

**JANUARY 2002
VOLUME 44
NUMBER 1**

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: A major ice storm occurred in Oklahoma during the last few days of January 2002. Ice accumulations of one to two inches were common. Thousands of trees and utility poles were downed. Pictured is a power pole and line damage near Highway 51, east of Hennessey, Oklahoma. (*Photo courtesy: Mike Branick, WFO Norman, Oklahoma.*)

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STORM DATA

(ISSN 0039-1972)

National Climatic Data Center

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STORM DATA is prepared, and distributed by the National Climatic Data Center (NCDC), National Environmental Satellite, Data and Information Service (NESDIS), National Oceanic and Atmospheric Administration (NOAA).

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

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

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

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

Subscription, pricing, and ordering information is available from:

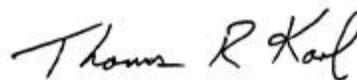
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The editor of **STORM DATA** solicit your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or severe weather events (past or present) for use in the "Outstanding Storms of the Month"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

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Asheville, NC 28801
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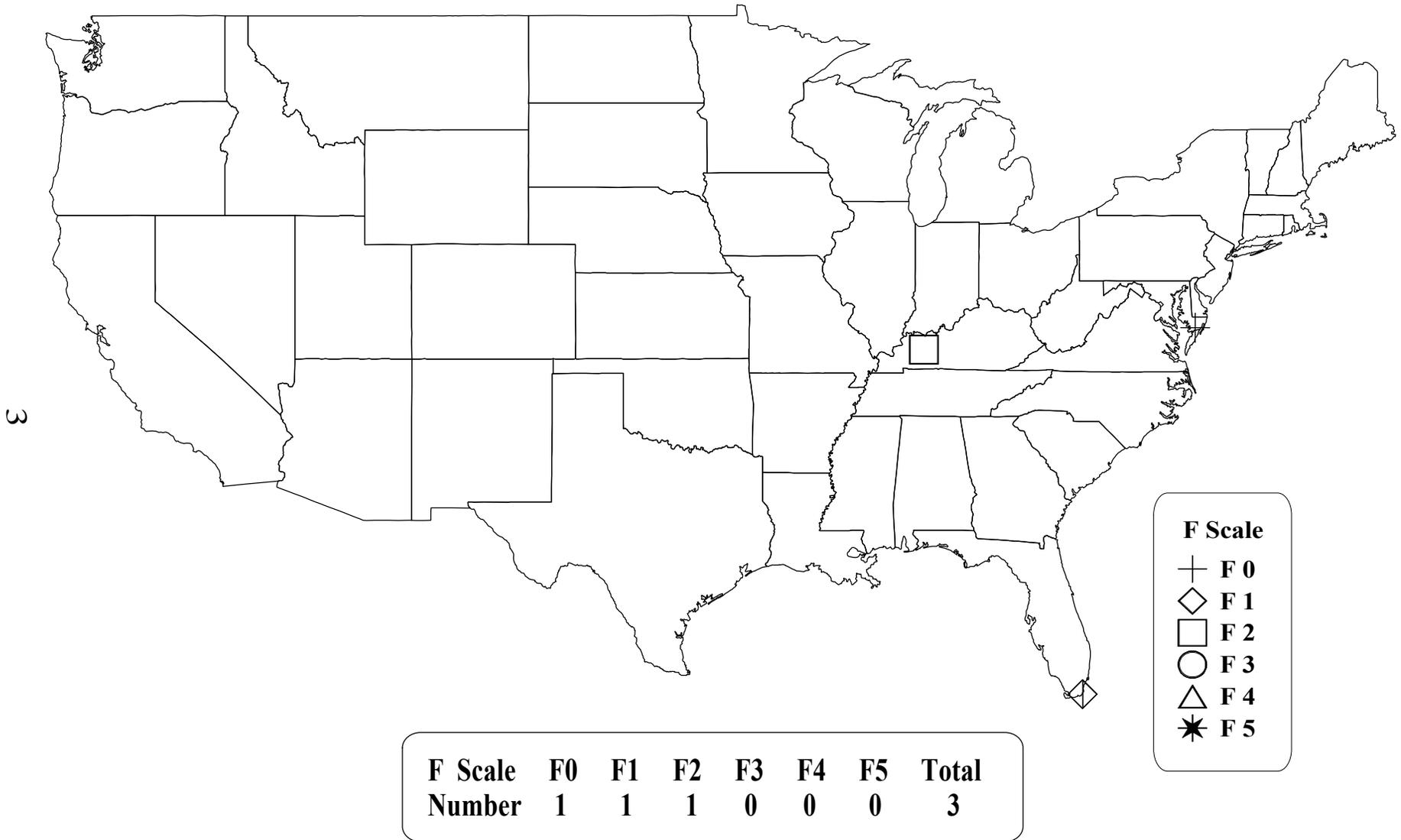
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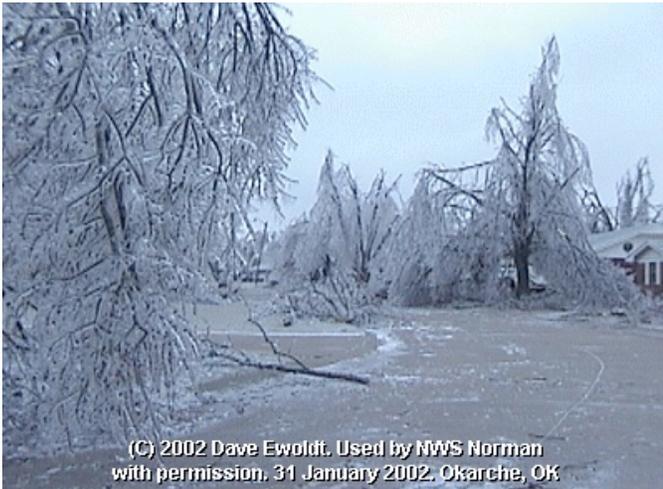
January 2002 Confirmed Tornadoes



OUTSTANDING STORMS OF THE MONTH

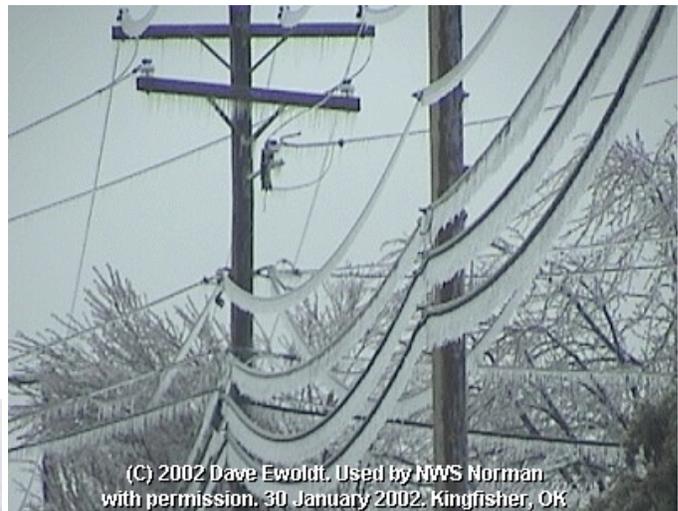
Ice Storm in Oklahoma

A combination of an upper-level storm system and a shallow cold air mass over most of Oklahoma resulted in a major ice event from January 29 through January 31, 2002. Since soil temperatures remained above freezing, only exposed objects collected ice. Ice accumulations of one to two inches were commonly observed as rainfall amounts ranged from two to three inches. The heaviest ice accumulations developed in a 50 to 60 mile wide band from near Ponca City, Oklahoma southwestward to Cordell, Oklahoma. Thousands of trees and utility poles were downed. At one point, nearly 250,000 residents were without power. Damage estimates are in the hundreds of millions of dollars.



Left: Tree damage was extensive in Okarche, Oklahoma from the heavy ice accumulations on January 31, 2002. (Photo courtesy: © 2002 Dave Ewoldt.)

Right: Ice hangs on power lines in Kingfisher, Oklahoma on January 30, 2002. (Photo courtesy: © 2002 Dave Ewoldt.)



Left: Heavy ice accumulation on a wire fence near Highway 51, east of Hennessey, Oklahoma. (Photo courtesy: Mike Branick, WFO Norman, Oklahoma.)

Storm Data and Unusual Weather Phenomena

January 2002

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

ALABAMA, North Central

Lawrence County

Countywide	24	0600CST			0	0	10K	0	Flash Flood
------------	----	---------	--	--	---	---	-----	---	-------------

Limestone County

Countywide	24	0600CST			0	0	30K	0	Flash Flood
------------	----	---------	--	--	---	---	-----	---	-------------

Rainfall continued across parts of northwest Alabama for a second day in a row. Radar estimated rain amounts as high as 3 inches. Additional rainfall on already saturated ground quickly caused flooding. Numerous roads across all of these counties were flooded and impassable. Many of the roadways received moderate damage which included bridge damage, sinkhole development, and road surface damage. Many cross drains and side drains were damaged by the high, rushing water. Six homes in Lauderdale County were flooded but no injuries were reported. One home in Colbert County was flooded and received driveway damage.

ALZ024

Jefferson

29	1500CST				0	0	0	0	Excessive Heat
----	---------	--	--	--	---	---	---	---	----------------

The temperature recorded at the Birmingham International Airport rose to 78 degrees breaking the old record of 77 set in 1975.

ALZ006

Madison

29	1600CST				0	0	0	0	Excessive Heat
----	---------	--	--	--	---	---	---	---	----------------

The temperature reached 73 degrees at the Huntsville International Airport tying the old record of 73 set in 1959.

ALZ024

Jefferson

29	1600CST				0	0	0	0	Excessive Heat
----	---------	--	--	--	---	---	---	---	----------------

The temperature soared to 80 degrees at Pinson, AL, establishing a new record high for the day and also establishing a new record high for the month of January. The 80 degree reading was also the warmest recorded so early in the year.

ALZ006

Madison

30	1600CST				0	0	0	0	Excessive Heat
----	---------	--	--	--	---	---	---	---	----------------

The high temperature reported at the Huntsville International Airport was 77 degrees breaking the old record of 70 degrees set in 1975.

ALZ006

Madison

31	1600CST				0	0	0	0	Excessive Heat
----	---------	--	--	--	---	---	---	---	----------------

The afternoon high temperature recorded at the Huntsville International Airport was 76 degrees. This temperature established a new record high temperature.

ALABAMA, Southeast

Coffee County

Northeast Portion	19	1615EST			0	0	1K		Thunderstorm Wind
-------------------	----	---------	--	--	---	---	----	--	-------------------

A few trees down on County Roads 323 and 606, as well as Highway 125. Reported by the Coffee County Sheriff.

Houston County

Countywide	19	1630EST 1655EST			0	0	10K		Thunderstorm Wind
------------	----	--------------------	--	--	---	---	-----	--	-------------------

Numerous downed trees and power lines. Reported by the Houston County EMA.

ALABAMA, Southwest

ALZ051>062

Choctaw - Washington - Clarke - Wilcox - Monroe - Conecuh - Butler - Crenshaw - Escambia - Covington - Upper Mobile - Upper Baldwin	02	0000CST 0900CST			0	0			Winter Storm
--	----	--------------------	--	--	---	---	--	--	--------------

A band of sleet and snow fell across the region during the early morning hours Wednesday. Most of the snow fell prior to sunrise, but continued until late morning on a more isolated basis in some locations. Most of the snow occurred along and north of a line extending from Deer Park in Washington County, to Evergreen in Conecuh County, to Luverne in Crenshaw County. A mixture of light snow, sleet and freezing rain occurred south of this line, with 1 to 2 inches of snow falling over northern portions of Mobile, Baldwin, Escambia and Covington counties. Little or no accumulations were reported over southern portions of Mobile and Baldwin counties. Some of the heavier snowfall accumulations occurred in the Jackson and Whatley areas of Clarke County, where 3 inches of snowfall was reported on the ground. The community of Snow Hill, in Wilcox County, lived up to its name with 2 inches of snow on the ground. Camden, Peterman, and Highland Home all also reported a 2 inch snow accumulation. Traveling became hazardous across the area, especially on secondary roads and bridges. Several secondary roads and bridges had to be temporarily closed and sanded, however, very few traffic accidents were reported.

Storm Data and Unusual Weather Phenomena

January 2002

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

ALABAMA, Southwest

Choctaw County

Melvin to Toxey	19	1120CST 1125CST			0	0	50K		Thunderstorm Wind (G60)
------------------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

Strong winds from a line of thunderstorms blew trees and power lines down from Melvin to Toxey and Gilbertown. In the Melvin area, in addition to trees and power lines blown down, some shingles were blown from a couple of roofs and a trailer suffered minor damage. In the Toxey and Gilbertown areas, in addition to trees being blown down, several outbuildings were also damaged.

Wilcox County

Boykin to Rehoboth	19	1145CST 1150CST			0	0	10K		Thunderstorm Wind (G55)
---------------------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

High winds from a line of thunderstorms blew down trees and power lines along County Road 29 between Boykin and Rehoboth.

Washington County

Tibbie	19	1210CST 1212CST			0	0	15K		Thunderstorm Wind (G50)
---------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

High winds from a thunderstorm blew down several trees and power lines east of Tibbie. One of the limbs from a fallen tree fell on a moving vehicle and damaged the windshield.

Monroe County

Monroeville to Midway	19	1315CST 1325CST			0	0	25K		Thunderstorm Wind (G60)
------------------------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

Trees and power lines were blown down as a line of thunderstorms moved through the county. The damage extended from north of Monroeville to Peterman to Midway.

Crenshaw County

Patsburg	19	1400CST 1401CST			0	0	10K		Thunderstorm Wind (G55)
-----------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

High winds from a thunderstorm blew down several trees and power lines near Patsburg. Tin siding was also blown from an outbuilding.

Choctaw County

Butler	24	1727CST 1728CST			0	0			Hail (0.75)
---------------	----	--------------------	--	--	---	---	--	--	--------------------

Choctaw County

Bladon Spgs	24	1740CST 1742CST			0	0	15K		Thunderstorm Wind (G60)
--------------------	----	--------------------	--	--	---	---	-----	--	--------------------------------

Several trees and power lines were blown down by high winds from a thunderstorm just east of Bladon Springs. Some outbuildings were also damaged by the high winds.

ALASKA, Northern

AKZ213

St Lawrence Is. Bering Strait

01		1334AST 1600AST			0	0			Blizzard
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AKZ213

St Lawrence Is. Bering Strait

01		1435AST			0	0			High Wind (G65) ^M
03		0535AST							

A deepening low over the southwest Bering Sea coupled with a building high over Siberia resulted in a very tight pressure gradient over the Bering Strait resulting in blizzard conditions at Tin City and high winds across St Lawrence Island. Wind gusts reached as high as 65 knots (75 mph) at the Gambell AWOS.

AKZ207

Chukchi Sea Coast

02		1453AST			0	0			Blizzard
03		1553AST							

Blizzard conditions were reached at the Chukchi Sea Coast community of Kivalina as wind gusts between 35 and 50 mph resulted in blowing snow. Visibility was reported by Kivalina City Officials as low as 100 feet for several hours. These conditions resulted within a tight pressure gradient created by high pressure building over Siberia.

AKZ203

Central Beaufort Sea Coast

04		1900AST			0	0			Wind Chill
05		0509AST							

Wind chills as low as minus 73 degrees Fahrenheit were reported across the Central Beaufort Sea Coast from Deadhorse to Nuiqsut. These low wind chills developed due to a deepening low moving east over the Arctic Ocean producing winds of at least 15 mph in a cold airmass.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
ALASKA, Northern									
AKZ214		Yukon Delta							
	04	2225AST			0	0			Blizzard
	05	1815AST							
	The Yukon Delta communities of Emmonak and Cape Romanzof experienced intermittent Blizzard conditions for several hours as a deepening trough of low pressure swept across the area.								
AKZ219		Upper Koyukuk Valley							
	05	1155AST			0	0			High Wind (G43) ^M
		1255AST							
	Wind gusts to 43 knots (50 mph) occurred at the Indian Mountain AWOS as a surface trough ahead of an occluded front passed over the area.								
AKZ223		Deltana And Tanana							
	05	1307AST			0	0			High Wind (G48) ^M
		1353AST							
	High winds in channeled areas of the eastern Alaska Range resulted as the pressure differential increased across the mountains. A low pressure trough developed north of the range, while to the south a ridge of high pressure strengthened. Wind gusts to 48 knots (55 mph) were reported at the Delta Junction ASOS site.								
AKZ213		St Lawrence Is. Bering Strait							
	05	1315AST			0	0			High Wind (G52) ^M
		1355AST							
	High wind criteria was briefly met over the western end of St. Lawrence Island with wind gusts reaching 52 knots (60 mph). These winds resulted as an embedded trough of low pressure moved across the region within an already moderately tight pressure gradient. This pressure gradient had developed several days earlier between a persistent high pressure ridge that extended from Siberia to northern Alaska, and an opposing low pressure system moving across the North Pacific.								
AKZ216		Lower Koyukuk Middle Ykn Vlys							
	06	1200AST			0	0			Heavy Snow
	07	0000AST							
	Heavy snow was reported by the Kaltag cooperative observer. The report indicated 6 inches of new snowfall over a 12 hour period. Heavy snow resulted as an occluded frontal boundary laden with moisture slowly moved across the region. Terrain influences also enhanced snowfall amounts in this area as the occluded front moved in from the east creating upslope conditions over the Nulato Hills.								
AKZ223-225>226		Deltana And Tanana - Denali - Ne. Slopes Of The Ern Ak Rng							
	08	1200AST			0	0	5K		High Wind (G63) ^M
	09	1348AST							
	High winds in the channeled areas of the Alaska Range developed as an occluded front moved northward across the area increasing the surface pressure gradient. Wind gusts to 45 knots (52 mph) were estimated to have occurred across the northeast slopes of the Alaska Range. Estimates based on a significantly tight surface pressure gradient associated with the occluded front as it moved across the region. Wind gusts to 49 knots (56 mph) were measured at the Delta Junction ASOS site and 63 knots (73 mph) by the Healy weather observer. Damage amount is a rough estimate based on the report of portions of a roof at a lodge at Healy being blown off by the strong winds.								
AKZ207-210-213>214		Chukchi Sea Coast - Nrn & Intr. Seward Peninsula - St Lawrence Is. Bering Strait - Yukon Delta							
	09	0756AST			0	0			Blizzard
	10	0900AST							
	Blizzard conditions were reported from Point Hope to Cape Romanzof as a strong low pressure system and associated occluded front moved northward from the eastern Bering Sea. Winds up to 48 knots (55 mph) were reported at Tin City along with blowing snow.								
AKZ223-225>226		Deltana And Tanana - Denali - Ne. Slopes Of The Ern Ak Rng							
	10	0543AST			0	0			High Wind (G54) ^M
		2100AST							
	Strong winds developed through the Alaska Range as high pressure south of the range rapidly built, while to the north of the mountains a trough of low pressure developed. The resulted pressure gradient between these two systems caused winds to be channelled through the narrow mountain passes increasing the overall wind speeds enough to reach warning criteria. Wind gusts up to 50 knots (58 mph) were reported by the weather observer at Healy while at the Delta Junction ASOS site wind gusts reached 47 knots (54 mph). Across the northeastern slopes of the eastern Alaska Range winds were estimated by a Weather Service Official to be as high as 50 knots (58 mph) based on the significant pressure gradient across the region.								
AKZ211		Srn Seward Peninsula Coast							
	14	0215AST			0	0			Blizzard
		1115AST							
	Blizzard conditions developed along the southern Seward Peninsula Coast as an occluded front pushed across the region from the east. The snow and high winds created by the front resulted in blowing snow that reduced the visibility at the village of Gambell to								

Storm Data and Unusual Weather Phenomena

January 2002

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

less than 1/4 mile for several hours.

AKZ225>226

Denali - Ne. Slopes Of The Ern Ak Rng

14	0600AST				0	0			High Wind (G45) ^M
	0940AST								

Winds of 45 knots (52 mph) were estimated over the northeastern slopes of the eastern Alaska Range. These winds were estimated to have occurred were based on a strong south to southeast pressure gradient that had developed ahead of an approaching occluded frontal boundary. High winds associated with this system were officially reported by the Healy weather observer where gusts also reached 45 knots (52 mph).

AKZ212

Ern Norton Sound Nulato Hills

14	0615AST				0	0			Blizzard
	0915AST								

Blizzard conditions were reported around Unalakleet as a warm front moved over the area. Snow fall and strong, gusty winds along the front created blowing snow that resulted in the visibility being reduced to less than 1/4 mile.

AKZ213

St Lawrence Is. Bering Strait

14	0935AST				0	0			High Wind (G56) ^M
	1435AST								

High winds developed over the Bering Straits in response to a deepening low near St. Paul Island and an associated occluded front that moved into the area from the east. Wind gusts to 56 knots (64 mph) were reported at the Gambell AWOS.

AKZ216

Lower Koyukuk Middle Ykn Vlys

14	1215AST				0	0			Heavy Snow
	0015AST								

Heavy snow developed over the lower Koyukuk and middle Yukon Valleys along a slow moving occluded front. Upslope terrain effects also enhanced snowfall on the eastern side of the Nulato Hills as the front approached from the east. The Cooperative weather observer in Kaltag reported 6 inches of new snow over a 12 hour period.

AKZ209

Baldwin Pen. & Selawik Valley

14	1300AST				0	0			Blizzard
	1553AST								

The visibility was reduced below 1/4 of a mile with snow and blowing snow at Kotzebue for several hours. The blizzard conditions were the result of a low pressure center and an associated surface front. As the surface low moved northward from the central Bering Sea, the corresponding surface front moved over Kotzebue sound. Snow and strong winds along the front produced blowing snow that reduced visibility to as low as 1/8 of a mile.

AKZ222

Middle Tanana Valley

14	1620AST				0	0			Winter Storm
	1845AST								

Isolated reports of freezing rain were received at the Fairbanks forecast office from the general public. This event was a result of warm air aloft being forced over a stationary Arctic front that extended across the middle Tanana Valley.

AKZ208

Lower Kobuk & Noatak Valleys

15	0800AST				0	0			Winter Storm
----	---------	--	--	--	---	---	--	--	---------------------

A weakening low pressure system over the southern Bering Straits and its associated frontal occlusion extended eastward helped, produce a small area of freezing rain. A small, shallow pocket of above freezing temperatures aloft near the occluded front produced the rain that subsequently fell into the surface area where temperatures were below freezing. This resulted in the brief period of freezing rain that was reported at the village of Noatak.

AKZ213

St Lawrence Is. Bering Strait

16	1535AST				0	0			Blizzard
	1755AST								

Blizzard conditions developed over St. Lawrence Island. Snow and wind gusts to 51 knots (62 mph) creating blowing snow that reduced the visibility to less than 1/4 of a mile at Gambell and Savoonga. These conditions developed as an occluded front approached and passed over the area. This front was associated with a 966 millibar low pressure system over the central Bering Sea.

AKZ225>226

Denali - Ne. Slopes Of The Ern Ak Rng

16	1552AST				0	0			High Wind (G52) ^M
	1900AST								

A very brief period of winds meeting warning criteria were reported along the north slopes of the central Alaska Range. These winds developed in response to a building ridge of high pressure south of the mountain range, and a low pressure trough to the north. A sufficient pressure differential between these two systems helped create strong winds at Healy were the weather observer reported a wind gust to 52 knots (60 mph). Wind gusts up to 48 knots (55 mph) were estimated to have occurred with this system across the northeast slopes of the eastern Alaska Range.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
ALASKA, Northern									
AKZ222			Middle Tanana Valley						
	17	0053AST 0430AST			0	0			Winter Storm
			Trained spotters reported isolated pockets of freezing rain across the Middle Tanana Valley near Fairbanks. Freezing rain developed along a warm front that was moving north into the area. Warmer temperatures aloft allowed precipitation to melt before falling back into below freezing temperatures at the surface.						
AKZ209			Baldwin Pen. & Selawik Valley						
	17	0236AST 0411AST			0	0			Blizzard
			Blizzard conditions were reported at Kotzebue. Wind gusts to 40 knots (45 mph) and blowing snow reduced the visibility to less than 1/4 mile. These conditions resulted ahead of and during passage of a strong occluded front that moved across the region from the south. This frontal boundary was associated with a strong low pressure center located over the central Bering Sea.						
AKZ213			St Lawrence Is. Bering Strait						
	17	0935AST 1035AST			0	0			High Wind (G52)
			Strong winds developed over the northern coast of St Lawrence Island. Wind gust to 52 knots (60 mph) were estimated to have occurred at Savoonga and other nearby locations. The strong winds occurred as a 970 millibar low moved to a position over the northern Bering Sea. This helped create strong easterly winds along the northern coast of the island within a strong pressure gradient around the low pressure center.						
AKZ225			Denali						
	17	2122AST			0	0			Winter Storm
	18	0030AST							
			A brief period of freezing rain was reported by the weather observer in Healy. This freezing rain developed ahead of an occluded frontal boundary that moved across the region from the southwest.						
AKZ203>204			Central Beaufort Sea Coast - Eastern Beaufort Sea Coast						
	18	1355AST			0	0			Blizzard
	19	0015AST							
			Building high pressure over the Arctic Ocean resulted in strong easterly winds along the Central and Eastern Beaufort Sea Coast. These strong winds created areas of blowing snow significantly reducing visibilities. Along the Eastern Beaufort Sea Coast, Barter Island reported winds greater than 35 mph with visibilities below 1/4 mile for several hours. Deadhorse and Kaparuk reported blizzard conditions as well along the Central Beaufort Sea Coast area.						
AKZ210			Nrn & Intr. Seward Peninsula						
	23	1143AST			0	0			Wind Chill
	24	1853AST							
			Wind chill temperatures of 66 degrees below zero were reported at Deering as wind speeds increased above 15 mph. Sufficiently cold surface temperatures combined with the increasing winds resulted in the wind chills meeting warning criteria. Winds increased as a northerly pressure gradient developed between a building high pressure system over Siberia, and lower pressure over mainland Alaska.						
AKZ207			Chukchi Sea Coast						
	23	2335AST			0	0			Wind Chill
	24	0355AST							
			Wind chills to 63 degrees below zero were reported at Shishmaref. Sufficiently cold surface temperatures coupled with winds greater than 15 mph resulted in warning criteria wind chills. Winds necessary to cause these wind chill temperatures developed between a low pressure center over northwestern Alaska, and a building ridge of high pressure over the Chukotsk Peninsula.						
AKZ213			St Lawrence Is. Bering Strait						
	25	1235AST 2035AST			0	0			Blizzard
			A deepening low over the western Bering Sea rapidly moved north towards St. Lawrence Island bringing with it snow and strong winds. This combination of snow and winds was sufficient enough to create blizzard conditions at Savoonga and Gambell.						
AKZ207			Chukchi Sea Coast						
	25	1515AST 2055AST			0	0			Wind Chill
			Wind chill temperatures of 63 degrees below zero were reported at Shishmaref. These extremely low wind chill temperatures developed as sufficiently cold surface temperatures combined with winds over 15 mph. Increasing winds developed between a low over the Bering Sea that was moving to the northeast, and high pressure over mainland Alaska.						

Storm Data and Unusual Weather Phenomena

January 2002

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

ALASKA, Northern

AKZ214

Yukon Delta

25 1555AST
1855AST

0 0

Blizzard

Blizzard conditions were reported at Cape Romanzof as a deepening low pressure center moved rapidly northward across the western Bering sea. This low and its associated frontal boundary produced snow and strong winds. The combination of these two resulted in blowing snow that reduced the visibility at Cape Romanzof to zero for several hours.

AKZ209

Baldwin Pen. & Selawik Valley

25 2055AST
26 0455AST

0 0

Wind Chill

Wind chill temperatures to 72 degrees below zero were reported at Selawik. Sufficiently cold surface temperatures combined with winds that increased to over 15 mph resulted in warning criteria being met. The winds sufficient enough to create the extreme wind chills developed as a low over the northern Bering Sea moved northeastward increasing the pressure gradient between it, and high pressure over mainland Alaska.

AKZ214

Yukon Delta

28 1355AST
1655AST

0 0

Blizzard

Blizzard conditions were met along the Yukon Delta Coast at Cape Romanzof. Reduced visibility and strong winds developed as a deepening low moved north into the southern Bering Sea.

AKZ224-226

Upr Tanana Vly Fortymile - Ne. Slopes Of The Ern Ak Rng

30 1600AST
31 0030AST

0 0

Heavy Snow

Heavy snow was reported by the Tok Cooperative weather observer. The report indicated that 6.6 inches of new snowfall occurred withing a 9 hour period. Heavy snow was also reported along portions of the Glenn Highway in the eastern Alaska Range by the Highway Department. These areas of heavy snow resulted as low pressure developed along the Alaska-Canadian border. This low brought significant moisture into these areas from the Gulf of Alaska which resulted in the heavy snowfall.

AKZ213

St Lawrence Is. Bering Strait

31 1055AST
1855AST

0 0

Blizzard

Tin City reported visibility reduced to zero for several hours with blowing snow and strong winds. These blizzard conditions developed in response to an increasing pressure gradient between high pressure over the Chukchi Sea and a low over the southern Bering Sea. Rapidly increasing surface winds greater than 35 mph resulted in blowing snow and reduced visibility.

ALASKA, Southeast

AKZ024

Northern Lynn Canal

05 1000AST
2100AST

0 0 0 0

Heavy Snow

AKZ024

Northern Lynn Canal

05 1030AST
2100AST

0 0 0 0

Ice Storm

A strong weather front moving over the northern panhandle and a pocket of cold air trapped in valleys of northern Lynn Canal. Heavy snow fell at the higher elevations and near the White and Chilkoot passes, while pockets of freezing rain fell around and north of the city of Haines. The customs station near the border north of Haines reported 11 inches of snow, while in and just north of Haines approximately an a tenth of an inch of glaze accumulated from the freezing rain.

AKZ023-028

Cape Decision To Cape Fairweather-Coastal Area - Dixon Entrance To Cape Decision-Coastal Area

05 2130AST
06 0100AST

0 0 5K 0

High Wind (G62) ^M

A portion of the weather front wrapped around a low over the eastern Gulf of Alaska and brushed the southwest coastal areas. The increase in winds spread in about 930 pm and last to just after midnight. Klawock reported gusts to 71 mph with some minor damage. The roof a trailer blew off and power lines disturbed or knocked down resulting in a power outages for a couple of hours. Cape Decision also report winds gusting to 61 mph.

AKZ022

Cape Fairweather To Cape Suckling-Coastal Area

09 0530AST
1400AST

0 0 0 0

High Wind (G51) ^M

A strong weather front moving across the Gulf of Alaska brought strong gusty southeast winds to the Eastern Gulf Coast area the morning of the 9th. The bay tower in Yakutat recorded a wind gust of 51 kt (58 mph) around 7am.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ALASKA, Southern
AKZ125-135

Wrn P.W. Snd & Kenai Mtns - Sern P.W. Snd

08	1000AST				0	0			High Wind (G97) ^M
09	1500AST								

A complex series of lows began moving into Prince William Sound from the north Pacific early Tuesday, 1/8/02. Pressure gradients began to tighten in advance of these lows.

At 8 am Wednesday, Ak. Railroad reported 12" of new snow at Tunnel. When the observer got to the outskirts of Seward he reported 75 to 100 year old trees snapped off along the highway. Gusts at Max's Mountain reached 112 mph.

Around Cordova, DOT morning road reports reported gusts to 60 mph at mile 13 on the Copper River Highway. Estimated gusts of 75+ mph in town.

Event Maxima...

125 - 112 mph gusts at Max's Mountain overnight Wednesday, 1/9/02.

135 - Estimated 75+ mph in Cordova Wednesday morning.

AKZ195

Pribilof Islands

08	1100AST				0	0			Blizzard
09	1600AST								

Winds picked up above 35 mph around 11 am Tuesday. Visibilities near or below 1/4 mile occurred from 11 am Tuesday until 4 pm Wednesday in snow and blowing snow. Visibilities improved after 4 pm Wednesday, briefly reaching 1/4 mile again between 9 and 10 pm. Winds ranged from 35 to 44 mph from 11 am Tuesday through 1 am Thursday. Peak winds reached 49 mph from the north between 9 and 10 am Wednesday.

AKZ101

Anchorage Muni To Bird Creek

10	0500AST				0	0			High Wind (G68) ^M
	1200AST								

Remains of a low, located near Sitkinak Wednesday, moved north northwest into the western Alaska Range. Strong winds were reported on the east and south side of the low.

Winds at Glen Alps had diminished to the advisory level from the pre-frontal strong winds Wednesday. Gusts increased to 78 mph at 5 am AST Thursday, continuing at warning levels through most of the rest of the morning.

AKZ121

Kenai Peninsula

10	1200AST				0	0			Heavy Snow
11	0400AST								

A front moving toward the Kenai Peninsula produced locally heavy snow at higher elevations around Homer.

At 4:45 pm Thursday, radio station KBBI called to request a resend on the forecast, passing on that 12-13 inches of snow had fallen on Diamond Ridge since after midnight. The station also passed on that the snow had been coming down "pretty good" there all day. A call from the Anchorage Forecast Office revealed that the Homer police were apparently unaware of the heavy snow on the Ridge.

AKZ101

Anchorage Muni To Bird Creek

11	1700AST				0	0			Ice Storm
	2000AST								

Weak low over south-central Alaska, produced snow in the Anchorage bowl, which then turned to freezing rain. Freezing rain was reported by Forecast Office staff in east parts of the city. Another employee, on the way to work, reported several automobile accidents on the Glenn Highway.

A 71 year old Wasilla man died Friday after his sport utility vehicle flipped on the Glenn Highway just north of Mirror Lake. The accident occurred about 1:10 pm when he lost control of his vehicle (apparently was not wearing his seat belt and was ejected from the car). As of 4:30 pm, police reported working 38 crashes, 15 of which involved injuries. The first crash report came in at 11:44 am near the South Birchwood Loop exit, with 10 more in the next 5 hours.

AKZ195

Pribilof Islands

12	1021AST				0	0			Blizzard
13	0053AST								

A weakening low moved across the eastern Aleutians, pushing into strong high pressure centered in far eastern Siberia. The front associated with the low was preceded by brisk northeast winds and blizzard conditions in blowing snow, along with snow and temperatures in the mid 20s.

Blizzard conditions continued for up to 5 hours at a time. Saint Paul observer said snow drifts there were up to 20 feet high and that "visibilities approached zero at times, although the ASOS didn't report it". He also commented that the sea ice edge was just south of Saint Paul.

Storm Data and Unusual Weather Phenomena

January 2002

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

ALASKA, Southern

Event maxima...

Northeast wind gusts reached 52 mph at Saint George Island around noon Saturday.

AKZ141

Copper River Basin

12	1200AST 2000AST				2	1	6K		Avalanche
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Three people were buried by an avalanche while snowmachining on an unsupported cornice. One was dug out of the snow by her husband.

M35OU, F13OU

AKZ161

Bristol Bay

13	1100AST 1600AST				0	0			High Wind (G55) ^M
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965mb low in the Northern Pacific, just south of the Aleutians, was "sandwiched" between a 1036 mb high centered over Russia and 1035 mb high centered over the eastern Pacific and ridging into the Gulf of Alaska. This created a strong pressure gradient over the Bering Sea and Southwest Alaska.

Peak Wind Port Heiden: 63 mph

Wind Cape Newenham: 62 mph. This was the highest sustained wind observed. No peak wind data was available at this site.

AKZ101-125

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

13	1600AST				0	0			High Wind (G66) ^M
14	0900AST								

Front from Bristol Bay to Kodiak moved toward and through the area, preceded by brisk easterly winds. Strong winds were reported around Glen Alps and other Upper Hillside areas as well as around Turnagain Arm.

In addition to the peak winds reported, Alyeska recorded gusts in the 70 to 80 mph range. Reports from the Portage Alaska Railroad site suggest that the strong, warning level winds were limited to higher elevations around Turnagain Arm, areas right around the Portage Visitor Center and along the road from the Whittier tunnel entrance at Bear Valley to the Seward Highway.

Event maxima...

101 - Glen Alps east 76 mph at 0100 AST Mon, 1/14/02

125 - Portage ASOS recorded easterly peak wind of 72 mph at 0236 AST Mon, 1/14/02.

AKZ181

Alaska Peninsula

14	0500AST 1200AST				0	0			High Wind (G52) ^M
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A large low just north of the central Aleutians, brought gusty southeast winds to the Alaska Peninsula.

Early Monday, Cold Bay reported gusts as high as 55 mph. At Sand Point, peak gusts reached 60 mph between 6 and 7 am.

AKZ161

Bristol Bay

14	1030AST 1500AST				0	0			High Wind (G60) ^M
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965mb low, that was just south of the Aleutians on Sunday, 1/13/02, moved northeast into the Eastern Bering Sea at 970mbs...still sandwiched between 2 strong high pressure areas.

