12	0238CST			0	0	Hail (0.75)
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Smith County

3 N Tyler	12	0245CST			0	0	34K Thunderstorm Wind (G68)
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A mobile home was flipped over and numerous trees were reported snapped and pushed over.

Gregg County

Liberty City	12	0305CST			0	0	Hail (0.75)
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Upshur County

East Mtn	12	0320CST			0	0	Hail (1.75)
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Morris County

Daingerfield	12	0325CST			0	0	Hail (0.75)
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Camp County

Pittsburg	12	0328CST			0	0	Hail (0.75)
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Marion County

10 W Jefferson	12	0335CST			0	0	Thunderstorm Wind (G52)
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Several large trees toppled near Lake O The Pines.

Rusk County

10 WSW Tatum to Tatum	12	0336CST 0348CST	10	300	0	0	300K Tornado (F1)
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This tornado continued into Panola County, Texas. A tornado developed on the southern most cell of a squall line as it moved eastward across the county. Six homes lost numerous shingle patches while one home lost part of its roof. Two churches suffered roof damage. Numerous snapped, broken or felled trees.

Panola County

Tatum to 5.8 ENE Tatum	12	0348CST 0355CST	5.8	250	0	0	5K Tornado (F1)
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This tornado continued from Rusk County, Texas. A tornado developed on the southern most cell of a squall line as it moved eastward across the county. Two homes lost numerous shingle patches. Numerous snapped, broken or felled trees.

Harrison County

Marshall	12	0350CST			0	0	12K Thunderstorm Wind (G70)
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A roof was blown off an old wood frame house in west Marshall from straight line winds (macroburst).

Harrison County

Marshall Northeast	12	0400CST 0407CST			0	0	Hail (1.00)
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Hail completely covered the ground while trees and vegetation were stripped.

Storm Data and Unusual Weather Phenomena

March 2001

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

Shelby County

Center	12	0440CST			0	0		Thunderstorm Wind (G58)
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Numerous trees were toppled near Hwy 138 and Hwy 96 in Center.

TEXAS, South

TXZ248>255

Zapata - Jim Hogg - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron

01	0000CST				0	0		Drought
31	0000CST							

Although beneficial rains fell in parts of deep south Texas, this moisture was not enough to replenish the very dry subsoil moisture. Therefore, a continuation of rainfall deficits and prolong period of very dry subsoil moistures, continue to keep deep south Texas in a moderate drought. In fact, most of the year to date departures from normal were below average. Mc Allen had the largest departure of 2.94 inches below normal. Most NWS observations and NWS Cooperative Observers reported year to date departures about a half to an inch below normal.

TEXAS, South Central

Kinney County

Brackettville	03	2350CST 2355CST			0	0	0	0	Hail (0.75)
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Kendall County

4 S Kendalia to 3.9 S Kendalia	08	1715CST 1716CST	0.2	50	0	0	0	0	Tornado (F0)
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A small and short-lived tornado was observed by Amateur Radio Spotters just south of Kendaia. The tornado was in open country and dissipated quickly, causing no damage.

Wilson County

7 W Floresville to 6.5 W Floresville	08	1720CST 1724CST			0	0	0	0	Funnel Cloud
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Comal County

Spring Branch	08	1735CST 1740CST			0	0	0	0	Hail (1.00)
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Comal County

Canyon Res	08	1750CST 1755CST			0	0	0	0	Hail (1.75)
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Comal County

New Braunfels	08	1811CST 1820CST			0	0	0	0	Hail (1.00)
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Real County

15 W Leakey	11	2314CST 2320CST			0	0	0	0	Hail (0.75)
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Real County

10 W Leakey to 8 W Leakey	12	0100CST 0110CST			0	0	0	0	Hail (1.00)
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Travis County

Austin	12	0130CST 0140CST			0	5	150K	0	Thunderstorm Wind
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Severe thunderstorm winds destroyed the roofs of two large apartment complexes in Austin. The damage left 63 residents homeless for several days.

Williamson County

Taylor	12	0215CST 0220CST			0	0	100K	0	Thunderstorm Wind
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Severe thunderstorm winds caused damage to roofs and sheds in the area around Taylor during the early morning hours.

Comal County

Bulverde	12	0230CST 0240CST			0	0	0	0	Hail (1.00)
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Gillespie County

Northeast Portion	27	1200CST 1400CST			0	0	25K	0	Flash Flood
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Llano County

Southeast Portion	27	1200CST 1400CST			0	0	5K	0	Flash Flood
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Between 2and 3inches of rain fell in 2 hours across the southeast part of Llano County and the Northeast portion of Gillespie County. Flash

Storm Data and Unusual Weather Phenomena

March 2001

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

flooding developed due to the saturated soils and creeks running full across the two county area due to persistent rainfall over the past several weeks. One man was rescued near Willow City when his vehicle became trapped in deep water. No injuries were reported.

TEXAS, South Panhandle

TXZ025>026-031>032 Hall - Childress - Motley - Cottle

15	0900CST 1400CST				0	0	5K	High Wind (G49) ^M
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An area of low pressure rapidly deepened over western Kansas in response to a strong upper level disturbance moving into the Plains. The pressure gradient strengthened over the Southern Plains with the western extent of the high surface winds occurring over the extreme southeastern Panhandle and northern Rolling Plains. Sustained wind of 40 to 45 mph was measured at KCDS for several hours with gusts reaching 56 mph. A few power lines and small tree limbs were blown down by the strong wind.

Hockley County

4 S Anton	23	2025CST			0	0		Thunderstorm Wind (G60)
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Strong thunderstorm wind blew a vehicle off the road south of town.

Lubbock County

Lubbock	23	2100CST			0	0	5K	Thunderstorm Wind
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Strong thunderstorm wind snapped power poles and blew down power lines.

Lynn County

Odonnell	23	2115CST			0	0	25K	Hail (1.75)
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Golfball size hail damaged a number of automobiles.

Garza County

7 N Post	23	2155CST			0	0		Hail (1.00)
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TEXAS, Southeast

TXZ182-216

Newton - Orange

04	0000CST				0	0	300K	Flood
12	2359CST							

The Sabine River had a major flood in early March, cresting five to six feet above flood stage between the 9th and 11th. Significant erosion occurred on the river bank, and many homes and camps immediately on the river had water enter them. Many roads leading to the river were damaged from the rapidly moving water. Most of the damage occurred along the river near Burkeville, Bon Weir, and Dewyville. Schools had to be closed in Dewyville for over 6 days due to the high waters.

Hardin County

Thicket	14	1555CST			0	0		Hail (0.88)
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Tyler County

3 N Spurger	14	1620CST			0	0	5K	Thunderstorm Wind
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Several trees were blown down.

Jefferson County

Sabine Pass	14	1745CST			0	0	5K	Thunderstorm Wind (G63) ^M
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SAWRS observation recorded 72 mph winds during a thunderstorm.

Jefferson County

Port Arthur	14	1815CST			0	0	5K	Thunderstorm Wind
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Trees and power lines were downed across the city during a severe thunderstorm.

TEXAS, West

Crane County

Crane	03	1622CST			0	0		Hail (0.75)
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TEXAS, Western North

Clay County

2 NW Henrietta	11	1920CST			0	0		Hail (0.75)
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Clay County

5 S Henrietta	11	1937CST			0	0		Hail (0.88)
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Clay County

5 NW Henrietta	11	1937CST			0	0		Hail (0.88)
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Clay County

5 S Petrolia	11	1948CST			0	0		Hail (1.00)
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TXZ083>085

Hardeman - Foard - Wilbarger

15	0940CST 1800CST				0	0		High Wind (G50)
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Northwest winds between 35 and 45 mph with gusts near 60 mph developed across portions of western north Texas from mid-morning through the afternoon of the 15th. Winds were in response to intense low near the Kansas/Oklahoma border. Lesser wind speeds spread

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
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TEXAS, Western North

eastward to near Wichita Falls and Henrietta during the afternoon, with speeds averaging 30 mph and gusts near 50 mph.

Knox County

4 W Knox City	23	2349CST			0	0	Hail (0.88)
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Knox County

3 E Vera	23	2355CST			0	0	Hail (0.75)
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UTAH, East

NONE REPORTED.

UTAH, West and Central

UTZ007>008

Wasatch Mountains I80 North - Wasatch Mountains South Of I80

09	1600MST				0	0	0	0	Heavy Snow
11	1000MST								

A spring-like storm brought 8-13 inches of wet snow to the mountains of Northern Utah.

UTZ009

Western Uinta Mountains

10	1300MST				2	0	0	0	Avalanche
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Two snowmobilers were killed in an avalanche in the Uinta Mountains of Summit County near the town of Oakley. They were "high-marking" in an area of Upper Chalk Creek known as "the chutes". The two 29-year-old men were completely buried by the avalanche, estimated to be 900 feet long, 180 feet wide, and 12 feet deep.

M29OU, M29OU

UTZ002>003-006>008-017

Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Central And Southwest Mountains

16	0100MST				0	0	0	0	Heavy Snow
	1500MST								

A quick blast of Wintery weather hit Western Utah, depositing a fresh blanket of snow. The northern mountains picked up 8-12 inches, with 4-8 inches common over the western valleys and along the Wasatch benches.