Sustained winds at Cape Newenham reached 69 mph.

AKZ185

Eastern Aleutians

15	1400AST 1845AST				0	0			High Wind (G65) ^M
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An intense low in the north Pacific moved rapidly toward the Aleutian Chain Tuesday afternoon. The front associated with the low was preceded by strong east southeast winds.

At noon Tuesday, the Dutch Harbor airport recorded southeast winds to 46 mph. By 2 pm, southeast wind gusts reached 75 mph. By 5 pm, southeast wind gusts had diminished to 43 mph. Frontal passage occurred at 6:45 pm and gusty southeast winds diminished.

AKZ181

Alaska Peninsula

16	0554AST 0800AST				0	0			High Wind (G53) ^M
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A north northwest moving frontal system...associated with a large, complex low with central pressure of 968 mbs, just west of Adak, brought strong southeast winds to Cold Bay.

Storm Data and Unusual Weather Phenomena

January 2002

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

Gusty southeast winds began around Cold Bay about 1 pm AST Tuesday, but did not reach warning levels at that time. Winds even diminished for a couple of hours around midnight, then picking up to 61 mph early Wednesday.

AKZ161

Bristol Bay

16	1053AST				0	0			High Wind (G59) ^M
	1715AST								

A large and complex low pressure system, with the main center at 968 mbs south of Cape Sarichef, moved north northwest. Front from the low into the northwest coast of Bristol Bay and through Sitkinak was preceded by brisk southeasterly winds.

Peak Winds Cape Newenham: 63 mph

Peak Winds Platinum: 68 mph

AKZ101-125

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

16	1900AST				0	0			High Wind (G66) ^M
	0300AST								

A moderate front moving into the area was accompanied by brisk east southeast winds around Turnagain Arm and the Upper Anchorage Hillside.

101 - East winds first reached 60 mph at Glen Alps after 3pm Wednesday, peaking at at least 76 mph (missing observations) early in the morning Thursday. Wind reports were missing from 3 am to 2 pm Thursday...after which wind gusts diminished below 30 mph.

125 - Peak winds around the Portage ASOS were estimated at 67 mph.

AKZ145

Susitna Valley

17	1800AST				0	0			Heavy Snow
	2359AST								

Warm, moist air overrunning the arctic front produced locally heavy snows along the Parks Highway. Heavy snows likely occurred at other locations in the Susitna Valley. Chulitna Lodge reported heavy snow during the evening. A woman traveling the Parks Highway from Anchorage to Fairbanks, reported 10" of new snow along the route in the northern Susitna Valley when she arrived in Fairbanks.

AKZ141

Copper River Basin

17	2003AST				0	0			Ice Storm
	0025AST								

Arctic front overrunning produced freezing rain in parts of the Copper River Basin late Thursday. Cooler air aloft moved in and changed precipitation to all snow across the area early Friday.

No reports of intensity of freezing rain.

AKZ171

Kodiak Peninsula

19	1800AST				0	0			High Wind (G62) ^M
	0800AST								

Northwest winds increased across Kodiak Island as high pressure built into the area from the west and southwest. Low pressure in the eastern Gulf of Alaska maintained its strength. Surface pressure gradients were tightest over Kodiak Island.

Three 40-foot vans at the CSX terminal were a total loss, according to the Kodiak Daily Mirror. They were all blown into the water. Winds also caused a power outage at 6 am, felling three trees out by the airport. The trees then fell on power lines, causing the generator to shut down. Another tree hit a power line located between Rezanof and Ismailof Streets, shutting off power briefly to residences west of Potatopatch Lake.

AKZ185

Eastern Aleutians

22	1700AST				0	0			High Wind (G54) ^M
	2300AST								

AKZ181

Alaska Peninsula

22	1800AST				0	0			Blizzard
	2120AST								

AKZ195

Pribilof Islands

23	0500AST				0	0			Heavy Snow
	0600AST								

Map features affecting the warning areas basically centered on a large complex low...988 mbs...centered north of Cold Bay.

Winds on the south and west sides of the low reached warning levels around Dutch Harbor. Blizzard conditions in blowing snow and gusty, near warning level, winds from the west were reported along the Alaska Peninsula.

Moderate snowfall was reported along the back side of the low across the Pribilofs.

Storm Data and Unusual Weather Phenomena

January 2002

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

ALASKA, Southern

Seven reefer vans flipped over in the yard at the City of Dutch Harbor dock. Another five were damaged by contact with the 'flying' vans. Wind reports likely did not catch the actual winds that caused the damage. The Port Director, Jim Severns, reported the city dock is on the lee of a mountain. He mentioned that during north to west winds this (sic) creates some very interesting vortices, or 'air bombs'...as they are referred to. He also reported that container vans 'going over' are a fairly common occurrence around Dutch Harbor.

181 - Visibilities frequently below 1/4 mile in heavy snow, blowing snow and reported fog at Cold Bay, with peak winds reaching 55 mph from the west between 6 and 7 pm Wednesday.

185 - Gusts reached 62 mph from the northwest between 5 and 6 pm Tuesday. Augmented reports were unavailable after 9 pm (winds still at warning levels).

195 - Reported 8 inches during 24 hours at Saint Paul.

AKZ171

Kodiak Peninsula

23	0600AST			0	0	0.10K	High Wind (G88)	^M
25	1200AST							

A complex 988 mb low, centered north of Cold Bay Tuesday, moved east across the Gulf of Alaska Wednesday and Thursday...to a position off Southeast Alaska near Canada Friday. The system was followed by a strong area of high pressure. Cold northwest winds moved in behind the low and into Kodiak Island late Wednesday and Thursday. Winds were accompanied by temperatures in the single digits and multiple areas of blowing snow. Despite the lack of corroborating reports, extreme blizzard conditions were likely reached in some areas...especially areas adjacent to Shelikof Strait.

Several observations from Sitkinak were missing...likely directly due to the strong winds. The East Amatuli Island deep water buoy stopped reporting about 7 pm Wednesday, probably due to ice accretion from warning level freezing spray.

No damage was reported at Larsen Bay, Port Lions or Port Bailey.

Akhiok reported a wind speed of 82 mph. A tin roof was lost from a storage shed...otherwise no other damage was reported. The wind equipment is privately owned.

Event maxima...

101 mph from the northwest at Sitkinak at 7 am Thursday, 1/24/02.

AKZ191

Western Aleutians

24	0600AST			0	0		High Wind (G53)	^M
	0608AST							

A large 995 mb low south of Olyutorskiy (on the Kamchatka Peninsula), with a front through the western Aleutians, was responsible for brisk, pre-frontal easterly winds and gusty south winds around the low.

Shemya reported a warning level gust of 61 mph at 6:08 am Thursday (recorded also on the hourly observation at 6:56 am that same hour). Adak gusted to 40 mph from the south southwest between 2 and 3 pm Thursday, while Atka reported gusts only to 33 mph between noon and 1 pm.

AKZ101-121-125

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

27	1900AST			0	0		Ice Storm	
28	0200AST							

A warm front, extending from the mouth of Cook Inlet southeast into the Gulf of Alaska moved slowly north and east across the Cook Inlet/Prince William Sound area. Snow and areas of freezing rain were reported just north of the warm front.

Accumulations appear to have been light.

AKZ161

Bristol Bay

28	1200AST			0	0		Heavy Snow	
29	1500AST							

AKZ155-181

Kuskokwim Delta - Alaska Peninsula

28	1600AST			0	0		Blizzard	
29	2000AST							

AKZ185

Eastern Aleutians

28	1739AST			0	0		High Wind (G53)	^M
29	0300AST							

A strong, North Pacific low, with central pressure as low as 979 mbs at 9 pm Monday, and its associated frontal system, were responsible for the winds and snow across the southwest Alaska mainland and the Aleutians.

Storm Data and Unusual Weather Phenomena

January 2002

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

The low...some 300 miles south southwest of Dutch Harbor early Monday...moved just south southeast of Cold Bay by 9 pm Monday then as a 985 mb center about 70 miles south southeast of Sitkinak Tuesday.

155 - Blizzard conditions were reported at Bethel at 4 pm Monday. Peak northeast wind gusts reached 38 mph. Visibilities improved above 1/4 mile after 5:05 am Tuesday. No other stations in the zone reported blizzard conditions.

161 - Snow began at Togiak early Monday, became heavier by mid morning, and continued through Monday night. By 3 pm Tuesday, most of the heavy snow had ended. At Dillingham, snow began very early Monday, heavy at times 5 and 6 am, finally letting up in intensity early Tuesday. Flight Service personnel in Dillingham reported 14 inches of snow overnight Monday/Tuesday. Snowfall at King Salmon, however, only reached 3 inches overnight Monday/Tuesday.

181 - Although wind gusts at reporting stations never reached much above 40 mph, blizzard conditions began just before 5 am Tuesday. Blizzard conditions across the Alaska Peninsula probably lingered into the late Tuesday afternoon/early evening.

185 - Peak winds hit 61 mph at Dutch Harbor at 5:39 pm Monday. High winds probably continued in parts of the zone into the wee hours of Tuesday.

AKZ195

Pribilof Islands

28	1300AST								
	2100AST	0	0						High Wind (G53) ^M

Strong winds were reported just to the west of a moderate front, associated with a 981 mb low just east of Cold Bay Monday. Gusty north winds reached 61 mph at the Saint George Island ASOS. Saint Paul recorded gusts significantly less...at only 45 mph.

AKZ131

Nern P.W. Snd

29	0150AST								
	0900AST	0	0						Ice Storm

A frontal band, associated with complex areas of low pressure in the Gulf of Alaska, moved into Prince William Sound. Precipitation fell as freezing rain in both Valdez and along Thompson Pass, as cold air slowly moderated at ground levels.

No reports of significant ice accumulation from Valdez WSO.

AKZ195

Pribilof Islands

30	2343AST								
	0500AST	0	0	0.50K					High Wind (G52)

A weather front moving across the Bering Sea brought gusty east winds to the Pribilofs.

Winds at Saint Paul peaked at 55 mph according to the ASOS there. Typical adjustments upward to account for programmed gust interval, suggest gusts exceeded 60 mph.

Data was unavailable at Saint George.

Scaffolding on house #103 in the village of Saint Paul blew over and broke two windows around 2 am AST Tuesday. Siding was blown off the Saint Paul City Hall between 1 and 3 am AST Thursday. Damage estimated at \$500.00.

AMERICAN SAMOA

Tutuila

Countywide

01	0000SST								
	0600SST	0	0						High Surf Advisories

THE HIGH SURF CONTINUED ALONG SOUTH SHORES OF TUTUILA AS HEAVY SWELL FROM TROPICAL CYCLONE WAKA CONTINUED TO MOVE SOUTH AND FURTHER AWAY FROM SAMOA. THE HIGH SURF DIMINISHES TO BELOW SIGNIFICANT HEIGHTS ON THE THIRD OF JANUARY.

Tutuila

Countywide

16	1300SST								
	1800SST	0	0						Heavy Rain

A TROUGH OF LOW PRESSURE OVER TUTUILA DUMPED MORE THAN AN INCH OF RAINFALL WITHIN TWO HOURS CAUSING FLOODING LOW LYING AREAS AND BONDING OF STREETS. THE SHOWERS LINGERED FOR A FEW DAYS MORE ALTHOUGH NOT QUITE SIGNIFICANT.

ARIZONA, Central and Northeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2002

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

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

AZZ032

Tohono Oodham Nation

30	0500MST				0	0	0	0	Heavy Snow
	1500MST								

Kitt Peak received 6 inches of snow, with 3 inches reported at an elevation of 3000 feet. Sells only reported a trace of snow.

AZZ019

Northern Greenlee

30	0550MST				0	0	0	0	Heavy Snow
	0800MST								

Hannagan Meadow received 22 inches of snow in 48 hours.

AZZ030

Upper Gila River Valley

30	0550MST				0	0	0	0	Heavy Snow
	0800MST								

Mt. Graham received 14 inches of snow. A flash freeze forced Highway 75 and Interstate 10 to close between Duncan, Az and Deming, NM. Also, there was 2 to 3 inches of snow on Highway 75 outside the town Ducan.

AZZ035

Cochise County

30	0550MST				0	0	0	0	Heavy Snow
	0800MST								

Texas Canyon received 2 inches of snow. Although Interstate 10 was not closed, only one lane was passable in this area. Mule Tunnel near Bisbee was closed due to 2 to 3 inches of snow and icy conditions on the road. Mescal received 2 to 3 inches of snow, while Sierra Vista only received .5 inches. Bisbee, Douglas, and Wilcox reported a trace of snow.

AZZ034

Santa Cruz County

30	0550MST				0	0	0	0	Heavy Snow
	1500MST								

Patagonia Lake reported 1 to 3 inches of snow in the afternoon of the 30th.

AZZ029

Southeast Pinal County

30	0550MST				0	0	0	0	Heavy Snow
	1500MST								

Oracle received 3 inches of snow.

AZZ033

Tucson Metro/Marana/Green Valley

30	0550MST				0	0	0	0	Heavy Snow
	0800MST								

Tucson International Airport received .6 inches of snow, which was the first measurable snow reported in 11 years. It snowed periodically throughout the day of the 30th. Between 7:00 and 9:00 pm on the 30th, there were reports of thunder snow. Other snowfall amounts across the Tucson area were scattered. The An observer in the Rincon Mountains (4200 feet), reported 2 inches of snow on the morning of the 30th. An observer in the Tucson Mountains, reported 1 inch of snow on the morning of the 30th. On the campus at the University of Arizona, only a trace of snow was reported. Mission Manor Park received .5 inches, Palisades received 7 inches, and Mt Lemmon received 8 to 12 inches of snow. On the morning of the 31st, a combination of black frost and ice forced closures of at least 9 bridges in the Tucson metro area. Heavily traveled roads were also closed which included Oracle, 22nd, Swan, and Kino Parkway.

This storm system that brought snow to the valley floor originated over the Gulf of Alaska. By the 29th, the low pressure system dropped down over southern California and broke into two pieces. The cold core passed over norther Arizona, while the primary low passed over the Arizona-Sonora border. On the 30th, the 1000-500 mb thicknesses dropped to 5250 m and the 700 mb temperatures dropped to -15 degrees Celsius. In the mountains above 4000 feet, accumulations were heavier especially on the south facing slopes due 700 mb winds of 30 to 40 knots. More significant accumulations were unrealized at the valley floor due to freezing levels at 5000 feet and wetbulb zero at 4000 feet.

ARIZONA, Southwest

AZZ023

Greater Phoenix Area

31	0100MST				0	0			Extreme Cold
	0800MST								

Temperatures fell to a low of 24F in Queen Creek, and the resulting frost ruined a large part of a peach crop at a local orchard.

ARKANSAS, Central and North Central

Logan County

Booneville	23	1547CST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Logan County									
Booneville	23	1547CST			0	0			Thunderstorm Wind (G52)
Logan County									
3 E Subiaco	23	1625CST 1630CST			0	0			Hail (1.00)
									Hail up to one inch in diameter caused some roof and auto damage 3 miles east of Subiaco.
Johnson County									
Knoxville	23	1630CST			0	0			Hail (0.75)
Newton County									
Boxley	23	1800CST			0	0			Hail (0.75)
Newton County									
Boxley	23	1800CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds damaged a church and the roofs of several homes.
Marion County									
Pyatt	23	1845CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees and damaged the roofs of several homes near Pyatt.
Marion County									
Flippin	23	1850CST			0	0			Hail (0.75)
Marion County									
Flippin	23	1855CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees and caused roof damage to several homes. A couple of barns were also blown down.
Baxter County									
Cotter	23	1900CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed a large tree at Cotter.
Baxter County									
Mountain Home	23	1910CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down some power lines and damaged the roofs of some buildings.
Johnson County									
Clarksville	23	1930CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down several trees.
Yell County									
Havana	23	2010CST			0	0			Hail (0.75)
Searcy County									
Canaan	23	2015CST			0	0			Lightning
									Lightning struck a dairy barn near Canaan. The barn caught on fire, but the fire was quickly extinguished by the owner. Only minor damage occurred to the barn.
Searcy County									
Oxley	23	2030CST			0	0			Hail (0.75)
Van Buren County									
5 E Botkinburg	23	2035CST			0	0			Hail (0.75)
Stone County									
Timbo	23	2045CST			0	0			Hail (0.75)
Stone County									
Mountain View	23	2100CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds caused some roof damage to several buildings.
Van Buren County									
Bee Branch	23	2125CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a barn near Bee Branch.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Cleburne County									
Crossroads	23	2140CST			0	0			Hail (0.75)
Lonoke County									
Cabot	23	2340CST			0	0			Hail (0.75)
Johnson County									
Countywide	31	1015CST 1400CST			0	0			Flash Flood
Heavy rains resulted in flash flooding across Johnson County. Numerous roads across the county were flooded.									
Logan County									
Countywide	31	1100CST 1400CST			0	0			Flash Flood
Scott County									
Countywide	31	1100CST 1400CST			0	0			Flash Flood
Heavy rains resulted in flash flooding over Logan and Scott Counties. Numerous roads across both counties were under water for several hours.									
Yell County									
Countywide	31	1140CST 1400CST			0	0			Flash Flood
Heavy rains resulted in flash flooding over portions of Yell County. Several roads were covered by high water for a few hours.									
Pope County									
North Portion	31	1200CST 1400CST			0	0			Flash Flood
Heavy rains over the northern part of Pope County resulted in flash flooding. Several roads were covered by high water for a few hours.									
Baxter County									
Countywide	31	1200CST			0	0			Flash Flood
Heavy rain across Baxter County caused some high water problems along several county roads. For example, County Road 46 near Henderson and County Road 806 near Gamaliel were both under water in spots.									
Searcy County									
Countywide	31	1214CST 1400CST			0	0			Flash Flood
Heavy rains across Searcy County resulted in flash flooding across the county. Numerous county roads were flooded for a few hours. High water entered a school at Leslie and damaged the carpet and tile in a couple of classrooms. A creek in Leslie backed up and overflowed near a veterinary clinic.									
<u>ARKANSAS, East</u>									
Lawrence County									
Black Rock	23	2230CST 2235CST			0	0	5K		Thunderstorm Wind
A few trees were blown down.									
Greene County									
Evening Star to Lafe	23	2245CST 2305CST			0	0	40K		Thunderstorm Wind
A barn was blown down near Lafe. A 100 foot antenna was twisted. Several trees were knocked down.									
Cross County									
Wynne	24	0039CST 0040CST			0	0	5K		Lightning
A lightning strike punched a hole through a roof.									
Cross County									
Wynne	24	0100CST 0105CST			0	0	100K		Thunderstorm Wind (G85)
One trailer was destroyed. Two homes and 28 other structures were damaged. Numerous trees and power lines were knocked down.									

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, East</u>									
Randolph County									
2 SW Biggers	30	1500CST 2100CST			0	0	80K		Flash Flood
One bridge was washed out.									
ARZ026									
Craighead									
	31	0330CST 0335CST			0	0	20K		High Wind
Two businesses were damaged. A few homes had some of their shingles blown off. Most of the damage occurred near the town of Brookland.									
Crittenden County									
Horseshoe Lake	31	1713CST 1720CST			0	0	5K		Thunderstorm Wind
Some trees were knocked down.									
<u>ARKANSAS, Northwest</u>									
Madison County									
Witter	23	1741CST			0	0			Hail (0.88)
<u>ARKANSAS, Southeast</u>									
Chicot County									
Countywide	24	0815CST 1200CST			0	0	1K		Flash Flood
Several roads were impassable due to very heavy rainfall in excess of 4 inches. Schools had to be closed in Dermott due to flooded roadways.									
Ashley County									
Countywide	24	1130CST 1213CST			0	0	1K		Flash Flood
Many roads were impassable. A large portion CR12 between Crossett and Hamburg was under water.									
<u>ARKANSAS, Southwest</u>									
NONE REPORTED.									
<u>ATLANTIC OCEAN</u>									
Chesapeake Bay Drum									
Pt To Smith Pt Va									
6 NE Smith Island to 6 N Smith Island	06	1600EST			0	0			Waterspout
A waterspout moved ashore at Deal Island where it damaged a trailer and produced a wind gust of 69 knots.									
<u>CALIFORNIA, Extreme Southeast</u>									
NONE REPORTED.									
<u>CALIFORNIA, North Central</u>									
NONE REPORTED.									
<u>CALIFORNIA, Northeast</u>									
CAZ072									
Greater Lake Tahoe Area									
	02	0530PST			0	0	0		Heavy Snow
	03	0530PST							
Kirkwood Ski Area reported 10-18 inches of snow in 24 hours at 7600 feet.									
CAZ073									
Mono									
	02	2330PST			0	0	0		Heavy Snow
	03	1130PST							
Mammoth Lakes Ranger Station reported 12 inches of snow in less than 12 hours.									
CAZ071-071									
Lassen/Eastern Plumas/Eastern Sierra									
	21	0942PST 1100PST			0	0	150K		High Wind (G61)

Storm Data and Unusual Weather Phenomena

January 2002

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

A RAWs automated sensor in Doyle recorded a wind gust of 59 mph. The Susanville Sheriff's office reported high winds on US Highway 395 that blew over 3 semi trailers, damage estimated at \$150,000.

CAZ073

Mono

21 1247PST

0 0 0

High Wind (G53) ^M

The RAWs automated sensor in Walker recorded a wind gust of 61 mph.

CAZ071

Lassen/Eastern Plumas/Eastern Sierra

21 1645PST
2045PST

0 0 0

Heavy Snow

Spotter report of 3 inches of snow in 4 hours in Portola, CA, elevation 4800 feet.

CAZ072-072-072-072

Greater Lake Tahoe Area

25 0510PST
26 0800PST

0 0 0

Heavy Snow

Several ski resorts in Alpine and Placer Counties reported heavy snow in a 24 hour period. Kirkwood had 12-18 inches of snow at 7800 feet, Alpine Meadows had 16 inches at 7000 feet, Squaw Valley reported 12 inches at 6200 feet and 17 inches at 8200 feet, and Homewood had 12 inches at 6200 feet and 18 inches at 7900 feet.

CAZ071

Lassen/Eastern Plumas/Eastern Sierra

25 2045PST
26 0845PST

0 0 0

Heavy Snow

Spotter report of 4 inches of snow in 12 hours in Big Valley near extreme NW Lassen.

CAZ072-072-072

Greater Lake Tahoe Area

25 2200PST
26 1225PST

0 0 0

Heavy Snow

California Department of Transportation reported 12.5 inches of snow in 8 hours at Kingvale, elevation 6500 feet. A spotter near Tahoe-Donner reported 10-12 inches of snow in 12 hours at 6500 feet and another spotter in the same area reported 9 inches in 4 hours at 6300 feet.

CAZ071

Lassen/Eastern Plumas/Eastern Sierra

26 0040PST
0940PST

0 0 0

Heavy Snow

Spotter in Susanville reported 4-5 inches of snow in 9 hours at 5000 feet.

CAZ071-071-071-071-071-071-071-071

Lassen/Eastern Plumas/Eastern Sierra

26 0200PST
1900PST

0 0 0

Heavy Snow

Many reports of heavy snow. A spotter in Westwood reported 8-10 inches of snow in 9 hours elevation 5100 feet and a spotter in Eagle Lake had 8 inches in 9 hours at an elevation of 5200 feet. In Loyalton a spotter received 4 inches of snow in 3 hours and a storm total of over 5 inches in 14 hours at 4900 feet. One spotter in Portola received 6 inches of snow in 12 hours at 5000+ feet and another had 10-12 inches in 8 hours at 4500 feet. A spotter in Graeagle reported 10-12 inches in 8 hours at 4300 feet and in Sattley they had 8 inches in 12 hours at 4900 feet.

CAZ072-072-072-072

Greater Lake Tahoe Area

26 0508PST
27 0800PST

0 0 0

Heavy Snow

Several ski resorts reported heavy snow in a 24 hour period. Kirkwood had 12-18 inches at 8000 feet, Alpine Meadows 16 inches at 7000 feet, Homewood 12 inches at 6200 feet and 18 inches at 7900 feet, and Sugar Bowl had a total of 26 inches at 7300 feet.

CAZ073-073-073-073-073-073

Mono

26 0620PST
0947PST

0 0 5K

High Wind (G63) ^M

Spotter in Coleville reported winds gusting to over 60 mph until 9 am and over 50 mph all day. Several trees were blown down, there was new construction damage and shingles were blown off several roofs. Total estimated damage is at \$5,000. An automated RAWs sensor in Walker recorded winds sustained in the mid 30's and gusting to 66, 62, 63, 72, and 66 mph.

CAZ072-072

Greater Lake Tahoe Area

26 1306PST
1706PST

0 0 0

Heavy Snow

Spotters in Meyers and Tahoe-Donner reported heavy snow. Meyers received 4 inches of snow in 2 hours at 6500 feet and Tahoe-Donner (elevation 7000) had 4 inches in four hours for a total of 13 inches since 0800.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>CALIFORNIA, Northeast</u>									
CAZ073		Mono							
	26	1610PST			0	0	0.50K		High Wind (G61) ^M
	Spotter in Coleville reported a wind gust of 70 mph with some minor property damage estimated at \$500.								
<u>CALIFORNIA, Northwest</u>									
CAZ002-076			Mendocino Coast - Mendocino Interior						
	02	0700PST			0	0			Flood
		2345PST							
	Flooding on the Garcia River closed sections of State Highway 1 and flooding on the Navarro River closed a portion of State Route 175.								
CAZ003>004			North Coast Interior - Upper Trinity River						
	21	1600PST			0	0			Heavy Snow
	22	1600PST							
	Two to six inches of snow fell above 1000 feet elevation.								
CAZ001			Redwood Coast						
	26	1415PST			1	1			High Surf
	A man, a woman, and a teenage girl were sightseeing on the North Jetty to Humboldt Bay when a large wave washed the man and woman into the water. The US Coast Guard rescued the 43 year old woman suffering head and back injuries. The man was not found during the search and presumed lost. M63OU								
CAZ001>002-076			Redwood Coast - Mendocino Coast - Mendocino Interior						
	26	2100PST			0	0			Heavy Snow
	27	0815PST							
	Four to seven inches of snow fell above 500 feet elevation with lesser accumulations down to sea level.								
<u>CALIFORNIA, South Central</u>									
CAZ089>092			W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley						
	01	0250PST			0	0			Fog
		1000PST							
	Widespread fog in the San Joaquin Valley dropped driving visibilities to 300-500 feet with many airport sites less than 1/4SM visibility.								
CAZ096			S Sierra Mtns						
	01	0400PST			0	0			Winter Storm
	03	0400PST							
	At elevations greater than 7000 Feet M.S.L. up to 15" of snow fell in the Southern Sierra Nevada.								
CAZ095-095			Kern Cty Mtns						
	03	0913PST			1	15	830K		Fog
		1400PST							
	Dense fog conditions east through south of Bakersfield and on the northern slopes of the Tehachapi Mountains led to instances of multi-vehicle accidents. At 15 miles east-southeast of Bakersfield on Highway 58 two event centers involved a total of 78 cars and trucks with one fatality and 15 injuries. Another case on Interstate-5 near Lebec involved 9 vehicles with unconfirmed reports of injuries but no fatalities. Visibility was reported less than 100 feet in the dense fog. M53VE								
CAZ092			Se S.J. Valley						
	04	0015PST			0	0			Fog
		0800PST							
	Visibilities lowered to 200-500 feet along Highway 99 through most of the southeast San Joaquin Valley during the hours just before and around dawn.								
CAZ089>092			W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley						
	06	2044PST			0	0			Fog
	12	0600PST							
	A typical weather event of an extended period of late night and early morning fog established itself in the Central and Southern San Joaquin Valley from late evening on the 6th through early in the morning of the 12th. On the evening of the 10th dense fog formed before 8 PM PST with visibilities ultimately lowering to 100 feet as reported by California Highway Patrol.								
CAZ089>092			W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley						
	15	2100PST			0	0			Extreme Cold
	20	0900PST							
	Another typical weather event of an extended period of a freeze threat and temperatures low enough to concern local agricultural								

Storm Data and Unusual Weather Phenomena

January 2002

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

interests occurred on the mornings of the 16th through the 20th. Overnight low temperatures did indeed confirm the freeze threat as readings dropped to the 26-30 degree F. range for the period. Agricultural interests were generally able to mitigate the cold with protection measures so no major crop damage was reported.

CAZ089>092

W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley

18	2330PST				0	0			Fog
21	1000PST								

For the mornings of the 19th through 21st, dense fog generally returned to the Central and Southern San Joaquin Valley (ending on the morning of the 20th as southeast wind dried the zone for the morning of the 21st). Combined with the dense fog on the morning of the 21st, overnight low temperatures dropped below the freezing mark as well making for treacherous road conditions with ice formation.

CAZ089>092

W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley

21	0130PST				0	0			Cold
	0900PST								

Although some isolated readings less than 28 degrees F. occurred in the Central and South San Joaquin Valley on the morning of the 21st, overnight low temperatures were in the 28-32 degree F. range. As mentioned, in combination with dense fog, roadways were made slick with the combination of moisture and freezing temperatures in CA Zones 89-91.

CAZ095-098>099

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

22	0600PST				0	0			Wind
	1800PST								

Numerous meso-net weather reporting sites indicated gusty wind early on the 22nd. In the Kern Mountains sensors routinely reported 30-40 MPH sustained wind with gusts to 42 knots at Sandberg. In the Kern County Deserts Mojave had wind sustained at 40 knots with gusts to 50 knots while Government Peak had gusts to 55 MPH.

CAZ089>092

W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley

22	2300PST				0	0			Extreme Cold
25	0900PST								

Overnight low temperatures in the Central and Southern San Joaquin Valley citrus locations plunged to the 25-29 degree F. range causing widespread agricultural protective measures on the mornings of the 23rd and 24th. Some West Valley field crop locations had minimums in the mid 20s. It is likely some unreported damage occurred in the colder locations with such low temperatures but growers were generally successful in mitigating the effects of the sub-freezing temperatures. Although still sub-freezing, overnight low temperatures moderated upward 1-2 degrees F. on the morning of the 25th.

CAZ096

S Sierra Mtns

26	1100PST				0	0			Winter Storm
27	1600PST								

CAZ097

Tulare Cty Mtns

26	2300PST				0	0			Snow
27	0400PST								

A winter storm brought significant snow amounts to the Southern Sierra Nevada with lesser amounts in the Tulare County Mountains of Interior Central California: Bishop Pass at 11K Feet M.S.L. received 20" of snow, Agnew Pass at 9.5K Feet got 13" in 12 hours, and Big Meadows in the Tulare County Mountains received 10" of new snow.

CAZ093>095

S Sierra Foothills - Tulare Cty Foothills - Kern Cty Mtns

28	0300PST				0	0			Snow
29	1000PST								

CAZ096>097

S Sierra Mtns - Tulare Cty Mtns

28	0300PST				0	0			Winter Storm
29	1000PST								

Another in a series of storms swept through the high country of Central California. At the higher elevations of the Southern Sierra Nevada and Tulare County Mountains close to 20" of new snow fell in a little over a day. Poison Ridge in the S.Sierra Nevada and Big Meadows in the Tulare County Mountains reported 19" of new snow with several other high elevation locations at or above 15". At lower elevations 4-6" of new snow occurred, including the Tehachapi Mountains, which hindered travel on Highway 58 through Tehachapi Pass.

CAZ099

Se Kern Cty Desert

28	1400PST				0	0			Snow
	2300PST								

The relative infrequent occurrence of light snow fell in the Mojave Desert on the 28th as an unseasonably cold air mass moved through the area. Trace amounts of snow were reported near Edwards AFB and in the higher terrain around California City.

Storm Data and Unusual Weather Phenomena

January 2002

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

Orange County

7 NE Trabuco	23	1728PST			0	1			Wild/Forest Fire
	24	1000PST							

San Bernardino County

San Bernardino	24	0915PST 1100PST			0	0	45K		Wild/Forest Fire
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Santa Ana winds gusted between 60 to 70 mph for several days across Southwest California. A semi-tractor trailer rig was blown over in Fontana. Blowing dust was reported in Temecula. A power pole was blown down at Pedley. A manufactured home being towed along Interstate 8 was blown over. The strong winds also fanned several small fires into 100 acre wildfires. Nearby homes were evacuated. In San Bernardino, one house was damaged and a few outlying structures were destroyed by the flames.

CAZ042>043-048>050-055>056-058 - Orange County Coastal Plain - San Diego County Coasts - San Bernardino County Valley/The Inland Empire - Riverside County Valley/The Inland Empire - San Diego County Valleys - San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains

27	1643PST				0	0			Winter Weather Mix
29	2359PST								

A cold Pacific Storm brought 4 to 6 inches of snow to the mountains. Traces of snow fell at elevations below 1000 feet. Hail accumulated to several inches deep along the San Diego County coastal mesas. Several semi-tractor trailers jack-knifed or overturned in the snow and rain during the morning and afternoon commute hours, causing major highways to be closed.

CAZ043-048>050-055>056-058-060>061 - San Diego County Coasts - San Bernardino County Valley/The Inland Empire - Riverside County Valley/The Inland Empire - San Diego County Valleys - San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains - Apple And Yucca Valleys - Coachella Valley

28	0700PST				1	0	230K	1.8M	Extreme Cold
31	2359PST								

Record cold temperatures following the cold Pacific Storm lingered over Southwest California for several days. Water pipes froze and burst, vegetable and ornamental crops were badly damaged, and homeless shelters filled to capacity. F89OU

CALIFORNIA, Upper

CAZ081

Central Siskiyou County

01	1444PST				0	0			High Wind (G40) ^M
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The Weed RAWS reported a sustained wind of 40 mph.

A High Wind Warning was issued for California zone CAZ081 at 0510 PST on 01/01 and expired at 0510 PST on 01/02. The report above was the only one that verified the warning.

CAZ082

South Central Siskiyou County

21	0853PST				0	0			Heavy Snow
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Mt. Shasta Ski Park reported 6 inches of snow 0400-0850 PST.

A Winter Storm Warning was issued for CAZ080/081/082/083 at 2100 PST on 01/19. The warning for CAZ081/082/083 was cancelled at 0400 PST on 01/21, and the warning for CAZ080 was cancelled at 1450 PST on 01/21. The observation above was the only one that verified the warning, although several other reports would have verified a Snow Advisory.

CAZ082

South Central Siskiyou County

26	0820PST				0	0			Heavy Snow
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Mt. Shasta Ski Park at 5500 feet reported 6+ inches of snow overnight.

A Winter Storm Warning was issued for CAZ080/081/082 at 0530 PST on 01/24 and downgraded to a Snow Advisory at 1020 PST on 01/25 (CAZ081) and at 1500 PST on 01/25 (CAZ080/082). The above report is the only one that verified a Heavy Snow Warning, and it came in well after the warnings were downgraded. Overall, this event was overforecast and timed too early.

CALIFORNIA, West South Central

NONE REPORTED.

CALIFORNIA, Western

Marin County

Carte Madera	01	0300PST 2300PST			0	0	200K		Heavy Rain
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Napa County

Central Portion	01	0300PST 2300PST			0	0	100K		Heavy Rain
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Storm Data and Unusual Weather Phenomena

January 2002

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

CALIFORNIA, Western

Sonoma County

Guerneville	01	0300PST			0	0	200K		Heavy Rain
	03	2300PST							

The storms of the first through the third of January brought 3 to 5 inches of rain to the forecast area.

While no river flooding or flash flooding occurred there was widespread urban and small stream flooding particularly in the Northern part of the area. The Russian river at Healdsburg in Sonoma county went to monitor stage and the Napa river in Napa County rose to just below monitor stage at St Helena. A number of large older trees were felled due to the saturated ground.

One to two inches of snow fell in vicinity of Petuluma in the Sonoma Valley in Sonoma County. This is quite a rare event on 01/28/02

COLORADO, Central and Northeast

COZ034>035-039-041-043			S & Se Grand / W Central & Sw Boulder / Gilpin / Clear Creek / Summit / N & W Park Counties Above 9000 Feet - Larimer & Boulder Counties Between 6000 & 9000 Feet - Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County - Elbert / C & E Douglas Counties Above 6000 Feet - C & S Weld County						
	09	2200MST			0	0	0	0	Heavy Snow
	10	0600MST							

An upper level jet stream over Colorado produced localized bands of heavy snow across portions of north-central and northeast Colorado. Snowfall totals included: 10 inches at Berthoud Pass, 9 inches, 4 miles southwest of Jamestown, 8.5 inches near Estes Park, 8 inches at Winter Park, 6.5 inches, 9 miles south of Simla with 6 inches at Greeley.