Wasatch County

Heber City

27	1430MST				1	1	1K	0	Tstm Wind/Hail
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Two men were canoeing on Jordanelle Reservoir when thunderstorm outflow winds estimated at 45mph (39kts) capsized the canoe. The men were thrown into the 34 degree water about 25 feet from shore, but they were pushed out further by the wind as they hung onto the canoe. They both became hypothermic, and the 27-year-old man let go of the canoe and drowned. The other man was rescued and sent to the hospital, where he recovered.

M27BO

UTZ008

Wasatch Mountains South Of I80

29	1000MST				0	0	0	0	Heavy Snow
	1800MST								

Another quick burst of fresh snow fell on the ski resorts, with Alta and Snowbird picking up a foot of powder, and Solitude receiving 10 inches.

VERMONT, North and Central

VTZ011>012

Rutland - Windsor

05	1500EST				0	0	200K		Winter Storm
06	1500EST								

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from New England during Tuesday, March 6th. Snow overspread Vermont Monday morning (March 5th) and became steady by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed and many towns postponed their Town meeting day. Several accidents were reported. Portions of I-91 were closed for a time in Windsor county. A building roof collapsed (apparently due to the weight of the snow) in Springfield, VT (Windsor county). Generally, between 20 and 30 inches of snow fell. A few snowfall reports included: In Rutland county, East Wallingford had 26 inches while in Windsor county, Springfield reported 28 inches.

VTZ005>006-008>010

Chittenden - Lamoille - Washington - Addison - Orange

05	1700EST				0	1	500K		Winter Storm
06	1500EST								

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from New England during Tuesday, March 6th. Snow overspread Vermont Monday morning (March 5th) and became steady by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed and many towns postponed their Town meeting day. A number of accidents were reported including some on I-89 and one in the Town of Milton (Chittenden county) which resulted in an injury. In Barre, VT (Washington county) a roof collapsed (apparently due to the weight of the snow). Generally, between 15 and 30 inches of snow fell, with the least in the shadow effect areas of Orange county and eastern Washington county. A few

Storm Data and Unusual Weather Phenomena

March 2001

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

snowfall reports included: In Chittenden county, Underhill had 28.6 inches while So. Burlington had 22.9 inches. In Lamoille county, Eden received 20.8 inches. In Washington county, Northfield reported 16 inches while in Orange county, Chelsea had 15 inches.

VTZ001>003

Grand Isle - Franklin - Orleans

05	1900EST						
06	1500EST			0	0	225K	Winter Storm

A storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma during late Monday night, March 5th and Tuesday morning, March 6th. The storm then moved slowly away from New England during Tuesday, March 6th. Snow overspread Vermont Monday morning (March 5th) and became steady and heavier by afternoon and continued through the night before tapering off late Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed and many towns postponed their Town meeting day. A number of accidents were reported including some on I-89. Generally, between 12 and 30 inches of snow fell, with the least in the extreme north and in the shadow effect area of eastern Orleans county. A few snowfall reports included: In Franklin county, Enosburg Falls reported 16 inches while in Orleans county, Newport reported 19 inches.

VTZ004-007

Essex - Caledonia

05	2300EST						
06	1500EST			0	0	100K	Winter Storm

Storm system developed off the Virginia coast early Monday, March 5th. It moved slowly northeast to near Cape Cod, Ma late Monday night, March 5th and Tuesday morning, March 6th. The storm moved slowly away from New England during Tuesday, March 6th. Snow overspread Vermont Monday morning (March 5th) and became steady by afternoon and continued through the night before tapering off later Tuesday, March 6th. The snow was heavy at times. Some impacts included: Many schools were closed and many towns postponed their Town meeting day. Several accidents were reported. Generally, between 7 and 12 inches of snow fell due to the shadow effect. A few snowfall reports included: In Caledonia county, Sutton had 9.6 inches while in Essex county, Island Pond reported 10.5 inches.

VTZ001>009-011

Grand Isle - Franklin - Orleans - Essex - Chittenden - Lamoille - Caledonia - Washington - Addison - Rutland

09	1500EST						
10	0300EST			0	0	50K	Light Snow

A low pressure system reorganized off New England during Friday, March 9th. It then moved northeast away from the area on Saturday, March 10th. Snowfall accumulations were generally 2 to 4 inches with locally higher amounts in the mountains. Slippery roads were reported.

VTZ010-012

Orange - Windsor

09	1800EST						
10	0300EST			0	0	20K	Winter Storm

A low pressure system reorganized off New England during Friday, March 9th. It then moved northeast away from the area on Saturday, March 10th. Snowfall accumulations were generally 5 to 10 inches with slippery roads reported. The greatest snow accumulation reported was in Ludlow (Windsor county) where 10 inches fell.

VTZ003>004-006>008-010-012

Orleans - Essex - Lamoille - Caledonia - Washington - Orange - Windsor

13	0300EST 1100EST						
				0	0	35K	Mixed Precipitation

Cold air allowed mixed precipitation to spread across the area during March 13th. This was especially the case along and east of the Green Mountains. Accumulations were generally in the 2 to 5 inch range with slippery roads reported.

VTZ008-011>012

Washington - Rutland - Windsor

22	1500EST						
23	0500EST			0	0	150K	Winter Storm

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Significant snow fell across the area. The snow was heavy and wet with power outages reported and a number of accidents. Snowfall was generally 7 to 25 inches with the greatest amounts in the mountains. A few reports included: Rutland county...East Wallingford had 24 inches with 9.5 inches in the city of Rutland. Washington county...Waitsfield had 20 inches. Windsor county...Ludlow had 15.7 inches.

VTZ001>002-005-009

Grand Isle - Franklin - Chittenden - Addison

22	1700EST						
23	0500EST			0	0	200K	Winter Storm

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Significant snow fell across the area. The snow was heavy and wet with power outages reported and a number of accidents. Snowfall was generally 7 to 25 inches with the greatest amounts in the mountains. A few reports included: Addison county...South Lincoln 25 inches with 7.9 inches in Cornwall. Chittenden county...Hanksville had 25.7 inches while Westford reported 11 inches. Franklin county...Berkshire had 6.7 inches.

VTZ003>004-006>007-010

Orleans - Essex - Lamoille - Caledonia - Orange

22	1900EST						
23	0500EST			0	0	250K	Winter Storm

A storm system moved northeast from coastal New Jersey Thursday, March 22nd into the Gulf of Maine during Friday, March 23rd. Significant snow fell across the area. The snow was heavy and wet with power outages reported and a number of accidents. Snowfall was

Storm Data and Unusual Weather Phenomena

March 2001

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

generally 10 to 30 inches with the greatest amounts in the mountains...with lesser amounts due to the shadow effect of mountains. A few reports included: Caledonia county...Sutton 11.1 inches. Essex county...Island Pond 10.5 inches. Lamoille county...Eden 26.4 inches while Morrisville received 12.5 inches. Orange county...Brookfield 23 inches. Orleans county...East Albany 24 inches and Greensboro 16.2 inches.

VTZ008-010-012

Washington - Orange - Windsor

30	1100EST				0	0	150K	Winter Storm
31	0100EST							

A storm system moved slowly northeast along the New England coast Friday, March 30th and Friday night. Significant snow fell across the area, especially across the elevated terrain with lesser amounts in the valleys. In general between 10 and 20 inches of snow fell. A few snowfall reports by county included: Windsor county...Rochester 15 inches with 10 inches in Springfield. Orange county...19 inches in Brookfield. Washington county...Waitsfield reported 15 inches. The snow that fell was heavy and wet with some power outages and slippery roads with some accidents.

VTZ001>002-005-009-011

Grand Isle - Franklin - Chittenden - Addison - Rutland

30	1200EST				0	0	250K	Winter Storm
31	0200EST							

A storm system moved slowly northeast along the New England coast Friday, March 30th and Friday night. Significant snow fell across the area, especially across the elevated terrain. Lesser amounts fell in the valley along the shores of Lake Champlain. A few snowfall reports by county included: Addison county...South Lincoln 16.1 inches with 5.5 inches in Cornwall. Chittenden county...11.8 inches in Hanksville with 4.0 inches in Underhill. Rutland county...East Wallingford reported 14 inches while the city of Rutland had 6 inches. The snow that fell was heavy and wet with some power outages and slippery roads with some accidents.

VTZ003>004-006>007

Orleans - Essex - Lamoille - Caledonia

30	1400EST				0	0	200K	Winter Storm
31	0200EST							

A storm system moved slowly northeast along the New England coast Friday, March 30th and Friday night. Significant snow fell across the area, especially across the elevated terrain. Lesser amounts fell in valley areas. In general between 6 and 15 inches of snow fell. A few snowfall reports by county included: Caledonia county...West Danville 18.5 inches with 9.8 inches in Sutton. Essex county...9 inches in Island Pond. Lamoille county...Morrisville reported 9.5 inches. The snow that fell was heavy and wet with some power outages and slippery roads with some accidents.

VERMONT, South

VTZ013>014

Bennington - Windham

05	1000EST				0	0		Winter Storm
06	1200EST							

A large storm center formed off the mid Atlantic coast on the morning of March 5. The low proceeded slowly to the north, off the DelMarVa peninsula, then the coast of New Jersey, and reached just south of central Long Island by late in the day. During the overnight hours, a strong upper level disturbance, diving south from the eastern Great Lakes, added energy to the storm and forced it to temporarily track to the west, and nearly stall in the vicinity of New York city. The cyclone pulled southeast away from Long Island later on March 6. This storm became the biggest nor'easter of the winter season as it produce an extended period of moderate to heavy snow, starting early Monday morning across southern Vermont and not ending until early Tuesday afternoon. Around two feet of snow buried the area, making this the biggest general snowfall in southern Vermont since the Blizzard of 93. The height of the storm occurred during the overnight hours of March 5th to 6th. Townshend Lake in Windham County reported five inches in one hour, as well as thundersnow. They ended up with a storm total of 25.5 inches. In Bennington County, Pownal had 26 and Peru 27 inches of accumulation. No unusual problems were reported with this snowstorm to the National Weather Service.

VTZ013>014

Bennington - Windham

09	1500EST				0	0		Winter Storm
10	2200EST							

Just as southern Vermont had recovered from the big snowstorm, another nor'easter moved up the coast, forming off the New Jersey coast early on March 9th, and reaching Cape Cod shortly after midnight. This storm was not nearly as powerful as its predecessor, nor did it include as much moisture. Snowfall amounts were somewhat elevation dependent and the snow had a very high water content. A general 6-12 inch swath of snow fell across the region. Pownal, Bennington county reported 8 inches. Also, in Pownal, a sand and plow truck went off a road, with no injuries.

In Windham County, West Wardsboro received 9 inches and Guilford, 12.

VTZ013>014

Bennington - Windham

21	2000EST				0	0	25K	Winter Storm
23	0200EST							

Low pressure, over eastern Georgia, moved to eastern North Carolina by the morning of March 21. The storm then tracked off the Virginia coastline and up the eastern seaboard, to become the third nor'easter of the month. By the morning of March 23, the storm center had slowly progressed to the Gulf of Maine. This storm was fairly powerful and contained both Gulf and Atlantic moisture. Heavy wet snow fell, accumulating 3 to 7 inches in the valleys across southern Vermont, but 7 inches to locally well over a foot fell across the higher terrain. In Bennington County, Peru received 14.5 inches. In Windham County, Townshend received 8 and West Wardsboro 19 inches. The heavy snow brought down trees and limbs in Windham County, and even produced some spotty power outages.

Storm Data and Unusual Weather Phenomena

March 2001

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

VTZ013>014

Bennington - Windham

30	0900EST				0	0	
31	0000EST						Winter Storm

A low pressure formed over southeastern Pennsylvania early on March 29th. This storm tracked northeast, off the New Jersey coast, to become the fourth and final nor'easter of March. By the end of the day, this low pressure was centered north of Cape Cod. The storm was weak, however it tapped into a rich supply of Atlantic moisture. While a mix of snow sleet and rain fell in valley locations, very wet heavy snow once again buried portions of the higher terrain of southern Vermont. In Bennington County, Sunderland reported 9.8 inches of snow, while Peru had 15. In Windham County, Marlboro had 8.5 and West Wardsboro had 13.5 inches.

VIRGIN ISLANDS

St. Croix County

St. Croix

13	1600AST				0	0	
14	1700AST						Wild/Forest Fire

Brush fires affected about 600 acres of land in Lowry Hill and Tide Village in East End. No damage were reported on homes, structures or people. The cause of fire was unknown but arson was suspected.

St. Croix County

St. Croix

18	1130AST				0	0	
19	1200AST						Wild/Forest Fire

Brush fires affected about 100 acres near Mount Welcome and Recovery Hill. No damages were reported on structures, homes or people. The suspected cause of the fire was an abandon car in flames.

St. Croix County

St. Croix

29	1000AST				0	0	
30	1600AST						Wild/Forest Fire

A brush fire formed at King Still Area across the Centerline Road. The fire affected with smoke, a nearby elementary school. Four students were taken to the Hospital with respiratory difficulties. All of them were unharmed.

VIRGINIA, East

NONE REPORTED.

VIRGINIA, Extreme Southwest

VAZ001>002-005>006-008

Lee - Wise - Scott - Russell - Washington

05	2300EST				0	0	
06	1200EST						Winter Storm

An upper level disturbance passing over the southern Appalachians caused heavy snow shower activity over southwest Virginia. Amounts averaged 1-3 inches in the lower elevations to 3-6 inches across the higher terrain.

VAZ001>002-005>006-008

Lee - Wise - Scott - Russell - Washington

20	0430EST				0	0	
21	1030EST						Winter Storm

A low pressure system passing to the south and east of the southern Appalachians and Tennessee Valley dropped snow of varying depth. Snow generally fell above 2000 feet, with the heaviest snows above 3000-4000 feet. At elevations between 2000-3000 feet, amounts were: none in Lee County, 1 inch in Washington County, 2 inches in Scott County, 2-5 inches in Russell County, and 3-6 inches in Wise County. Between 3000-4000 feet, amounts were: 1 inch in Washington County, 2 inches in Lee County, 2-5 inches in Russell County, 6 inches in Scott County, and 9-15 inches in Wise County.

VIRGINIA, North

VAZ021-028-031-042

Highland - Frederick - Clarke - Loudoun

04	1400EST				0	0	
05	1200EST						Winter Weather

A Nor'easter formed off the coast of North Carolina and moved northward along the Atlantic seaboard on the 4th and 5th. This storm brought moisture onshore and resulted in two days of precipitation across the Mid Atlantic area. Because temperatures were above freezing for most of the storm, a majority of the precipitation fell as rain from the Shenandoah Valley eastward. However, across the higher terrain of Highland County and Northern Shenandoah Valley, between 2 and 5 inches of snow was recorded. After the precipitation ended, northwest winds gusted up to 40 MPH during the afternoon and evening of the 5th.

VAZ021-025>031-036>042-050>057

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

06	0900EST				0	0	
07	0400EST						Strong Wind

Strong low pressure over New England brought gusty northwest winds between 35 and 50 MPH to the Mid Atlantic region from the morning of the 6th through the early morning hours of the 7th. Recorded wind gusts across the northern third of Virginia included 52 MPH

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>VIRGINIA, North</u>							
at New Market in Shenandoah County, 45 MPH at Winchester Regional Airport and Dulles International Airport, 44 MPH at Leesburg in Loudoun County and Washington Reagan National Airport, 43 MPH at Culpeper in Culpeper County and Ft. Belvoir in Fairfax County, 41 MPH at Manassas Regional Airport, and 40 MPH at Charlottesville. The wind gusts were strong enough to blow a metal storage building off its hinges at Maurertown in Shenandoah County around 2:30 PM on the 6th.							
Clarke County							
Countywide	13	2113EST			0	0	5K Thunderstorm Wind
	Trees and power lines were downed.						
Fauquier County							
Countywide	13	2120EST 2130EST			0	0	5K Thunderstorm Wind
	Trees were downed.						
Fauquier County							
1 N Delaplane	13	2120EST			0	0	Thunderstorm Wind (G52) ^M
	A wind gust of 60 MPH was recorded.						
Loudoun County							
Countywide	13	2120EST 2130EST			0	0	5K Thunderstorm Wind
	Trees were downed.						
Prince William County							
Countywide	13	2126EST 2156EST			0	0	2K Thunderstorm Wind
	Trees were downed onto power lines.						
Loudoun County							
3 SW Ashburn	13	2127EST			0	0	150K Thunderstorm Wind
	Eight townhouse units under construction were blown over.						
Fairfax County							
Countywide	13	2130EST 2200EST			0	0	15K Thunderstorm Wind
	Trees were downed onto roads, yards, and a car.						
Loudoun County							
Ashburn	13	2130EST			0	0	Thunderstorm Wind (G53) ^M
	Winds gusted to 61 MPH.						
Loudoun County							
Dulles Intl Arpt	13	2130EST			0	0	Thunderstorm Wind (G50) ^M
	A wind gust of 58 MPH was recorded at the National Weather Service Forecast office near Dulles Airport.						
Fairfax (C)							
Fairfax	13	2135EST 2150EST			0	0	2K Thunderstorm Wind
	Trees were downed.						
Manassas (C)							
Manassas	13	2145EST			0	0	Thunderstorm Wind (G62) ^M
	A wind gust of 71 MPH was recorded at the intersection of Wesley and Fairview Avenues.						
Fairfax County							
Reston	13	2146EST			0	0	Thunderstorm Wind (G54) ^M
	Winds gusted to 62 MPH						
Arlington County							
Arlington	13	2150EST 2155EST			0	0	2K Thunderstorm Wind
	Trees were downed.						
Arlington County							
Arlington	13	2150EST			0	0	Thunderstorm Wind (G52) ^M
	A wind gust of 60 MPH was recorded at Jefferson Middle School.						
Falls Church (C)							
Falls Church	13	2150EST			0	0	2K Thunderstorm Wind
	Trees and wires were damaged.						
Alexandria (C)							
Alexandria	13	2155EST			0	0	Thunderstorm Wind (G53) ^M
	A wind gust of 61 MPH was recorded.						