COZ035			Larimer & Boulder Counties Between 6000 & 9000 Feet						
	12	1820MST			0	0	0	0	High Wind (G71) ^M
		2155MST							

High winds developed in the foothills of Larimer and Boulder Counties. Peak wind reports included: 82 mph 2.5 miles north of Estes Park and at the National Center of Atmospheric Research Mesa Lab (NCAR), 76 mph (66 kts) at Red Feather Lakes and 74 mph (64 kts) at Carter Lake.

COZ035-048>049-051			Larimer & Boulder Counties Between 6000 & 9000 Feet - Logan County - Washington County - Phillips County						
	13	0000MST			0	0	0	0	High Wind (G66) ^M
		0230MST							

High winds developed over portions of the Front Range Foothills and northeast plains. Peak wind gusts included: 76 mph (66 kts), 4 miles south of Livermore, 68 mph (59 kts) at Merino, 65 mph (56 kts) at Haxtun, 61 mph (53 kts) at Padroni, 60 mph (52 kts) at Crook with 58 mph (50 kts) at Otis.

COZ033-035			S & E Jackson / Larimer / N & Ne Grand / Nw Boulder Counties Above 9000 Feet - Larimer & Boulder Counties Between 6000 & 9000 Feet						
	19	0100MST			0	0	0	0	High Wind (G75) ^M
		0455MST							

High winds occurred over portions of the northern mountains and eastern foothills. Peak wind reports included: 85 mph (75 kts) atop Niwot Ridge, 74 mph (64 kts) at NCAR Mesa Lab and 71 mph (62 kts) at Eldora Ski Resort.

COZ033>036			S & E Jackson / Larimer / N & Ne Grand / Nw Boulder Counties Above 9000 Feet - S & Se Grand / W Central & Sw Boulder / Gilpin / Clear Creek / Summit / N & W Park Counties Above 9000 Feet - Larimer & Boulder Counties Between 6000 & 9000 Feet - Jefferson & W Douglas Counties Above 6000 Feet / Gilpin / Clear Creek / Ne Park Counties Below 9000 Feet						
	20	1735MST			0	0	0	0	High Wind (G90) ^M
	21	0426MST							

High winds developed over portions of the northern mountains and Front Range Foothills. Several trees were blown down in Gilpin County, along State Highways 119 and 46. In Estes Park, a shed was destroyed. Debris from the shed also damaged a nearby vehicle. Peak wind reports included: 104 mph (90 kts) at Carter Lake, 99 mph (86 kts), 2.5 miles north of Estes Park, 90 mph (78 kts), 11 miles north of Central City, 83 mph (72 kts), 1 mile north of Fritz Peak, 81 mph (70 kts) atop Niwot Ridge, 80 mph (70 kts) at Nederland, 76 mph (66 kts) at Aspen Springs, 72 mph (63 kts), 10 miles northeast of Kremmling and 71 mph (62 kts) at Breckenridge Ski Area.

COZ035>036-039>041			Larimer & Boulder Counties Between 6000 & 9000 Feet - Jefferson & W Douglas Counties Above 6000 Feet / Gilpin / Clear Creek / Ne Park Counties Below 9000 Feet - Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County - N Douglas County Below 6000 Feet / Denver / W Adams & Arapahoe Counties / E Broomfield County - Elbert / C & E Douglas Counties Above 6000 Feet						
	23	0200MST			0	0	0	0	Heavy Snow
		1400MST							

Low level upslope combined with an upper level jet stream allowed for bands of heavy snow to develop over portions of the Front

Storm Data and Unusual Weather Phenomena

January 2002

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

COLORADO, Central and Northeast

Range Foothills and Urban Corridor. The areas hit hardest included the foothills of Jefferson, Douglas and Park Counties, and the Interstate 25 corridor, from the southern suburbs of Denver to around Castle Rock. Elsewhere the heavy snowfall was more localized.

In the Front Range Foothills, snowstorm totals included: 10 inches, 1 mile east of Buckhorn Mountain, 9 inches at Intercanyon, 11 miles southwest of Morrison, Roxborough State Park and 5 miles southwest of Sedalia, 8.5 inches at Crow Hill and 7 miles south of Tiny Town. Along the Urban Corridor, snowfall totals included: 8 inches at Ken Caryl and 5 miles northwest of Castle Rock, 7 inches at Lakewood, 6.5 inches at Littleton, with 6 inches reported at Castle Rock and 2 miles west of Larkspur.

COZ035-038

Larimer & Boulder Counties Between 6000 & 9000 Feet - Larimer County Below 6000 Feet / Nw Weld County

29	1800MST				0	0	0	0	Heavy Snow
30	0000MST								

A localized band of heavy snow, associated with an upper level jet stream overhead, caused heavy snow to occur across portions of Larimer County. Snowfall totals included: 12 inches at Horsetooth Inlet Bay, 8.5 inches, 7 miles east northeast of Virginia Dale, 8 inches, 1 mile east of Buckhorn Mountain, Flat Iron Reservoir and Pinewood Lake, 7 inches, 6 miles northwest of Loveland and 6 inches at Loveland.

COLORADO, East Central

COZ091>092

Kit Carson County - Cheyenne County

30	1700MST				0	0			Winter Storm
31	1100MST								

A strong area of low pressure brought a widespread 4 to 6 inches of snow across parts of eastern Colorado. The storm began the evening of January 30th and continued into January 31st. The storm impacted travel and many area schools were closed. Also, northwest winds of 15 to 25 mph with higher gusts created areas of blowing and drifting snow.

COLORADO, South Central and Southeast

COZ065>066-068-070-074>075

Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Western Fremont And Northern Custer Counties - Wet Mountains - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity

04	1500MST				0	0			Heavy Snow
05	0100MST								

A fast moving upper level disturbance brought heavy snow to the Sangre de Cristo and Wet mountains and the adjacent high valleys and plains. Snow amounts were as follows: 7 inches at Rye in Pueblo county, 6 inches around Coaldale in Fremont county and Beulah in Pueblo county, and 5 inches 7 miles west-northwest of Westcliffe in Custer county, at La Veta in Huerfano county, and 5 miles northwest of Aguilar in Huerfano county.

COZ069-072

Upper Arkansas River Valley/Salida And Vicinity - Northern El Paso County/Monument Ridge

10	0100MST				0	0			Heavy Snow
	0800MST								

An upper level disturbance brought a quick shot of snow to much of southern Colorado. Generally, amounts ranged from 2 to 4 inches, but higher amounts were seen in northern El Paso county, where up to 6 inches fell around Calhan, and in Chaffee county, where up to 6 inches fell around Buena Vista.

COZ065

Northern Sangre De Cristo Mountains

20	2000MST				0	0			High Wind (G74) ^M
	2100MST								

Wind gusts up to 85 mph were recorded 8 miles west of Westcliffe in Custer county.

COZ072

Northern El Paso County/Monument Ridge

23	0100MST				0	0			Heavy Snow
	1200MST								

An upper disturbance produced an area of 6 to 8 inches of snow in northern El Paso county. Lesser amounts of 2 to 4 inches occurred in central El Paso county, and from the Canon City area south through the Wet mountains.

COZ070-070-070-074

Wet Mountains - Upper Huerfano River Basin/Walsenburg And Vicinity

28	1140MST				0	0			High Wind (G80) ^M
	1440MST								

Vigorous southwest upper level wind flow contributed to some strong surface winds across southeast Colorado. Some of the higher reported wind gusts included 70 mph at both Rye and 6 miles to the east of Wetmore in Pueblo county...86 mph at La Veta in Huerfano county and a 92 mph wind gust 2 miles to the west of Colorado City in Pueblo county.

Storm Data and Unusual Weather Phenomena

January 2002

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

COZ061-065-068-070-074-076-078-080>081 Eastern San Juan Mountains - Northern Sangre De Cristo Mountains - Western Fremont And Northern Custer Counties - Wet Mountains - Upper Huerfano River Basin/Walsenburg And Vicinity - Crowley And Otero Counties/La Junta And Vicinity - Kiowa County - Prowers County/Lamar And Vicinity - Baca County/Springfield And Vicinity

29	1700MST				0	0			Heavy Snow
31	1200MST								

An upper level storm system moved from the four corner region on the evening of the 30th and then across southeast Colorado during the morning of the 31st...producing the following snow totals:

In Baca county...a general 5 to 6 inch snowfall occurred. In Prowers county...6 inches of snow fell in Holly while Lamar received 8 inches. In Kiowa county...6 inches of snow was noted in Eads while 9.5 inches of snow was measured at Chivington. In Otero county... 6 inches of snow graced La Junta. In Fremont county...Howard received 6 inches of snow while Coaldale accumulated 6.5 inches of snow. In Huerfano county...6 inches of snow frosted Walsenburg with 7 inches noted in La Veta. In Pueblo county...7 inches of snow blanketed Rye. In Custer county...6 inches of snow was deposited just to the west of Gardner...while 7 inches of snow covered Rosita and 8 inches occurred just to the west of Westcliffe. Finally, in Mineral county...the Wolf Creek Pass area was buried in up to 24 inches of the white stuff.

COLORADO, West

COZ006

Grand Valley

04	2100MST				0	0			Fog
05	0700MST								

Dense fog developed in the Grand Valley during the evening and reduced visibilities to 1/4 mile or less for about 10 hours.

COZ004-010-012

Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains

09	1000MST				0	0			Heavy Snow
10	0600MST								

A weather system from the north produced 8 to 10 inches of new snow in some mountain ranges of western Colorado.

COZ004-013

Elkhead And Park Mountains - Flattop Mountains

15	1900MST				0	0			Heavy Snow
16	0600MST								

A moist westerly flow produced 6 to 12 inches of new snow in the mountains of northwest Colorado. An exception was 15 inches on Mount Werner at Steamboat Springs Ski Area.

COZ004-009>010-012>013

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

22	1000MST				0	0			Heavy Snow
23	0400MST								

A Pacific trough produced 6 to 12 inches of snow in the northern and central mountains of western Colorado. The highest reported amount was 15 inches on Schofield Pass, followed by Steamboat Springs Ski Area with 14 inches.

COZ002>004-007>013-017>020

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

28	2100MST				0	0			Winter Storm
30	1500MST								

A powerful, slow-moving Pacific trough dumped 1 to 2 feet of snow in the mountains and 4 to 10 inches of snow in many lower elevation areas of western Colorado. The highest storm total was 28 inches at Columbine Pass on the Uncompahgre Plateau. In addition, winds gusted 20 to 40 MPH in the mountains and some valley locations, producing areas of blowing and drifting snow. Snow drifts 2 to 3 feet deep were reported on some mountain roads. A peak gust of 70 MPH was clocked at Telluride Ski Area.

CONNECTICUT, Northeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2002

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

CTZ001

Litchfield

06 2300EST

0 0

Winter Storm

07 1400EST

A compact low pressure area developed across the Gulf States on Sunday, January 6. This storm loaded up with Gulf of Mexico moisture, then swiftly tracked up along the Atlantic seaboard, and was already in the Gulf of Maine by Monday morning. The upper level support to this system moved across the region during the day Monday and brought another round of lighter snow. The two systems produced a swath of 6-10 inches of snow over the northern hills of Litchfield County. Bakersville reported 6.8 inches of snowfall while Norfolk had 8.7. Aside from some school and business closures, as well as many fender bender type vehicular accidents, no serious problems from Litchfield County were reported to the National Weather Service regarding this storm.

CONNECTICUT, Southern

NONE REPORTED.

DELAWARE

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

01 0000EST

0 0

0

0

Unseasonably Dry

31 2359EST

January 2002 marked the seventh consecutive month of below normal precipitation for most of Delaware. While more precipitation fell in January than in any month since September, it was still drier than normal. On a county weighted average, monthly precipitation totals ranged from 2.4 inches in Kent County to 2.7 inches in New Castle County. Normal is around 3.4 inches. The lack of precipitation in the Delaware River Basin prompted the Delaware River Basin Commission to declare a "drought" on December 3rd and a drought emergency on the 18th. Streams in New Castle County that provide drinking water to communities within the county were near record low flow levels. Groundwater levels were also below normal.

DEZ003>004

Inland Sussex - Delaware Beaches

03 0400EST

0 0

0

Snow

1400EST

Sussex County was on the northern edge of the precipitation shield of a snowstorm that affected most of the southern Middle Atlantic States. Snow began falling before dawn on the 3rd and continued into the early afternoon. Accumulations ranged from just a trace in the northern parts to around 4 inches in the southern parts of the county. Specific accumulations included 4 inches in Gumboro and Selbyville, 3.5 inches in Harbeson, 1.5 inches in Georgetown, 1.0 inch in Lewes and a trace in Ellendale. The low pressure system responsible for the snow developed in the Gulf of Mexico the night of the 1st. It moved across central Florida during the daylight hours on the 2nd and passed well east of Cape Hatteras on the 3rd. The system's storm track was too far to the southeast to bring heavy snow into the middle and upper Delmarva Peninsula.

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

13 0700EST

0 0

Wind

1700EST

A strong cold front moved through the state around daybreak on the 13th. As its associated low pressure system intensified quickly as it moved into the Canadian Maritimes, northwest winds increased and peak wind gusts reached between 40 and 50 mph in most places. Peak wind gusts included 48 mph at Dover, 47 mph at the New Castle County Airport and 39 mph in Georgetown.

DEZ001

New Castle

19 0930EST

0 0

Winter Storm

20 0030EST

DEZ002>004

Kent - Inland Sussex - Delaware Beaches

19 0930EST

0 0

Wintry Mix

20 0330EST

A weak low pressure system that moved through the Gulf Coast States and exited quickly off the North Carolina coast had sufficient moisture and came close enough to the peninsula to give the region a wintry mix of snow, sleet and rain for most of the 19th. Snow began falling during the morning of the 19th. As the low pressure system came closer and warmer air moved in, precipitation mixed with and then changed to rain across Kent and Sussex Counties. In New Castle County, the changeover took longer and in many locations, temperatures were cold enough for freezing rain to occur. As the low pulled offshore, precipitation changed back to snow in New Castle and Kent Counties during the evening and over to freezing rain after midnight in Sussex County. Accumulations ranged from 1 to 5 inches with the heaviest amounts in New Castle County. Bridges, overpasses, untreated roadways and shady areas became very treacherous, especially in the upper part of the state.

Specific accumulations included 4.5 inches in New Castle (New Castle County), 4.3 inches in Newark (New Castle County), 4.0 inches in Wilmington (New Castle County), 2.5 inches in Smyrna (Kent County), 2.3 inches in Dover (Kent County), 2.2 inches in Greenwood (Sussex County) and 1.5 inches in Georgetown (Sussex County).

The low pressure system responsible for the wintry mix developed in the Gulf Coast States during the evening of the 18th. By the

Storm Data and Unusual Weather Phenomena

January 2002

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

Wind chills from the upper 20s to the mid 30s were observed in southeast Florida between 5 am and 8 am.

A mostly light frost occurred in wind-protected areas of interior south Florida, but no significant crop damage was reported.

FLZ063-066>067-070	Glades - Hendry - Inland Palm Beach - Inland Collier								
	09	0000EST			0	0			Extreme Cold
		1000EST							

A light to moderate frost occurred over interior sections of south Florida. Some very minor damage was reported to vegetable and other tender crops.

FLZ070	Inland Collier								
	25	0500EST			0	0			Fog
		0800EST							

Patchy dense fog and locally heavy smoke from a brush fire likely contributed to several multi-vehicle accidents on Interstate 75 (Alligator Alley) east of Naples. The worst accident occurred about 6 miles east of the Naples toll plaza where three people were killed. Interstate 75 was closed due to the accident for about 12 hours.

FLORIDA, West Central

FLZ039	Levy								
	04	0100EST			0	0			Hard Freeze
		1000EST							

FLZ042>043-048>049-051>052-055>057-061	Citrus - Sumter - Hernando - Pasco - Hillsborough - Polk - Manatee - Hardee - Highlands - De Soto								
	04	0300EST			0	0			Freeze
		0900EST							

Northerly flow, ahead of arctic high pressure moving into the lower Great Plains, ushered in freezing temperatures across the central Florida peninsula. Minimum temperatures ranged from the mid and upper 20s across Florida's nature coast (Hernando to Levy County), and around 30 over interior West Central Florida.

FLZ039-042>043-048	Levy - Citrus - Sumter - Hernando								
	04	2200EST			0	0			Hard Freeze
	05	1000EST							

FLZ049-051>052-055>056-061	Pasco - Hillsborough - Polk - Manatee - Hardee - De Soto								
	04	2300EST			0	0			Freeze
	05	0900EST							

Cold high pressure settled over the southeast United States, allowing for ideal radiation conditions across the west half of the Florida peninsula late on the 4th through the morning of the 5th. Temperatures fell into the low and mid 20s across Florida's nature coast, and the upper 20s to lower 30s elsewhere across interior West Central Florida. Damage to crops and residential flora was limited to the annual "thinning" that occurs during winter cold snaps.

FLZ039	Levy								
	08	0100EST			0	0			Hard Freeze
		1000EST							

FLZ042>043-048>049	Citrus - Sumter - Hernando - Pasco								
	08	0400EST			0	0			Freeze
		0900EST							

Northerly flow ahead of a polar high pressure diving into the lower Great Plains produced freezing temperatures over West Central Florida north of the Tampa Bay area early on the 8th. Minimum temperatures ranged from 25 to 30 across this region.

FLZ039-042>043-048>049	Levy - Citrus - Sumter - Hernando - Pasco								
	08	2200EST			0	0			Hard Freeze
	09	0900EST							

FLZ051>052-055>057-060>062	Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte								
	09	0300EST			0	0			Freeze
		0800EST							

Polar high pressure settled over the Florida peninsula early on the 9th, allowing for the most widespread freeze event of the winter. Temperatures fell into the low and mid 20s north of Tampa Bay, and in the upper 20s to lower 30s elsewhere away from large bodies of water, extending south to Charlotte County. Overload of the power grid in Hernando County caused outages to 10,000 residents in Spring Hill during the early morning hours. This freeze featured a heavy frost. The frost caused additional thinning of excess foliage, but was also a good thing for local crop farmers, who were able to use insulating methods to minimize damage.

Storm Data and Unusual Weather Phenomena

January 2002

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

FLORIDA, West Central

No significant damage was reported to agriculture; in fact, the cold snaps were welcome to citrus farmers. Cold snaps in early to mid January often ensure at least a normal onset of spring blooms, usually in February.

A light frost occurred across portions of Hernando, Citrus, and Sumter County on the 10th, but duration of subfreezing temperatures was generally less than 2 hours and affects were minimal.

FLZ039-042>043-048>052-055>057-060>062-065

Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee

20	0200EST 0900EST				0	0			Fog
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Light southwest flow embedded underneath an unseasonably warm and humid air mass, combined with cooled near shore water temperatures from a below normal prior two week period, resulted in widespread sea fog development over the extreme eastern Gulf of Mexico. This fog rolled onshore early on the 20th, reducing visibility to or below 1/4 mile in many areas. The fog burned off in most areas by mid morning, but remained along the immediate coast through most of the day.

FLZ039-042>043-048>052-055>057-060>062-065

Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee

21	0000EST 0900EST				0	0			Fog
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Light southwest flow ahead of a decelerating cold front caused a resurgence of sea fog on successive nights. This time, the fog rolled in a bit sooner, but the effects were the same: widespread visibility near 1/4 mile, locally near zero in low lying areas as well as along the immediate shoreline.

FLZ039-042>043-048>052-055>057-060>062-065

Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee

22	0000EST 0900EST				0	0			Fog
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A stationary front provided light winds, allowing a combination of dense sea and radiation fog to develop for a third consecutive night across most of West Central and Southwest Florida. Visibilities were once again reduced to 1/4 mile or less in many areas. After this event, conditions improved through the end of the month. Southeast flow allowed tropical air to overspread the region, limiting the fog to the more patchy variety.

FLORIDA, West Panhandle

Santa Rosa County
Navarre

05	2355CST 2357CST				0	0	720K		Thunderstorm Wind (G70)
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A thunderstorm moved in from the Gulf of Mexico just before midnight. The storm moved from the Gulf of Mexico across Jessica Way then across U. S. Highway 98, where a strip mall was damaged, then down Whispering Pines Blvd. The winds from the storm damaged 29 homes on Jessica Way and Whispering Pines Blvd. as it moved to the northeast. Most of the damage to the homes were shingles blown from roofs and fences blown down. Several trees were also blown onto vehicles and flying debris broke several windshields. The most significant damage occurred to the strip mall along U. S. Highway 98. The winds from the storm hit the mall broadside and shifted several columns holding the front of the mall up. This allowed part of the center of the mall to collapse. Flying debris also knocked out several windows at the mall. There were occupants in part of the mall, but no one was injured as most of the damage occurred in the unoccupied portion of the mall.

GEORGIA, East Central

GAZ040-063>065

Lincoln - McDuffie - Columbia - Richmond

02	2125EST				0	0	0		Winter Storm
03	1700EST								

Four to 6 inches of snow fell over Lincoln county taking down trees and powerlines.

GAZ077

Burke

02	2132EST				0	0	0		Ice Storm
03	1700EST								

Freezing rain and sleet fell over Burke county with ice accumulations of 1/2 to 1 inch. Trees and powerlines were dropped and the even ended with a 1 to 3 inch snowfall.

GEORGIA, Lower

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2002

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

GAZ074-076-084>086-097>098-105-109>110-112>113 Washington - Jefferson - Wilkinson - Johnson - Emanuel - Laurens - Treutlen - Dooly - Dodge - Telfair - Montgomery - Toombs

02 0500EST 2000EST 0 0 1M Winter Storm

The same storm which brought heavy snow to much of north and central Georgia from the 2nd to the 3rd first began across the southeast portion of central Georgia. From early morning through mid-evening on the 2nd about a 12 hour period of wet snow, sleet, and light freezing rain affected these areas. Ice accumulations averaged less than one-quarter inch, but were significant enough, when combined with a wet snow in some areas, to cause large tree limbs, and even some trees (especially pines), to fall on power lines, roads, and even some homes. Several power outages resulted. The hardest hit counties with glaze ice accumulations from freezing rain, freezing drizzle, and snow were Washington, Johnson, Jefferson, Emanuel, and Laurens counties. All together, several hundred trees were damaged or destroyed and thousands of people in these counties lost power during the 2-day storm. Many people did not have any power for 3 days or more. Emergency electrical crews were called out from out-of-state to assist with the cleanup and restoration of power.

GAZ007>009-013>016-019>025-027-030>039-041>062-066>076-078>086-089>098-102>107-109>110 Gilmer - Union - Towns - 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 - Dodge - Telfair

02 0600EST 03 1200EST 0 0 Heavy Snow

One of the biggest snow storms to affect north and central Georgia since March 1993 began early on the 2nd and continued through mid-day on the 3rd. Over a half a foot of snow fell in some areas just south and southwest of Atlanta, with large areas of north and central Georgia receiving three to four inches of snow during the two-day event. Modified Arctic air invaded the southeast on December 30, 2001. Then, on Near Year's day a surface low quickly moved east toward Florida. Weak to moderate upper-level support and overrunning of the warm Gulf air over the colder surface air provided for an extended period of light to moderate frozen precipitation across all of central Georgia and the southern sections of north Georgia throughout the day on the 2nd. Most of the precipitation fell as snow, except for the far southeastern counties of central Georgia, where a mixture of sleet, snow, and freezing rain occurred. During the day on the 2nd, the heaviest snow, from one to three inches occurred within a narrow band that extended from La Grange, to Thomaston, to Jackson. Snowfall amounts in the Atlanta and Athens area were generally around one inch on the 2nd, with only trace amounts reported further north toward Tennessee. However, a strong upper-level system rotated through the southeastern United States early on the 3rd bringing a burst of heavy snow to north and central Georgia. Snowfall amounts of three to five inches occurred in a period of approximately six to eight hours. Total snowfall amounts for the two-day storm ranged from four to six inches in a large approximately 100 mile wide area centered along a line from La Grange, to Atlanta, to Athens, to Homer. Some areas between Carrollton and Newnan and between Luthersville and Thomaston received from six to eight inches of snow as well as did a few spots in the northeast between Gainesville and Homer. For the southern portions of central Georgia, snowfall amounts were generally two inches or less, while the northwest and far north central portions of the state received only trace amounts of snow during the entire storm. Automobile and airplane travel was severely disrupted during the event. Numerous automobile accidents were reported in the winter storm area as roads became slick and hazardous. At least two fatalities were reported in the Atlanta area because of traffic accidents on ice covered roadways.. However, because temperatures hovered near the freezing mark during the entire event and unseasonably warm weather had prevailed during much of the preceding month, snow accumulations on road surfaces were less than would have otherwise been expected with this intensity of storm. Hundreds of flights were cancelled at Atlanta's Hartsfield International Airport (one of the busiest airports in the world) on the 2nd and 3rd, and nearly all of those flights which operated were severely delayed because of the inclement weather conditions and required deicing. Schools were closed in many counties for two to three days.

GAZ001-006-008>009 Dade - Fannin - Union - Towns

06 0500EST 0800EST 0 0 Heavy Snow

Mountainous areas of far north and northeast Georgia received a quick 2 to 4 inches of snow as a fast moving upper short wave crossed the region during the early morning hours. While modified polar air was in place, limited low-level moisture amounts and the quick speed of movement of the upper system limited snowfall amounts. Measurable snowfall was generally confined to areas above 2500 feet. Travel problems were minimal as surface air temperatures hovered near or just above freezing during most of the event.

Chattahoochee County

Ft Benning

19 1550EST 0 0 0.50K Thunderstorm Wind

The Chattahoochee county 911 center reported that two trees were blown down, one within a trailer park. No damage was reported to any of the trailers in the mobile home park.

Storm Data and Unusual Weather Phenomena

January 2002

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

GEORGIA, North and Central

Stewart County

Troutman	19	1552EST			0	0			Tstm Wind/Hail
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The Stewart county 911 center reported that one tree was blown down.

Stewart County

Omaha	19	1630EST			0	0	3K		Thunderstorm Wind
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The Stewart county 911 center reported that three to four trees were blown down on power lines which resulted in some power outages in the area.

Gwinnett County

Suwanee	22	1920EST			0	0	200K		Lightning
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The Gwinnett Daily Post of Lawrenceville reported that lightning struck and set on fire a two-story home in Suwanee. The fire caused extensive damage to the home. The house was vacant at the time of the incident.

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

24	0000EST				0	0			Unseasonably Warm
31	2359EST								

Unseasonably warm temperatures prevailed across all of north and central Georgia during the last week of the month. While temperatures averaged above normal in most areas all but the first week of the month, temperature departures from normal were most notable during the last week of January with departures of 15 to 25 degrees above normal each day during this period at many locations. While normal low and high temperatures for this time of year are in the 30s and 50s, respectively, most locations only had lows in the 40s, and even some 50s, with highs in the 60s and 70s. Between the 24th and the 31st, the temperature at Atlanta's Hartsfield International Airport reached 70 degrees or better on 5 days, culminating with 76 on January 30th and 78 on January 31st, both which set new record high temperatures for the date. For the last 8 days of January, the average high temperature in Atlanta was 68.6 degrees (normal is 52.3 degrees) and the average low temperature was 47.8 degrees (normal is 34.0 degrees), which are 16.3 and 13.8 degrees above normal, respectively. For the entire month, Atlanta averaged 4.2 degrees Fahrenheit above normal making it the third consecutive month of above normal temperatures for Atlanta. Temperature averages at other major locations in north and central Georgia for this period (Jan 24th - Jan 31st) included Athens with an average high of 69.8 degrees (normal is 52) and an average low of 56.8 degrees (normal is 33), Macon with an average high of 72.5 degrees (normal is 57) and an average low of 41.6 degrees (normal is 35), and Columbus with an average high of 71.8 degrees (normal is 57) and an average low of 51.6 degrees (normal is 37). High temperatures on several of these days were also well above 70 degrees at these stations as well. New daily record high temperatures of 81 degrees at Columbus and 79 degrees at Macon, respectively, were established on January 31st. Monthly departures from normal for these stations included +4.2 degrees for Athens, +3.5 degrees at Macon, and +3.6 degrees for Columbus.

GAZ011-031>032-041>044-052>058-066>073-076-078>083-085>086-089>098-102-104>107-109>110-112>113

Chattooga - Paulding - Cobb - Haralson - Carroll - Douglas - South Fulton - Heard - Coweta - Fayette - Clayton - Spalding - Henry - Butts - Troup - Meriwether - Pike - Upson - Lamar - Monroe - Jones - Baldwin - Jefferson - Harris - Talbot - Taylor - Crawford - Bibb - Twiggs - Johnson - Emanuel - Muscogee - Chattahoochee - Marion - Schley - Macon - Peach - Houston - Bleckley - Laurens - Treutlen - Stewart - Sumter - Dooly - Crisp - Pulaski - Dodge - Telfair - Montgomery - Toombs

29	0300EST 1000EST				0	0			Fog
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Widespread dense fog plagued much of central Georgia and the southern portions of north Georgia during the early morning hours. Visibilities of 1/4 to 1/2 mile were common. No major problems were reported, however.

Storm Data and Unusual Weather Phenomena

January 2002

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

GEORGIA, North and Central

GAZ001>009-011>016- Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - 019>025-027-030>039- Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - 041>062-066>076- Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Wilkes - 078>086-089>098- Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - 102>113 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

30	0000EST 1000EST		0	0		Fog
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Widespread dense fog plagued much of north and central Georgia for the second consecutive morning as unseasonably warm and humid air remained entrenched across the southeast United States. Fog was even more widespread than on the 29th. Visibilities of 1/4 to 1/2 mile were common throughout nearly all of north and central Georgia during the early and mid-morning hours of the 30th.

GEORGIA, Northeast

GAZ029

Elbert

02	1400EST 1700EST		0	0		Snow
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Light, wet snow fell in the afternoon prior to the main snow which fell later in the evening. The afternoon snow largely melted on paved surfaces as it fell, but accumulated up to 2 inches on grassy areas.

GAZ029

Elbert

02	2000EST		0	0		Heavy Snow
03	1200EST					

Heavy snow started falling early in the evening on the 2nd and reached heavy snowfall accumulation status between 8 pm and midnight. Accumulation totals reached 4 to 6 inches in the central part of the county.

GAZ010-017>018

Rabun - Habersham - Stephens

03	0000EST 1200EST		0	0		Heavy Snow
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Flurries and light snow began in the early evening on the 2nd and became moderate to heavy by late evening. Heavy snowfall accumulations were reached beginning after midnight on the 3rd along and north of Interstate 85, with 4 to 6 inches observed by noon.

GAZ010

Rabun

06	0900EST 1500EST		0	0		Heavy Snow
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Snow began in the early morning, reaching accumulations of 4 to 8 inches by 3 pm. The highest accumulations were in the high elevations. Some sleet was mixed in with the snow.

GEORGIA, Southeast

GAZ087>088-099>101-114>119-137>141 Jenkins - Screven - Candler - Bulloch - Effingham - Tattnall - Evans - Inland Bryan - Coastal Bryan - Inland Chatham - Coastal Chatham - Long - Inland Liberty - Coastal Liberty - Inland McIntosh - Coastal McIntosh

01	0000EST		0	0		Drought
31	2359EST					

Moderate drought conditions continued over southeast Georgia as rainfall continued below normal. For the month of January, most of the rain fell during the middle of the month with very small amounts otherwise.

GAZ087>088-099>100-114>115 Jenkins - Screven - Candler - Bulloch - Tattnall - Evans

02	1830EST		0	0		Ice Storm
03	0430EST					

A winter storm moved across the southeastern states on January 2 and January 3 producing light snow and sleet before changing to mostly freezing rain. Ice accumulation was generally 1/4 to 1/2 inch. There were tens of thousands of homes and businesses without power during the heart of the storm with numerous auto accidents.

GEORGIA, Southwest

Clay County

19	1700EST 1705EST		0	0	10K	Thunderstorm Wind
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Numerous downed trees and power lines. Reported by the Clay County Sheriff.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GEORGIA, Southwest</u>									
Randolph County									
Southwest Portion	19	1705EST 1710EST			0	0	2K		Thunderstorm Wind
			Some downed trees. Reported by the Randolph County Sheriff.						
Calhoun County									
Countywide	19	1710EST 1720EST			0	0	2K		Thunderstorm Wind
			Some downed trees on Highway 37. Reported by the Calhoun County Sheriff.						
Terrell County									
Countywide	19	1720EST 1730EST			0	0	15K		Thunderstorm Wind
			The EMA office in Dawson sustained roof damage. Numerous downed trees. Reported by the Terrell County EMA.						
Miller County									
Cooktown	19	1755EST			0	0	10K		Thunderstorm Wind
			A mobile home was overturned. Reported by Decatur County 911.						
Mitchell County									
Baconton	19	1820EST			0	0	15K		Thunderstorm Wind
			A house sustained roof damage. Trees and power lines down. Reported by a WALB-TV meteorologist.						
Mitchell County									
Camilla	19	1820EST			0	0	5K		Thunderstorm Wind
			Downed trees and power lines on Highway 97. Reported by a SKYWARN spotter.						
Worth County									
Countywide	19	1820EST 1835EST			0	0	10K		Thunderstorm Wind
			Numerous downed trees and power lines. Reported by a WALB-TV meteorologist.						
Grady County									
Countywide	19	1855EST 1905EST			0	0	10K		Thunderstorm Wind
			Numerous downed trees and power lines. Reported by Grady County 911.						
Thomas County									
Thomasville	19	1910EST 1915EST			0	0	35K		Thunderstorm Wind
			Numerous downed trees and power lines. A few businesses sustained minor roof damage. Some trees were set ablaze by downed live wires. Reported by the Thomas County EMA.						
Lanier County									
Stockton	19	2010EST			0	0	2K		Thunderstorm Wind
			Some trees and power lines down on Bennett Road. Reported by the Lanier County Sheriff.						
<u>GULF OF MEXICO</u>									
Key W To Dry Tortugas Waters									
Dry Tortugas	02	1226EST			0	0			Marine Tstm Wind
W End Of The 7 Mile Bridge To Key W Out 20Nm									
Big Pine Key	02	1455EST			0	0			Marine Tstm Wind
			Spotter estimated wind gust just south of Cudjoe Key.						
Ocean Reef To Craig Key Fl Out 20Nm									
Key Largo	02	1558EST			0	0			Marine Tstm Wind
			Wind gust measured at Molasses Reef C-Man station.						
Florida Bay									
Key Largo	02	1600EST			0	0			Marine Tstm Wind
Ocean Reef To Craig Key Fl Out 20Nm									
Key Largo	03	0123EST			0	0			Marine Tstm Wind
			Wind gust measured at Molasses Reef C-Man station.						

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GULF OF MEXICO</u>									
Pt Aransas To Baffin Bay Tx 20 To 60Nm									
Port Aransas	05	0243CST			0	0			Marine Tstm Wind
Pt O'Connor To Aransas Pass									
Port O'Connor	24	2100CST			0	0			Marine Tstm Wind
Matagorda Ship Chnl To Pt Aransas Out 20Nm									
Pltfm 17Se Prt Arnsas	31	1447CST			0	0			Marine Tstm Wind
<u>HAWAII</u>									
HIZ001>003-005>007 Kauai - Oahu - Maui - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona									
01		0000HST 2000HST			0	0			High Surf
A storm low far northwest of the state produced surf of 10 to 20 feet along the west- and northwest-facing shores of all the Hawaiian Islands.									
HIZ001>003-005>007 Kauai - Oahu - Maui - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona									
03		1300HST			0	0			High Surf
04		1600HST							
A storm low far north/northwest of Hawaii generated surf of 10 to 20 feet along the northwest shores of all the islands.									
HIZ001>003-005>007 Kauai - Oahu - Maui - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona									
05		1200HST			0	0			High Surf
10		1400HST							
A deep storm low far northwest of the state caused surf of 15 to 25 feet along the northwest-facing shores of all the isles.									
Honolulu County									
1.5 WNW Waikiki to 1 WNW Waikiki									
08		1115HST 1121HST			0	0			Funnel Cloud
An official in the tower at the Honolulu International Airport spotted a funnel cloud east of his location. However, there were no reports of injuries or property damage.									
Honolulu County									
1.5 E Waikiki to 2 E Waikiki									
08		1330HST 1340HST			0	0			Funnel Cloud
A funnel cloud was spotted by a member of the general public near Aina Haina. However, there were no reports of injuries or property damage.									
HIZ001									
Kauai									
15		0800HST			0	0			High Surf
16		0400HST							
A quick-moving low northwest of Hawaii generated surf of 10 to 15 feet along the west- and northwest-facing shores of Kauai.									
HIZ001>008 Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau									
17		1400HST			0	0			Strong Wind
20		0400HST							
A strong high pressure area north of the state produced east and east/northeast winds of 30 to 40 mph, with gusts to 50 mph, across the island chain. There were no reports of serious property damage or injuries, however.									
HIZ001>005-008 Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - South Hawaii Including Kau									
17		1500HST			0	0			High Surf
20		1700HST							
A strong trade wind swell produced surf of 8 to 15 feet along the east-facing shores of all the islands except Lanai.									
HIZ003>004-007>008 Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau									
18		1000HST			0	0			High Wind (G51) ^M
19		1800HST							

Storm Data and Unusual Weather Phenomena

January 2002

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

An area of strong high pressure north of Hawaii generated east and east/northeast winds of 35 to 45 mph, with gusts to 60 mph, on the island of Hawaii and Maui. However, there were no reports of serious property damage or injuries.