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>VIRGINIA, North</u>							
Fairfax County							
Springfield	13	2200EST			0 0	10K	Thunderstorm Wind
A 10 year old church steeple was downed.							
Rappahannock County							
Sperryville	13	2200EST			0 0		Thunderstorm Wind (G57)
A wind gust of 65 MPH was estimated.							
Frederick County							
Gainesboro	13	2210EST			0 0	10K	Thunderstorm Wind
A tree was downed onto a car and other trees fell onto power lines and roads. A line of showers and a few thunderstorms moved across extreme northern Virginia between 10 PM and 11 PM on the 13th. These storms produced winds in excess of 55 MPH and pea sized hail. In Frederick County, a wind gust of 53 MPH was recorded at the Winchester Airport. In Gainesboro, a tree was downed onto a car and several other trees were downed in the vicinity. Across Clarke County, trees and power lines were downed. Across Loudoun County, scattered trees were downed. A wind gust of 61 MPH was recorded in Ashburn. Nearby in a subdivision near the Dulles Toll Road, the wooden skeleton of 8 townhouses under construction were destroyed. Winds estimated at 45 MPH ripped a large section of siding off the side of a home in Leesburg. A wind gust of 53 MPH was recorded in Middleburg and a wind gust of 58 MPH was reported at the National Weather Service Forecast Office near Dulles Airport. Across Fairfax County, trees were downed. A 62 MPH gust was measured in Reston and a 44 MPH gust was reported at Ft. Belvoir. A church steeple was felled by high winds in Springfield. A tree was downed onto a parked car in Vienna. Trees were downed across the city of Fairfax. In Falls Church, trees and wires were damaged by winds that gusted to 52 MPH. In Arlington County, a wind gust of 60 MPH was recorded at a school and trees were downed across the city of Arlington. Winds gusted to 48 MPH at Washington Reagan National Airport. In Alexandria, winds gusted to 61 MPH. In Prince William County, trees and power lines were downed. A wind gust of 71 MPH was recorded in Manassas. Across Fauquier County, trees were downed. A wind gust of 60 MPH was measured one mile north of Delaplane. In Rappahannock County, a wind gust of 65 MPH was estimated in Sperryville. In Culpeper County, a wind gust of 50 MPH was estimated in Boston. In Page County, a wind gust of 52 MPH was reported in Stanley. In the city of Stanton, wind gusts were estimated at 45 MPH.							
Albemarle County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Alexandria (C)							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Charlottesville (C)							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Fairfax County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Fairfax (C)							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Greene County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Highland County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Loudoun County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Manassas (C)							
Manassas	21	0000EST 1400EST			0 0		Heavy Rain
Prince William County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>VIRGINIA, North</u>							
Stafford County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
VAZ021-025-029 Highland - Augusta - Page							
	21	0000EST 1400EST			0 0		Winter Storm
VAZ036-039 Nelson - Madison							
	21	0000EST 1400EST			0 0		Winter Weather
VAZ027-037-042-052>054 Shenandoah - Albemarle - Loudoun - Prince William - Fairfax - Arlington							
	21	0700EST 1600EST			0 0		Strong Wind
Augusta County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Clarke County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Culpeper County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Fauquier County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Frederick County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Harrisonburg (C)							
Harrisonburg	21	1000EST 1600EST			0 0		Flash Flood
Madison County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Orange County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Page County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Rappahannock County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Rockingham County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Shenandoah County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
Staunton (C)							
Staunton	21	1000EST 1600EST			0 0		Flash Flood
Warren County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood

Storm Data and Unusual Weather Phenomena

March 2001

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

Waynesboro (C)

Waynesboro	21	1000EST 1600EST			0 0		Flash Flood
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Winchester (C)

Winchester to Countywide	21	1000EST 1600EST			0 0		Flash Flood
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A Nor'easter moved from the North Carolina Coast to New England from the 20th to the 22nd. As it passed by the Mid Atlantic region, it dropped heavy precipitation between midnight and mid afternoon on the 21st. Below 2000 feet, the precipitation fell in the form of rain. Across the Shenandoah Valley and just east of the Blue Ridge Mountains, the storm system dropped between 2 and 5 inches of rain which resulted in flash flooding. Some of the highest regional rainfall totals included 5.48 inches at Robinson Hollow in Augusta County, 4.44 inches at Big Meadows in Page County, 4.36 inches at Strasburg Reservoir in Shenandoah County, and 3.13 inches at Waynesboro. Numerous roads and low water crossings were closed by high water in Frederick, Augusta, Page, Shenandoah, Warren, Culpeper, Fauquier, Rappahannock, Orange, Madison, Rockingham, and Clarke Counties. Rainfall amounts between 1 and 2.5 inches were reported across the Central Piedmont and across counties bordering the Potomac River. In Stafford County, River Road and Route 607 were flooded. In Loudoun County, portions of Route 652, 653, 607, 746, 790 were covered by water. In Alexandria, portions of King Street were closed by high water.

Above 2000 feet, a rain/snow mix was reported. Snowfall accumulations of 4 to 8 inches were documented across Highland and western Augusta Counties. Along Skyline Drive, 2 to 5 inches of snow fell. After the precipitation ended on the 21st, northwest winds increased to between 25 and 45 MPH. Recorded wind gusts included 47 MPH at New Market in Shenandoah County, 44 MPH at Charlottesville and Washington Reagan National Airport, and 41 MPH at Dulles International Airport in Loudoun County. The gusty winds downed a tree onto a shed near Conicville in Shenandoah County. In Fairfax County, a tree was downed onto a power line in Woodbridge and Springfield and a tree fell onto the Fairfax County Parkway. In the city of Fairfax, a downed tree blocked a portion of Gunpowder Road.

Albemarle County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Alexandria (C)

Alexandria	29 30	1000EST 1000EST			0 0		Heavy Rain
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Arlington County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Augusta County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Charlottesville (C)

Charlottesville	29 30	1000EST 1000EST			0 0		Heavy Rain
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Clarke County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Culpeper County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Fairfax County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Fairfax (C)

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Falls Church (C)

Falls Church	29 30	1000EST 1000EST			0 0		Heavy Rain
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Fauquier County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Frederick County

Countywide	29 30	1000EST 1000EST			0 0		Heavy Rain
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Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>VIRGINIA, North</u>							
Fredericksburg (C)							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Greene County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Harrisonburg (C)							
Harrisonburg	29	1000EST			0	0	Heavy Rain
	30	1000EST					
King George County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Loudoun County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Madison County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Manassas (C)							
Manassas	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Manassas Park (C)							
Manassas Park	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Nelson County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Orange County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Page County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Prince William County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Rappahannock County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Rockingham County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Shenandoah County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Spotsylvania County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Stafford County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Staunton (C)							
Staunton	29	1000EST			0	0	Heavy Rain
	30	1000EST					

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
<u>VIRGINIA, North</u>							
Warren County							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Waynesboro (C)							
Waynesboro	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Winchester (C)							
Countywide	29	1000EST			0	0	Heavy Rain
	30	1000EST					
Low pressure brought a period of heavy rainfall to the Mid Atlantic region between the morning of the 29th and the morning of the 30th. Between 1.5 and 2.5 inches of rain was recorded.							
<u>VIRGINIA, Northwest</u>							
VAZ003>004 Dickenson - Buchanan							
	05	0100EST			0	0	Heavy Snow
	06	2000EST					
Rains on Sunday the 4th changed to snow overnight. Snow showers increased by Monday evening the 5th, as a cold pocket of air aloft moved into central Appalachians from the eastern Great Lakes. No snow was on the ground prior to the storm. Total snow depths ranged from 2 inches in the deep river valleys around Grundy, to 8 inches across the ridges. The Virginia Department of Transportation reported 4 to 8 inches in Buchanan Country. Clintwood had a snow depth of 5 inches at the end of the storm, with drifts to about a foot.							
<u>VIRGINIA, Southwest</u>							
VAZ007-015 Tazewell - Grayson							
	06	0200EST			0	0	Heavy Snow
		1800EST					
VAZ015>016-032 Grayson - Carroll - Patrick							
	06	0200EST			0	0	80K High Wind
		1800EST					
Heavy snow during the 6th accumulated from 6 to 10 inches across the higher elevations of Tazewell and Grayson counties.							
High winds from the morning through the evening of the 6th downed trees and power lines across Grayson, Carroll, and Patrick counties. In Carroll County, high winds also blew a wall in and partially collapsed a roof on an automobile repair shop. A car in the shop was also damaged. In Patrick County a country store had its roof and porch damaged.							
VAZ015 Grayson							
	08	0600EST			0	0	Black Ice
		0800EST					
Several accidents occurred during the morning of the 8th with black ice on roads.							
VAZ015 Grayson							
	20	1300EST			0	0	Heavy Snow
	21	0400EST					
Heavy snow from the early afternoon of the 20th to the early morning of the 21st accumulated up to 12 inches in the higher elevations.							
The combination of heavy wet snow and strong winds downed power lines resulting scattered power outages.							
VAZ014-017>018-020-022-024-032 Montgomery - Floyd - Craig - Bath - Roanoke - Rockbridge - Patrick							
	20	1600EST			0	0	Heavy Snow
	21	0400EST					
Snow during the afternoon of the 20th through the early morning of the 21st accumulated from 4 to 10 inches.							
The combination of heavy wet snow and strong winds resulted in power lines being downed and scattered power outages.							
Buckingham County							
2.5 WNW Buckingham	21	0900EST			0	0	Flash Flood
		1130EST					
Buckingham County							
.5 W Buckingham	21	0900EST			0	0	Flash Flood
Halifax County							
1 N Virgilina	21	2000EST			0	0	Flash Flood
		2130EST					
Heavy rain during the morning of the 21st caused the North River to flood State Route 56, 2 1/2 miles west of Buckingham, the Slate River to flood U.S. Route 60, 1/2 mile west of Buckingham, and flooded and closed County Route 604, 1 mile north of Virgilina.							