HIZ003>004-007>008 Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau

18	1500HST								
20	1000HST								Winter Storm

A deep upper low dumped more than six inches of snow above the 7000-foot level on Mauna Kea and Mauna Loa on the island of Hawaii, winds gusted to more than 50 mph, and wind chill temperatures were well below freezing. The same held true for Haleakala in East Maui, except snowfall was somewhat less there.

Hawaii County

**Hilo to
Volcano**

18	1550HST								
	2200HST								Heavy Rain

Heavy showers caused minor stream and drainage ditch flooding and ponding of roadways in the South Hilo and Puna districts on the island of Hawaii. No serious property damage or injuries were reported.

Maui County

**6.5 NW Keanae to
5 SE Keanae**

20	0125HST								
	0330HST								Heavy Rain

Heavy showers generated ponding of roadways and minor drainage ditch and stream flooding in Maui along the Hana Road from Huelo to Nahiku. There were no reports of serious property damage or injuries.

HIZ004-008

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

20	1700HST								
24	1300HST								High Surf

A strong trade wind swell continued to cause surf of 8 to 12 feet along the east-facing shores of the island of Hawaii.

Maui County

**8.5 NW Kahului to
5 SE Keanae**

22	0525HST								
	0825HST								Heavy Rain

Heavy rain and showers produced minor stream and drainage ditch flooding and ponding of roadways in windward West and East Maui, from Kahakuloa to Waihee and from Huelo to Nahiku, respectively. No serious property damage or injuries were reported.

Honolulu County

**Kailua to
8.5 S Kailua**

26	1705HST								
	2005HST								Heavy Rain

Heavy showers generated minor stream and drainage ditch flooding and ponding of roadways in eastern parts of Oahu, from Kailua to Waimanalo and from Palolo to Aina Haina to Kahala. There were no reports of serious injuries or property damage, however.

HIZ001-004-008

Kauai - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - South Hawaii Including Kau

27	1200HST								
31	2359HST								High Surf

A strong trade wind swell produced surf of 4 to 10 feet along the east-facing shores of Kauai and the Big Island of Hawaii.

Honolulu County

**12 NW Kaneohe to
Kaneohe**

27	1810HST								
	2110HST								Heavy Rain

Heavy rain and showers caused ponding of roadways and minor stream and drainage ditch flooding from Punaluu to Kaneohe in windward sections of Oahu. There were no reports of serious property damage or injuries.

Honolulu County

**5.5 NW Kaneohe to
2 NW Kaneohe**

28	0450HST								
	0750HST								Heavy Rain

Heavy rain and showers produced ponding of roadways and minor stream and drainage ditch flooding from Waikane to Kahaluu in the windward area of Oahu. However, there were no reports of serious property damage or injuries.

Kauai County

**9 NW Hanapepe to
Hanapepe**

28	1915HST								
	2320HST								Heavy Rain

Heavy rain and showers generated ponding of roadways and minor stream and drainage ditch flooding from the Waimea Canyon area to Hanapepe in western and southern parts of Kauai. However, there were no reports of serious property damage or injuries.

Storm Data and Unusual Weather Phenomena

January 2002

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

Honolulu County

Countywide	28	2020HST			0	0			Heavy Rain
	29	0700HST							

Heavy rain and showers produced minor stream and drainage ditch flooding and ponding of roadways over the entire island of Oahu. The heaviest rainfall was over the Koolau Range and from northwest of Kaneohe to Kahuku to Sunset Beach to Waimea Bay. There were no reports of serious injuries or property damage, however.

HIZ001>008

Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau

29	0135HST				0	0			Strong Wind
30	0400HST								

A strong high pressure area north of the state caused east and east/northeast winds of 30 to 40 mph, with gusts to 45 mph, across the island chain. There were no reports of serious property damage or injuries.

Honolulu County

Southwest Portion to Southeast Portion	29	0550HST 0800HST			0	0			Flash Flood
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On Oahu, heavy showers and isolated thunderstorms caused flooding along the Manoa Stream, which then spilled into a nearby shopping center. Five residents in Waipahu were left homeless after flood waters severely damaged their residence. No damage estimates were available for these events, however.

Hawaii County

Laupahoehoe to Volcano	29	0830HST 2300HST			0	0			Heavy Rain
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Heavy showers and isolated thunderstorms produced minor stream and drainage ditch flooding and ponding of roadways in the Hilo and Puna districts on the island of Hawaii. There were no reports of serious property damage or injuries.

Maui County

Countywide	29	1100HST 1435HST			0	0	2.5M		Flash Flood
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Heavy showers and isolated thunderstorms resulted in nine or ten luxury apartments being flooded near the Manele Golf Course on Lanai. In Maui, flood waters entered the basement of the Lahaina Hongwanji Mission. Some homes on Molokai and West Maui were also damaged. However, there were no reports of serious injuries.

Hawaii County

Naalehu to Pahala	29	1240HST 2300HST			0	0			Heavy Rain
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Heavy showers and isolated thunderstorms caused the road between Pahala and Naalehu to be closed throughout much of the day in the Kau District on the island of Hawaii. Pahala and Naalehu elementary schools and Kau High were thus closed because of poor road conditions.

Maui County

Pauwela to Kaupo	29	1745HST 2000HST			0	0			Urban/Sml Stream Fld
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Heavy showers and rain generated ponding of roadways and minor drainage ditch and stream flooding in windward and southeast sections of East Maui. However, there were no reports of serious injuries or property damage.

Kauai County

Hanalei to Lihue	30	1200HST 1430HST			0	0			Urban/Sml Stream Fld
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Heavy showers caused minor stream and drainage ditch flooding and ponding of roadways in northern, central, and windward areas of the Garden Isle of Kauai. There were no reports of serious property damage or injuries.

IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

IDZ005>007-009>010 Northern Clearwater Mountains - Southern Clearwater Mountains - Orofino / Grangeville Region - Western Lemhi County - Eastern Lemhi County

18	1800MST				0	0			Heavy Snow
23	1030MST								

Storm Data and Unusual Weather Phenomena

January 2002

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

IDAHO, North

IDZ007

Orofino / Grangeville Region

20	1000MST				0	0			High Wind (G54) ^M
	1030MST								

Strong winter storm hit north central Idaho and lasted for five days. Heavy snowfall occurred mainly in the mountains with two to three feet common. At the lower elevations, Grangeville received eight to nine inch snow drifts and strong winds gusting up to 62 mph on the 20th. Powell received 11 inches and Shoup 5 inches. The highest snowfall storm totals were 37 inches at Shanghai Summit, 45 inches at Hemlocke Butte, 49 inches at Cool Creek, and 70 inches at Elk Butte.

IDZ008

Lower Hells Canyon / Salmon River Region

25	0342MST				0	0			Blizzard
	1400MST								

IDZ005>007

Northern Clearwater Mountains - Southern Clearwater Mountains - Orofino / Grangeville Region

25	0700MST				0	0			Heavy Snow
	1900MST								

Strong winter storm hit north central Idaho for two days. Local blizzard conditions was reported by Idaho County Sheriff between Riggins and Pittsburg Landing, where wind gusts up to 58 mph were recorded. Heavy snowfall was widespread with 5 inches of snow reported over the surrounding hills of Orofino, with Pierce and Grangeville receiving one foot of snow. In the mountains, one to two feet of new snow was common. The highest storm total snowfall recorded was 25 inches at Cool Creek and 26 inches at Elk Butte.

IDAHO, Northwest

IDZ004

Central Panhandle Mountains

18	2300PST				0	0			Heavy Snow
	0400PST								

Strong, moist westerly flow with embedded waves of low pressure brought heavy snowfall to parts of the central Idaho panhandle every single day during this week-long period. Seven-day snowfall totals from January 19-26 include: Lost Lake SNOTEL...111", Lookout Pass Ski Area...69", Moscow Mountain SNOTEL...66", Mica Creek SNOTEL...62", Silver Mountain Ski Area...61", Sunset SNOTEL...61", Humboldt SNOTEL...53", Sherwin SNOTEL...47", Wallace...38.3", Kellogg...36.5", Saint Maries...28.2", and Bovill...11".

IDZ001

Northern Panhandle

18	2300PST				0	0			Heavy Snow
	20 2300PST								

Two separate weather systems brought heavy snow to parts of the northern Idaho panhandle on January 19 and 20. Snow levels rose above the valley floors on the 20th, though mountain locations received their heaviest snowfall amounts on the 20th. The following are two-day snowfall totals (SNOTEL amounts are estimated): Bear Mountain SNOTEL...34", Mosquito Ridge SNOTEL...20", Schweitzer SNOTEL...14", Schweitzer Ski Area...12", Sandpoint...9.5", and Priest River...6.8".

IDZ002>003

Coeur D'Alene Area - Idaho Palouse

18	2300PST				0	0			Heavy Snow
	19 1600PST								

The onset of strong westerly flow pushed a warm front into a very cold air mass over the Idaho panhandle starting late on the evening of January 18, bringing heavy snow to much of the panhandle. Snowfall totals for the Idaho Palouse and the Coeur D'Alene areas include: Potlatch...9", Coeur D'Alene...6-9", and Moscow...6".

IDZ002>003

Coeur D'Alene Area - Idaho Palouse

22	1800PST				0	0			Heavy Snow
	23 0100PST								

A warm front quickly moved through the Idaho panhandle on the evening of January 22, bringing heavy snow for much of the central panhandle. Snowfall totals with this event include: Plummer...10", Potlatch...6", Moscow...6", and Coeur D'Alene...3-5".

IDZ001

Northern Panhandle

23	1200PST				0	0			Heavy Snow
	25 1200PST								

Strong, moist westerly flow bombarded the northern Idaho panhandle with copious precipitation from early afternoon on January 23 through late morning on the 25th. Snow levels rose above the valley floors late on the 23rd, leaving the heaviest snowfall for the mountains. Snowfall totals during this 48-hour period include: Bear Mountain SNOTEL...81", Schweitzer Bowl SNOTEL...35", Mosquito Ridge SNOTEL...32", Hidden Lake SNOTEL...24", Schweitzer Ski Area...22", Sandpoint...5.9", and Priest River...4.7".

IDZ027

Lewis And Southern Nez Perce

26	0000PST				0	0			Heavy Snow
	1200PST								

A stalled frontal boundary helped to bring very heavy snow to the Camas Prairie above 2500 to 3000 feet in elevation. Nez Perce reported 10" of snow and Winchester reported 9" of snow.

Storm Data and Unusual Weather Phenomena

January 2002

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

IDZ004

Central Panhandle Mountains

29	0400PST 1600PST				0	0			Heavy Snow
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A pattern with northwest flow aloft and weak instability brought heavy snow to the central Idaho panhandle on the morning of January 29. Snowfall totals include: Silver Mountain Ski Area...16", Kellogg...6.5", Saint Maries...5", Silverton...4", and Wallace...3.8".

IDZ003>004-027

Idaho Palouse - Central Panhandle Mountains - Lewis And Southern Nez Perce

30	1200PST 2359PST				0	0			Heavy Snow
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Moist northwest flow enhanced snowfall amounts near the Idaho Palouse and the Camas Prairie. Snowfall totals include: Moscow...7-9", Potlatch...7", Winchester...5.2", Sanders...5", and Bovill...5".

IDZ001>004

Northern Panhandle - Coeur D'Alene Area - Idaho Palouse - Central Panhandle Mountains

31	1200PST 2359PST				0	0			Heavy Snow
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An intense warm front lifting north across the area brought heavy snow to most locations along and north of I-90. Snowfall totals include: Schweitzer Ski Area...16", Lookout Pass Ski Area...12", Mosquito Ridge SNOTEL (22 SE Sandpoint)...11", Athol...10", 5 S Spirit Lake...8", Rathdrum...8", Sandpoint...6", 10 SSW Bonners Ferry...5", 3 WSW Coeur D'Alene...4.5", Potlatch...4", and Bovill...4".

IDAHO, Southeast

IDZ018>020-022>023-031>032

Sawtooth Mountains - Upper Snake Highlands - Upper Snake River Plain - South Central Highlands - Caribou Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi

21	0500MST 2345MST				1	0			Winter Storm
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A major winter storm brought heavy snow to the mountains of southeastern Idaho. 6 to 14 inches of snow were reported above 6000 feet. Strong winds accompanied the storm and created many road closures. Interstate 15 was closed from Idaho Falls to Roberts. US Highway 20 was closed from Rigby to Rexburg. Highway 33 was closed from Newdale to Teton. Highway 20 was closed from Carey to Arco. Road conditions were blamed for one death early on the morning of 1/21 on Highway 20 near Rigby. M34VE

IDZ018>019-021>023-031>032

Sawtooth Mountains - Upper Snake Highlands - Lower Snake River Plain - South Central Highlands - Caribou Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi

25	0500MST				0	0			Heavy Snow
28	0800MST								

A long drawn out period of intermittent heavy snow affected all of southeastern Idaho during the last weekend of January. The snow began in the central mountains late Friday and the storm finally wound down by noon Monday on the 28th in extreme southeastern Idaho. The storm brought the heaviest snow of the season to the city of Pocatello with amounts ranging from 6 inches in the city and at the airport to 12 inches on the benches surrounding town. Other significant storm totals were: 14 inches at Ketchum, 8 inches at Stanley, 22 inches at Galena Lodge, 16 inches at Sun Valley, 12 inches at Macks Inn, 6 inches at Wayan, 10 inches at Swan Valley, 7 inches at American Falls, 12 inches at Malad City, 9 inches at Pebble Creek Ski Resort, 6 inches at Soda Springs, 8 inches at Almo, 6 inches at Massacre Rocks, 6 inches at Lava Hot Springs, 16 inches at Driggs, 12 inches at Victor, and 8 inches at Rockland.

IDAHO, Southwest

IDZ011>012-014

West Central Mountains - Lower Treasure Valley - Upper Treasure Valley

03	2030MST				0	0			Fog
04	1100MST								

Widespread dense fog developed along the Treasure Valley in southwest Idaho and in the Long Valley in the West Central Mountains on the evening of January 3rd. Visibility was reduced to a quarter mile or less throughout the night. Morning traffic along Interstate 84 was backed up for several miles due to limited visibility and slick roadways. Visibilities began to improve by 1100 am.

IDZ011>012-014-016

West Central Mountains - Lower Treasure Valley - Upper Treasure Valley - Western Magic Valley

09	0200MST 1100MST				0	0			Fog
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Dense fog developed along the Treasure Valley, Long Valley and locally in the Western Magic Valley on the morning of January 9th. Visibilities were reduced to less than a quarter mile at the Boise Airport. Law enforcement reported icy roads in the West Central Mountains but no accidents were reported. Visibilities had improved by 11 am.

IDZ011>014-028>029

West Central Mountains - Lower Treasure Valley - Boise Mountains - Upper Treasure Valley - Camas Prairie - Owyhee Mountains

19	0300MST				0	0			Heavy Snow
21	1700MST								

A series of Pacific storms swept through southwest Idaho starting in the early morning hours of the 19th and continuing through the weekend until the evening of the 21st. The West Central and Boise Mountains received a total of 18 to 24 inches of snow during the

Storm Data and Unusual Weather Phenomena

January 2002

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

three day event. Snowfall in the Treasure Valley and the Owyhee Mountains was limited to the afternoon of the 20th with 4 to 9 inches falling. The Camas Prairie received a total of 13 inches of snow on the 20th and 21st. In the Treasure Valley, over 150 accidents and slideoffs were reported in Ada County including 12 with minor injuries while Canyon County reported 66 accidents.

IDZ016-030

Western Magic Valley - Southern Twin Falls County

20	1700MST				0	0			
	2000MST								Heavy Snow

Bands of snow aligned with the Magic Valley dropped 3 to 6 inches of snow in the Western Magic Valley and Southern Twin Falls County on the evening of the 21st.

IDZ011

West Central Mountains

25	1100MST				0	0			
	1400MST								Heavy Snow

A Pacific storm dropped 6 to 8 inches of snow across the West Central Mountains.

ILLINOIS, Central

ILZ031-036>038-040>041

Woodford - Fulton - Tazewell - Mclean - Schuyler - Mason

30	1000CST				0	0			
	1400CST								Ice Storm

ILZ027>030

Knox - Stark - Peoria - Marshall

30	1200CST				0	0			
	1400CST								Winter Storm

Near a quarter inch of ice accumulated across the extreme northern part of Mason County around Manito and Sand Ridge State Forest. Around a half inch of ice accumulated across Woodford county with local 1 inch amounts of ice near Eureka. Between a quarter and half inch of ice accumulated across the northern two thirds of Tazewell County. Around a quarter inch of ice accumulated across the northwest quarter of Schuyler county. Between a quarter and half inch of ice accumulated across the northern two thirds of McLean county. Between a quarter and half inch of ice accumulated across the northern two thirds of Fulton County. Between 6 and 9 inches of snow accumulated across Knox, Stark, Marshall and northern Peoria counties along with a quarter to half inch of ice. The southern half of Peoria county had around a half inch of ice along with 1 to 2 inches of snow. There were local three quarter to 1.5 inches of ice across higher terrain (Illinois River bluffs) near Mapleton. Several trees and power lines were downed from ice accumulations across Peoria and surrounding counties lasting from several hours to a couple of days.

ILLINOIS, Northeast

Cook County

Mt Prospect

22	2130CST				0	1	5K		
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A line of thunderstorms developed during the evening hours of January 22nd across northwest Illinois. The thunderstorms produced pea size hail across many parts of Lee, DeKalb, Kane and Will counties. As the line moved east into northeast Illinois, a bolt of lightning struck a tree in Mount Prospect. The tree exploded into thousands of pieces, some of which were 3 to 5 feet long. One of these large pieces struck a woman walking her dog. Although she was critically injured, she recovered from her injuries. The flying pieces of the tree broke 3 windows and damaged garage doors and siding.

ILZ003>006-008-010>014-019>023-032

Winnebago - Boone - Mchenry - Lake - Ogle - Lee - De Kalb - Kane - Du Page - Cook - La Salle - Kendall - Grundy - Will - Kankakee - Livingston

30	1900CST				0	0			
	0530CST								Winter Storm

A strong winter storm moved into the Ohio Valley on January 30th. Snow began falling during the morning hours...especially along and south of Interstate 80 where 2 to 5 inches fell. Heavier snow began falling north of Interstate 80 during the evening hours and continued into the early morning hours of January 31st. Snowfall totals were mainly between 6 and 10 inches from Interstate 80 north. The heaviest snow fell in Dupage and Cook counties. Downers Grove in Dupage county received the most snow with 13.1 inches. Ohare Airport received 12.0 inches. The snow caused numerous car accidents.

Across Livingston, Kankakee, southern Will, and southern Grundy counties, snowfall amounts were lighter, generally 2 to 5 inches. However, these areas received one quarter inch of ice from freezing rain during the early morning hours of January 31st. Many utility poles, power lines, trees and tree limbs were knocked down by the ice causing several power outages.

ILLINOIS, Northwest

ILZ001>002-007-009-015>018-024>026-034>035

Jo Daviess - Stephenson - Carroll - Whiteside - Rock Island - Henry - Bureau - Putnam - Mercer - Henderson - Warren - Hancock - McDonough

30	0500CST				0	0			
	0900CST								Winter Storm

Less than one week removed from record warmth, a late January winter storm brought the region it's first dose of significant winter

Storm Data and Unusual Weather Phenomena

January 2002

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

INZ003>009-012>018

La Porte - St. Joseph - Elkhart - Lagrange - Steuben - Noble - De Kalb - Starke - Pulaski - Marshall - Fulton - Kosciusko - Whitley - Allen

31	0300EST 1600EST				0	1	10K		Ice Storm
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The first major winter storm of the season brought an ice storm to much of Southwest Lower Michigan, Northern Indiana, and extreme Northwest Ohio with ice accumulations from one quarter to over one half inch on trees and power lines, with up to one and one half inches of ice reported in some locations. Roads were ice covered mainly along and north of the Indiana and Michigan state line. Over 250,000 homes were without power at some point during the storm. Trees and power lines were down across the entire area, and AEP electric reported the most outages ever for the Michiana region, surpassing any previous severe weather event. A Pulaski county employee was injured working near a power line. Some customers did not have power restored for over three days. Despite this, actual property damage was quite limited, with only isolated minor damage to some vehicles. Several communities issued state of emergencies for over 48 hours, with the Red Cross and local churches opening shelters.

INDIANA, Northwest

INZ001>002

Lake - Porter

31	0400CST 0530CST				0	0			Winter Storm
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A strong winter storm moved into the Ohio Valley on January 30th. Snow begin falling across Lake and Porter counties in the evening. The snow changed to freezing rain over most areas and produced ice accumulations of one quarter inch. Northwest Lake county received 6 inches of snow before changing to freezing rain, while other areas saw 2 to 5 inches of snow. The ice and snow knocked down utility poles, power lines, trees and tree limbs causing several power outages. Numerous car accidents were also reported.

INDIANA, South Central

Orange County

Countywide	24	0145EST			0	0			Flash Flood
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Flood waters closed roads countywide.

Clark County

Jeffersonville	24	0200EST			0	0			Flash Flood
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Numerous roads were covered by water, mainly in the Jeffersonville area.

Floyd County

Floyds Knobs	24	0230EST 0430EST			0	0			Flash Flood
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Powderhouse Lane in Floyds Knobs was washed out. Large boulders came down a hill on to the road.

Harrison County

Countywide	24	0300EST			0	0			Flash Flood
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Flood waters closed roads countywide.

INDIANA, Southeast

NONE REPORTED.

INDIANA, Southwest

INZ088

Spencer

19	0100CST 0600CST				0	0	500K		Heavy Snow
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Around four inches of snow fell across a small part of southwest Indiana, mainly along the Ohio River. Spencer County reported an average of four inches, with generally one to three inches north and west of there. Most of the snow fell in a burst lasting about 3 hours. Visibility was occasionally around one quarter mile during that time. Since surface temperatures were within a degree or two of freezing, removal of the snow was relatively easy. Traffic problems were relatively minor because of the timing of the event late at night on a weekend.

IOWA, Central

IAZ075-083>086-093>097

Mahaska - Clarke - Lucas - Monroe - Wapello - Ringgold - Decatur - Wayne - Appanoose - Davis

30	0600CST				0	0	500K		Heavy Snow
31	0300CST								

A strong, but shallow, Arctic cold front slipped south across Iowa during the first part of the week. This front became stationary to the south of Iowa as a southwest flow of air prevailed aloft. Over running precipitation actually began during the day on the 29th in the form of very light snow and freezing drizzle. With the approach of a strong upper level system on the morning of the 30th, snow began in earnest. Heavy snow fell through a good part of the day on the 30th before tapering off slowly during the evening hours. Snow totals mounted quickly with several locations reporting a foot of heavy, wet snow. A few of the heavier totals include 13.2

Storm Data and Unusual Weather Phenomena

January 2002

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

IOWA, Central

inches at Leon in Decatur County, 13.0 inches in Bloomfield in Davis County, and 12.5 inches in Appanoose County in Centerville. Fortunately it was not extremely cold, nor was it very windy. The heavy snow did cause travel problems and the closure of numerous schools as well as cancellation of many activities. Throughout the storm, periods of light freezing rain and drizzle occurred. The freezing precipitation was not significant and did not cause any problems.

IAZ004-015-023>024-046>048-059>060 Emmet - Palo Alto - Pocahontas - Humboldt - Greene - Boone - Story - Dallas - Polk

31	0900CST 2100CST			0	0	180K		Heavy Snow
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Snow spread north across Iowa during the morning of the 31st. The synoptic situation was similar to the previous event, just that the cause was from another upper level system. In this case, the entire upper level low pressure system lifted out northeast as a negative tilt trough of low pressure. Snow broke out over nearly all of the state during the day on the 31st. Band of heavy snow developed from west central into north central Iowa. This band broke down by evening. By that time the upper low was moving into Iowa. A deformation pattern developed along the northwest edge of the 850 Mb low pressure circulation. A brief period of very heavy snowfall of one to two inches per hour occurred as the deformation lifted east-northeast across the state. There was a brief period of freezing drizzle and ice pellets just before the snow moved in, but once again, it was not a significant problem. Travel was disrupted and many events were postponed or cancelled for the evening of the 31st. Winds were under 20 MPH, so drifting of snow was not a large problem. Conditions improved rapidly after midnight. The interesting thing about the two events measured was the long term of the events. Snow fell on a large part of Iowa for nearly 48 hours. As far as the public was concerned, it was a major winter event as all but 4 counties in the far northeast part of the Des Moines CWA received at least 6 inches of snow over the course of the two day period.

IOWA, East Central and Southeast

IAZ053>054-063>068-076>078-087>089-098>099 Jones - Jackson - Iowa - Johnson - Cedar - Clinton - Muscatine - Scott - Keokuk - Washington - Louisa - Jefferson - Henry - Des Moines - Van Buren - Lee

30	0300CST			0	0			Winter Storm
31	0700CST							

Less than one week removed from record warmth, a late January winter storm brought the region it's first dose of significant winter precipitation. The storm system developed over Southern California and then lifted east northeast through the Mid Mississippi Valley Wednesday into early Thursday producing heavy snow and icy conditions. The precipitation initially fell in the form of sleet and freezing rain along and south of Highway 34. Significant ice accumulations of 1/4 to 1/2 inch were reported with scattered power outages. Downed trees were also reported. Eventually the ice changed to snow in Southeast Iowa where the highest accumulations occurred. Amounts generally ranged from 8 to 13 inches. Further north heavy snow fell as far north as Highway 30, where 6 to 10 inches was common. The heavy snow and ice caused many schools to close. Many activities were either cancelled or postponed. Also, the winter weather was responsible for cancellations of several flights at the Quad City International Airport. There were numerous accidents with 2 indirect fatalities. One hand injury was reported when a man put his hand in a snow auger to unplug the heavy, wet snow.

IOWA, Northeast

NONE REPORTED.

IOWA, Northwest

NONE REPORTED.

IOWA, Southwest

IAZ043-055>056-069-079>080-090 Monona - Harrison - Shelby - Pottawattamie - Mills - Montgomery - Fremont

30	1200CST			0	0			Winter Storm
31	2100CST							

A long lasting winter storm dropped 6 to 10 inches of snow over most of eastern Nebraska and southwest Iowa. The event began when light snow spread into extreme southeast Nebraska around 500 am Wednesday 1/30/02 as warm advection set up ahead of a developing intense upper level low pressure system over the southwest U.S. The snow increased in intensity in southeast Nebraska before noon that day, then slowly spread north. The snow made it into the Omaha and Lincoln areas around 400 pm Wednesday, and finally reached far northeast Nebraska and west central Iowa around Midnight. Outside of far southeast Nebraska and extreme southwest Iowa, most of the snow associated with the warm advection was light - generally less than 3 inches. Locations in extreme southeast Nebraska and extreme southwest Iowa did manage to pick up 6 inches of snow before Thursday morning.

As the upper level system moved onto the plains Thursday 1/31/02, a deformation band of moderate to heavy snow developed from south central Nebraska into west central Iowa. The snow from this feature was most intense from late morning into the early evening hours.

Storm Data and Unusual Weather Phenomena

January 2002

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

IOWA, Southwest

Although winds did increase Thursday afternoon to occasionally over 20 mph, substantial blowing and drifting snow was not reported. Nonetheless, many schools were closed on Thursday, and these same schools either started late or cancelled classes again on Friday.

Heavier storm totals in eastern Nebraska from the storm included, 10 inches in Gretna, parts of west Omaha, Madison, Roca, and Fairbury; 9 inches at Lincoln, Valley (NWS), Hickman, Uehling, Springfield, Plattsmouth, Schuyler, and Columbus; and 8 inches at David City, Raymond, Virginia, Surprise and Utica.

Heavier storm totals in western Iowa included, 8 inches in Logan, Oakland and Randolph and 7 inches at Harlan, Red Oak, Sidney, and Onawa.

KANSAS, East

KSZ011>012-022>023-035>038-054 Nemaha - Brown - Riley - Pottawatomie - Dickinson - Geary - Morris - Wabaunsee - Lyon

05 0845CST 1114CST 1 0 Ice Storm

Freezing rain produced icy roads and caused several accidents during the morning hours in parts of northeast and east central Kansas. A deadly accident occurred 14 miles south of Emporia when a male motorist lost control of his car on an icy road. The car then hit a retaining wall, a post, and a parked car before sliding into a ditch and overturning. The motorist was pronounced dead at the scene. The incident occurred at 9:25 am. M71VE

KSZ008-008>009-009>012-020-020>021-021>022-022>024-026-034-034>035-035>036-036>040-054>056-058>059 Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson - Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin - Coffey - Anderson

18 1500CST 0 0 Winter Storm
19 0700CST

A winter storm brought 3 to 5 inches of snow over parts of north central and northeast Kansas from late afternoon of the 18th to the early morning of the 19th. The heavier amounts fell generally along and to the east of the Flint Hills and north of Interstate 70 with lesser amounts to the west and south. Strong winds caused some blowing and drifting of snow as well.

KSZ008>012-020>024-026-034>040-054>056-058>059 Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson - Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin - Coffey - Anderson

29 1700CST 0 0 8M Winter Storm
31 1400CST

A major winter storm struck all of north central...northeast and east central Kansas in late January. Freezing rain mixed at times with sleet occurred across east central Kansas from the early evening of January 29 into the morning of January 31. The freezing rain accumulated as much as an inch and a half of glaze which caused considerable power line and tree damage. Many residents remained without power well into February. Several buildings collapsed under the weight of the ice doing considerable damage to the contents. A boat marina at Lake Perry collapsed under the weight of the ice and damaged or destroyed 19 boats. Northeast Kansas received mostly snow from the night of the 29th into the early afternoon of the 31st, although some sleet and freezing rain was mixed in at times. Snow fell across north central Kansas from the late morning of the 30th into the late afternoon of the 31st. Snowfall amounts of 6 to 12 inches occurred over north central and parts of northeast Kansas. The area in between the heavy glaze and heavy snow, roughly from Manhattan and Herington east to Topeka, received a heavy mixture of sleet mixed with freezing rain and snow. Many businesses, schools, colleges, and even the State Legislature were closed for several days because of the storm. Preliminary damage estimates are around 8 million dollars.

KANSAS, Extreme Southeast

KSZ073-097 Bourbon - Crawford

30 0500CST 0 0 2.6M Ice Storm
31 1200CST

A large scale ice storm event developed over southeast Kansas and west central Missouri during the early morning hours of January 30, 2002. Synoptically, a shallow arctic air mass moved through the region dropping surface temperatures in the upper 20s. Strong jet stream winds from the southwest provided the influx of sub-tropical type regime. In addition, deep moisture from the Gulf of Mexico surged northward above this shallow air mass to set the stage for a prolonged ice storm.

Light to moderate rainfall fell over the sub-freezing surface temperatures for nearly 36 hours. Ice begun accumulating on trees and power lines from southeast Kansas into west central Missouri Wednesday morning. Law enforcement officers and local weather observers reported nearly one half inch of ice accumulated on trees and power lines before 6 am Wednesday morning. The freezing

Storm Data and Unusual Weather Phenomena

January 2002

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

KANSAS, Extreme Southeast

rain, mixed with sleet at times, continued through the day with an additional one quarter to one half inch of ice by Wednesday evening. Total ice accumulations approached one inch thick on trees and power lines, by Wednesday night and Thursday. The ice started to weight down trees, power lines and other objects which caused widespread power outages.

During the height of the storm, nearly 150,000 people were without power from southeast Kansas into west central and central Missouri. In addition, trees snapped which caused damage to homes, cars and businesses. One of the most incredible acts of destruction wrought by the ice was the collapse of a 465-foot radio tower east of Pittsburg, Kansas. Storm shelters were set-up in Crawford and Bourbon counties of southeast Kansas due to the widespread power outages.

Although most of the main highway routes were wet, secondary roads were ice covered throughout the event. Numerous automobile accidents were reported, along with numerous injuries.

The storm system began to wind down Thursday morning as temperatures rose above freezing. However, additional ice related problems continued through the early afternoon as the melting ice fell on homes, cars and businesses.

KANSAS, North Central

KSZ005>007-017>019

Phillips - Smith - Jewell - Rooks - Osborne - Mitchell

30	2000CST	0	0	0	0	Winter Storm
31	1600CST					

An average of 8 to 12 inches of snow fell on north-central Kansas as January came to a close. In Beloit, the 1st major winter storm of the season dumped 14 inches of fresh powder. The area along Highway 24 across northern Osborne and northern Mitchell counties received the most snow. Traffic was at a stand still and schools were closed. The snow did bring badly needed moisture to the very dry winter wheat crop in the region.

KANSAS, Northeast

KSZ057-060-103>105

Miami - Linn - Leavenworth - Wyandotte - Johnson

30	0400CST	0	0	9.5M	Ice Storm
31	1500CST				

KSZ025-102

Atchison - Doniphan

30	1600CST	0	0	300K	Heavy Snow
31	2100CST				

A long-lived major ice and snow storm blasted much of eastern Kansas, January 29th through January 31st. Ice accumulations of 1 to 2 inches were observed with snow accumulations of 6 to 10 inches in Atchison and Doniphan counties. The results of the storm were devastating to many communities. A tremendous amount of people were without power for extended periods of times, due to downed trees and tree limbs crippling power supplies in the affected areas.

KANSAS, Northwest

KSZ001>004-013>016-027>029-041>042

Cheyenne - Rawlins - Decatur - Norton - Sherman - Thomas - Sheridan - Graham - Wallace - Logan - Gove - Greeley - Wichita

30	1700MST	0	0		Winter Storm
31	1100MST				

A strong area of low pressure brought a band of 5 to 9 inches of snow across much of northwest Kansas. The snow began the evening of January 30th and continued into January 31st. The storm impacted travel and many schools were closed. Also, northwest winds of 15 to 25 mph with higher gusts created some blowing and drifting snow.

KANSAS, Southeast

KSZ052>053-067>069-082>083-091>093

Marion - Chase - Reno - Harvey - Butler - Kingman - Sedgwick - Harper - Sumner - Cowley

29	1500CST	0	0	15M	Winter Storm
31	0900CST				

On the 28th, an Arctic Front surged south across Kansas, leaving a shallow layer of sub-freezing air in it's wake. Meanwhile, an 850mb low was positioned over New Mexico. As the 850mb low moved east across New Mexico on the 29th and 30th, much warmer, moisture-laden air was transported north across the southern plains in a layer approximately 3,000 feet thick, trapping the sub-freezing layer beneath. On the evening of the 30th, the 850mb low crossed the New Mexico/Texas border. A mid-upper level trough moving east across the southern Rockies provided sufficient lift across the region.

Widespread freezing rain and sleet developed late in the afternoon of the 29th across south-central Kansas and continued through the night of the 30th, eventually changing to snow early on the morning of the 31st. The result was a major ice accumulation of 1-2 inches on trees and power lines across south-central Kansas that severed power to much of the area. The most prolonged power outages occurred across southeast Butler and Cowley Counties where the outages lasted for nearly a week. Trained spotters and area newspapers contributed greatly to this report.

Storm Data and Unusual Weather Phenomena

January 2002

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

KSZ032>033-047>052-067>068 Russell - Lincoln - Barton - Ellsworth - Saline - Rice - Mcpherson - Marion - Reno - Harvey

29	2000CST				0	0			Heavy Snow
31	0900CST								

The same winter storm that produced widespread freezing rain and sleet across south-central and southeast Kansas brought heavy snow to central and part of south-central Kansas. The greatest accumulations, 8-12 inches, buried that part of central Kansas along, and northwest, of a line from Great Bend to Salina. Areas to the southeast of this line, specifically Rice, McPherson, Marion, Reno, Marion and most of Harvey Counties received accumulations of 4 to 6 inches by the morning of the 31st. However, in the latter case, the snow was occasionally mixed with freezing rain and sleet, producing a thin layer of ice atop the snow. Travel was treacherous, with snow emergency procedures implemented.

KSZ070>072-094>096-098>100 Greenwood - Woodson - Allen - Elk - Wilson - Neosho - Chautauqua - Montgomery - Labette

30	0800CST				0	0	25M		Ice Storm
31	1200CST								

The same winter storm that all but paralyzed south-central Kansas hit southeast Kansas early on the morning of the 30th and lasted well into the morning of the 31st. Freezing rain was almost solely responsible for ice accumulations of 1-2 inches that caused widespread tree and power line damage. The resulting power outages affected nearly all of the region and lasted, in some cases, nearly a week.