Storm Data and Unusual Weather Phenomena

March 2001

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

Montgomery County

Ironto	30	0050EST 0430EST			0 0		Flash Flood
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Montgomery County

Ironto	30	0230EST 0430EST			0 0		Flash Flood
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Heavy rain during the early morning of the 30th caused the north fork of the Roanoke River to flood North Fork Road in Ironto and Falls Ridge Road in Ironto.

WASHINGTON, Northeast

WAZ033-037

Washington Palouse - Northeast Mountains

13	1400PST 1600PST				0 0	14K	High Wind
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High winds caused about a dozen power outages in the Pullman area when trees were either blown into power lines or power lines were blown over. The ASOS at the Pullman-Moscow Airport measured a peak wind gust of 51 mph (44 knots) around 300 PM PST. Many electric customers in the Colville area were without power when winds blew trees into power lines.

Spokane County

Spokane to
Otis Orchards

13	1550PST 1605PST				0 0	10K	Thunderstorm Wind (G53) ^M
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Several portable business signs in Cheney were blown over. In Spokane, large tree limbs were blown down into Grand Boulevard near Manito Park, blocking traffic for a time. Further east, several trees were blown down throughout the Spokane Valley. One tree fell into Bigelow Gulch Road, blocking traffic there for a time. A trained spotter in Otis Orchards measured a wind gust to 61 mph (53 knots) with several larger tree limbs down in that area. Avista Utilities reported about three dozen power outages caused by either trees blowing into power lines or wind blowing over power lines.

Summary of events for March 13 2001:

An upper level low with lots of cold air aloft moved across the Northwest on March 13, bringing unstable conditions to the region. Meanwhile, a surface low moving across southern British Columbia brought strong sustained gradient winds of 25 to 35 miles an hour to all of eastern Washington that afternoon. The combination of gradient winds and outflow from otherwise non-suspect showers and thunderstorms was enough to cause wind damage and marginally severe wind gusts. Most wind damage took place in far eastern Washington, where westerly upslope flow aided in convective development. For reference, most peak wind gusts and damage described on this date were associated with convective elements. Damage caused by elements containing cloud-to-ground lightning have been counted as "Thunderstorm Wind" events, while damage caused by elements NOT containing cloud-to-ground lightning have been counted as "High Wind" events.

Finally, the Alder Ridge RAWS site (at 4500 feet in southern Garfield County) measured a peak wind gust to 63 mph around 500 PM PST outside a thunderstorm. Though this is significant enough to warrant a mention here, it is not logged as a separate event in Storm Data since high wind criteria are higher for mountain elevations above 3000 feet.

WASHINGTON, Northwest

WAZ008-010>011

Tacoma Area - Hood Canal/Kitsap Peninsula - Southwest Interior

13	1200PST 1500PST				0 1	32K	High Wind (G52) ^M
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Winds gusting to 60 mph knocked a modular home off the truck that was hauling it. Traffic was backed up for miles on either side of the Tacoma Narrows bridge as a result. A woman was injured when a tree blew down and fell on her car. About 3500 customers were without power.

Snohomish County

Everett Arpt to
Monroe

13	1409PST 1509PST				0 0		Hail (0.75)
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There was little damage with the severe thunderstorm that hit Snohomish county. 700 customers in Monroe lost power for about 2 hours.

WAZ001>018-020

San Juan - Western Whatcom - Northern Casade Foothills - Central Casade Foothills - Northwest Interior - Everett And Vicinity - Seattle Metropolitan Area - Tacoma Area - Admiralty Inlet Area - Hood Canal/Kitsap Peninsula - Southwest Interior - Olympics - Eastern Strait Of Juan De Fuca - Western Strait Of Juan De Fuca - North Coast - Central Coast - West Slopes Northern Cascades And Passes - West Slopes Central Cascades And Passes - Southwest Interior

14	1200PST				0 0		Drought
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October 2000 through March 2001 has been the second driest oct-mar period at Seattle-Tacoma Airport since 1945. From October 1st through March 31st, the airport recorded 16.27 inches of precipitation. This is 11.61 inches below normal (58 percent of normal). The snowpack in the Cascades was also running between 55 and 70 percent of normal.

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
WASHINGTON, Southeast							
WAZ027		Yakima Valley					
	13	1300PST 1600PST			0 2	80K 0	High Wind (G48) ^M
A wind gust was measured at 55 mph at Mabton. At the Yakima Airport, sustained winds topped out at 36 mph, with gusts as high as 41 mph. In the city of Yakima, high winds blew a tree onto a house, starting a fire. In Toppenish, winds damaged the roof of the Liberty Theater. These winds also caused scattered power outages, an automobile accident, and several brushfires during the afternoon. In Sunnyside, visibilities of less than 100 feet contributed to an accident on Van Belle Road, injuring 2 people. North of Selah, winds aided a wildfire that burned 5 acres.							
WAZ028		Lower Columbia Basin					
	13	1330PST 1630PST			0 0	50K	High Wind (G56) ^M
High winds were measured at several locations during the afternoon in the Columbia basin. The ASOS at Pasco recorded sustained winds of 44 mph with gusts of 54 mph at 2:30 in the afternoon. Several sites at the Hanford Reservation measured gusts between 60 and 70 mph. An automated wind sensor at the top of Rattlesnake Ridge (3600 ft) indicated a wind gust of 97 mph at 3:00 pm. Visibilities due to blowing dust were locally reduced to less than 1/4 mile, especially near the Hanford Reservation. Workers there were let out early as State Highway 240 and sections of Highways 221 and 22 were closed for several hours. Just south of the Tri-Cities, Interstate Highway 82 was closed for an hour between I - 182 and State Route 395. These winds also caused scattered power outages in the Tri-Cities area during the mid afternoon. In Richland, 1200 feet of fencing associated with a new housing project was knocked over.							
WAZ029		Blue Mountain Foothills					
	13	1530PST 1545PST			0 0	0 0	High Wind (G44) ^M
Sustained winds of 43 mph with gusts as high as 51 mph were measured by an ASOS at the Walla Walla Airport. Dust picked up from the Columbia basin reduced visibilities to a couple of miles at times during the afternoon.							
WASHINGTON, Southwest							
WAZ022		Lower Columbia					
	13	1300PST 1500PST			0 0		High Wind (G35)
The Longview Daily News reported that "high winds blew tree branches into power lines causing power outages from Castle Rock to Kalama". The newspaper stated that more than 1000 were without power at one time or another between 1 PM and 3 PM. No injuries or deaths were reported.							
WEST VIRGINIA, East							
WVZ048		Grant					
	04	1000EST			0 0		Winter Storm
	06	0400EST					
WVZ049>054		Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton					
	04	1400EST			0 0		Winter Weather
	05	1200EST					
A Nor'easter formed off the coast of North Carolina and moved northward along the Atlantic seaboard on the 4th and 5th. This storm brought moisture on shore and resulted in two days of precipitation across the Mid Atlantic area. Because temperatures were above freezing for part of the storm, some of the precipitation fell as rain. This held snowfall totals to between 2 and 5 inches everywhere except along the Allegheny Front of Western Grant County. This area received a period of lake effect snow on the 6th after the main storm ended which deposited an additional foot of accumulation. Bayard reported a grand total of 17.3 inches. After the precipitation from the Nor'easter ended, northwest winds gusted up to 40 MPH during the afternoon and evening of the 5th.							
WVZ048>055		Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy					
	06	0900EST			0 0		Strong Wind
	07	0400EST					
Strong low pressure over New England brought gusty northwest winds between 35 and 45 MPH to the Mid Atlantic region from the morning of the 6th through the early morning hours of the 7th. A wind gust of 43 MPH was recorded at the Martinsburg Airport in Berkeley County.							
Mineral County							
Keyser	13	2030EST			0 0		Thunderstorm Wind (G57) ^M
A wind gust of 65 MPH was recorded on a 75 ft. tower.							
Berkeley County							
Martinsburg Arpt	13	2052EST			0 0		Thunderstorm Wind (G56) ^M
A wind gust of 64 MPH was recorded.							
Berkeley County							
Countywide	13	2100EST			0 0	2K	Thunderstorm Wind
Trees and power lines were downed across a few roads.							
Berkeley County							
4 N Martinsburg	13	2106EST			0 0		Thunderstorm Wind (G72) ^M
A wind gust of 83 MPH was recorded on a ridge just outside of town.							

Storm Data and Unusual Weather Phenomena

March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Person Killed s Injured	Estimated Damage Property Crops	Character of Storm
WEST VIRGINIA, East							
Jefferson County							
7 W Charles Town	13	2110EST			0 0	10K	Thunderstorm Wind
A fixed awning over a gas pump island was toppled.							
Jefferson County							
Charles Town	13	2113EST			0 0	2K	Thunderstorm Wind
Trees were downed.							
Jefferson County							
2 S Charles Town	13	2115EST			0 0	30K	Thunderstorm Wind
A wall was blown down on a home under construction and a deck was dislodged from a townhouse.							
A line of showers and a few thunderstorms moved across the eastern panhandle of West Virginia between 8:30 PM and 9:30 PM on the 13th. These storms produced winds in excess of 55 MPH. In Berkeley County, a wind gust of 64 MPH was recorded at the Martinsburg Airport and an 83 MPH gust was measured on a ridge just outside of the city. A few trees and power lines were downed on county roads. Across Jefferson County, trees and power lines were downed. At the intersection of Route 51 and Leetown Road west of Charles Town, a gas pump island awning was toppled. A few miles south of Charles Town, one of 4 walls on a house under construction was blown over and a deck was dislodged from a townhouse. In Mineral County, a 65 MPH wind gust was recorded at the top of a 75 foot tower near Keyser. In Grant County, a wind gust of 47 MPH was reported at the Petersburg Airport.							
Berkeley County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Hardy County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
Jefferson County							
Countywide	21	0000EST 1400EST			0 0		Heavy Rain
WVZ048>049-054							
Grant - Mineral - Pendleton							
	21	0000EST 1400EST			0 0		Winter Storm
WVZ051							
Morgan							
	21	0000EST 1400EST			0 0		Winter Weather
WVZ052							
Berkeley							
	21	0700EST 1600EST			0 0	50K	Strong Wind
Hampshire County							
Countywide	21	1000EST 1600EST			0 0		Flash Flood
WVZ052							
Berkeley							
	22	0445EST 1215EST			0 0		Flood
Opequon Creek near Martinsburg crested about one half foot above flood stage.							
A Nor'easter moved from the North Carolina Coast to New England from the 20th to the 22nd. As it passed by the Mid Atlantic region, it dropped heavy precipitation between midnight and mid afternoon on the 21st. Across Berkeley, Jefferson, Hampshire, and Hardy Counties, the precipitation fell mainly in the form of rain and ranged from 0.75 inches to 2.00 inches. In Hampshire County, heavy rainfall temporarily flooded Kemp Road near Augusta. In Berkeley County, heavy rainfall from across the region ran off into creeks and rivers, causing minor flooding. On the 22nd, Opequon Creek near Martinsburg reached its flood stage of 10 feet at 4:45 AM. The creek crested at 10.58 feet at 8:30 AM then fell below flood stage at 12:15 PM. In Morgan County, a rain/snow mix was reported. Capon State Park reported 2.7 inches of snow accumulation. Across the higher terrain of Mineral, Grant, and Pendleton Counties, the precipitation fell as mainly snow. Snow accumulations varied greatly from the mountain ridges in the western portion of the counties to the valleys across the east. Along the Allegany Front, between 6 and 14 inches of snow accumulated. East of the ridges, snowfall totals ranged from 2 to 6 inches. After the precipitation ended on the 21st, northwest winds increased to between 25 and 45 MPH. A wind gust of 43 MPH was recorded at the Martinsburg Airport. In Martinsburg, the high winds were blamed for tipping a rooftop television tower onto a power line. Contact between the tower and the power line resulted in sparks which set the house ablaze and caused extensive damage.							
Berkeley County							
Countywide	29	1000EST			0 0		Heavy Rain
	30	1000EST					
Jefferson County							
Countywide	29	1000EST			0 0		Heavy Rain
	30	1000EST					

Storm Data and Unusual Weather Phenomena

March 2001

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

Beckley and Buckhannon.

WVZ005>011-013>020-026>032-035>040-046>047			Wayne - Cabell - Mason - Jackson - Wood - Pleasants - Tyler - Lincoln - Putnam - Kanawha - Roane - Wirt - Calhoun - Ritchie - Doddridge - Boone - Clay - Braxton - Gilmer - Lewis - Harrison - Taylor - Raleigh - Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph				
	13	1700EST 2000EST			0 0	3K	Wind

A cold pocket of air aloft triggered instability showers in the wake of a cold frontal passage. These showers were able to drag down strong winds from a few thousand feet above the surface. Parkersburg had a gust to 46 mph at 1711E, Huntington 45 mph at 1758E, Charleston 43 mph at 1849E, Clarksburg 53 mph at 1905E, Elkins 41 mph at 1927E, and Beckley 49 mph at 1951E.

An athletic press box at Liberty High School in Raleigh County was damaged. Electric power was lost to about 6,000 customers between Parkersburg and Clarksburg.

WVZ046>047			Pocahontas - Randolph				
	20	1900EST			0 0		Heavy Snow
	21	0900EST					

A well developed cyclonic circulation over the southeastern states on the 20th, produced an easterly upslope flow into the upper Greenbrier Valley and eastern portions of Randolph County. Snow accumulations of 3 to 7 inches were common above 2600 feet in elevation. Snowshoe had 7 inches. Bartow reported a 6 inch snow depth from the storm. Harman had a 5 inch snow cover.

WISCONSIN, Extreme Southwest

NONE REPORTED.

WISCONSIN, Northeast

WIZ005-010>012-018>019-030-035			Vilas - Oneida - Forest - Florence - Lincoln - Langlade - Marathon - Wood				
	12	0400CST 1600CST			0 0		Heavy Snow

The combination of a warm front across Illinois and a strong flow of warm and moist air above it resulted in heavy snow across parts of central and north central Wisconsin. The highest snowfall totals from this system included 8.0 inches 3 miles southeast of Marshfield (Wood co.), 7.5 inches at Phelps (Vilas co.) and Hiles (Forest co.), and 6.5 inches at Lake Thompson (Oneida co.).

WIZ030			Marathon				
	22	0500CST 0900CST			0 0		Fog

A six vehicle accident occurred in dense fog on highway 29 in western Marathon county. The accident started a string of crashes, injuring at least 5 people. Visibility was as low as 100 feet in some spots and vehicles "...were piling up like cord wood," according to a Marathon County Sheriff's Lieutenant.

WISCONSIN, Northwest

WIZ004			Iron				
	08	0400CST 1545CST			0 0		Heavy Snow

Heavy lake effect snow fell in northern Iron County, with 12 inches reported in Hurley and 11 inches at Pence.

WIZ001>004-006>009			Douglas - Bayfield - Ashland - Iron - Burnett - Washburn - Sawyer - Price				
	11	2200CST			0 0		Heavy Snow
	12	2000CST					

A late winter storm combined with lake effect snow conditions to produce a fairly uniform snowfall of 6 to 7 inches across northwestern Wisconsin.

WISCONSIN, Southeast

WIZ052-060-066-071>072			Sheboygan - Ozaukee - Milwaukee - Racine - Kenosha				
	12	1400CST 1900CST			0 0		Fog

Dense fog developed near and along the Lake Michigan shoreline and reduced visibilities to 1/4 mile or less. About two dozen vehicle accidents were noted, and several dozen airline flights were delayed at Milwaukee Mitchell Field and other area airports. The dense fog developed just north of an advancing warm front after light rain had moved through.

WIZ046>047-051-056>059-063>065-070			Marquette - Green Lake - Fond Du Lac - Sauk - Columbia - Dodge - Washington - Dane - Jefferson - Waukesha - Walworth				
	22	0000CST 1000CST			0 0		Fog

Storm Data and Unusual Weather Phenomena

March 2001

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

Dense fog developed over southern Wisconsin and reduced visibilities to 1/4 mile or less. About 3 dozen vehicle accidents were noted, and many airplane flights were delayed or canceled at area airports. The combination of light winds and clear skies triggered the dense fog development. Scattered light precipitation preceded this dense fog event by several hours.

WIZ062-067>069

Iowa - Lafayette - Green - Rock

22	0100CST 0900CST				0	0	Fog
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Dense fog developed over southern Wisconsin and reduced visibilities to 1/4 mile or less. About a dozen vehicle accidents were noted, and many airplane flights were delayed or canceled at area airports. The combination of light winds and clear skies triggered the dense fog development. Scattered light precipitation preceded this dense fog event by several hours.

WISCONSIN, Southwest

**WIZ017-029-032>034- Taylor - Clark - Buffalo - Trempealeau - Jackson - La Crosse
041**

12	0000CST 1345CST				0	0	Winter Storm
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The last winter storm of the season brought heavy snow to parts of southwest and central Wisconsin, forcing the closure of schools and businesses. Snowfall amounts of 6 to 10 inches were common, with law enforcement officials in Whitehall (Trempealeau County) reporting 11 inches.

WISCONSIN, West

WIZ014>016-023>028 Polk - Barron - Rusk - St. Croix - Pierce - Dunn - Pepin - Chippewa - Eau Claire

12	0000CST 1300CST				0	0	Heavy Snow
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A surface low pressure system located near Kansas City, MO., just after midnight on the 12th, tracked northeast across far southern Minnesota during the morning hours, and then marched into West Central Wisconsin by the afternoon. A large area of generally 6 to 7 inches of snow accumulated across West Central Wisconsin by the early afternoon. Some snowfall reports of note include: Fairchild 11 inches, three miles southwest of Eau Claire 10 inches, 3 miles north of Chippewa Falls - 9 inches, New Richmond - 6.5 inches.

WYOMING, Central and West

NONE REPORTED.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

WYZ057

Wyoming Black Hills

14	0950MST				0	0	Winter Storm
15	0404MST						

A strong storm system developed rapidly over the northern Rockies in the predawn hours of March 14. Copious amounts of moisture were available to this system as it moved across Wyoming and into the Nebraska Panhandle. The storm began as rain with an expected change over to snow, especially in the higher elevations of the Bear Lodge Mountains. The change-over occurred by 950 am MST. Over the ensuing 18 hours 7 to 10 inches of snow fell over eastern Crook County. Hulett, Wyoming reported 10 inches of total accumulation by early morning of the 15th. Strong winds of 20 to 35 mph accompanied this storm and produced considerable blowing and drifting snow through the event.

WYOMING, Southeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

May 1997

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

INDIANA, Northwest

Porter County

Valparaiso **18** **2050EST** **0** **0** **0** **Thunderstorm Wind**
 Trees and limbs downed throughout the county, especially southwest of Valparaiso.