KANSAS, Southwest

KSZ066-080>081-088>090 Stafford - Kiowa - Pratt - Clark - Comanche - Barber

29	2100CST				0	0			Ice Storm
31	0800CST								

A combination of freezing rain and sleet fell from southeast Clark through Comanche, Kiowa, Barber, Pratt and Stafford counties. Two to four inches of ice and sleet were reported. Widespread power outages occurred across Barber county due to the ice breaking down power lines. A livestock building at the Stafford county fairgrounds collapsed under the weight of the ice, sleet and eventually a little snow.

KSZ030>031-043>046-061>065-074>079-084>087 Trego - Ellis - Scott - Lane - Ness - Rush - Hamilton - Kearny - Finney - Hodgeman - Pawnee - Stanton - Grant - Haskell - Gray - Ford - Edwards - Morton - Stevens - Seward - Meade

30	1100CST				0	0			Heavy Snow
31	0900CST								

Heavy snow fell over a good portion of the area with four to eight inches of snow common. Eight to twelve inch snow amounts were reported over southeast Stevens, Seward and southwest Meade counties, as well as from Hodgeman into Ness, Trego, Rush and Ellis counties. There were indirect fatalities and injuries from the storm. Two women died in a head-on collision that occurred west of Dodge City in very low visibilities in blowing snow. Six people were injured due to roll-over accidents.

KENTUCKY, Central

Ohio County

Hartford	24	0015EST			0	0			Thunderstorm Wind (G50)
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Butler County

Countywide	24	0230EST			0	0			Thunderstorm Wind (G50)
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Grayson County

Tar Hill	24	0300EST			0	0	5K		Thunderstorm Wind (G70)
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Winds ripped the roof off a self serve car wash. Trees and power lines were also downed.

Edmonson County

Countywide	24	0310EST			0	0	40K		Thunderstorm Wind (G90)
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Trees were blown down throughout the county. A garage was blown down, several storage buildings were blown away, and a propane gas tank was blown over. Winds also damaged windows and roofs on homes.

Casey County

Liberty	24	0430EST			0	0	20K		Thunderstorm Wind (G70)
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Numerous trees were blown down. Wind damaged the roof of a building and blew out the window at a grocery store.

Hardin County

Countywide	24	0445EST			0	0			Thunderstorm Wind (G50)
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Hardin County

Radcliff	24	0445EST			0	0	100K		Lightning
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Lightning struck a home along Wintergreen Road in Radcliff. The home was totally destroyed by fire. There were no injuries.

Storm Data and Unusual Weather Phenomena

January 2002

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

Hardin County

White Mills 24 **0445EST** **0** **0** **8K** **Thunderstorm Wind (G80)**
 A 200 year old maple tree was blown on to a car.
 Thunderstorm winds blew down trees and power lines over much of central Kentucky, in addition to the above damage.

Meade County

Countywide 24 **0130EST**
 0300EST **0** **0** **Flash Flood**
 Flood waters closed roads countywide.

Scott County

Biddle 24 **0130EST**
 0150EST **0** **0** **5K** **Flash Flood**
 Flood waters engulfed a car on Biddle Road in northern Scott County. The occupants of the car, two males and one female, were rescued without injury.

Breckinridge County

Countywide 24 **0145EST**
 0300EST **0** **0** **Flash Flood**
 Flood waters closed roads countywide.

Oldham County

Countywide 24 **0145EST**
 0300EST **0** **0** **Flash Flood**
 Flood waters closed roads countywide.

Hancock County

Countywide 24 **0220EST**
 0300EST **0** **0** **Flash Flood**
 Flood waters closed roads countywide.

Jefferson County

Countywide 24 **0230EST**
 0500EST **0** **0** **Flash Flood**
 Various roads were closed in Louisville due to high water. Floyds Fork in eastern Jefferson County flooded.

KYZ026

Ohio
 24 **2330EST** **0** **0** **Flood**
 25 **1345EST**
 The Rough River at Dundee was above flood stage from late in the evening on January 24 until early afternoon on January 25. The river crested at 25.26 feet at 730 AM EST on January 25. Flood stage at Dundee is 25 feet. At this level, a section of highway about a half mile long near the bridge begins to flood.

KYZ061

Butler
 25 **0100EST** **0** **0** **Flood**
 27 **0100EST**
 The Green River at Woodbury was above flood stage from early in the morning on January 25 until early in the morning on January 27. The river crested at 35.5 feet at 7 PM EST on January 25. Flood stage at Woodbury is 33 feet. This stage causes minor flooding, with lowlands around the town beginning to flood.

KYZ061

Butler
 25 **1940EST** **0** **0** **Flood**
 27 **0700EST**
 The Green River at Rochester was above flood stage from the evening of January 25 until the morning of January 27. The river crested at 17.6 feet at 11 AM EST on January 26. Flood stage at Rochester is 17 feet. Minor flooding occurs at this level.

KENTUCKY, Eastern

KYZ044-051>052-058-060-069-084>088-106-108>120 **Fleming - Bath - Rowan - Estill - Menifee - Jackson - McCreary - Whitley - Knox - Bell - Harlan - Morgan - Wolfe - Magoffin - Floyd - Lee - Breathitt - Knott - Owsley - Perry - Clay - Leslie - Letcher - Martin - Pike**

06 **0500EST**
 1600EST **0** **0** **Heavy Snow**
 A strengthening area of low pressure tracked from the Gulf Coast states northeastward along the Appalachian Mountains. This initially produced rain, freezing rain, and sleet over eastern Kentucky during the early morning hours, but shortly before dawn, turned to snow. Western parts of the area were generally affected first as snow moved east during the morning hours. Snowfall rates of 1 inch per hour were common during the mid morning to early afternoon hours. Generally, southeastern portions of eastern Kentucky received the most snowfall with 6 to 10 inches commonly reported from Bell, Harlan, Letcher, Knox, Clay, Leslie, Perry, Breathitt, Magoffin, Floyd, Estill, and Fleming Counties. Elsewhere amounts were in the 4 to 6 inch range. Although most of the significant

Storm Data and Unusual Weather Phenomena

January 2002

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

KENTUCKY, Eastern

accumulating snow ended by mid afternoon, light snow continued to fall into the early evening hours before ending.

KYZ059-106>108-111>112-114 Powell - Morgan - Johnson - Wolfe - Lee - Breathitt - Owsley

17	2100EST				0	0			
18	0300EST								Heavy Snow

An upper level disturbance helped bring a swath of rather unexpected snowfall amounts of 4 to 7 inches to portions of east central Kentucky. Up to 7 inches of snow were reported in Johnson County and up to 5 inches of snow were received in Lee County. Up to 4 inches of snow were received in Breathitt, Morgan, Owsley, Powell, and Wolfe Counties.

KYZ079>080-083>088-115>118-120 Pulaski - Laurel - Wayne - McCreary - Whitley - Knox - Bell - Harlan - Perry - Clay - Leslie - Letcher - Pike

19	0530EST				0	0			
	1200EST								Winter Storm

KYZ044-050>052-058>060-068>069-104-106>114-119 Fleming - Montgomery - Bath - Rowan - Estill - Powell - Menifee - Rockcastle - Jackson - Elliott - Morgan - Johnson - Wolfe - Magoffin - Floyd - Lee - Breathitt - Knott - Owsley - Martin

19	0630EST				0	0			
	1200EST								Heavy Snow

A significant winter storm occurred during the morning and early afternoon of January 19th as an area of low pressure moved northeast from northern Alabama into eastern Tennessee, and eventually into central Virginia. The combination of the surface low, along with abundant Gulf moisture, and a strong upper level disturbance produced a large swath of wintry precipitation across eastern Kentucky.

The precipitation initially began as a mix of snow, sleet, and freezing rain in the southern portion of the County Warning Area (CWA) during the early morning hours. As the precipitation spread north and east, it was mainly in the form of snow at first. The precipitation turned to sleet in the southern portions of the CWA by mid morning, then to freezing rain, and eventually to rain by late morning. In areas receiving heavy snow to the north, snow gave way to some light sleet by around noon, and shortly afterward changing to a light mix of sleet and freezing rain, and then mostly light rain by mid afternoon.

Snowfall totals across eastern Kentucky from this event ranged from 6 to 9 inches north of a line from Irvine (Estill County) to Booneville (Owsley County) to Inez (Martin County). This includes Fleming, Bath, Rowan, Montgomery, Elliot, Menifee, Morgan, Powell, Johnson, Martin, Magoffin, Wolfe, Estill, Lee, and Owsley Counties. Also, 4 to 6 inches of snow were reported from Rockcastle, Jackson, Breathitt, Knott, Floyd, and Pike Counties.

Areas in the southern CWA received a wintry mix of snow, sleet, and freezing rain. This area includes Wayne, Pulaski, McCreary, Laurel, Whitley, Knox, Clay, Bell, Leslie, Perry, Harlan, Letcher, and Pike Counties. Reports of 1/2 to 1 inch of sleet were received in Whitley, Knox, and Wayne Counties with a thin topping of ice in many areas from freezing rain.

Pike County reached winter storm criteria by not only a heavy snow report in northern Pike County, but also another report of 1/2 of an inch of sleet on top of 2 inches of snow in the southern portion.

Harlan County

Coxton	23 2130EST				0	0	0	0	
	25 0330EST								Flood

Kentucky highway 38 was closed when reported to be flooded at the site of a bridge.

Whitley County

Williamsburg	24 0630EST				0	0	0	0	
	0930EST								Flash Flood

Water was flowing over U.S. route 25W near Kentucky highway 727.

Wayne County

1 E Monticello to 3 E Monticello	24 0640EST				0	0	0	0	
	0930EST								Flash Flood

Water covered Kentucky highway 92.

Laurel County

London	24 0645EST				0	0	0	0	
	0945EST								Flash Flood

Water covered Kentucky highway 92.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Eastern</u>									
Wayne County									
Monticello	24	0653EST 1000EST			0	0	0	0	Flash Flood
A creek flowed over Beach Valley Road. Also, a boulder was reported in the road.									
Knox County									
5 N Barbourville	24	0715EST 1015EST			0	0	0	0	Heavy Rain
A mudslide brought 25 trees down onto Kentucky highway 229 at mile marker 7.									
Bell County									
Varilla	24	0720EST 1030EST			0	0	0	0	Heavy Rain
A mudslide covered U.S. route 119.									
Knox County									
5 NW Barbourville	24	0750EST 1000EST			0	0	0	0	Flash Flood
Water flowed over Kentucky highway 1527.									
Knox County									
Dewitt	24	0750EST 1000EST			0	0	0	0	Flash Flood
Water was reported to be flowing over Kentucky highway 223 in the Stinking Creek area.									
Harlan County									
Elcomb	24	0750EST 1000EST			0	0	0	0	Flash Flood
Catrons Creek was out of its banks. Water was reported in four homes along Kentucky highway 72. Water also covered Kentucky highway 72 itself.									
Bell County									
Noetown	24	0750EST 1030EST			0	0	0	0	Flash Flood
Kentucky highway 66 was covered with water and threatened several homes.									
Leslie County									
Hyden	24	0930EST 1330EST			0	0	0	0	Heavy Rain
Kentucky highway 1850 and 758 were reported by the 24 Hour Warning Point to be impassable due to rockslides and mudslides caused by heavy rain.									
Leslie County									
2 NW Wooton	24	1200EST 1400EST			0	0	0	0	Flash Flood
A report of two feet of water over Meeting House Branch was reported by the 24 Hour Warning Point.									
Mccreary County									
Strunk	24	1200EST 1600EST			0	0	0	0	Flash Flood
Water was reported over the road on Kentucky highway 1470 by the 24 Hour Warning Point.									
Leslie County									
5 S Hyden	24	1500EST 1900EST			0	0	0	0	Flash Flood
Wendover Road was impassable due to high water.									
Whitley County									
Williamsburg	24	1850EST 2200EST			0	0	0	0	Flash Flood
Water was over roads in Briar Creek Park.									
Whitley County									
5 S Williamsburg	24	1856EST 2200EST			0	0	0	0	Flash Flood
The 24 Hour Warning Point reported that water covered roads near Wolf Creek.									

Storm Data and Unusual Weather Phenomena

January 2002

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

KENTUCKY, Eastern

Mccreary County

3 E Pine Knot	24	1900EST 2200EST			0	0	0	0	Flash Flood
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Water was covering and flowing over Kentucky highway 1470.

Knox County

10 NE Barbourville	24	1903EST 2200EST			0	0	0	0	Flash Flood
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Water covered Kentucky highway 11, 229, and other side roads in the immediate area.

Leslie County

4 E Hyden	24	1907EST 2200EST			0	0	0	0	Flash Flood
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Water was over Cutshin Road and was reported by the 24 Hour Warning Point.

Bell County

9 NW Pineville	24	1925EST 2200EST			0	0	0	0	Flash Flood
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The 24 Hour Warning Point reported that water covered Kentucky highway 92.

Leslie County

5 E Hyden	24	1946EST 2200EST			0	0	0	0	Heavy Rain
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The 24 Hour Warning Point reported that a mudslide was triggered on Wooten Road.

Clay County

1 S Garrard	24	2000EST 2200EST			0	0	0	0	Flash Flood
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Chop Bottom Road and bridges nearby had water flowing over them.

Letcher County

Kings Creek	24	2100EST			0	0	10K	0	Heavy Rain
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A home under construction at Ratcliff Branch was knocked off of its foundation from a mudslide.

Pike County

3 N Zebulon	24	2200EST			0	0	0	0	Urban/Sml Stream Fld
	25	0200EST							

Lower Johns Creek was out of its banks, and was flooding fields and low lying area.

Letcher County

Tillie	24	2230EST			0	0	0	0	Flash Flood
	25	0030EST							

Sections of Kentucky highway 1811 were under water.

KENTUCKY, Northeast

KYZ102

Carter									
	06	0700EST			0	0			Heavy Snow
	07	0700EST							

Snow accumulated 3 to 6 inches across Carter County.

KYZ101-103-105

Greenup - Boyd - Lawrence									
	06	0700EST			0	0			Snow
	07	0700EST							

Snow depths of 2 to 4 inches occurred.

KYZ101>103-105

Greenup - Carter - Boyd - Lawrence									
	19	0400EST			0	0			Heavy Snow
		1000EST							

A quick 5 to 8 inches of snow accumulation was common. Grayson and Charley both measured 7 inches. Carter Caves had 6 inches. Luckily, the snow fell on a Saturday morning, when travel was light. Hardware, grocery, and convenience stores got an economic boost from the snow, as people flocked to buy food, road salt, and bird seed.

KYZ101>103-105

Greenup - Carter - Boyd - Lawrence									
	28	1000EST			0	0			Record Warmth
		1800EST							

Afternoon temperatures reached into the lower 70s.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
McLean County									
.5 NW Calhoun to .5 NE Calhoun	23	2227CST 2230CST	1.8	500	0	0	1M		Tornado (F2)
<p>Top wind speeds in this F-2 tornado were estimated near 120 MPH. The damage path extended from the extreme northwest side of Calhoun to the extreme northeast side of town. A total of about 53 buildings were damaged or destroyed, of which 43 were homes and 10 were businesses. At least one home and one business was destroyed, 5 houses received major damage, and 4 businesses including a church and daycare center received major damage. The business that was destroyed was a TV antenna/satellite service on Kentucky Highway 81 at the northern city limit of Calhoun. Most of the remainder of the structures received minor damage. In addition to the damaged homes and businesses, barns, grain bins, and at least one shed were destroyed. At the city-owned cemetery, 300 to 350 tombstones were overturned, and 50 trees were uprooted.</p>									
Livingston County									
Burna	23	2351CST			0	0			Hail (0.75)
Fulton County									
Brownsville to 1 N Fulton	23	2356CST			0	0	4K		Thunderstorm Wind (G55)
<p>Near Brownsville, a trailer was blown over, and the windows of a shed were broken. Just north of Fulton, the porch was blown off a trailer.</p>									
Livingston County									
4 NW Iuka	24	0000CST 0001CST			0	3	75K		Thunderstorm Wind (G78)
<p>A site survey was conducted by National Weather Service meteorologists. It was determined that straight-line winds near 90 MPH affected a small rural area near the intersection of Highway 866 and Country Road. The damage area was about one-half mile long and 500 yards wide. Two mobile homes were moved off their foundations and damaged, and one of those was deroofed. The front porch of a house was destroyed. Shingles were blown off a church and three houses. Two outdoor antennas were bent or destroyed. Ten to 15 trees were blown over, and 5 to 10 tombstones were blown over. Three persons received very minor injuries, such as cuts and scrapes.</p>									
Crittenden County									
.5 NE Marion to Mattoon	24	0010CST			0	0			Thunderstorm Wind (G50)
<p>Trees were blown down northeast of Marion up to Mattoon.</p>									
Lyon County									
Central Portion	24	0015CST			0	0			Thunderstorm Wind (G50)
<p>Highway department officials reported a couple of trees were down on Jack Thompson Road.</p>									
Graves County									
Wingo	24	0017CST			0	0			Thunderstorm Wind (G50)
<p>A state police dispatcher reported trees blown down at the Wingo exit of the Purchase Parkway.</p>									
Caldwell County									
4 NNE Princeton	24	0020CST			0	0	40K		Thunderstorm Wind (G65)
<p>Five residences, two barns, and other outbuildings were damaged. One home lost part of its roof and the entire back porch, which was blown onto the highway. Most of the damage was in the vicinity of Kentucky 293 and Briarfield Road.</p>									
Trigg County									
Cadiz	24	0030CST			0	0	5K		Thunderstorm Wind (G50)
<p>In downtown Cadiz, winds ripped a metal awning off the front of a store. Numerous trees were down in the Muddy Fork Creek area, leaving about 200 homes without power.</p>									
Marshall County									
Aurora	24	0034CST			0	0			Thunderstorm Wind (G50)
<p>Highway department officials reported two trees were down over a road.</p>									
Hopkins County									
Nortonville to White Plains	24	0043CST 0048CST			0	0			Thunderstorm Wind (G50)
<p>Several trees were down about a mile from Nortonville and at White Plains.</p>									
Calloway County									
Countywide	24	0056CST			0	0	5K		Thunderstorm Wind (G50)
<p>Trees and power lines were reported down in the county.</p>									

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Muhlenberg County									
Greenville	24	0115CST			0	0			Hail (0.75)
Todd County									
Elkton	24	0135CST			0	0	4K		Thunderstorm Wind (G50)
Large tree limbs were blown down, and shingles were blown off several houses. A television antenna was blown down, knocking a hole in a roof.									
Christian County									
9 E Hopkinsville	24	0145CST			0	0	1K		Thunderstorm Wind (G50)
Fort Campbell weather personnel reported several trees down along Route 68 just west of the Todd County line.									
KYZ022									
Todd									
	24	0200CST 0730CST			0	0			Flood
Water was reported over the Highway 68/80 bypass near Elkton. A bridge on Stokes Chapel Road was underwater.									
KYZ021									
Muhlenberg									
	25	0400CST			0	0			Flood
	29	1200CST							
The Green River rose above the 380-foot flood stage at Paradise on January 25. The crest of 384.19 feet occurred on January 27. Minor flooding of lowlands occurred. The river was back within its banks by January 30.									
McCracken County									
Countywide	31	2024CST 2300CST			0	0			Flash Flood
Graves County									
Countywide	31	2041CST 2300CST			0	0			Flash Flood
Hickman County									
East Central Portion	31	2041CST 2300CST			0	0			Flash Flood
Carlisle County									
Countywide	31	2100CST 2220CST			0	0			Flash Flood
In McCracken County, numerous creeks rose out of their banks, inundating a few roadways. The intersection of Kentucky Highway 1322 and Gum Springs Road was blocked by rushing floodwater. Kentucky Highway 994 was blocked by floodwaters from Champion Creek. Street flooding in the typical problem areas occurred in the city of Paducah. At the Carlisle/Hickman County line, Kentucky Highway 80 was closed by flooding. In Graves County, Kentucky Highway 58 was flooded west of Wingo, and at least two streets were closed in Mayfield. In Carlisle County, County Road 1031 near Cunningham and County Road 1127 near Milburn were closed. The flooding was caused by a large area of moderate rain falling on ground that was moist from heavy rain a week earlier. Rainfall at Paducah on January 31 totalled 2.50 inches.									
<u>LOUISIANA, Northeast</u>									
Morehouse Parish									
Countywide	24	1130CST 1230CST			0	0	1K		Flash Flood
Several secondary roads were flooded. U.S 165 near Bonita had water covering it in different spots.									
<u>LOUISIANA, Northwest</u>									
Lincoln Parish									
Vienna	24	1245CST			0	0			Flash Flood
Highway 3072 was closed due to excessively high water.									
Lincoln Parish									
5 W Ruston	24	1300CST			0	0			Flash Flood
Highway 3005 was closed south of US 80 due to flooding.									
Union Parish									
Marion	24	1300CST			0	0			Flash Flood
LA Highway 551 was closed due to high water.									

Storm Data and Unusual Weather Phenomena

January 2002

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

Jackson Parish

Vernon

24	1330CST				0	0			Flash Flood
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Riser road was closed due to flooding.

Lincoln Parish

Ruston

24	1330CST				0	0			Flash Flood
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Water accumulated to knee deep in many locations.

Lincoln Parish

Grambling

24	1700CST				0	0	20K		Flash Flood
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Between 4 and 5 inches of rain fell in 1 hour flooding Woodson Hall of Grambling State University. Little other damage was noted.

Jackson Parish

Ansley

24	2020CST				0	0			Flash Flood
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Hwy 167 was flooded due to excessively high water.

LOUISIANA, Southeast

LAZ034>040-046>048-050 Pointe Coupee - West Feliciana - East Feliciana - St. Helena - Tangipahoa - Washington - St. Tammany - Iberville - West Baton Rouge - East Baton Rouge - Livingston

01	1500CST				0	0			Winter Storm
02	0500CST								

A mixture of rain and sleet began to fall during the afternoon of January 1st over some areas of southeast Louisiana to the north and west of Lake Pontchartrain before changing to a mix of snow and sleet during the evening hours. Snow continued to fall through the night until daybreak on the 2nd in an area extending from Washington and northern St. Tammany parishes west to Pointe Coupee and Iberville parishes. In this area one-half to two inches of snow accumulated resulting in automobile accidents on icy roadways and the closing of some bridges.

LOUISIANA, Southwest

NONE REPORTED.

MAINE, North

MEZ006-010>011-016-031 Southeast Aroostook - Central Piscataquis - Central Penobscot - Interior Hancock - Southern Piscataquis

06	2200EST				0	0			Winter Storm
07	0800EST								

Low pressure lifting northward along the coast brought 5 to 8 inches of snow to the region.

MEZ001>006-010>011-015>017-029>032 Northwest Aroostook - Northeast Aroostook - Northern Somerset - Northern Piscataquis - Northern Penobscot - Southeast Aroostook - Central Piscataquis - Central Penobscot - Southern Penobscot - Interior Hancock - Central Washington - Coastal Hancock - Coastal Washington - Southern Piscataquis - Northern Washington

13	0900EST				1	0			Winter Storm
14	0400EST								

Low pressure organizing along the Mid-Atlantic coast during Saturday the 12th rapidly intensified while lifting through the Gulf of Maine to Nova Scotia from the 13th into the early morning hours of the 14th.

Precipitation overspread the region early on the 13th. Across northern areas...precipitation remained snow through the entire event. Across Downeast areas...precipitation started as rain or mixed precipitation then changed to snow during the afternoon. Snowfall rates of up to 2 to 4 inches per hour and thunder snow were reported across portions of the region during the afternoon and evening of the 13th. The heaviest snow totals occurred across east-central portions of the region where 12 to 20 inches of snow...with locally higher accumulations...occurred. Elsewhere across the region...snow totals generally ranged from 6 to 12 inches...with the lesser accumulations across the extreme north and along the immediate coast. Strong winds in the wake of the storm produced widespread blowing and drifting snow regionwide.

The combination of strong winds and heavy wet snow brought down many trees...branches and power lines across central and Downeast areas which contributed to widespread power outages there. At times...tens of thousands of people were without power during the storm. Some areas did not have power fully restored until the following Thursday.

In southeast Aroostook county...a disabled individual fell in his driveway during the storm and died of hypothermia after not being able to regain his feet. M53OU

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MAINE, North</u>									
MEZ010>011-015>017-029>031			Central Piscataquis - Central Penobscot - Southern Penobscot - Interior Hancock - Central Washington - Coastal Hancock - Coastal Washington - Southern Piscataquis						
		15	1000EST		0	0			Winter Storm
		16	0700EST						
		A trof axis extending from low pressure across the Gulf of Maine to a second low crossing New England provided a focus for 7 to 12 inches of snow across the region.							
MEZ005>006-010>011-016>017-032			Northern Penobscot - Southeast Aroostook - Central Piscataquis - Central Penobscot - Interior Hancock - Central Washington - Northern Washington						
		24	1100EST		0	0			Winter Storm
		25	0300EST						
		Intensifying low pressure tracking eastward through the Gulf of Maine brought 5 to 9 inches of snow to the region.							
<u>MAINE, South</u>									
MEZ007>008-012>014-020			Northern Oxford - Northern Franklin - Southern Oxford - Southern Franklin - Southern Somerset - Androscoggin						
		06	2200EST		0	0			Heavy Snow
		07	0700EST						
MEZ009-019-021			Central Somerset - Interior Cumberland - Kennebec						
		06	2200EST		0	0			Moderate Snowfall
		07	0700EST						
		A large area of low pressure over the southeastern states on the morning of the 6th moved northeastward along the coast to over Nova Scotia by the morning of the 7th. The storm brought 4 to 8 inches of snow to the western Maine mountains and foothills with lesser amounts south and east of the mountains. Along the coast, only 1 to 2 inches of snow fell.							
MEZ007>009-012>013-019>020			Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Interior Cumberland - Androscoggin						
		13	0700EST		0	0			Heavy Snow
			1900EST						
MEZ014-021>022-024>028			Southern Somerset - Kennebec - Interior Waldo - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo						
		13	0700EST		0	0			Winter Storm
			1900EST						
MEZ018			Interior York						
		13	0700EST		0	0			Moderate Snowfall
			1900EST						
		Low pressure moving through southeastern Canada and a developing low off the New England coast brought a mixture of precipitation to the state. In the mountains, western foothills, and parts of the interior, from 4 to 8 inches of snow fell. Along the coast, rain changed to wet snow during the day as winds increased. The combined effects of the heavy, wet snow and wind reduced visibilities, caused many accidents, and downed numerous branches and trees in the midcoast area. The branches and trees fell on power lines and caused widespread power outages. About 60,000 homes and businesses lost electrical service during the storm. Due to the extensive damage from the storm, some homes were without power for up to 5 days.							
MEZ008>009-013>014-021>022			Northern Franklin - Central Somerset - Southern Franklin - Southern Somerset - Kennebec - Interior Waldo						
		15	1900EST		0	0			Moderate Snowfall
		16	0700EST						
		Low pressure moving through the Great Lakes and a second low moving northeast off the Mid-Atlantic coast brought a moderate snowfall to the mountains, foothills, and interior sections of central Maine where 4 to 6 inches of snow fell.							
MEZ018>028			Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo						
		30	0500EST		0	0			Freezing Rain
			1100EST						
		A weak low pressure system moving along a stationary front brought a mixture of precipitation to the state. Rain changed to freezing rain along the coast and interior as cold filtered into the area. The freezing rain caused roads and sidewalks to become slippery.							
MEZ007>008-012-018>020-023>025			Northern Oxford - Northern Franklin - Southern Oxford - Interior York - Interior Cumberland - Androscoggin - Coastal York - Coastal Cumberland - Sagadahoc						
		31	1400EST		0	0			Heavy Snow
			2359EST						

Storm Data and Unusual Weather Phenomena

January 2002

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

MEZ009-013>014-021>022-026>028

Central Somerset - Southern Franklin - Southern Somerset - Kennebec - Interior Waldo - Lincoln - Knox - Coastal Waldo

31	1400EST 2359EST				0	0			Moderate Snowfall
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Low pressure moving east from the upper Ohio Valley and a second low that formed off the New England coast brought moderate to heavy snow to the area. The snow continued until mid-day on Feb. 1. In general, from 2 to 8 inches of snow fell with the greatest amounts occurring in the western mountains and in the southwestern part of the state.

MARYLAND, Central

MDZ016-018

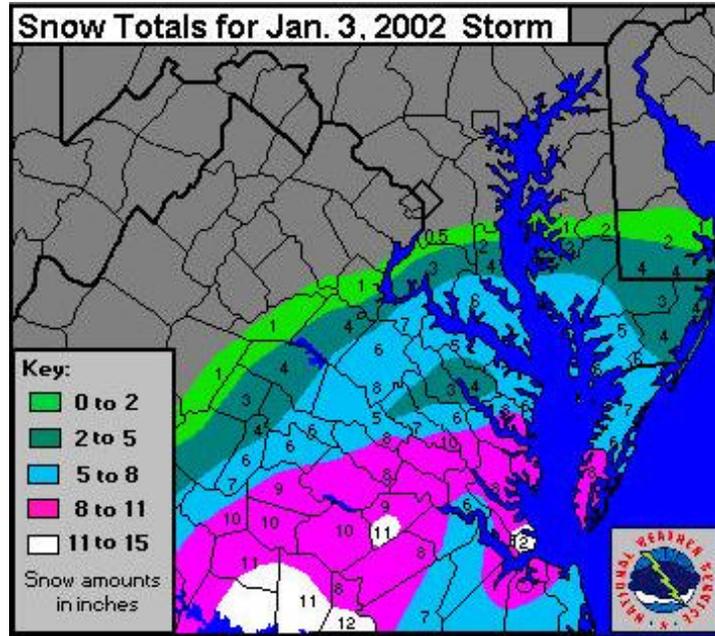
Charles - Calvert

03	0500EST 1500EST				0	0			Winter Weather
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MDZ017

St. Mary'S

03	0500EST 1500EST				0	0			Winter Storm
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Low pressure tracked across extreme southeast Virginia during the morning of the 3rd. This storm brought light to moderate snowfall to Southern Maryland between 5 AM and 3 PM. Because the ground was very cold, the snow stuck to area roads and caused hazardous driving conditions during the morning commute. Schools were also closed across the region. In Charles County, snowfall amounts ranged from 1 to 3 inches with the heaviest amounts in the extreme southern portion of the county. On Route 5 north of Hugessville, a 15 car pileup occurred at the Route 488 stoplight. In Calvert County, 1 to 4 inches of snow was recorded with the heaviest amounts falling across the southern portion. In St. Mary's County, snowfall amounts ranged from 2.5 inches in the northern portion to 6.5 inches in the southern tip.

MDZ002>003

Allegheny - Washington

06	1200EST 2100EST				0	0			Winter Storm
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MDZ004>006-009-011

Frederick - Carroll - Northern Baltimore - Montgomery - Southern Baltimore

06	1200EST 2100EST				0	0			Winter Weather
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Low pressure moved from the Gulf Coast through the Eastern Seaboard on the 6th and brought a mixed bag of precipitation to the region. From Washington County west, the precipitation fell mainly in the form of snow with a period of sleet and freezing rain at the onset. Elsewhere, a mix of rain, freezing rain, and sleet changed over to snow and sleet late in the day. In Allegheny County, 4 to 6 inches of snow and sleet accumulated. In Washington County, 2 to 5 inches was recorded. In Frederick County, 2 to 5 inches fell. In Carroll County, 1 to 4.5 inches accumulated. Nearly 50 traffic accidents were attributed to the weather. In Montgomery County, a trace to 2 inches of snow and sleet fell. In Baltimore County, a trace to 2 inches was reported. Some locations also reported a thin layer of ice accumulation.

Storm Data and Unusual Weather Phenomena

January 2002

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

MDZ005>007-009>011 **Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore**
09 0600EST **0** **0** **Winter Weather**
0800EST

Light drizzle measuring three hundredths of an inch or less fell from low clouds between 6 and 7 AM on the 9th. Temperatures on roads were below freezing so the drizzle froze on impact. This created slippery driving conditions during the morning commute and several accidents were reported. In Carroll County, 50 traffic accidents occurred, including 5 which involved school buses. A 47-year-old man who was directing traffic in his Eldersburg neighborhood was struck and killed by a skidding car. In Baltimore County, more than 270 accidents occurred in the western portion of the area, mainly along Interstates 83, 695, and 795. Portions of these roads were closed until salt trucks could arrive. In Harford County, spotty icing was reported in Fallston. In Howard County, officials reported 148 traffic accidents and 21 related injuries. Three school buses were involved in accidents. Routes 32 and 175 were temporarily closed by icy conditions. In Montgomery County, a 15-year-old girl who was crossing a 4-lane highway in front of Northwest High School was struck and killed by a car that was unable to stop on the slippery road. County police responded to 240 traffic accidents between 6:45 and 10 AM, including 40 that involved school buses. A Rockville hospital treated 145 people for slip and fall injuries and a Bethesda hospital treated 50 people. A 20 car pileup was reported on Rockville Pike, and two separate 10 car pileups occurred on Old Baltimore Road and Georgia Avenue. Several roads were temporarily closed by the icy conditions.

MDZ002>005-009>010-013>014-016>018 **Allegany - Washington - Frederick - Carroll - Montgomery - Howard - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

19 0800EST **0** **0** **Winter Weather**
2300EST

MDZ006>007-011 **Northern Baltimore - Harford - Southern Baltimore**
19 0800EST **0** **0** **Winter Storm**
2300EST

Low pressure that moved across Northern Carolina on the 19th brought mixed precipitation to the region between 6 AM and 11 PM. In most locations, the precipitation started off in the form of snow, then changed to a mix of sleet and rain around midday. In Harford County, 4 to 5 inches of snow and sleet accumulated. In Frederick and Charles Counties, about 4 inches was reported. In Baltimore County, 3 to 5 inches fell. In Carroll, Howard, and Montgomery Counties, 3 to 4 inches was recorded. Carroll County officials reported four serious traffic accidents related to the weather. In Howard County, a serious weather-related traffic accident occurred at the intersection of the Baltimore-Washington Parkway and Route 32. In Allegany and Washington Counties, 2 to 4 inches was reported. In Prince George's County, 2 to 5 inches fell. In Anne Arundel County, 1 to 4 inches was reported. In Calvert and St. Mary's Counties, 1 to 2 inches accumulated.

MARYLAND, Northeast

MDZ008-012-015-019>020 **Cecil - Kent - Queen Annes - Talbot - Caroline**
01 0000EST **0** **0** **0** **0** **Drought**
31 2359EST

January 2002 continued the dry pattern that established during the second half of 2001 in Maryland. While January was the wettest month for the state since September, it was still drier than normal. On a county weighted average, monthly precipitation totals ranged from 2.2 inches in Queen Anne's County to 2.8 inches in Cecil County. Normal is around 3.3 inches. The Eastern Shore has received only 41 percent of normal precipitation since September 1st. Stream flows and groundwater levels were even lower than they were in December. There has also been an increase in demand for deeper wells to be drilled as private wells were going dry. The continued dry conditions forced the Maryland Department of the Environment to upgrade the drought watch to a drought warning for the Maryland Eastern Shore on January 24th. The Susquehanna River Basin Commission also declared a drought warning and called for a 10 to 15 percent reduction in usage. The reduced flow in the Susquehanna River also makes saltwater intrude farther upstream from Chesapeake Bay into the river. This was exacerbated by the city of Baltimore which started drawing water from the river. The Maryland Department of the Environment requested large water utilities to audit their water use and develop a water conservation plan if their losses exceed 10 percent of the total water use. No formal water restrictions were in place, but water conservation continued to be emphasized.

MDZ019>020 **Talbot - Caroline**
03 0400EST **0** **0** **Snow**
1400EST

Caroline and Talbot Counties were on the northern precipitation shield of a snowstorm that affected most of the southern Middle Atlantic States. Snow began falling before dawn on the 3rd and continued into the early afternoon. Accumulations ranged from just a trace in the northern parts to around 2 inches in the southern parts of the counties. In Talbot County, schools were closed for the day. In Caroline County, the children were dismissed two hours early. Specific accumulations included 2 inches in Trappe and Federalsburg, 0.8 inches in Easton and a trace in Denton. The low pressure system responsible for the snow developed in the Gulf of Mexico the night of the 1st. It moved across central Florida during the daylight hours on the 2nd and passed well east of Cape Hatteras on the 3rd. The system's storm track was too far to the southeast to bring heavy snow into the middle and upper Delmarva Peninsula.

Storm Data and Unusual Weather Phenomena

January 2002

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

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

13	0700EST				0	0			Wind
	1700EST								

A strong cold front moved through the state around daybreak on the 13th. As its associated low pressure system intensified quickly as it moved into the Canadian Maritimes, northwest winds increased and peak wind gusts reached between 40 to 45 mph in most places.

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

19	0900EST				0	0			Wintry Mix
20	0000EST								

A weak low pressure system that moved through the Gulf Coast States and exited quickly off the North Carolina coast had sufficient moisture and came close enough to the peninsula to give the region a wintry mix of snow, sleet and rain for most of the 19th. Snow began falling during the morning of the 19th. As the low pressure system came closer and warmer air moved in, precipitation mixed with and then changed to rain across southern areas of the Delmarva Peninsula during the mid and late afternoon hours. The changeover took longer across Kent and Cecil Counties where temperatures were cold enough for freezing rain. As the low pulled offshore, precipitation changed back to snow throughout the area during the evening and ended around midnight. Cecil County accumulated half the snow from the event between 10 p.m. and midnight EST. Accumulations ranged from 1.5 to 4.0 inches with the heaviest amounts in Cecil County. Bridges and shady areas became very treacherous, especially in the upper peninsula. Maryland State Route 272 was particularly treacherous, especially the bridge over the Baltimore and Ohio railroad near North East (Cecil County). A tractor trailer slid into vehicles on the bridge and several other vehicles were spinning out of control.

Specific accumulations included 4 inches in Elkton (Cecil County), 3.8 inches in Stevensville (Queen Anne's County), 3.5 inches at the Conowingo Dam (Cecil County), 3.0 inches in Chestertown (Kent County), 2 inches in Easton (Talbot County) and Centreville (Queen Anne's County) and 1.5 inches in Denton (Caroline County).

The low pressure system responsible for the wintry mix developed in the Gulf Coast States during the evening of the 18th. By the morning of the 19th, it was located in northern Mississippi. At 11 a.m. EST the primary low moved into Tennessee as a secondary formed near Wilmington, North Carolina. At 5 p.m. EST it moved to just east of Elizabeth City, North Carolina and then accelerated to a position south of Cape Cod at midnight EST on the 20th.

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

27	1200EST				0	0	0	0	Unseasonably Warm
30	1800EST								

A strong ridge of high pressure at the surface and higher levels of our atmosphere brought unseasonably warm air into Maryland from January 27th through the 30th. This cemented another unseasonably warm and dry month across the region. High temperatures on the 27th and 28th were in the 60s and rose into the record breaking 70s on both the 29th and 30th. A cold front dropped through the state late in the day on the 30th and lowered temperatures closer to seasonable levels on the 31st. Highest temperatures included 77 degrees in Easton (Talbot County), 72 degrees at the Baltimore-Washington International Airport, 71 degrees in Salisbury and 70 degrees in Stevensville (Queen Anne's County). The monthly mean temperature of 39.1 degrees at the Baltimore-Washington International Airport was 6.8 degrees warmer than normal.

MARYLAND, South

MDZ021>025 Dorchester - Wicomico - Somerset - Inland Worcester - Maryland Beaches

03	0430EST				0	0			Winter Storm
	1500EST								

A winter storm produced 3 to 6 inches of snow across the Lower Maryland Eastern Shore. Some specific higher snow totals included: Crisfield in Somerset county 6.0", Dorchester county 5-6", Pocomoke City in Worcester county 6.0", Wicomico county 3-5", Snow Hill in Worcester county 4.0", and Ocean City in Worcester county 3-4". Local law enforcement agencies reported numerous accidents. Many schools in the area were closed Thursday, January 3rd and Friday, January 4th due to very slippery road conditions.

Somerset County

**Deal Is to
Chance**

06	1602EST	1	100	0	0	20K		Tornado (F0)
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A small tornado tracked from Deal Island northeast to Chance in Somerset county. One mobile home was destroyed and another one was moved off its foundation. Also, several sailboats were knocked over and some pine trees were snapped in half.

MARYLAND, West

MDZ001 Garrett

06	1800EST				0	0			Heavy Snow
07	0700EST								

A winter storm spread heavy snow across sections of extreme western Maryland. The snow started falling during the early morning

Storm Data and Unusual Weather Phenomena

January 2002

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

hours of the 6th, with several inches accumulating by midday. The snow finally tapered to flurries by the early morning hours on the 7th. Final snowfall totals across the county ranged from 6 to 10 inches, with the highest accumulations found at higher elevations.

MDZ001

Garrett

19	2000EST								
	2300EST				0	0			Heavy Snow

An area of low pressure passing just to the south of the region spread between 5-6 inches of snow across Garrett County. Snow started falling by around dawn on the 19th and tapered to flurries by the late evening hours.

MASSACHUSETTS, Central and East

MAZ002>003-008

Western Franklin - Eastern Franklin - Western Hampshire

06	2100EST								
	07 0400EST				0	0			Heavy Snow

Low pressure moving from the Carolinas to southeast New England brought heavy snow to the higher terrain of Franklin and western Hampshire Counties. Snowfall totals ranged from 6 to 8 inches.

MASSACHUSETTS, West

MAZ001

Berkshire

06	2300EST								
	07 1500EST				0	0			Winter Storm

A compact low pressure area developed across the Gulf States on Sunday January 6th. This storm loaded up with Gulf of Mexico moisture then swiftly tracked up along the Atlantic seaboard, and was already in the Gulf of Maine by Monday morning. The upper level support to this system moved across the region during the day Monday and brought another round of lighter snow. The two systems brought a 6-12 inch swath of snow to northern Berkshire County, while areas to the south of Interstate 90 had less than 7 inches. 8.3 inches of snowfall accumulated at Savoy. No serious problems were reported from Berkshire County to the National Weather Service regarding this storm.

MICHIGAN, East

MIZ047>049-053>055-060>063-068>070-075>076

Midland - Bay - Huron - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb - Washtenaw - Wayne

30	0800EST								
	31 1300EST				0	0			Winter Storm

MIZ075>076-082>083

Washtenaw - Wayne - Lenawee - Monroe

30	2000EST								
	31 2300EST				0	2	820K		Ice Storm

The prolonged period of winter weather across southeast Michigan from January 30th to February 1st was the result of a series of low pressure systems that developed in Texas and moved northeastward along an arctic frontal boundary. During the morning of the 30th, the arctic front extended from central Texas to the southern Ohio River valley. A narrow band of heavy snow, associated with the frontal boundary, fell along the I-94 corridor from Ann Arbor to Detroit from the morning of the 30th through the early evening hours. The snowfall diminished during the early evening hours of the 30th. However, a low pressure system moved northeast along the arctic frontal boundary that same evening and moved into central Indiana and northern Ohio by the morning of the 31st. This system allowed precipitation to quickly develop across southeast Michigan late in the evening on the 30th. The precipitation began as snow, and then changed over to freezing rain south of I-96 as warm air moved over the colder air near the surface. The heaviest freezing rain fell along and south of a line from Ann Arbor to Detroit, with precipitation being mostly in the form of snow to the north. Precipitation gradually tapered to light freezing rain and freezing drizzle late in the morning of the 31st across all of southeast Michigan as the low moved east of the state.

Another low pressure system moved northeast along the frontal boundary during the evening of the 31st. This low pressure system traveled farther north and was thus associated with some warmer air. Freezing rain redeveloped during the evening of the 31st across all of southeast Michigan, and again was heaviest along and south of a Detroit to Ann Arbor line. The low pressure system strengthened as it moved into the southern Great Lakes early in the morning of February 1st. Thus enough warm air was moved northward to change the precipitation over to all rain shortly after midnight on the 1st. The strong low pressure system also caused high winds to develop later in the morning of the 1st (see February Storm Data for more details).

From the time the snowfall began on the morning of the 30th, until it changed over to freezing rain during the morning of the 31st, snowfall totals ranged from 7 to 11 inches across much of Wayne and Washtenaw counties, with as much as 12 inches reported in the cities of Ann Arbor and Dearborn Heights. After the snow had changed over to freezing rain, one quarter to one half of an inch of ice had accumulated onto trees and power lines by the evening of the 31st. Snowfall amounted to only 2 to 4 inches across Lenawee and Monroe counties before changing over to freezing rain. Around a half an inch of ice accumulated onto trees, power lines, and untreated surfaces by the afternoon of the 31st in these counties. The rest of southeast Michigan, mainly north of I-96, saw the heaviest precipitation fall in the form of snow. Snowfall amounts ranged from 5 to 9 inches across this area, with as much as 10 to 11 inches reported around Flint, Owosso, and Lapeer.

Storm Data and Unusual Weather Phenomena

January 2002

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

Most of the damage from this prolonged winter storm occurred in Washtenaw, Wayne, Lenawee, and Monroe counties due to the higher accumulations of ice. The weight of the snow and ice on trees caused hundreds of tree limbs to break and even uprooted a few large trees. This did damage to dozens of homes and automobiles. The weight of the snow and ice led to the collapse of the roof at Checker's Sav-more Drugs in Westland. Only two people were in the store at the time, and both escaped uninjured. In Salem Township, the metal roof of the Gardner Wescott manufacturing plant also caved in due to the weight of the snow and ice. Noone was inside the plant at the time of the collapse. A girl (age unknown) was struck by a falling tree branch in Detroit and sent to the hospital with minor head injuries. A woman in Ypsilanti was also injured when a tree limb fell and broke her leg. The accumulation of snow and ice on the roads and highways led to dozens of accidents across southeast Michigan. Flooded roadways also led to traffic problems across portions of metro Detroit as storm drains became blocked with snow and ice. At least 5 fatal traffic accidents occurred across southeast Michigan during the two days of winter weather. A man died in Saginaw's Taymouth Township when his pickup truck slid into a creek. Another fatality occurred in Macomb's Shelby Township when a woman and her vehicle spun out of control and hit a pickup truck. One woman was struck and killed when she stepped out of her car to assist a troubled motorist in Washtenaw county. A man in Monroe county was also struck and killed when he stepped out of his disabled car on US-23. At least one other fatal traffic accident also occurred during this storm. Several people were also treated for heart attacks after shoveling heavy snow. Falling tree branches and the weight of the ice downed hundreds of power lines and left an estimated 290 thousand residents and businesses without power, some of which had to wait several days for power to be restored. Most of the power outages occurred in the metro Detroit area, as well as across Washtenaw, Lenawee, and Monroe counties. The heavy snowfall was enough to prompt dozens of communities in the metro Detroit area to declare snow emergencies, and closed almost all school districts.

MICHIGAN, Extreme Southwest

MIZ078

Cass

30	0700EST	0	0	0	Heavy Snow
31	0200EST				

A HAM operator in Cassopolis reported 11 inches of snow during the day of the 30th through the night until the snow changed to freezing rain early on the 31st.

MIZ077>081

Berrien - Cass - St. Joseph - Branch - Hillsdale

31	0300EST	0	0	0	Ice Storm
	1800EST				

The first major winter storm of the season brought an ice storm to much of Southwest Lower Michigan, Northern Indiana, and extreme Northwest Ohio with ice accumulations from one quarter to over one half inch on trees and power lines, with more than one and one half inch ice accumulation in some locations. Roads were ice covered mainly along and north of the Indiana and Michigan state line. Over 250,000 homes were without power at some point during the storm with widespread trees and power lines down. AEP electric reported the most outages ever for the Michiana region, surpassing any previous severe weather event. Some customers did not have power restored for over 3 days. Several communities issued state of emergencies for over 48 hours, with the Red Cross and local churches opening several shelters. Despite the widespread icing, actual property damage was limited to minor vehicle damage.

MICHIGAN, North

MIZ018-024

Presque Isle - Alpena

14	1600EST	0	0	0	Heavy Snow
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A low pressure system that moved across central Lower Michigan on the 14th brought widespread accumulating snows to northern Michigan. The accumulations were enhanced by Lake Huron across a small portion of northeast Lower Michigan, with snowfall totals of 5 to 6 inches in this area.

MIZ027

Kalkaska

17	2000EST	0	0	0	Heavy Snow
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Lake effect snow off Lake Michigan provided locally high snow accumulations across Kalkaska County. A maximum snowfall total of 9.5 inches in 12 hours was reported in a portion of the county.

MIZ022

Otsego

18	0800EST	0	0	0	Heavy Snow
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Lake effect snow off Lake Michigan brought locally heavy snow to a portion of Otsego County. A maximum snowfall total of 7.2 inches in 12 hours was reported across a small portion of the county.

MICHIGAN, Upper

MIZ006>007-014

Alger - Luce - Schoolcraft

01	0001EST	0	0	0	Heavy Snow
	1300EST				

A trough of low pressure that swung across Lake Superior and Upper Michigan caused lake effect snow showers to form over Alger, Luce and northern Schoolcraft counties on New Year's. Twenty-four hour snow accumulations included 13 inches in McMillan and Seney, 14 inches at Shingleton, and 18 inches in Au Train.

Storm Data and Unusual Weather Phenomena

January 2002

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

MICHIGAN, Upper

MIZ002-009

Ontonagon - Gogebic

05 2000EST
06 1800EST

0 0

Heavy Snow

Cold arctic air pouring across Lake Superior on northwest winds set up bands of heavy lake effect snow over western Upper Michigan. The bands were most persistent over Gogebic and Ontonagon counties. Ironwood reported 11 inches of snowfall, Bessemer received 12 inches, and 9 inches accumulated in Rockland.

MIZ012

Menominee

14 0400EST
1130EST

0 0

Heavy Snow

As low pressure moved across the southern great lakes states, east winds off Lake Michigan enhanced snowfall over southern Menominee county. Eight inches of new snow was reported in and around the city of Menominee.

MIZ002>003-006

Ontonagon - Houghton - Alger

16 1600EST
18 1000EST

0 0

Heavy Snow

Northwest winds behind a low pressure trough pushed cold Canadian air across Lake Superior and set up bands of lake effect snow over the western upper peninsula of Michigan. The most persistent bands were over Ontonagon and Houghton counties, but as the wind shifted to the northeast, Alger county also received heavy lake effect snow showers. Snowfall reports included 8 inches in Rockland, 10 inches in Pelkie and 8 inches in Shingleton.

MIZ001

Keweenaw

28 1600EST
29 0500EST

0 0

Heavy Snow

Another outbreak of cold Canadian air flowing across Lake Superior created lake effect snow showers. The heaviest snowfall occurred over the high terrain of the Keweenaw Peninsula. Mohawk and Phoenix reported 8 to 10 inches of snow in 12 hours.

MICHIGAN, West

MIZ037-043-056-064

Mason - Oceana - Ottawa - Allegan

16 1000EST
2300EST

0 0

Winter Storm

Low pressure developed in Colorado on January 15th and moved quickly northeast to near Chicago by the late afternoon hours of the 16th. Two areas of moderate to heavy snow developed across the counties along the Lake Michigan shore. A small area of 6 inches of snow fell over southwest Ottawa and northwest Allegan counties. The second area of heavy snow developed over southwest Mason county, south of Ludington, which extended across most of western Oceana county. All of these areas received at least 6 inches of snow. The highest snowfall total was received from Little Sable Point (Oceana county) where 8.5" of snow was reported.

Across the remainder of the area, snowfall totals of 3 to 5 inches were reported near and west of US-131, and around two to three and a half inches of snow was reported across south central lower Michigan.

MIZ044>046-050>052-056>059-064>067-071>074

Newaygo - Mecosta - Isabella - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson

30 0400EST
31 0900EST

0 0

Winter Storm

A stationary front set up to the south of lower Michigan, setting the stage for a prolonged overrunning precipitation event for southern lower Michigan on the 30th and 31st. Anywhere from eight to as much as thirteen inches of snow fell across the area, and freezing rain fell in Jackson county as low pressure moved into lower Michigan. Precipitation across the remainder of the area fell in the form of snow.

The heaviest snow fell in a band from roughly Kalamazoo (Kalamazoo county) east northeast to Lansing (Ingham county), where twelve to thirteen inches of snow was reported.

MINNESOTA, Central and South Central

MINZ054>055

Lac Qui Parle - Swift

13 1200CST
2000CST

0 0

Winter Storm

Low pressure tracked from near Sioux Falls SD to the La Crosse WI area, producing a small area of heavy snow. Totals include 7 inches at Bellingham and 6 inches at Holloway.

Storm Data and Unusual Weather Phenomena

January 2002

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

MINZ078-085-091>093 Goodhue - Steele - Martin - Faribault - Freeborn

31	1200CST 2359CST				0	0			Winter Storm
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A low pressure system moved into central Illinois from Iowa by the mid-evening hours on the 31st, and then moved northeast into the eastern Great Lakes region by the early afternoon of February 1st. This system produced a narrow swath of six inch snowfall which fell across extreme south central Minnesota, and portions of southeast Minnesota. Some snowfall totals of note include: 8 inches at Fairmont, 7 inches at Red Wing, and 6 inches at Albert Lea.

MINNESOTA, Northeast

NONE REPORTED.

MINNESOTA, Northwest

NONE REPORTED.

MINNESOTA, Southeast

NONE REPORTED.

MINNESOTA, Southwest

NONE REPORTED.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

NONE REPORTED.

MISSISSIPPI, Central

MSZ057>058-066-072>074 Jasper - Clarke - Jones - Marion - Lamar - Forrest

01	2200CST				0	0	30K		Heavy Snow
02	0600CST								

A winter storm produced heavy snow across portions of southeast Mississippi. The heavy snow began falling over Marion and Lamar counties during the late evening of the 1st, then spread east-northeast into southeast Jasper and Clarke counties the early morning hours of the 2nd. The heaviest snow fell between Foxworth and Oloh, where four to four and one half inches of snow was recorded. Farther east, two to three inches of snow fell in Forrest, Jones, Jasper, and Clarke counties along an axis from Hattiesburg and Petal, to Laurel, to Shubuta. Icy bridges made traveling across the region very treacherous. As a result, several accidents occurred with three fatalities. One fatality was in Lamar County on Interstate 59 at mile marker 44. The other two fatalities were on Highway 537 near Sharon and on Highway 590 in Jones County.

MSZ052-058

Lauderdale - Clarke

19	0915CST 1048CST				0	0	4K		High Wind (G50) ^M
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Outflow from scattered, heavy showers in the area, combined with strong gradient winds and produced a wind gust of 58 mph at the KMEI ASOS. Several trees were knocked down from Meridian to Quitman due to the winds. A barn was heavily damaged in Clarke County.

Forrest County

1 N Petal

19	1105CST 1107CST				0	0	1K		Thunderstorm Wind
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Several trees were knocked down just north of Petal.

Jones County

Ovett

19	1115CST 1117CST				0	0	1K		Thunderstorm Wind
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Several trees were blown down across the southeast portion of the county.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSISSIPPI, Central									
Bolivar County									
Countywide	24	0645CST 1045CST			0	0	1K		Flash Flood
	Several roads across the county were flooded due to rainfall exceeding 4 inches in spots. A few roads had to be closed as well.								
Grenada County									
Countywide	24	0715CST 1100CST			0	0	1K		Flash Flood
	Many roads reported underwater. One road southeast of the city of Grenada had been washed out with flood waters threatening a few homes in the area.								
Leflore County									
Countywide	24	0730CST 1015CST			0	0	1K		Flash Flood
	Over 5 inches of rain fell over northern portions of the county. Several roads were impassable near the Itta Bena area.								
Washington County									
Countywide	24	0830CST 1215CST			0	0	1K		Flash Flood
	Local T.V station, WXVT in Greenville recorded 4.73 inches of rainfall. The whole county received several inches of rainfall with many roads underwater and closed. Many cars became stranded on flooded roads, but no one was injured.								
Carroll County									
Countywide	24	0900CST 1030CST			0	0	1K		Flash Flood
	Several roads were flooded and had to be closed across the county.								
Sunflower County									
Countywide	24	0945CST 1130CST			0	0	1K		Flash Flood
	Numerous roads across the county were closed due to very heavy rainfall exceeding 4 inches in spots.								
Attala County									
Mc Cool to Mc Adams	24	1225CST 1227CST			0	0	1K		Thunderstorm Wind
	A few trees were blown down near the town of Mc Cool.								
Warren County									
Countywide	24	1310CST 1315CST			0	0	100K		Thunderstorm Wind
	A line of severe thunderstorms with destructive, straight-line winds moved through the county. A few homes had roof damage. Also, several trees and power lines were blown down across the county.								
Hinds County									
Countywide	24	1340CST 1355CST			0	0	1.5M		Thunderstorm Wind
	A line of severe thunderstorms with destructive, straight-line winds moved through the county. Hardest hit areas were the cities of Raymond and Terry. A large swath of damage occurred between Highway 18 and Interstate 55, south of Metro Jackson. A total of four homes were totally destroyed. Thirty homes sustained major damage and 100 homes sustained minor damage. Numerous trees were also blown down across a large area.								
Rankin County									
Countywide	24	1354CST 1406CST			0	0	350K		Thunderstorm Wind
	A line of severe thunderstorms with destructive, straight-line winds moved through the county. Hardest hit areas were the cities of Richland and Brandon along the Interstate 20 corridor. One house sustained major damage with 4 homes having minor damage. Two businesses in the area sustained minor damage. Finally, Numerous trees, power lines, fences, and large tree limbs were knocked down.								
Madison County									
Countywide	24	1400CST 1405CST			0	0	1K		Thunderstorm Wind
	Numerous trees blown down across the county.								
Copiah County									
Hazlehurst	24	1410CST 1415CST			0	0	1K		Thunderstorm Wind
	Several trees were blown down in and near the town.								
Leake County									
Carthage	24	1410CST 1415CST			0	0	1K		Thunderstorm Wind
	A few trees were knocked down in and near town.								

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSISSIPPI, Central									
Simpson County									
Mendenhall	24	1415CST 1417CST			0	0	1K		Thunderstorm Wind
Three large trees were blown down in town.									
Oktibbeha County									
Countywide	24	1420CST 1530CST			0	0	1K		Flash Flood
Very heavy rainfall caused Adaton Dam to overflow into a low-lying area. No structures were threatened.									
Smith County									
5 N Raleigh	24	1425CST 1430CST			0	0	1K		Thunderstorm Wind
Several trees were knocked down north of Raleigh.									
Lowndes County									
Countywide	24	1430CST 1530CST			0	0	5K		Flash Flood
Four major roads were flooded. Two of the roads had to be closed to traffic. A portion of 2nd Avenue near Columbus was washed out.									
Scott County									
Countywide	24	1430CST 1445CST			0	0	2M		Thunderstorm Wind (G69)
A line of severe thunderstorms with destructive, straight-line winds moved through the county. The communities of Forest and Morton were particularly hit hard with winds estimated to be 80 to 90 mph. A total of 3 homes sustained major damage with 27 other homes sustaining minor damage. Ten businesses sustained major damage, while 10 others had minor damage. Four mobile homes were destroyed with one sustaining major damage. Finally, 5 agricultural buildings were destroyed with 16 others sustaining major damage. Numerous trees were also blown down. The estimated cost of the damage in the area was 2 million dollars.									
Copiah County									
Beauregard	24	1500CST 1505CST			0	0	1K		Thunderstorm Wind
A few trees were blown down in the southern portion of the county.									
Neshoba County									
5 N Philadelphia	24	1510CST 1520CST			0	0	1K		Thunderstorm Wind
Trees were blown down along Highway 21 and Highway 339.									
Newton County									
Newton	24	1510CST 1515CST			0	0	1K		Thunderstorm Wind
Numerous trees were knocked down across the county due to severe, straight-line winds from a squall line moving through the area.									
Jasper County									
Rose Hill	24	1515CST 1520CST			0	0	1K		Thunderstorm Wind
Numerous trees were blown down across northeast portions of the county.									
Kemper County									
6 S De Kalb	24	1520CST 1525CST			0	0	1K		Thunderstorm Wind
Numerous trees were blown down along Highway 39 South.									
Simpson County									
Harrisville	24	1525CST 1530CST			0	0	1K		Thunderstorm Wind
A few trees were knocked down on Old Pearl Road and JD Welch Road.									
Lauderdale County									
Meridian	24	1530CST 1535CST			0	0	1K		Thunderstorm Wind
Numerous trees and power lines blown down on Interstates 20 and 59.									
Smith County									
Mize	24	1530CST 1535CST			0	0	1K		Thunderstorm Wind
Several trees were blown down in and near the town of Mize.									
Lincoln County									
Bogue Chitto	24	1545CST 1550CST			0	0	1K		Thunderstorm Wind
A few trees were blown down across southern portions of the county.									

Storm Data and Unusual Weather Phenomena

January 2002

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

Jasper County

Heidelberg	24	1600CST 1605CST			0	0	1K		Thunderstorm Wind
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Several trees were blown down in and near town.

Clarke County

3 N Quitman	24	1605CST 1610CST			0	0	10K		Thunderstorm Wind
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A squall line moved through the area producing damaging straight-line winds that blew down a barn.

Newton County

Bethel	24	1605CST 1610CST			0	0	1K		Thunderstorm Wind
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Several trees were blown down on Highway 15 South in Bethel.

Warren County

Vicksburg to Bovina	31	1815CST 1825CST			0	0	1K		Thunderstorm Wind
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Numerous trees were blown down across the eastern portion of the county.

Holmes County

5 W Goodman	31	1900CST 1905CST			0	0	1K		Thunderstorm Wind
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A few trees were blown down in the area.

MISSISSIPPI, North

Prentiss County

Countywide	23	0940CST			0	0	50K		Flash Flood
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Several bridges were washed out. Many roads were under water.

Alcorn County

Countywide	23	0950CST 1400CST			0	0	5K		Flash Flood
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Several roads were closed due to flooding.

Tishomingo County

North Central Portion	23	1025CST 1400CST			0	0	10K		Flash Flood
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One house was flooded in the Mill Creek area. Many roads were closed due to flooding.

Union County

Countywide	23	1030CST 1400CST			0	0	5K		Flash Flood
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Several roads were closed due to flooding.

Tippah County

Ripley	23	1045CST 1400CST			0	0	5K		Flash Flood
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Numerous roads in the area were closed due to flooding.

Monroe County

Countywide	23	1100CST 1500CST			0	0	25K		Flash Flood
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Water reached into several homes. Some roads were closed due to flooding.

De Soto County

Walls to Nesbit	31	1725CST 1735CST			0	0	10K		Thunderstorm Wind
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Several trees and power lines were blown down.

MISSISSIPPI, South

MSZ068>071

Wilkinson - Amite - Pike - Walthall

01	1500CST				0	0		Winter Storm
02	0500CST							

A mixture of rain and sleet began to fall during the afternoon of January 1st over southwest Mississippi before changing to a mix of snow and sleet during the evening hours. Snow continued to fall through the night until daybreak on the 2nd and accumulated from one-half to one and a half inches. The wintry precipitation resulted in automobile accidents on icy roadways and the closing of some bridges.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>MISSISSIPPI, South</u>									
Walthall County									
Tylertown	24	1700CST			0	0	15K		Thunderstorm Wind
	Thunderstorm winds blew the roof off of a barn, knocked down a tree, and blew a shed over onto a parked vehicle.								
<u>MISSISSIPPI, Southeast</u>									
MSZ067-075>076-078>079									
Wayne - Perry - Greene - Stone - George									
	01	2200CST			0	0			Winter Storm
	02	0600CST							
	A band of snow and sleet fell across the area Tuesday evening and into early Wednesday morning. Most of the area from Beaumont to Waynesboro and Leakesville received one to three inches of snow. To the south of this area generally from Wiggins to east of Lucedale one-quarter inch of sleet and freezing rain fell with only a dusting of snow covering some rooftops. Still, traveling became hazardous across the area. Fortunately the schools were out for the holidays so the winter precipitation was mostly just an inconvenience. Some of the heavier amounts of snow were north of U. S. Highway 98 in Perry county 2 to 3 inches with areas south of U. S. Highway 98 getting 1 to 2 inches. The Leakesville area received 1 to 2 inches of snow with most of Wayne county getting 1 to 2 inches. Although several secondary roads and bridges had to be closed and sanded, very little property damage was reported.								
Greene County									
Leakesville	19	1145CST 1147CST			0	0	5K		Thunderstorm Wind (G55)
	Several large limbs were blown down south of Leakesville.								
<u>MISSOURI, East</u>									
MOZ018>019-026>027-034>035-041>042-047									
Knox - Lewis - Shelby - Marion - Monroe - Ralls - Boone - Audrain - Moniteau									
	29	2200CST			0	0			Ice Storm
	30	1600CST							
	An ice storm struck parts of central and northeast Missouri from the night of January 29 through the afternoon of January 30. With the temperature in the upper 20s to near 30, the falling rain quickly froze on exposed surfaces such as trees and power lines. In central Missouri, the ice generally accumulated from 1/4 to near 1/2 inch thick. Parts of northeast Missouri were hit harder as the ice accumulated from 1/2 to near 1 inch thick. Power outages were widespread as trees, power lines and power poles broke from the weight of the ice. Some residents were without power for 3 to 5 days. The following counties were declared Federal Disaster areas: Audrain, Boone, Knox, Lewis, Marion, Monroe, Ralls, and Shelby.								
<u>MISSOURI, Lower</u>									
Dunklin County									
White Oak	23	2335CST 2340CST			0	0	10K		Thunderstorm Wind
	A cotton trailer was knocked over. Part of a cotton gin was damaged.								
<u>MISSOURI, Northeast</u>									
MOZ009>010									
Scotland - Clark									
	30	0300CST			0	0			Winter Storm
	31	0500CST							
	Less than one week removed from record warmth, a late January winter storm brought the region it's first dose of significant winter precipitation. The storm system developed over Southern California and then lifted east northeast through the Mid Mississippi Valley Wednesday into early Thursday producing heavy snow and icy conditions. The precipitation initially fell in the form of sleet and freezing rain over portions of Northeast Missouri, with significant ice accumulations of 1/4 inch reported. Eventually the ice changed to snow with accumulations of 6 to 10 inches. The heavy snow and ice caused many schools to close. Many activities were either cancelled or postponed.								
<u>MISSOURI, Northwest</u>									
MOZ025-028>033-037>040-043>046-053>054									
Macon - Platte - Clay - Ray - Carroll - Chariton - Randolph - Jackson - Lafayette - Saline - Howard - Cass - Johnson - Pettis - Cooper - Bates - Henry									
	30	0400CST			0	0	32.0M		Ice Storm
	31	2200CST							
MOZ021>024									
Clinton - Caldwell - Livingston - Linn									
	30	0500CST			0	0	600K		Winter Storm
	31	2200CST							

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
MOZ001>008-011>017-020 Atchison - Nodaway - Worth - Gentry - Harrison - Mercer - Putnam - Schuyler - Holt - Andrew - De Kalb - Daviess - Grundy - Sullivan - Adair - Buchanan									
	30	1600CST			0	0			Heavy Snow
	31	2200CST							
A long-lived major ice and snow storm blasted much of northwest, northern and central Missouri from late Tuesday, January 29th, until Thursday, January 31st. Ice accumulations of over an inch were observed from the Kansas City metropolitan area, east and north through Moberly Missouri. At one point 409,504 total customers were without electrical power in the CWA, with some residents without power up to two weeks. For the Kansas City area, the ice storm was ranked as the worst ever. Further north across northern Missouri, heavy snow fell generally along and north of a line, from St. Joseph to Trenton to Kirksville. Snow accumulations ranged from 8 to 14 inches.									
MOZ046 Cooper									
	31	1100CST			0	0			Flood
		1200CST							
Minor flooding due to heavy rains, occurred on the Lamine River near Otterville.									
MISSOURI, Southeast									
MOZ086>087-100-107-110>111-114 Bollinger - Cape Girardeau - Wayne - Carter - Stoddard - Scott - New Madrid									
	18	2200CST			0	0			Heavy Snow
	19	0500CST							
Four to five inches of snow fell across much of southeast Missouri, mainly north of U.S. Highway 60. Along and south of Highway 60, rain and sleet mixed with the snow, holding accumulations to 2 or 3 inches. Most of the snow fell in a heavy burst, lasting 2 or 3 hours, during which time the visibility was frequently one quarter mile or less. Since the snow fell late at night on a weekend, traffic problems were relatively few. Temperatures during the event were within a degree or two of freezing, which made snow removal relatively easy. A few of the heaviest snowfall totals reported: 6 inches at Williamsville in Wayne County, 5 inches at Zalma in Bollinger County, and 4 inches at Bloomfield in Stoddard County.									
Ripley County									
2 SW Doniphan	23	1930CST			0	0			Thunderstorm Wind (G50)
The mayor of Doniphan reported several trees down southwest of town.									
Butler County									
Poplar Bluff	23	1945CST			0	0			Hail (1.75)
Golf ball size hail was reported by emergency management.									
MOZ108>111 Ripley - Butler - Stoddard - Scott									
	23	2004CST			0	0	46K		Flood
	24	0115CST							
Thunderstorms repeatedly moved over the same corridor from Ripley County east-northeast across the Poplar Bluff area to Scott County. Over the course of a few hours, 3 to 5 inches of rain fell. Personnel at the airport in Doniphan measured 3.2 inches of rain in only 2 hours, and 4.2 inches in 4 hours. Major flooding occurred in Ripley County, where about two dozen roads were washed out. The washouts were at least 8 inches deep. Highway 160 was flooded near several communities, including Fairdealing and Flatwoods. Highway 21 south of Doniphan was also flooded. In Butler County, many roads were inundated, some with 2 to 3 feet of water on them. About 2 inches of water came into the Jaycees building in downtown Poplar Bluff, and water neared homes on 8th and 9th Streets. More than a dozen vehicles stalled out in flooded areas in the Poplar Bluff area, and a mobile home was evacuated due to flooding. Numerous roads were flooded in Stoddard County, including Highway 25 north of Bloomfield. Bloomfield observers reported 3.0 inches of rain, and 4.0 inches was reported in Morley in Scott County.									
Stoddard County									
Advance	23	2207CST			0	0			Hail (1.00)
Stoddard County									
1 NW Puxico	23	2216CST			0	0			Thunderstorm Wind (G50)
A couple of trees were blown down in the Mingo National Wildlife Refuge.									
Scott County									
Chaffee	23	2230CST			0	0			Hail (1.00)
New Madrid County									
Gideon	23	2338CST			0	0	2K		Thunderstorm Wind (G55)
A house sustained roof damage and some broken windows.									

Storm Data and Unusual Weather Phenomena

January 2002

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

MISSOURI, Southeast

Wayne County

Countywide	31	1544CST 1900CST			0	0			Flash Flood
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Carter County

Countywide	31	1549CST 1900CST			0	0			Flash Flood
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Ripley County

Countywide	31	1549CST 1900CST			0	0			Flash Flood
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Perry County

Perryville	31	1715CST 1815CST			0	0			Flash Flood
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In Ripley County, flooding affected County Road 24 and Highway 142 East. A low water bridge was impassable due to high water flowing over it. In Carter County, flooding of small creeks and rural county roads occurred. Water was over some rural roads in Wayne County. In Perry County, some water was over Highway 61 South at B Highway. The flooding was caused by a large area of moderate to heavy rain associated with a slow-moving cold front. This rain fell on top of ground that was still very moist from flooding rains a week earlier.

MISSOURI, Southwest

Barry County

Cassville	23	1558CST 1604CST			0	0	0		Hail (0.75)
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Howell County

4 E Lanton	23	1955CST			0	0	0		Thunderstorm Wind (G52)
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Trees were blown down on Highway 142 east of Lanton.

Oregon County

2 W Koshkonong	23	2000CST			0	0	20K		Thunderstorm Wind (G55)
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Straight line winds damaged outbuildings and a trailer west of Koshkonong. Nickle size hail was also reported in Koshkonong.

Oregon County

Alton	23	2022CST			0	0	0		Hail (0.88)
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MOZ055>056-066>067 Benton - Morgan - Vernon - St. Clair

30		0500CST			0	0	475K		Ice Storm
31		1200CST							

A large scale ice storm event developed over southeast Kansas and west central Missouri during the early morning hours of January 30, 2002. Synoptically, a shallow arctic air mass moved through the region dropping surface temperatures in the upper 20s. Strong jet stream winds from the southwest provided the influx of sub-tropical type regime. In addition, deep moisture from the Gulf of Mexico surged northward above this shallow arctic air mass to set the stage for a prolonged ice storm.

Light to moderate rainfall, fell over the sub-freezing surface temperatures for nearly 36 hours. Ice begun accumulating on trees and power lines from southeast Kansas, and into west central Missouri Wednesday morning. Law enforcement officers and local weather observers reported nearly one half inch of ice accumulated on trees and power lines before 6 am Wednesday morning. The freezing rain, mixed with sleet at times, continued through the day with an additional one quarter to one half inch of ice by Wednesday evening. Total ice accumulations approached one inch thick on tree and power lines by Wednesday night and Thursday. The ice started to weight down trees, power lines and other objects which caused widespread power outages.