La Porte County

La Porte **18** **2100EST** **0** **0** **0** **Thunderstorm Wind**
 Damage occurred mainly in the northern portion of the county, with many trees and large limbs down in LaPorte. Some limbs fell across roads and houses.

Starke County

Knox **18** **2110EST** **0** **0** **0** **Thunderstorm Wind**
 Strong winds downed trees north of Knox.

St. Joseph County

South Bend **18** **2113EST** **0** **0** **Thunderstorm Wind (G81)**
 A 93 mph wind gust was recorded near the Michiana Regional Airport in South Bend. There was widespread damage to trees, limbs and power lines. Trees and limbs fell on houses.

St. Joseph County

Mishawaka **18** **2114EST** **0** **0** **Thunderstorm Wind (G56)**
 Trees and limbs downed.

Elkhart County

Elkhart **18** **2130EST**
 2140EST **0** **0** **Thunderstorm Wind (G65)**
 A 75 mph wind gust was recorded at Goshen at 930pm. Winds were estimated at 70 mph or greater at Elkhart, Bristol and Middlebury. Goshen was hardest hit with many large trees and limbs, broken uprooted, down on houses and cars. Most damage occurred around 3rd and Main Streets. Shingles were torn off roof tops. Reported 30 or 40 power poles blown down in the county.

Marshall County

Tippecanoe **18** **2130EST** **0** **1** **0** **Thunderstorm Wind**
 A trailer was blown over, one person was injured.

Kosciusko County

Warsaw **18** **2200EST** **0** **0** **0** **Thunderstorm Wind**
 Trees and limbs downed.

Storm Data and Unusual Weather Phenomena

July 2000

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

CALIFORNIA, Southwest

San Bernardino

County

18 N Yucca Vly to
1 W Cajon

07	1111PST 1119PST	0	0	250K	Flash Flood
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Heavy rain from thunderstorms stranded several vehicles along Highway 247 near Pony Road and caused a mud slide across Highway 138 near near the Cajon Pass.

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
DST	- Daylight Savings Time
LST	- Local Standard Time
LDT	- Local Daylight Time

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the “G” indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

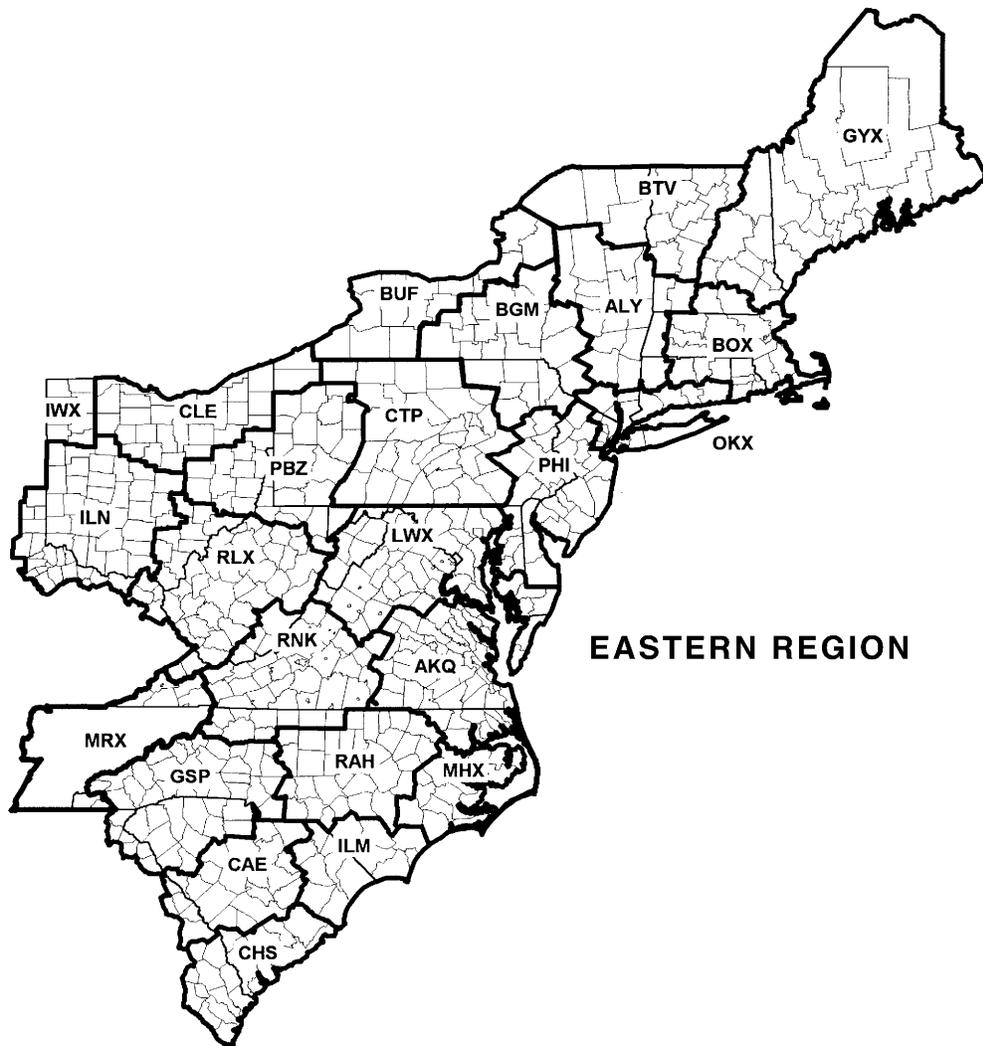
The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