During the height of the storm, nearly 150,000 people were without power from southeast Kansas, into west central and central Missouri. In addition, trees snapped which caused damage to homes, businesses, and cars.

Although most of the main highway routes were wet, secondary roads were ice covered throughout the event. Numerous automobile accidents were reported, along with injuries.

The storm system begun to wind down Thursday morning as temperatures rose above freezing. However, additional ice related problems continued through the early afternoon as the melting ice fell on cars, homes and businesses.

MOZ058-070>071-082>083-096>098-105>106

Maries - Pulaski - Phelps - Texas - Dent - Douglas - Howell - Shannon - Ozark - Oregon

31		1300CST 2359CST			0	0	0		Flood
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Storm Data and Unusual Weather Phenomena

January 2002

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

A prolonged moderate rainfall event occurred over the Ozarks from the early morning to the evening hours of January 31, 2002. One day earlier, heavy rainfall provided nearly one inch of rain over the flooded areas, which made for already wet soil conditions prior to this event.

A shallow arctic front, which provided the focus for a large scale overrunning precipitation event, was nearly stationary along the Arkansas border during the day. The rainfall begun early Thursday morning with an almost continuous influx of steady rainfall from 9 am January 31, to approximately 6 pm that evening. Rainfall rates were generally low and ranged from one half, to three quarters of an inch per hour in the heaviest downpours. However, a general one to two tenths per hour was more consistent with the overall rainfall pattern, with isolated convective activity during the afternoon hours. 24 hour rainfall totals, including Doppler radar estimates in the flooded areas, ranged from one inch, to nearly three inches in Phelps, Pulaski, Texas, Howell and Shannon Counties.

Numerous low water crossings, streams and county roads were flooded throughout the event. Several of the county roads were closed and did not reopen until Friday morning, February 1, 2002. The hardest hit areas were in Pulaski and Shannon Counties where Cave, Spring, and Creek roadways along the Big Piney River, and Highway H between Highway 16 and 106, were closed for nearly 24 hours.

MONTANA, Central

MTZ009

North Rocky Mountain Front

02 1300MST **0** **0** **High Wind (G46)** ^M

Sustained wind speeds of 43 mph with gusts to 53 mph measured by the DOT automated road sensor in Two Medicine (2 SE of East Glacier).

MTZ009

North Rocky Mountain Front

07 0300MST **0** **0** **High Wind (G56)** ^M

Reported from Browning.

MTZ046-048>049

Eastern Pondera - Southern Rocky Mountain Front - Eastern Teton

07 0700MST **0** **0** **High Wind (G52)**
2200MST

Sustained winds of 40 mph, with gusts over 50 mph were common early this morning. A peak wind gust of 60 mph was reported at 0700 MST in Eastern Pondera county, and a peak gust to 64 mph was reported in Eastern Teton county at 0800 MST. Additionally, around 2100 MST, in Teton county, the winds blew out the back window on a vehicle, and a few roofs were blown off.

MTZ010

Eastern Glacier

07 1455MST **0** **0** **High Wind (G57)**

Reported from Del Bonita.

MTZ044

Toole

07 1900MST **0** **0** **High Wind (G45)** ^M

Sustained winds at Sweetgrass of 35 KTS with winds gusting over 43 KTS throughout the evening.

MTZ010

Eastern Glacier

07 2032MST **0** **0** **High Wind (G61)** ^M

Cut Bank ASOS reported sustained winds of 35 KTS and gusts over 50 KTS throughout the day.

MTZ012

Cascade

08 0000MST **0** **0** **High Wind (G67)** ^M

Spotter at Cascade 5 S

MTZ009

North Rocky Mountain Front

08 0200MST **0** **0** **High Wind (G43)** ^M

Sustained winds of 35 KTS with gusts up to 43 KTS reported from East Glacier Park 2 E.

MTZ010

Eastern Glacier

08 0200MST **0** **0** **High Wind (G58)** ^M

Sustained winds of 50 KTS with gusts up to 58 KTS reported from Cut Bank. These winds then continued to blow at this strength through early afternoon.

MTZ048

Southern Rocky Mountain Front

08 0900MST **0** **0** **High Wind (G60)**

Sustained winds of 35 KTS with gusts near 60 KTS throughout the early morning hours in the city of Choteau.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MONTANA, Central									
MTZ044		Toole							
	08	1215MST			0	0			High Wind (G40)
	2 NWS employees, on duty near Shelby, in Toole county, reported sustained winds greater than 40 mph.								
MTZ045		Liberty							
	08	1430MST			0	0			High Wind (G35)
	Estimated sustained winds of 40 mph reported from Chester.								
MTZ009-011>012-014-044>045-048>052		North Rocky Mountain Front - Hill - Cascade - Southern Lewis And Clark - Toole - Liberty - Southern Rocky Mountain Front - Eastern Teton - Judith Basin - Fergus - Jefferson							
	12	1100MST 2000MST			2	4			High Wind (G60)
	A high wind event moved across north central Montana on the 12th. Sustained wind speeds of 40 to 50 mph were very common throughout the afternoon, and into the evening hours. Wind gusts were near 70 mph during the peak of the event. These winds started to increase in strength around 1100 MST and then they did not diminish until 2000 MST. The peak wind speeds occurred between 1300 MST and 1600 MST. Due to the very strong winds, blowing dust became a real hazard. The blowing dust reduced visibilities to near zero in many locations for a period of time. As a result of the near zero visibilities, a 12 vehicle accident occurred about 13 miles Southeast of Great Falls near 1330 MST, resulting in 2 fatalities and 4 injuries.								
	Power was knocked out to over 1500 customer in the Great Falls metro area. A few trees were uprooted and several roofs were blown off as well. Near 1745 MST a train was blown off the tracks, just west of East Glacier, at the Midvale trestle. A total of 20 cars and 24 box containers were blown off the track. Wind speeds were estimated to be near 80 mph at the time of the accident.								
	Some of the peak wind speeds recorded during the day were; Great Falls 68 mph at 1330 MST; Conrad 20 SE 68 mph at 1330 MST; Browning 62 mph at 1555 MST; Havre 50 mph at 1756 MST; Boulder 64 mph at 1951 MST, and Lewistown 51 mph at 1954 MST. M48VE, F22VE								
MTZ009>010		North Rocky Mountain Front - Eastern Glacier							
	18	1000MST			0	0			High Wind (G47) ^M
	19	0400MST							
	A high wind event occurred over the northern Rocky Mountain Front and the northern adjacent plains, beginning mid morning on the 18th and continued into the early morning hours of the 19th. Sustained winds of 40 mph were reported at East Glacier Park 2 E during the morning and afternoon hours on the 18th. The peak wind speed of 54 mph at Cut Bank occurred at 1949 MST on the 18th.								
MTZ009>010-012-046-048>049		North Rocky Mountain Front - Eastern Glacier - Cascade - Eastern Pondera - Southern Rocky Mountain Front - Eastern Teton							
	20	0900MST 1800MST			0	0			High Wind (G70) ^M
	A high wind event occurred over north central Montana on the 20th. It affected the Rocky Mountain Front and the adjacent plains. It began around 900 MST and then continued through the late afternoon hours. Sustained winds of 40 mph were reported by 1000 MST along the Rocky Mountain front. These winds then spread eastward throughout the late morning and early afternoon hours.								
	The strongest peak winds occurred from 1100 MST to 1500 MST and generally had wind speeds of 60 to 70 mph. Visibilities were also reduced in many areas due to blowing snow over the Rocky Mountain Front, and blowing dust over the plains.								
	Here are some of the top wind speeds on the 20th, East Glacier 2 NE 73 mph at 1155 MST, Choteau 2 NE 68 mph at 1230 MST, Pendroy 66 mph at 1230 MST, Cut Bank 62 mph at 1309 MST, Cascade 5 S 81 mph at 1340 MST.								
MTZ054		Meagher							
	20	1630MST			0	0			High Wind (G51)
	Reported from Martinsdale.								
MTZ008-015-055		Beaverhead - Madison - Gallatin							
	21	1800MST			0	0			Winter Storm
	22	0000MST							
	An area of snow moved across southwest Montana during the afternoon and evening hours on the 21st. The snow was heavy at times over Madison and Gallatin counties. Near blizzard conditions were reported across this same area and in Beaverhead county, as winds were gusting to 30 mph at times. Some of the snow totals from this event were: 14 inches at Wisdom, 7 inches at Belgrade, 6 to 8 inches in Three Forks 16 S, and 5 inches in West Yellowstone 9 N.								

Storm Data and Unusual Weather Phenomena

January 2002

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

**MTZ009>013-
044>046-048>051**

North Rocky Mountain Front - Eastern Glacier - Hill - Cascade - Chouteau - Toole - Liberty - Eastern Pondera - Southern Rocky Mountain Front - Eastern Teton - Judith Basin - Fergus

23	1800MST				0	0			High Wind (G64) ^M
25	0400MST								

A high wind event occurred over north central Montana beginning the evening of the 23rd over the Rocky Mountain front, and ending in the early morning hours on the 25th. Sustained winds of over 40 mph were common during the day on the 24th over this entire region. Wind gusts over 65 mph were common as well.

A few locations near the Rocky Mountain front had local wind gusts in excess of 100 mph. Visibilities were reduced to near zero at times in many locations due to blowing dust over the plains and blowing snow over the Rocky Mountains.

A semi was blown off the road around 1515 MST near Stanford. Near white out conditions, due to blowing snow and heavy snow falling, caused a 4 vehicle accident between Browning and East Glacier.

Sustained winds of 40 mph or greater occurred at: Sunburst, Dupuyer, Havre 30 NW, Great Falls, Chester, and Judith Gap. Some peak wind gusts from this event were: Choteau 10 NW 111 mph, with the city of Choteau 78 mph at 1350 MST; Cascade 5 S 74 mph at 1210 MST; East Glacier to Maria's Pass estimated 70 mph at 0300 MST; Cut Bank 64 mph at 1156 MST; and Browning 59 mph at 0825 MST.

MTZ009-012>014-048

North Rocky Mountain Front - Cascade - Chouteau - Southern Lewis And Clark - Southern Rocky Mountain Front

25	0000MST				0	0			Winter Storm
26	1600MST								

Heavy snow developed over the Rocky Mountain front late on the 24th. The snow began to increase in intensity early on the 25th and then continued, heavy at times, to early on the 27th. Snowfall rates of 1 to 2 inches per hour were common through the period. 24 hour snow totals ranged from 15 to 20 inches, while the entire snow event had snow accumulations of 3 to 4 feet in areas near the Rocky Mountain front.

Farther east, over the northern plains of North Central Montana, areas of snow developed on the morning of the 26th. The snow was heavy at times during the mid morning and early afternoon hours. Generally snow accumulations of 4 to 7 inches occurred in Cascade and Chouteau counties. Farther north, around the Havre and Cut Bank areas, only light snow was reported, with less than 3 inches of snow accumulations.

**MTZ008-012>013-015-
050>051-053>055**

Beaverhead - Cascade - Chouteau - Madison - Judith Basin - Fergus - Broadwater - Meagher - Gallatin

26	1600MST				0	0			Heavy Snow
27	1600MST								

The same storm system that moved through North Central Montana during the day on the 26th, moved into southwest Montana during the evening hours of the 26th and exited the area by the evening on the 27th. Snow accumulations were generally in the range of 4 to 7 inches in the valleys and plains, with up to 12 inches in the mountains.

Some of the snow totals from this event were 6 inches at Geraldine, Grassrange, and Toston; 7 inches at Wise River; 9 inches at Utica 7 SW and the Big Sky ski resort; and 10 to 12 inches at the Showdown ski resort..

MONTANA, East

MTZ016>017-059

Central And Se Phillips - Central And Southern Valley - Northern Phillips

12	2051MST				0	0			High Wind (G53) ^M
13	1251MST								

46 mph wind sustained at Malta south DOT site.

A cold front moved through northeast Montana the evening of January 12 bringing high winds to the region. The peak wind gusts were 62 mph at Whitewater and at the King Coulee RAWS site.

MONTANA, South

MTZ028

Wheatland

12	1436MST				0	0			High Wind (G70) ^M
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70 mph non-thunderstorm wind gust with sustained winds of 50 mph in Livingston

MTZ028

Wheatland

12	1526MST				0	0			High Wind (G70) ^M
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70 mph non-thunderstorm wind gust in Livingston

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MONTANA, South									
MTZ035			Yellowstone						
		12	1640MST		0	0			High Wind (G60) ^M
			60 mph non-thunderstorm wind gust at Pompeys Pillar						
MTZ031			Northern Rosebud						
		13	0349MST		0	0			High Wind (G40) ^M
			40 mph sustained winds at Hillside						
MTZ032			Custer						
		13	0450MST		0	0			High Wind (G59) ^M
			59 mph non-thunderstorm wind gust with 44 mph sustained winds in Miles City						
MTZ038			Southern Big Horn						
		13	0457MST		0	0			High Wind (G61) ^M
			61 mph non-thunderstorm wind gust on Big Horn Mountain						
MTZ037			Carter						
		13	0653MST		0	0			High Wind (G60)
			Wind damage with power poles downed						
MTZ033			Fallon						
		13	0846MST		0	0			High Wind (G40) ^M
			40 mph sustained winds in Baker						
MTZ033			Fallon						
		13	1024MST		0	0			High Wind (G60)
			Wind damage. Wind gust blew a car into the ditch.						
MTZ033			Fallon						
		13	1104MST		0	0			Blizzard
			Blizzard conditions. Heavy snow and 1/4 mile visibility with wind gusts to 42 mph in Baker.						
MTZ037			Carter						
		13	1109MST		0	0			Blizzard
			Blizzard conditions. Heavy snow and 1/8 mile visibility.						
MTZ028			Wheatland						
		19	0200MST		0	0			High Wind (G50) ^M
			50 mph non-thunderstorm sustained wind in Livingston						
MTZ028			Wheatland						
		24	2135MST		0	0			High Wind (G54) ^M
			54 mph sustained wind at Livingston						
MTZ028			Wheatland						
		24	2200MST		0	0			High Wind (G50) ^M
			50 mph sustained winds in Livingston						
MTZ034			Stillwater						
		27	1000MST		0	0			Heavy Snow
			10 inches of new snow 3 miles south of Nye						
MTZ034			Stillwater						
		27	1610MST		0	0			Heavy Snow
			5 inches of snow in Columbus						
MTZ034			Stillwater						
		27	1610MST		0	0			Heavy Snow
			12 inches of snow in Nye						
MTZ028			Wheatland						
		27	1610MST		0	0			Heavy Snow
			6 inches of snow in Big Timber						

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>MONTANA, South</u>									
MTZ034		Stillwater							
	27	1610MST			0	0			Heavy Snow
	6 inches of snow in Molt								
MTZ028		Wheatland							
	27	1610MST			0	0			Heavy Snow
	8 inches of snow in Mill Creek								
MTZ028		Wheatland							
	27	1610MST			0	0			Heavy Snow
	5 inches of snow in Livingston								
MTZ028		Wheatland							
	27	1610MST			0	0			Heavy Snow
	4 inches of snow in Harlowton								
MTZ037		Carter							
	28	1200MST			0	0			Heavy Snow
	6 inches of new snow in Ekalaka								
MTZ036		Powder River							
	28	1700MST			0	0			Heavy Snow
	6 inches of new snow in Biddle								
<u>MONTANA, West</u>									
MTZ001>002-004-006>007-043		Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region - Bitterroot / Sapphire Mountains - Butte / Pintlar Region - Blackfoot Region							
	18	1800MST			0	0			Heavy Snow
	23	1800MST							
	Heavy snowfall fell over most of the western Montana mountains for five days. In the valleys of northwest Montana, precipitation started out as rain, but changed to heavy snow by the 23rd, with Frenchtown reporting 8 inches, Haugan 9 inches, Thompson Falls 11 inches, Noxon 12 inches, Seeley Lake Ranger Station 13 inches and West Glacier 15 inches. In the mountains, two to three feet of snow was common. The highest storm total snowfall was 35 inches at Lolo Pass, 36 inches at Poorman Creek, 38 inches at Noisy and Hoodoo Basins, 44 inches at Twin Lakes, and 53 inches at North Fork Jocko.								
MTZ001>002-004-006-043		Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region - Bitterroot / Sapphire Mountains - Blackfoot Region							
	24	1900MST			0	0			Heavy Snow
	26	1900MST							
	Heavy snow hit the higher terrain of western Montana for two days. Storm total snowfall ranged from one to two feet. Highest storm totals were 28 inches at Badger and Lookout Passes, and 38 inches at Hoodoo Basin.								
MTZ002-004-043		West Glacier Region - Lower Clark Fork Region - Blackfoot Region							
	29	2000MST			0	0			Heavy Snow
	30	2000MST							
	Heavy snow fell over portions of northwest Montana. 24 hour snowfall totals were 8 inches at Heron, 9 inches at Noxon and Noisy Basin, with 15 inches at North Fork Jocko.								
<u>NEBRASKA, Central</u>									
NEZ038-071		Custer - Frontier							
	31	0830CST 1600CST			0	0			Heavy Snow
	A powerful winter storm moved out of the Rockies into the Southern Plains early on the 31st. Snow started early in the morning and continued till late afternoon as a deformation zone developed across Eastern Frontier and Southeastern Custer Counties. Accumulations varied widely especially across Custer and Frontier Counties. In Southern portions of Frontier County...6 inches fell at Red Willow Dam...and 6.5 inches fell at Medicine Creek Dam in extreme Southeastern Frontier County. Across Southeastern Custer County...6 inches fell at Mason City...while only an inch fell at Arnold in Northwestern Custer County. Storm totals for other locations included: 5 inches at Comstock...3 inches at Taylor and Burwell...4 inches at Ericson...1.6 inches at the National Weather Service Forecast Office in North Platte...and an inch at Stapleton.								

Storm Data and Unusual Weather Phenomena

January 2002

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

NEZ015-017>018-030>034-042>045-050>053-065>068-078-088>093

Thurston - Pierce - Wayne - Boone - Madison - Stanton - Cuming - Burt - Platte - Colfax - Dodge - Washington - Butler - Saunders - Douglas - Sarpy - Seward - Lancaster - Cass - Otoe - Saline - Jefferson - Gage - Johnson - Nemaha - Pawnee - Richardson

30	1200CST	0	0					Winter Storm
31	2100CST							

A long lasting winter storm dropped 6 to 10 inches of snow over most of eastern Nebraska and southwest Iowa. The event began when light snow spread into extreme southeast Nebraska around 500 am Wednesday 1/30/02 as warm advection set up ahead of a developing intense upper level low pressure system over the southwest U.S. The snow increased in intensity in southeast Nebraska before noon that day, then slowly spread north. The snow made it into the Omaha and Lincoln areas around 400 pm Wednesday, and finally reached far northeast Nebraska and west central Iowa around Midnight. Outside of far southeast Nebraska and extreme southwest Iowa, most of the snow associated with the warm advection was light - generally less than 3 inches. Locations in extreme southeast Nebraska and extreme southwest Iowa did manage to pick up 6 inches of snow before Thursday morning.

As the upper level system moved onto the plains Thursday 1/31/02, a deformation band of moderate to heavy snow developed from south central Nebraska into west central Iowa. The snow from this feature was most intense from late morning into the early evening hours.

Although winds did increase Thursday afternoon to occasionally over 20 mph, substantial blowing and drifting snow was not reported. Nonetheless, many schools were closed on Thursday, and these same schools either started late or cancelled classes again on Friday.

Heavier storm totals in eastern Nebraska from the storm included, 10 inches in Gretna, parts of west Omaha, Madison, Roca, and Fairbury; 9 inches at Lincoln, Valley (NWS), Hickman, Uehling, Springfield, Plattsmouth, Schuyler, and Columbus; and 8 inches at David City, Raymond, Virginia, Surprise and Utica.

Heavier storm totals in western Iowa included, 8 inches in Logan, Oakland and Randolph and 7 inches at Harlan, Red Oak, Sidney, and Onawa.

NEBRASKA, Extreme Northeast

NONE REPORTED.

NEBRASKA, Extreme Southwest

NEZ079>081

Dundy - Hitchcock - Red Willow

30	1700MST	0	0					Winter Storm
31	1100MST							

A strong area of low pressure tracked through the region and brought 5 to 9 inches of snow across southwest Nebraska. The storm began the evening of January 30th and continued into January 31st. The storm impacted travel and many schools were closed. Also, northwest winds of 15 to 25 mph with higher gusts created blowing and drifting snow.

NEBRASKA, South Central

NEZ039>041-046>049-060>064-072>077-082>087

Valley - Greeley - Nance - Sherman - Howard - Merrick - Polk - Dawson - Buffalo - Hall - Hamilton - York - Gosper - Phelps - Kearney - Adams - Clay - Fillmore - Furnas - Harlan - Franklin - Webster - Nuckolls - Thayer

30	2000CST	0	0	0	0			Winter Storm
31	1600CST							

The first major winter storm belted south-central Nebraska with heavy snow, strong winds and icy cold temperatures. Snowfall ranged from 5 to 12 inches across the area. Grand Island picked up 12 inches of snow and broke its daily snowfall record. Hastings and Kearney also broke daily snowfall records. The heaviest band of snow fell from around Minden, to Grand Island and Hastings, and then to near Geneva. Nearly every school in the area was closed on the 31st. Fortunately, the snow brought much needed moisture to the region and was nearly all melted within 10 days.

NEBRASKA, West

NONE REPORTED.

NEVADA, North

NVZ031

N Elko Cnty

21	1800PST	0	0					Heavy Snow
22	0200PST							

Wild Horse and Mountain City reported 6 inches of new snow.

Storm Data and Unusual Weather Phenomena

January 2002

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

NVZ031>033-035-037 N Elko Cnty - Sw & Sc Elko - X E Elko - White Pine - S Lander & S Eureka

27	0400PST				0	0			Heavy Snow
28	1200PST								

Ruth reported 11 inches of new snow, 10 inches of new snow at Great Basin National Park and Bob Scott Summit along highway 50 in Lander county, 8 inches of snow at Spring Creek and Pilot Valley 15 miles south of Montello, 7 inches in Austin, Eureka, Lages Junction, Ely, and at the San Jacinto Ranch 20 miles south of Jackpot, and 6 inches at Montello.

NEVADA, South

NONE REPORTED.

NEVADA, West

NVZ003

Greater Reno/Carson City/Minden Area

21	0900PST				0	0	10K		High Wind (G54) ^M
	1900PST								

The Reno Gazette newspaper reported high winds all day. Winds were recorded at the Reno/Tahoe airport of gusting to 60 mph and at the Carson City airport to 62 mph causing some planes to be diverted. There was some minor damage to roof shingles and reports of some trees being blown over. Sparks had a power outage that lasted approximately 1 hour. Damage estimates are at \$10,000.

NVZ004-004

Western Nevada Basin And Range

21	0900PST				0	0	260K		High Wind (G61)
	1900PST								

Several reports of high wind all day in the Silver Springs area. A spotter reported estimated winds gusting between 60 and 70 mph. Several homes lost roof shingles and other minor damage estimated at 10,000. The newspaper reported that considerable damage was done to the new Silver Springs High School that is under construction. The high winds blew down several sections of wall at an estimated \$250,000 in damage. No injuries were reported.

NVZ001

Mineral/Southern Lyon

21	0900PST				0	0	25K		High Wind (G61)
	1900PST								

A spotter in Yerington reported high winds all day. Winds were estimated to be gusting between 60-70 mph. Several homes lost roof shingles, trees were blown down, and other damage estimated at \$25,000.

NVZ003

Greater Reno/Carson City/Minden Area

21	1205PST				0	0	0		High Wind (G56) ^M
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Spotter report of a wind gust in Carson City of 64 mph.

NVZ002

Greater Lake Tahoe Area

25	0745PST				0	0	0		Heavy Snow
26	0745PST								

Mt. Rose Ski area reported 14-18 inches of snow in 24 hours at 8200+ feet.

NVZ002

Greater Lake Tahoe Area

26	0810PST				0	0	0		Heavy Snow
	1110PST								

The general public reported 10 inches of snow in 3 hours in Incline Village elevation 7600 feet.

NVZ003

Greater Reno/Carson City/Minden Area

26	0830PST				0	0	2.5K		High Wind (G61)
	1200PST								

An off duty NWS employee reported high winds that blew down a fence. Winds were estimated to be between 60-70 mph. Damage estimate of \$2500.

NVZ003

Greater Reno/Carson City/Minden Area

28	0800PST				0	0	0		Heavy Snow
	2000PST								

Spotter report of heavy snow. In the Reno/Sparks city limits (elevation 4500 feet) 2-4 inches of snow fell in 8-12 hours.

Lyon County

Fernley

28	0850PST				1	0			Ice On Road
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Newspaper report of a 33 year old woman killed in a single-vehicle rollover accident. NHP reported she was travelling on US Highway 50 in a 1972 pickup. She was wearing her seatbelt and traveling at approximately 50-60 mph in a 65 mph zone. They believe she hit some ice and lost control of the vehicle. F33VE

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEVADA, West</u>									
NVZ004 Western Nevada Basin And Range									
	28	2100PST			0	0	0		Heavy Snow
	29	0900PST							
	Pyramid Lake Fisheries reported that 7.5 inches of lake effect snow fell in 12 hours at Sutcliffe (elevation 3900 feet).								
<u>NEW HAMPSHIRE, North and Central</u>									
NHZ001 Northern Coos									
	06	1900EST			0	0			Moderate Snowfall
	07	0700EST							
NHZ002>009 Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap									
	06	1900EST			0	0			Heavy Snow
	07	0700EST							
	A large area of low pressure over the southeastern states on the morning of the 6th moved northeastward along the coast to over Nova Scotia by the morning of the 7th. The storm brought from 4 to 12 inches of snow to central and northern New Hampshire with lesser amounts in southeastern part of the state. Along the coast, snowfall amounts were an inch or less.								
NHZ001-004-006-009 Northern Coos - Northern Carroll - Southern Carroll - Belknap									
	13	0600EST			0	0			Heavy Snow
		1900EST							
NHZ002>003-005-007>008-010-013 Southern Coos - Northern Grafton - Southern Grafton - Sullivan - Merrimack - Strafford - Interior Rockingham									
	13	0600EST			0	0			Moderate Snowfall
		1900EST							
	Low pressure moving through southeastern Canada and a developing low off the New England coast brought rain followed by snow to much of the state. From 3 to 8 inches of snow to most of northern and central New Hampshire. Lesser amounts of snow fell in the southeastern part of the state where most of the precipitation fell as rain.								
NHZ005>010-013>014 Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham									
	30	0500EST			0	0			Freezing Rain
		1300EST							
	A weak low pressure system moving along a stationary front brought a mixture of precipitation to the state. Rain changed to freezing rain in central and southeastern New Hampshire where the freezing rain caused roads and sidewalks to become slippery.								
NHZ001>002 Northern Coos - Southern Coos									
	31	1000EST			0	0			Moderate Snowfall
		2359EST							
NHZ003>006-009 Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Belknap									
	31	1000EST			0	0			Heavy Snow
		2359EST							
NHZ007>008-010-013>014 Sullivan - Merrimack - Strafford - Interior Rockingham - Coastal Rockingham									
	31	1000EST			0	0			Winter Storm
		2359EST							
	Low pressure moving east from the upper Ohio Valley and a second low that formed off the New England coast brought moderate snow to Coos County, heavy snow to most of central New Hampshire, and a wintry mix of precipitation to southern parts of the state. The precipitation continued until mid day on Feb. 1. In general, from 4 to 8 inches of snow fell across the state. Southern areas saw the snow mix with, and then change to, sleet and freezing rain.								
<u>NEW HAMPSHIRE, Southern</u>									
NHZ011 Cheshire									
	06	2100EST			0	0			Heavy Snow
	07	0400EST							
	Low pressure tracking from the Carolinas to southeast New England brought heavy snow to the higher terrain of Cheshire County. Snowfall totals ranged from 6 to 11 inches.								
<u>NEW JERSEY, Northeast</u>									
NJZ002>006-011 Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union									
	01	0000EST			0	0			Drought
	31	2359EST							

Storm Data and Unusual Weather Phenomena

January 2002

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

NEW JERSEY, Northeast

Dry mild weather continued for the fourth consecutive month across the region. The total average rainfall for January was 1.75 inches, or 50 percent of normal. Rainfall was below average for the last seven consecutive months, yielding an average deficit of 12.13 inches.

The combined storage in the 13 major reservoirs serving northeast New Jersey was 44.1 percent capacity, or 36 percent below normal. Capacities in the individual systems at the end of the month were:

Newark Reservoirs	42.8% (Percent capacity)
Jersey City Reservoirs	46.4%
North Jersey District	41.7%
United Water of New Jersey	49.9%

Streamflows in New Jersey remained below normal throughout January.

As a consequence of declining water levels, the New Jersey Department of Environmental Protection (DEP) upgraded the drought watch to a drought warning on January 25th for Passaic, Bergen, Essex, and Hudson counties. A drought watch remained in effect for Union County.

NJZ002

Western Passaic

06 2200EST 0 0 Heavy Snow

A low pressure system developed off the North Carolina Coast during Sunday afternoon, January 6th. As it moved quickly northeast and intensified off the New Jersey Coast during the evening, it spread heavy wet snow across the region. Periods of heavy wet snow developed after 6 pm. By 10 pm, when it ended, up to 7 inches of snow fell across parts of western Passaic County. The highest snowfall rates ranged from 1 to 2 inches per hour. A NWS Cooperative Observer from Charlotteburg measured 7 inches of snow.

NEW JERSEY, South and Northwest

NJZ001-007>010-012>026

Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean

01 0000EST 0 0 0 0 Drought
31 2359EST

Unseasonably dry weather continued across New Jersey during the month of January. While more precipitation fell during January than any month since last September, it was still drier than normal, especially across the northern half of the state. On a county weighted average, monthly precipitation totals ranged from 1.5 inches in Warren County to 2.9 inches in Mercer, Burlington and Ocean Counties. Normal monthly precipitation is around 3.4 inches.

The continued dry weather, the drop in stream flow and groundwater levels and the reduced levels in the New York State reservoirs prompted the New Jersey State Department of Environmental Protection to upgrade the drought watch to a drought warning for counties in the Delaware River Basin and southern New Jersey on November 21st. At the end of January, stream and creek flow remained well below normal and some were either tying or breaking record low stream flow for the days. The Paulins Kill (Warren County) was within 2 cubic feet per second (cfs) of its record low flow, the North Branch of the Rancocas Creek at Pemberton (Burlington County) was flowing at only 29% of its normal rate and the Great Egg Harbor River at Folsom (Atlantic County) tied its record low flow (36 cfs) for the date. Groundwater supplies were no better. Wells in Mercer and Cumberland Counties were within half a foot of their record lows.

On January 4th, Mount Olive Township (Morris County) placed mandatory water restrictions into effect. On January 24th Department of Environmental Protection (DEP) acting commissioner Bradley Campbell extended the drought warning to seven additional counties in northern New Jersey as well as all of Monmouth and Ocean Counties. The only counties not under a drought warning were Middlesex, Union and Somerset Counties. Northern New Jersey reservoirs were at 42.9 percent of capacity when they should be at 80.1 percent of capacity. Reservoir levels were lower than they were prior to Hurricane Floyd in 1999. The drought warning declaration also called for reduced releases from the Wanaque, Point View, Boonton and Split Rock Reservoirs and reduced the passing flow on the Passaic, Pompton, Ramapo, Raritan, Saddle, Shark, Jumping Brook, Manasquan and Metedeconk Rivers. While no formal restrictions were in place, state officials asked residents and businesses to curb unnecessary water use and practice conservation.

The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" on December 3rd when the supply of water in the New York City reservoir system dropped below a designated level for early December. This triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amount diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 million gallons a day to 520 million gallons a day. Diversions to northern New Jersey through the Delaware and Raritan Canal was reduced to 65 million gallons a day from 100 million gallons a day. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to

Storm Data and Unusual Weather Phenomena

January 2002

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

maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockamixon, the F.E. Walter Reservoir and Lake Wallenpaupack could be used to maintain river levels. All of these bodies of water are in Pennsylvania. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself, especially in southern New Jersey. The salt front along the Delaware River was farther upstream than it normally is during January. The emergency declaration also gives the commission the power to request that utilities and other companies that use more than one million gallons of water a day to prepare contingency plans to use less water and submit the plans to the commission.

NJZ007>008

Warren - Morris

06	1700EST 2300EST	0	0		Winter Storm
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NJZ010

Somerset

06	1700EST 2300EST	0	0		Wintry Mix
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NJZ001

Sussex

06	1800EST	0	0		Heavy Snow
07	0000EST				

A quick hitting winter storm dropped heavy snow across northwestern New Jersey and lesser amounts across Hunterdon and Somerset Counties. Little if any snow or sleet fell farther to the south and east. The event lasted only about six hours, but up to 8.4 inches of snow accumulated over the higher terrain in the northwest part of the state. Precipitation overspread the region in the form of snow during the late afternoon and very early evening on the 6th. As the low pressure system came closer to the region, warmer air moved in and changed precipitation over to sleet and even rain across much of Somerset and Hunterdon Counties. In Warren and Morris Counties, the changeover took longer and lasted for a shorter period of time. Precipitation fell as mainly snow in Sussex County. The low pressure system moved rapidly offshore and precipitation changed back to snow across the entire area before ending around midnight EST. Since this event occurred mainly during Sunday evening, the number of accidents were reduced. The greatest number reported was in Sussex County. The vehicular accidents caused scattered outages in the county. There were delayed school openings on Monday the 7th.

Specific accumulations included 8.4 inches in Sparta (Sussex County), 7.7 inches in Marcella (Morris County), 7.5 inches in Hackettstown (Warren County), Stockholm and Hamburg (Sussex County), 7.0 inches in Rockaway and Kenville (Morris County), 6.7 inches in Lebanon Township (Hunterdon County), 6.4 inches in Newton (Sussex County), 5.0 inches in Belvidere (Warren County), 3.3 inches in White House Station (Hunterdon County), 3.0 inches in Chatham (Morris County) and 1.3 inches in Branchburg (Somerset County).

The low pressure system responsible for the first winter storm of the season developed near Houston, Texas the morning of the 5th. It moved rapidly northeast and reached the Alabama/Georgia border at 7 a.m. EST on the 6th, was just east of Atlantic City at 7 p.m. EST on the 6th and reached Nova Scotia by the morning of the 7th.

NJZ001-007>010

Sussex - Warren - Morris - Hunterdon - Somerset

07	0700EST 1900EST	0	0		Snow
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While the surface low pressure system that caused the snow on Sunday the 6th was located over Nova Scotia the morning of the 7th, the upper level system that supported the surface low still had to move through Pennsylvania and New Jersey. As it did, light snow developed across the area. In central and southern New Jersey, temperatures remained above freezing and snow mainly melted as it fell. Up to one inch accumulated on grassy areas. But farther north, where temperatures were colder and the precipitation intensity was heavier, snow accumulated between 1 and 4 inches. Untreated roads became slippery.

Accumulations included 3.6 inches in Sparta (Sussex County), 3.5 inches in Hillsborough Township (Somerset County), 2.6 inches in Marcella (Morris County), 2.5 inches in Wantage (Sussex County), 2.0 inches in Rockaway Township (Morris County) and one inch in Chatham (Morris County) and Belle Mead (Somerset County). Accumulations from both days of snow in western Morris, Warren and Sussex Counties reached between 6 and 12 inches.

NJZ001-007>010

Sussex - Warren - Morris - Hunterdon - Somerset

09	0800EST 1100EST	0	0		Wintry Mix
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A wintry mix of sleet and light freezing rain overspread much of northwest New Jersey during the morning of the 9th. Precipitation amounts were generally less than five hundredths of an inch, but untreated roads became very slippery. In the rest of New Jersey, temperatures were above freezing as the sleet moved across. The light precipitation preceded a warm front that moved through the region later on the 9th. While it was warm enough aloft for precipitation to fall as rain, colder air near or at the ground forced it to change over to sleet or freeze on contact with the ground in northwest New Jersey.

Storm Data and Unusual Weather Phenomena

January 2002

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

NJZ001-007>010-012>026 **Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

13 0700EST 0 0 Wind
1700EST

NJZ025>026 **Eastern Atlantic - Eastern Ocean**

13 1100EST 0 0 High Wind (G50)
1600EST

A strong cold front moved through New Jersey around daybreak on the 13th. As its associated low pressure system intensified quickly as it moved into the Canadian Maritimes, northwest winds increased and peak wind gusts reached between 35 and 45 mph in most places. However, at coastal areas, peak wind gusts reached as high as 58 mph. The high winds tore down several trees around Noon EST and knocked out power to about 1,000 Conectiv Energy customers in Linwood and Somers Point (Atlantic County). Power was restored in about an hour. Peak wind gusts included 58 mph in Barnegat (Ocean County), 51 mph in Keansburg (Monmouth County), 48 mph in Belmar (Monmouth County), 47 mph in Point Pleasant (Ocean County), 45 mph at the Atlantic City International Airport, 43 mph in Millville (Cumberland County) and Trenton (Mercer County), 41 mph in Cape May (Cape May County) and Wrightstown (Burlington County) and 37 mph in Stewartsville (Warren County) and Somerville (Somerset County).