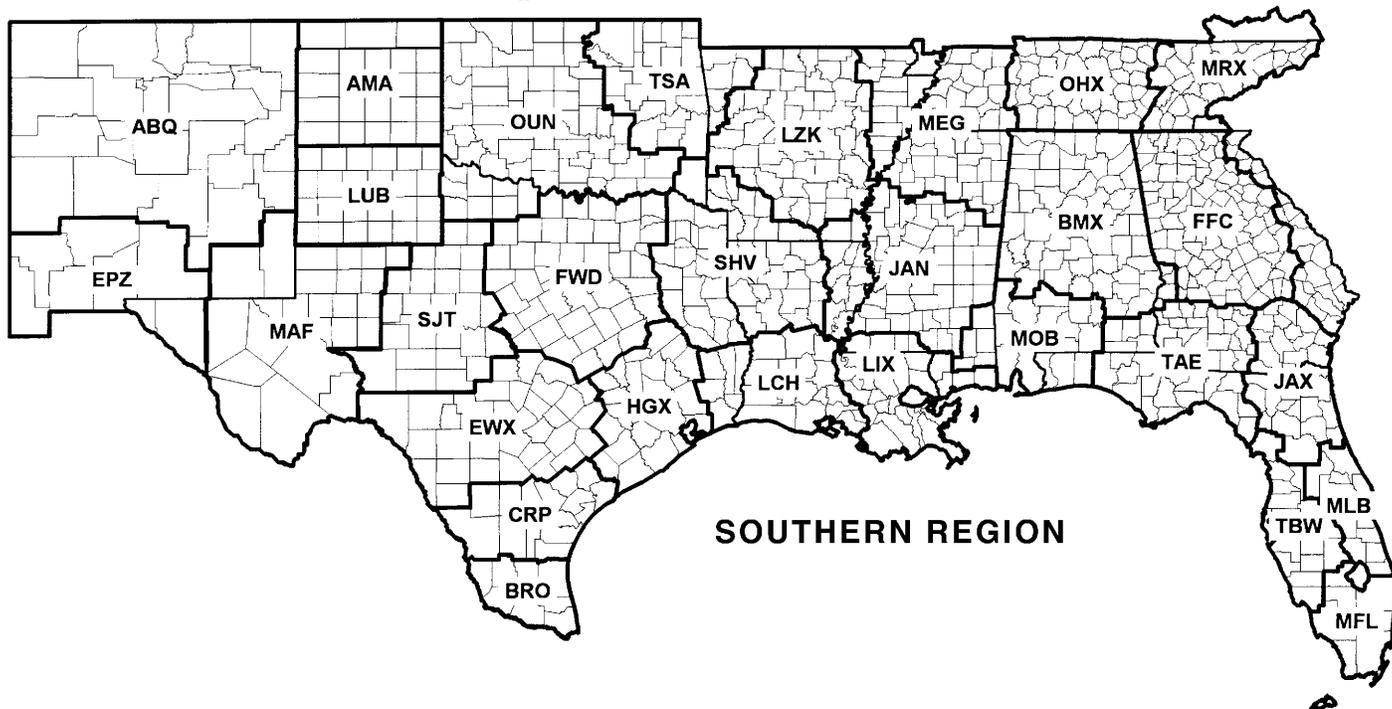


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

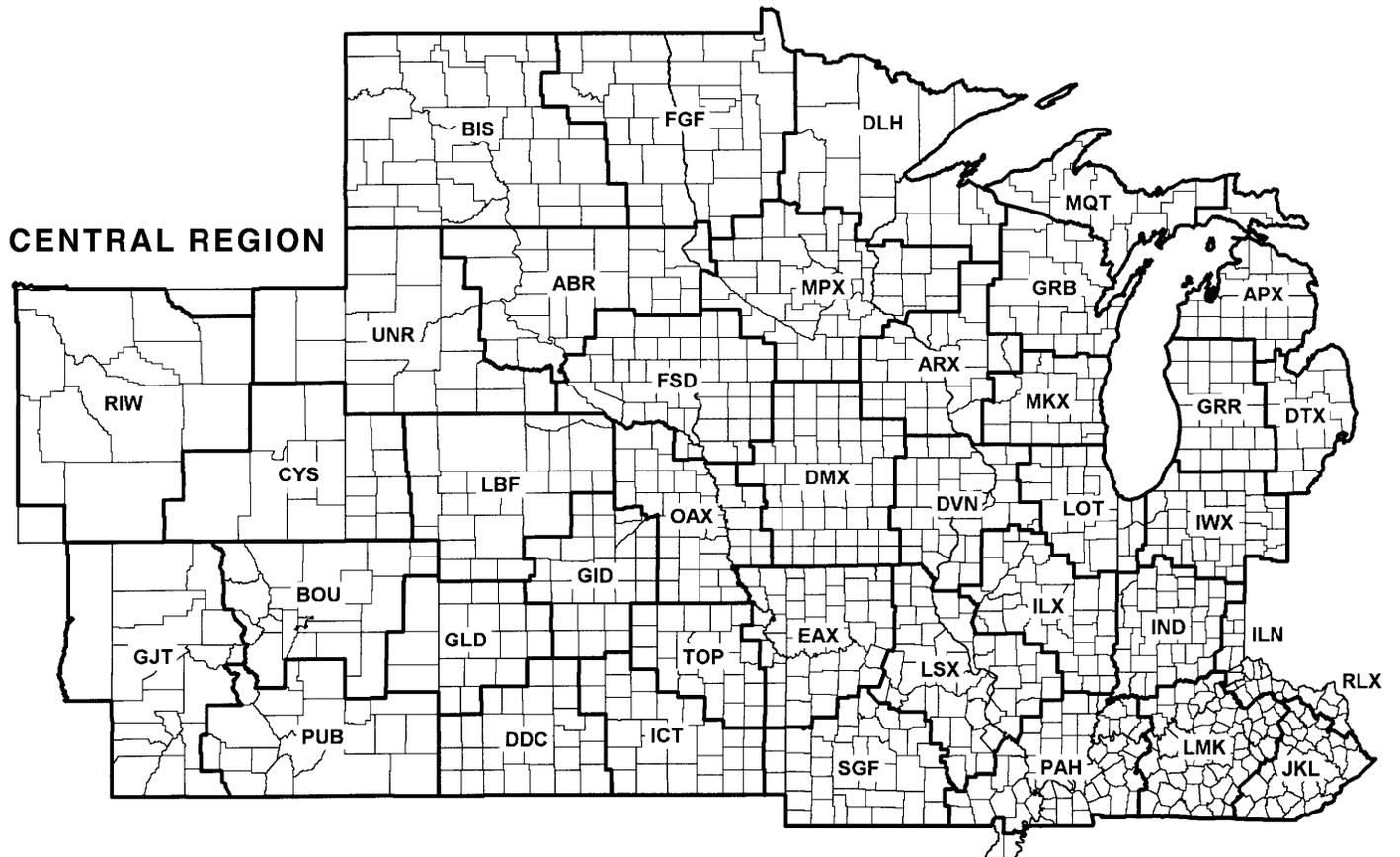
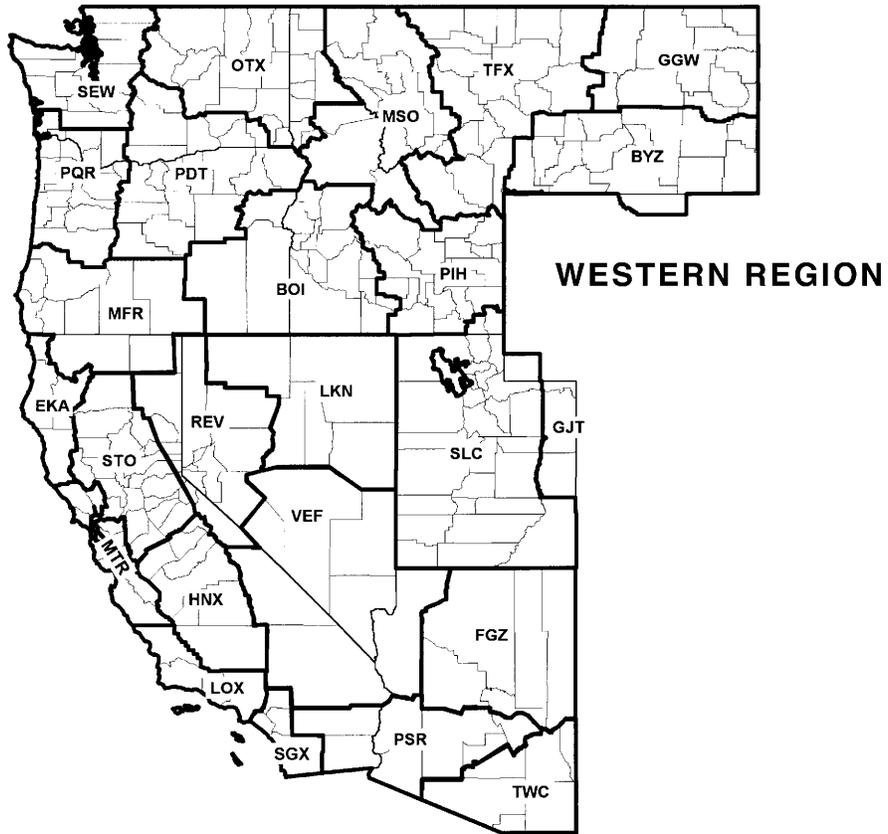


EASTERN REGION

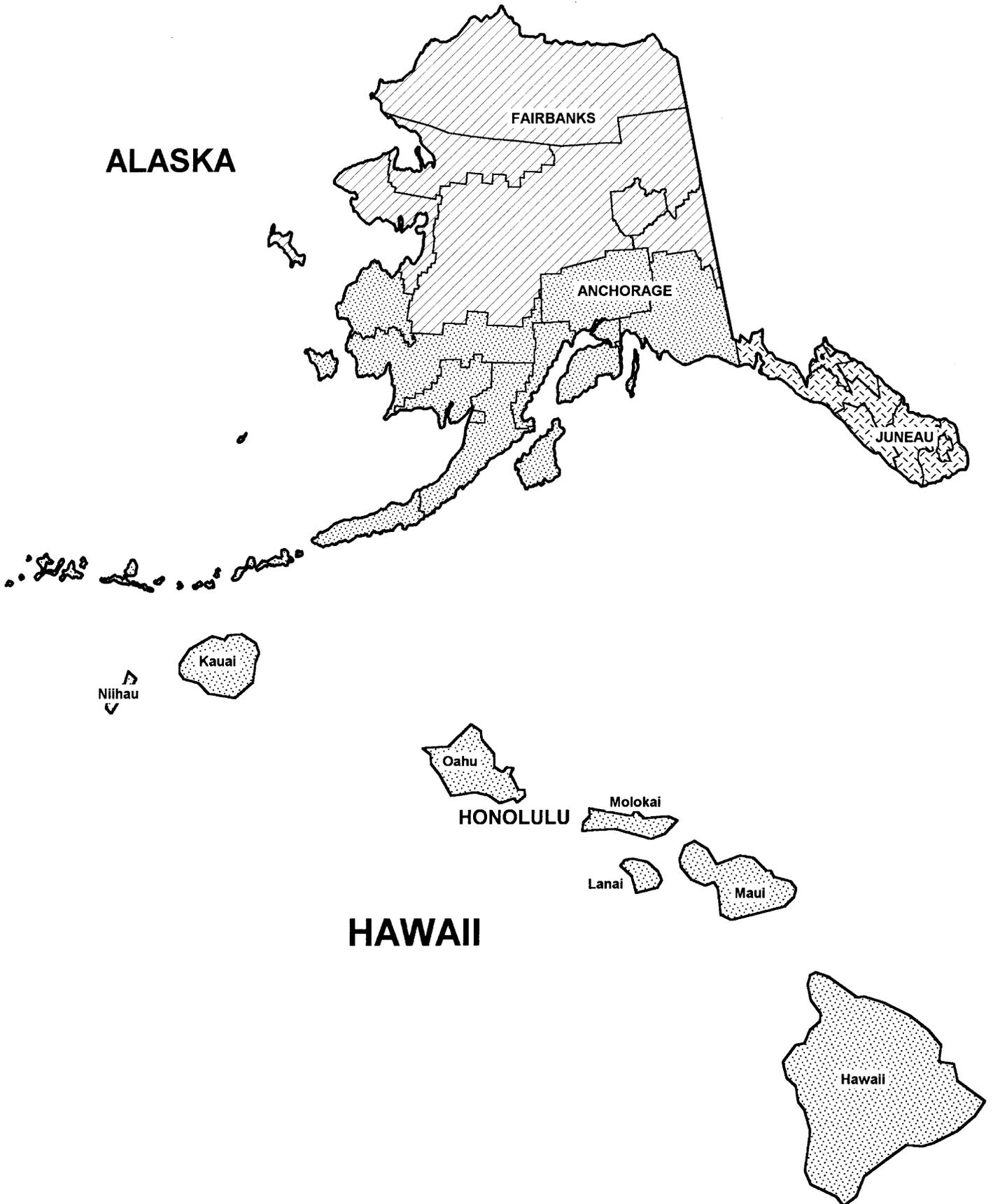


SOUTHERN REGION

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

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