NJZ016>018-020>026 **Salem - Gloucester - Camden - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

19 0930EST 0 0 Wintry Mix
20 0400EST

NJZ019 **Burlington**

19 1100EST 0 0 Winter Storm
20 0200EST

NJZ001-007>010-012>014 **Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth**

19 1200EST 0 0 Snow
20 0100EST

A weak low pressure system that moved through the Gulf Coast States and exited quickly off the North Carolina coast had sufficient moisture and came close enough to the state to give the northern half of the state snow and the southern half of the state a wintry mix of snow, sleet and rain for most of the 19th. Across the southwest part of the state, snow began falling during the morning of the 19th and fell at a steady clip through sunset. Around that time, it mixed with and even changed to sleet and freezing rain between 6 p.m. and 9 p.m. EST before changing back to snow during the late evening and overnight. Across the southeast part of the state, snow also began falling during the morning of the 19th. It changed to sleet and rain during the second half of the afternoon. In some areas, the precipitation changed back to snow toward midnight EST before it tapered off and ended overnight. Across the northern half of the state, snow fell mainly between noon and midnight EST. Most accumulations were between 3 and 5 inches. Lighter amounts accumulated in the southeast part of the state.

Bridges, overpasses and untreated roadways became very treacherous. Numerous accidents were reported, especially for a Saturday. In Cape May County, a 73-year-old woman passenger died when the vehicle she was in struck a concrete culvert. In Atlantic County, minor crashes were occurring every few minutes. In Gloucester County, over 20 accidents were reported as vehicles crashed into trees, poles, creeks and other vehicles. In Middlesex County, an SUV driver was seriously injured after it flipped over in North Brunswick. That was one of about 85 accidents reported across the county.

Specific accumulations included 5.2 inches in Butler (Morris County), 5.0 inches in High Point (Sussex County) and Hillsborough (Somerset County), 4.8 inches in Whitehouse (Hunterdon County), 4.5 inches in Marlton (Burlington County) and Hamilton Square (Mercer County), 4.3 inches in Moorestown (Burlington County), 4.2 inches in Princeton (Mercer County), Marcella (Morris County), 4.0 inches in Howell and Neptune (Monmouth County), Milltown (Middlesex County), Flemington (Hunterdon County) and Swedesboro (Gloucester County), 3.9 inches in Chatham (Morris County), 3.7 inches in New Brunswick (Middlesex County), 3.6 inches in Belvidere (Warren County), 3.5 inches in Quinton (Salem County) and Beachwood (Ocean County), Lindenwold (Camden County), 3.3 inches in Estell Manor (Atlantic County), 3.2 inches in Bridgewater (Somerset County), 3.1 inches in Newton (Sussex County), 3.0 inches in Somerdale (Camden County), 2.0 inches in Toms River (Ocean County) and Millville (Cumberland County), 1.9 inches in Cape May (Cape May County), 1.3 inches in Absecon (Atlantic County),

The low pressure system responsible for the wintry mix developed in the Gulf Coast States during the evening of the 18th. By the morning of the 19th, it was located in northern Mississippi. At 11 a.m. EST the primary low moved into Tennessee as a secondary formed near Wilmington, North Carolina. At 5 p.m. EST it moved to just east of Elizabeth City, North Carolina and then accelerated to a position south of Cape Cod at midnight EST on the 20th.

Storm Data and Unusual Weather Phenomena

January 2002

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

NJZ001-007>010-012>026			Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean		0	0	0	0	Unseasonably Warm
	27	1200EST							
	30	1800EST							

A strong ridge of high pressure at the surface and higher levels of our atmosphere brought unseasonably warm air into New Jersey from January 27th through the 30th. This cemented another unseasonably warm and dry month across the region. High temperatures were in the 60s and even some record breaking 70s on the 29th and 30th. A cold front dropped through the state late in the day on the 30th and lowered temperatures closer to seasonable levels on the 31st. Highest temperatures included 72 degrees at the Atlantic City International Airport and Lumberton (Burlington County), 71 degrees at the Marina within Atlantic City, Pennsauken (Camden County), West Deptford (Gloucester County) and Millville (Cumberland County), 70 degrees in Trenton (Mercer County), Belmar (Monmouth County), Belle Mead (Somerset County) and Wildwood (Cape May County), 69 degrees in Chatham (Morris County) and Iselin (Middlesex County), 68 degrees in Flemington (Hunterdon County), 67 degrees in Hackettstown (Warren County), 66 degrees in Harvey Cedars (Ocean County), 65 degrees in Newton (Sussex County), 64 degrees in Walpack (Sussex County) and Sussex (Sussex County). January monthly mean temperatures averaged around 6 degrees warmer than normal. The preliminary monthly mean temperature of 36.5 degrees for the state was the 10th warmest January on record. At the Marina within Atlantic City, the monthly mean temperature of 42.2 degrees was the second warmest January on record. At the Atlantic City International Airport, the monthly mean temperature of 38.6 degrees was the eighth warmest January on record.

NJZ001			Sussex		0	0		
	31	0500EST						Freezing Rain
		1100EST						
NJZ001			Sussex					
	31	1800EST			0	0		Freezing Drizzle
		2359EST						

After four days of unseasonably warm weather, a cold front moved through Sussex County on the 30th. It brought much colder air into the region near the surface. Weak low pressure developed on the frontal boundary over the lower Ohio Valley late that day. Moisture rode above the frontal boundary on the 31st and spread into northern New Jersey early in the morning as rain. Unfortunately, temperatures were still below freezing at the ground as precipitation fell and it froze on exposed surfaces in Sussex County. The freezing rain ended around noon EST on the 31st. But, spotty freezing drizzle and dense fog formed during the evening of the 31st and persisted into the early morning on February 1st. About one tenth of an inch of ice accrued on objects. Untreated roadways and walkways were treacherous.

NEW MEXICO, Central and North

NMZ002-004>008-010>014-018-020>021			Northwest Mountains Including Jemez - Sangre De Cristo Mountains - Northeast Highlands - Harding - Far Northeast Plains - Westcentral Mountains - Sandia/Manzano Mountains - Central High Plains/Estancia Valley County - Conchas Lake/Guadalupe - Quay - Southwest Mountains/Upper Gila Region - De Baca - Roosevelt - Curry		0	0		
	30	1800MST						Winter Storm
	31	0600MST						

The month's only winter storm swept over the northern and central mountains and out across the eastern plains producing widespread snow of 3 to 6 inches in the lower elevations and 8 to 12 inches in the mountains. Travel in many areas of the eastern plains from Raton south to Las Vegas and Vaughn and then eastward to Clayton, Tucumcari and Fort Sumner was hampered by road closures from around midnight until nearly 10 AM the next morning.

NEW MEXICO, South Central and Southwest

NONE REPORTED.

NEW MEXICO, Southeast

NONE REPORTED.

NEW YORK, Central

NYZ024>025-044>046-055>057-062			Chemung - Tompkins - Cortland - Chenango - Otsego - Tioga - Broome - Delaware - Sullivan		0	0		
	06	1200EST						Heavy Snow
	07	1200EST						

A storm system intensified as it moved north from the gulf coast early on the 6th to the coast of New Jersey that evening. The storm was off of Maine on the 7th. The heaviest snow was during the late afternoon and evening of the 6th. Most locations had 5 to 10 inches of snow. Snow amounts of 10 to 15 inches were across Delaware County, northern Sullivan County, and eastern Broome County. At the peak of the storm snowfall rates were up to 4 inches an hour with thunder and lightning. Mainly light snow lingered

Storm Data and Unusual Weather Phenomena

January 2002

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

NEW YORK, Central

through the morning of the 7th as an upper level trough moved through the region.

NYZ009

Northern Oneida

17	0300EST 2300EST				0	0			Heavy Snow
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Low pressure moved from southern Ontario to northern New York during the morning of the 17th. Snowfall amounts were 3 to 6 inches from this storm. Colder air behind this storm caused a band of lake effect snow to set up. This band moved south into the northern third of the county midday before lifting out late the same day. The lake effect dropped another 6 to 10 inches of snow from Point Rock north to Boonville and Woodgate.

NYZ009

Northern Oneida

18	1200EST 2300EST				0	0			Heavy Snow
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A band of heavy lake effect snow moved south into the county around midday then continued moving slowly south into central Oneida County late afternoon and early evening. The lake effect then lifted back north and out of the county before midnight. The lake effect band was from west to east off of Lake Ontario. Snowfall for this event was a widespread 6 to 12 inches across northern Oneida County.

NYZ022-024-044>046-055>057-062

Steuben - Chemung - Cortland - Chenango - Otsego - Tioga - Broome - Delaware - Sullivan

19	1100EST 2300EST				0	0			Heavy Snow
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Low pressure over the southern Mississippi valley, early on the 19th, strengthened and lingered off the middle Atlantic coast during the second half of the day. The moisture with this storm was helped across the southern tier and Catskills of New York by an upper level boundary. Snow amounts were mostly 5 to 12 inches across the area. Snow to water ratios with the highest snow amounts were close to 50 to 1.

NYZ009-037

Northern Oneida - Southern Oneida

21	0900EST				0	0			Heavy Snow
22	0800EST								

An upper level disturbance brought snow to Oneida County on the morning of the 21st. A surface wind out of the south lifted moist air into the Tug Hill Plateau aiding snowfall accumulations. Lake effect snow during the overnight hours of the 21st to the 22nd added more snow. The lake effect snow was across central and northern Oneida County. Total snowfall accumulations were 6 to 15 inches north of the thruway. The highest amounts were reported in Point Rock and Western.

NYZ009-015>018-022>025-036>037-044>046-055>057-062

Northern Oneida - Yates - Seneca - Southern Cayuga - Onondaga - Steuben - Schuyler - Chemung - Tompkins - Madison - Southern Oneida - Cortland - Chenango - Otsego - Tioga - Broome - Delaware - Sullivan

31	0100EST 2359EST				0	0			Winter Storm
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A strong intensifying storm in the lower Mississippi Valley moved slowly northeast to be in New York late on February 1st. The storm pumped abundant moisture north ahead of it. The precipitation started as snow then changed over to sleet then freezing rain then finally rain. Changes happened from west to east. Across Oneida and Madison Counties 3 to 6 inches of snow and sleet fell before changing over freezing rain. Most other locations had two inches or less. By 10 AM most locations except the Mohawk Valley had changed over to freezing rain. Steady freezing rain, at times moderate, fell during the daytime. By evening the Catskills through the Mohawk Valley still had freezing rain but it had lessened in intensity. Across most of the remaining area it was just rain. The freezing rain lessened in coverage and intensity overnight before finally ending late morning on the first. Ice accumulations up to half an inch. Total water equivalents were over one inch from the Finger Lakes east to the western Mohawk Valley and northern sections of the Susquehanna Region.

NEW YORK, Coastal

NYZ067>081

Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - New York (Manhattan) - Bronx - Richmond (Staten Is.) - Kings (Brooklyn) - Queens - Nassau - Northwest Suffolk - Northeast Suffolk - Southwest Suffolk - Southeast Suffolk

01	0000EST				0	0			Drought
31	2359EST								

Dry mild weather continued for the fourth consecutive month across the region. The total average rainfall for January was 1.75 inches, or 50 percent of normal. Rainfall was below average for the last seven consecutive months, yielding an average deficit of 12.13 inches.

The combined storage in the New York City water supply reservoir system at the end of the month was at 41.3 percent capacity, which was 40.1 percent below normal. Capacities in the individual reservoirs at the end of the month were:

Storm Data and Unusual Weather Phenomena

January 2002

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

NEW YORK, Coastal

Croton System	77.5% (Percent capacity)
Roundout Reservoir	87.5%
Ashokan Reservoir	32.2%
Schoharie Reservoir	20.8%
Cannonsville Reservoir	14.9%
Pepcaton Reservoir	33.3%
Neversink Reservoir	33.7%

The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Cannonsville Reservoirs was 26.3 percent capacity (approximately 70 billion gallons). This was over 136 billion gallons below normal, or 66.3 percent below normal levels.

Streamflows in southeast New York remained below normal throughout January.

As a consequence of declining water levels, the New York State Department of Environmental Conservation (NYCDEC) declared a drought watch for the five boroughs of New York City and for Long Island on January 18th. A drought warning remained in effect for Orange, Putnam, Rockland, and Westchester counties in southeast New York.

NYZ067>068

Orange - Putnam

06	2230EST	0	0	Heavy Snow
	2300EST			

A low pressure system developed off the North Carolina Coast during Sunday afternoon, January 6th. As it moved quickly northeast and intensified off the New Jersey Coast during the evening, it spread heavy wet snow across the region. Periods of heavy wet snow developed after 6:30 pm. By 11 pm, when it ended, up to 6 inches of snow fell across parts of Orange and Putnam Counties. The highest hourly snowfall rates ranged from 1 to 2 inches per hour, which caused a partial road closure along Route 6 from Long Mountain Circle to Central Valley west bound from about 9:15 pm until 10:45 pm in Orange County.

Spotters from Orange County measured around 6 inches of snow at Tuxedo Park and Greenwood Lake. A NWS Cooperative Observer from Fahnestock State Park in Putnam County measured 6 inches of snow. Another spotter from Kent measured 5 inches of snow.

NEW YORK, East

NYZ040>041-043-047>054-058>061-064>066

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

06	2200EST	0	0	Winter Storm
07	1400EST			

A compact low pressure area developed across the Gulf States on Sunday, January 6. This storm loaded up with Gulf of Mexico moisture, then swiftly tracked up along the Atlantic seaboard, and was already in the Gulf of Maine by Monday morning. The upper level support to this system moved across the region during the day Monday and brought another round of lighter snow. While the two systems never really did evolve into an especially powerful storm, they did manage to produce one of the biggest January snowstorms in recent memory over sections of eastern New York. Snow, in excess of a foot, fell across portions of the eastern Mohawk Valley and Capital District. What was unusual was the intensity of heavy snow that fell late Sunday evening. Eight inches fell in just two hours time at Albany! The official storm total was 17.4 inches, the 5th biggest January snowstorm on record. Other snowfall totals included East Chatham, in Columbia County with 15 inches, and Slide Mountain in Green County with 17 inches. Further south, the swath of snow was in the 6-12 inch range with Poughkeepsie, in Dutchess County, receiving 8.1 inches. Much lighter snow, below the winter storm threshold, fell north of Saratoga Springs.

The snow was heavy and wet, and caused up to 2,000 power outages across the region. While the brunt of the storm fell during Sunday night, the lighter round on Monday, coupled with falling temperatures, produced icy roads. The slick surfaces produced a plethora of vehicular accidents, some of which were fatal. While the Albany International Airport remained opened, some flights were cancelled throughout the storm, and many more delayed.

NYZ061-065

Eastern Columbia - Western Dutchess

20	0000EST	0	0	Winter Storm
	0500EST			

An area of low pressure moved northeast through the Tennessee Valley early on January 19, across the Mid Atlantic region and then turned east off the DelMarVa peninsula by the early morning hours of January 20. The air mass was cold enough for all snow to fall across southeastern New York where a swath of 4 to 7 inches accumulated. Milan in Dutchess County reported 7.0 inches of new snow, and Copake in Columbia County 6.7 inches.

Storm Data and Unusual Weather Phenomena

January 2002

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

NYZ032>033-038>043-047>054	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								
31	1200EST				0	0	10K		Winter Storm
	2359EST								

An area of low pressure, in the Ohio Valley, developed along a strong stationary boundary on January 31. The storm then tracked northeast through the Saint Lawrence Valley by the end of the day and month. With cold shallow air in place over New York State, and warm moist air being forced over the cold dome, the stage was set for a potpourri of wintry precipitation. Snow and sleet developed across eastern New York during the morning hours of the 31st. The combination of snow and sleet, followed by freezing rain, produced over half an inch of water equivalent from the Capital District northward, resulting in very slick roadways and travel disruptions as well as business and school closures. A swath of 3 to 7 inches of snow and sleet accumulated north of the Capital District and Mohawk Valley, followed by up to three quarters of an inch of ice accretion. Further south, in the immediate Capital District and Mohawk Valley, only 1-3 inches of snow and sleet fell, followed by a lighter coating of ice. However, even what seemed a minor accumulation wrought havoc as it was difficult to remove. The weight of the snow and ice managed to damage the roof of The Up to Par Golf and Sports Dome, located off Route 5, in the town of Schuylers, Herkimer County.

NEW YORK, North

NYZ026-029	Northern St. Lawrence - Southern St. Lawrence								
18	0745EST				0	0	2K		Heavy Snow
	1445EST								

An area of low pressure moved across southern Canada during Friday, January 18th. A west to southwest flow of air across Lake Ontario caused a lake effect snow band with LOCALLY heavy snow across the southern third of St Lawrence county. In Oswegatchie, a total of around 18 inches fell while in Wanakena 8 to 11 inches fell. The snow was localized in the band which drifted south of the area during the afternoon of the 18th.

NYZ028-031	Northeast Clinton - Southwest Clinton								
24	1300EST				0	0	2K		Snow Squalls
	1800EST								

A cold front moved across the area with snow squalls reported in northeast New York. Generally 3 to 5 inches fell with the heavier squalls. In Peru (Clinton county) 4.5 inches of snow was reported.

NYZ026>031-034>035	Northern St. Lawrence - Northern Franklin - Northeast Clinton - Southern St. Lawrence - Southern Franklin - Southwest Clinton - Western Essex - Eastern Essex								
31	1600EST				0	0	80K		Winter Storm
	2359EST								

Low pressure over the Ohio valley Thursday evening, January 31st moved northeast into southern Canada during Friday, February 1st. Snow overspread the area during the afternoon of January 31st. The snow mixed with sleet during the night of the 31st. The mixed precipitation continued into February 1st as freezing rain changing to rain. Snow accumulations were generally 4 to 10 inches with 1/8th to 1/4 of an inch of ice on top of the snow creating dangerous winter conditions. A few accumulation reports were: Peru (Clinton county), Saranac Lake (Franklin county) and Lake Placid (Essex county) all with 7 inches. In St Lawrence county, Gouverneur reported 10 inches.

NEW YORK, West

NYZ006>008	Oswego - Jefferson - Lewis								
18	0055EST				0	0	23K		Heavy Snow
	2211EST								

Low pressure moved across Ontario and Quebec. The cold air behind the system produced lake effect snows over the eastern Lake Ontario region. The lake effect consolidated into a single band during the evening of the 17th and stalled over Jefferson county through the morning of the 18th. The single band dropped slowly south across the region during the afternoon and settled across Oswego county for several hours during the evening before shutting down shortly after midnight. Snowfall totals were over a foot across much of Lewis, southern Jefferson and northern Oswego counties with 8-10 inches around Watertown and 4-8" over southern Oswego county.

NYZ001>004-010>014-019	Niagara - Orleans - Monroe - Wayne - Erie - Genesee - Wyoming - Livingston - Ontario - Chautauqua								
31	0730EST				0	0	6.8M		Ice Storm
	1710EST								

NYZ005>008	Northern Cayuga - Oswego - Jefferson - Lewis								
31	1245EST				0	0	900K		Heavy Snow
	1335EST								

A three to five inch snowfall overnight of the 30th-31st turned to freezing rain during the morning hours. Ice accumulations of one-half to three-quarters inch occurred. Hundreds of thousands were left without power as the heavy ice build-up downed trees and power lines. Some areas were without power for up to 72 hours. Winds picked up and gusted to 55 mph. Trees and tree limbs fell

Storm Data and Unusual Weather Phenomena

January 2002

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

blocking roads and damaging homes and automobiles. Tree damage included large and small limb breakage and bark damage as well as the uprooting of trees. States of Emergency were declared across the Niagara Frontier counties. East of Lake Ontario snowfall amounts of six to eight inches were followed by one-quarter to one-half inch of ice.

NORTH CAROLINA, Central

NCZ007>011-021>028- Person - Granville - Vance - Warren - Halifax - Forsyth - Guilford - Alamance - Orange - Durham - Franklin - 038>043-073>078- Nash - Edgecombe - Davidson - Randolph - Chatham - Wake - Johnston - Wilson - Stanly - Montgomery - 083>086-088>089 Moore - Lee - Harnett - Wayne - Anson - Richmond - Scotland - Hoke - Cumberland - Sampson
03 0000EST 0 0 Winter Storm
2000EST

The first winter storm of the season brought significant snowfall to central North Carolina. An initial round of snow began to fall during the evening of the 2nd. The snow was heavy at times, and accumulated between 3 and 5 inches. The snow changed to sleet and light freezing rain in the Coastal Plain through the early morning hours of the 3rd. After a period of little or no precipitation on the morning of the 3rd, snow began to fall again across the entire area, and was heavy at times, adding an additional 4 to 8 inches. Storm total snowfall amounts were over a foot from the Sandhills northeast across the Piedmont to the Virginia border. The Northwest Piedmont, including the Triad area, received 6 to 10 inches. Snowfall amounts were lower in the Southern and Central Coastal Plain, between 4 and 8 inches, due to the snow mixing with sleet and freezing rain.

NCZ007-021>024

Person - Forsyth - Guilford - Alamance - Orange
06 1000EST 0 0 Winter Storm
1300EST

A period of freezing rain caused dangerous driving conditions across the Northwest Piedmont on the morning of January 6. Icy roads were reported across the Northwest Piedmont, mainly to the north of Interstate 40. Conditions were made worse by existing snow cover from a snow storm a few days earlier. The freezing rain fell for a few hours before changing over to rain in the afternoon.

NORTH CAROLINA, Central Coastal

NCZ029-044-079- Martin - Pitt - Greene - Duplin - Lenoir - Jones
090>092

02 2000EST 0 2 Winter Storm
04 0400EST

The coastal plain of North Carolina experienced a one two punch of winter weather on January 2nd and again on the 3rd. Snow, sleet and freezing rain blanketed inland areas with one to two inches of accumulation late on January 2nd. Gusty winds of 20 mph on the morning of the 3rd caused numerous trees and power lines to fall causing minor damage and numerous power outages. A second snow event began on the evening of the 3rd and dropped anywhere from 4 to 8 inches of snow across the region. Snowfall rates of over 2 inches per hour were observed in many locations. Two injuries occurred in a head- on collision between two vehicles in Pitt county due to ice covered roads.

NCZ045>047-080>081- Washington - Tyrrell - Western Dare - Beaufort - Western Hyde - Craven - Pamlico - Carteret - Onslow -
093>095-098-103>104 Eastern Dare - Eastern Hyde

03 1500EST 0 0 Winter Storm
04 0400EST

Eastern North Carolina was blanketed by ice and snow beginning later in the afternoon on January 3rd. Snowfall continued for several hours and ended over much of the area by 4am on the 4th. Mainland locations received 4 to 6 inches of snow while along the outer banks only a trace to an inch of snow was recorded from Manteo to Cape Hatteras, mainly due to gusty winds. On the Island of Ocracoke, four inches of snow was recorded within the village.

NCZ095-098-103>104

Carteret - Onslow - Eastern Dare - Eastern Hyde
06 1400EST 0 0 High Wind (G62) M
1500EST

Strong non-convective winds of 60 to 70 mph impacted the Crystal Coast and Outer Banks during the afternoon of March 6, 2001. No damage was reported, however, trees were reported down in some areas as well as numerous power outages.

NORTH CAROLINA, Extreme Southwest

NCZ060>061 Cherokee - Clay
05 2300EST 0 0 Winter Storm
06 1900EST

A winter storm brought only light amounts to extreme southwest North Carolina. Amounts averaged between a dusting and 1 inch.

NORTH CAROLINA, North Coastal

NCZ012>017-030>032- Northampton - Hertford - Gates - Pasquotank - Camden - Western Currituck - Bertie - Chowan - Perquimans
102 - Eastern Currituck
02 2100EST 0 0 Winter Storm
03 2300EST

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Property	Crops	Character of Storm
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NORTH CAROLINA, North Coastal

A winter storm produced 5 to as much as 12.5 inches of snow across northeast North Carolina. Some specific higher snow totals included: Lasker in Northampton county 12.5", Seaboard in Northampton county 9.0", Colerain in Bertie county 8.0", Ahoskie in Hertford county 7.0", Elizabeth City in Pasquotank county 6.5", Windsor in Bertie county 6.0", and Edenton in Chowan county 5.0". Local law enforcement agencies reported numerous accidents. Most, if not all schools in the area, were closed Thursday, January 3rd and Friday, January 4th due to very slippery road conditions.

NORTH CAROLINA, Northwest and North Central

NCZ004>006-020 Stokes - Rockingham - Caswell - Yadkin

02	2100EST				0	0			Heavy Snow
03	1100EST								

Snow developed during the evening of the 2nd and accumulated 5 to 8 inches before ending midday on the 3rd.

NCZ001>002-018 Ashe - Alleghany - Watauga

19	0600EST				0	0			Winter Storm
	2000EST								

Freezing rain during the 19th resulted in a quarter of an inch of glaze.

Surry County

Countywide	20	0300EST			0	0			Black Ice
		0700EST							

Wilkes County

Countywide	20	0300EST			0	0			Black Ice
		0700EST							

Several automobile accidents were reported in Wilkes and Surry counties Sunday morning as widespread black ice was reported on roads.

NORTH CAROLINA, South Coastal

NCZ087-096>097-099>101 Robeson - Bladen - Pender - Columbus - Brunswick - New Hanover

02	1500EST				0	0			Winter Storm
04	0300EST								

Low pressure formed in the Gulf of Mexico the morning of January 2nd and moved up the eastern seaboard. Moisture moved north, overrunning cold high pressure, setting up a wintery mix for North and South Carolina. The precipitation began as snow over South Carolina that afternoon, and expanded to include North Carolina later that afternoon. The precipitation changed to freezing rain and sleet, then to rain over coastal sections of North and South Carolina that evening and continued through the morning of January 3rd. The precipitation in the inland counties remained as a mix of freezing rain and sleet. As the the low pressure center continued to track north, cold air wrapped around the system, changing the precipitation back to all snow by midday on January 3rd, and continued until the snow tapered off by early morning on January 4th.

The snowfall totals were heaviest over portions of Darlington, Marlboro, and Robeson counties, where between 6 to 8 inches fell, with some sleet mixed in. Counties further south and east, including Florence, Marion, Dillon, and Bladen counties received between 4 and 6 inches of snow, including between a half and an inch of freezing rain and sleet. Along coastal counties, between 1 and 3 inches of snow occurred, with around a half inch of sleet and freezing rain.

There were numerous traffic accidents reported, although there was no information on injuries. In Florence county alone, emergency personnel reported 167 accidents, over double the normal amount. There were over 1500 traffic accidents reported in South Carolina alone. The freezing rain from the storm forced many trees and large branches to snap, causing numerous power outages around the area. More than 25,000 customers were without power in Horry, Georgetown, and Brunswick counties. Secondary roads in most areas proved treacherous, but road crews managed to keep highways and primary roads open. Many businesses and schools were closed on January 3rd and 4th, including 64,000 state workers.

NCZ097-101

Pender - New Hanover

06	1100EST				0	0			High Wind (G45) ^M
	1800EST								

Strong south winds ahead of a cold front produced gusts over 50 mph in both Pender and New Hanover counties. In the town of Watha, a gust of 51 mph was reported. In Wrightsville Beach, weather instruments reported a gust to 52 mph. The ASOS site at the Wilmington airport reported a gust to 48 mph. No damage was reported.

NORTH CAROLINA, Southwest

NCZ052

Haywood

01	0000EST				0	0			Drought
31	2359EST								

Groundwater depletion from the long-term drought caused streams and wells, which people depended on for generations, to dry up.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Southwest</u>									
NCZ071-082			Mecklenburg - Union						
		02 2000EST			0	0			Heavy Snow
		03 1200EST							
		Heavy snow started falling early in the evening and reached heavy snowfall accumulation status between 8 pm and midnight in this part of the piedmont. Accumulation totals reached 6 to 10 inches between Waxhaw and Monroe.							
NCZ034>037-055>057-062-067>070-072			Caldwell - Alexander - Iredell - Davie - Burke - Catawba - Rowan - Macon - Rutherford - Cleveland - Lincoln - Gaston - Cabarrus						
		03 0000EST			0	0			Heavy Snow
		1200EST							
		Flurries and light snow began in the early evening and became moderate to heavy by late evening on the 2nd. Heavy snowfall accumulations were reached across this portion of the foothills and piedmont overnight on the 3rd, with 4 to 6 inches observed by noon.							
NCZ063>065			Southern Jackson - Transylvania - Henderson						
		03 0400EST			0	0			Heavy Snow
		1200EST							
		Snow continued during the early morning hours on the 3rd and finally added up to heavy snowfall accumulations across this portion of the North Carolina mountains. Snowfall amounts ranged from 3 to 6 inches across the area by noon.							
NCZ057			Rowan						
		04 0400EST			1	0			Extreme Cold
		A woman died, apparently from exposure to the cold weather. Her body was found at the steps of her home in the morning. F?OU							
NCZ033-048>052-058>059-062			Avery - Madison - Yancey - Mitchell - Swain - Haywood - Graham - Northern Jackson - Macon						
		06 0900EST			0	0			Heavy Snow
		1500EST							
		Snow began in the early morning, reaching accumulations of 4 to 8 inches by 3 pm. The highest accumulations were in the high elevations. Some sleet was mixed in with the snow.							
NCZ054>056			Mcdowell - Burke - Catawba						
		06 0900EST			0	0			Ice Storm
		1500EST							
		Snow and sleet began in the early morning, with 1 to 4 inches of mainly sleet accumulating by early afternoon.							
NCZ035-056-068			Alexander - Catawba - Cleveland						
		06 2000EST			0	0			Icy Roads
		07 0900EST							
		Icy roads developed in the evening from rain which fell during the day, resulting in numerous accidents.							
NCZ036			Iredell						
		20 0800EST			0	0			Icy Roads
		Ice which developed overnight from rain the previous day glazed Interstate 77. A 3 mile stretch of the highway was closed for a time in the early morning.							
NCZ033-049>050			Avery - Yancey - Mitchell						
		21 0400EST			0	0			Freezing Rain
		0800EST							
		Light freezing rain, mixed with a bit of sleet and snow, caused a light glaze of ice on some roads.							
NCZ033			Avery						
		22 2300EST			0	0			Freezing Rain
		23 0100EST							
		Light freezing rain caused a glaze of ice on roads in the higher elevations for a couple of hours.							
Yancey County Countywide									
		23 1300EST			0	0			Flash Flood
		1500EST							
		A few creeks were reportedly flooding.							

Storm Data and Unusual Weather Phenomena

January 2002

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

Cabarrus County

East Portion	23	1300EST 1700EST			0	0			Flood
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Persistent overnight and morning rainfall resulted in the flooding of a couple of roads. One was northeast of Concord, and another southeast of Mt. Pleasant.

NCZ051

Swain

	23	1500EST			0	0			Mudslide
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Several mudslides resulted from heavy rainfall. One of the slides knocked a trailer off its foundation.

Madison County

Northwest Portion	23	1600EST 1900EST			0	0			Flash Flood
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Little Laurel Creek flooded - and perhaps some small tributaries. Highway 208 was partially closed with one lane flooded.

Swain County

4 NW Lauada	24	0815EST			0	0			Thunderstorm Wind (G50)
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A few trees were blown down around Fontana Lake. In addition, a power line was blown down, resulting in a power outage.

Madison County

Mars Hill	24	0830EST 0845EST			0	0			Thunderstorm Wind (G50)
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A few trees were blown down.

Madison County

Marshall	24	0830EST 0845EST			0	0			Thunderstorm Wind (G50)
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A few trees were blown down.

Haywood County

Canton	24	0830EST			0	0			Thunderstorm Wind (G50)
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2 trees were reported blown down.

NORTH DAKOTA, Central and West

NDZ044>046

Adams - Sioux - Emmons

	28	0500CST 1700CST			0	0			Heavy Snow
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An upper level disturbance moved across a shallow boundary of arctic air covering the northern plains and produced a narrow band of heavy snow across southern North Dakota. The heaviest snowfall of 6 to 8 inches fell just north of the North Dakota southern border from Hettinger to Selridge to Strasburg. A more general snowfall of 2 to 5 inches fell from the South Dakota border, northward to just south of Interstate 94 in southern North Dakota.

NORTH DAKOTA, East

NONE REPORTED.

OHIO, East

OHZ049-059

Harrison - Belmont

	07	0600EST 0800EST			0	0			Heavy Snow
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A winter storm spread heavy snow across portions of east central Ohio. The snow started falling during the early morning hours of the 6th, and continued into the overnight hours of the 7th. By the early morning hours of the 7th, snowfall totals at Belmont and Harrison Counties ranged between 4 and 7 inches, with surrounding counties generally reporting between 3 and 5 inches of accumulation.

OHIO, North

OHZ011

Cuyahoga

	07	1000EST 2200EST			0	0	15K		Heavy Snow
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Northwesterly flow across Lake Erie caused lake effect snow bands to develop. Up to eight inches of snow fell in southeastern Cuyahoga County.

OHZ003-006>008

Lucas - Wood - Ottawa - Sandusky

	30 31	2100EST 1000EST			0	0	3M		Ice Storm
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Storm Data and Unusual Weather Phenomena

January 2002

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

Afternoon temperatures reached into the 75 to 80 degree range. Waterloo had 79 degrees, Gallipolis and South Point both registered 78 degrees, Marietta saw 75 degrees, while Athens reported 74 degrees.

OHIO, Southwest

OHZ079-088

Brown - Scioto

19	1100EST 1200EST				0	0			Winter Storm
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A low pressure center over the gulf states developed and moved towards the Carolinas. The northern edge of the snow associated with this low affected portions of south central Ohio with up to 5 inches of snowfall.

OHZ079-081-088

Brown - Adams - Scioto

24	0619EST 0900EST				0	0			Flood
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Numerous roads were closed across the county due to high water.

OHZ034

Mercer

31	2337EST 2359EST				0	0			Flood
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High water affected several roads across the southern part of the county.

OKLAHOMA, Eastern

Okfuskee County

Weleetka	23	1500CST			0	0			Hail (0.75)
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Okfuskee County

Weleetka	23	1500CST			0	0			Thunderstorm Wind (G52)
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Pittsburg County

Featherston	23	1510CST			0	0			Hail (0.75)
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Pittsburg County

Quinton	23	1525CST			0	0			Hail (0.88)
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Tulsa County

2 NE Bixby	23	1535CST			0	0			Thunderstorm Wind (G51) ^M
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Sequoyah County

5 SW Sallisaw	23	1605CST			0	0	100K		Thunderstorm Wind (G61)
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Thunderstorm winds estimated at 70 miles an hour produced damage to various objects along Kerr Lake to the southwest of Sallisaw. The damage included a small garage blown off its foundation, a travel trailer which was blown over, a chicken house which was blown off its foundation and a porch which was blown off a house.

Sequoyah County

Sallisaw	23	1620CST			0	0			Hail (0.75)
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OKZ054>056-059

Osage - Washington - Nowata - Pawnee

29	2100CST				0	0	1.5M		Ice Storm
30	2300CST								

The combination of a slow moving upper level system moving east out of the rockies and a shallow cold air mass moving south into Oklahoma resulted in a widespread rain event across eastern Oklahoma from the evening of the 29th into the next night. Temperatures remained above freezing across much of eastern Oklahoma. However, across a large part of Nowata, Washington, Osage and Pawnee counties, the temperature did fall a few degrees below freezing. While the air temperature was below freezing in those counties, soil temperatures remained above freezing. Thus, roads did not become icy. Exposed objects such as power lines and trees did receive a thick coating of ice, however, as two to three inches of rain fell. Many tree limbs and power lines fell down due to this ice. As many as 18,000 homes and businesses had power outages.

OKZ076

Le Flore

31	1700CST 2359CST				0	0			Flood
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The Poteau river near Poteau rose above its flood stage of 24 feet at 5 pm cst on January 31.

The river crested at 25.6 feet the same day. Flooding along the river lasted into the first few days of February.

OKZ076

Le Flore

31	1800CST 2359CST				0	0			Flood
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The Poteau river near Panama rose above its flood stage of 29 feet at 6 pm cst on January 31. Moderate flooding was reported along the river as it crested and fell below its flood stage during the first few days of February.

Storm Data and Unusual Weather Phenomena

January 2002

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

NONE REPORTED.

OKLAHOMA, Panhandle

OKZ003

Beaver

29 1800CST

0 0

Ice Storm

30 0600CST

An arctic air mass in place over the eastern Oklahoma panhandle and abundant moisture over the cold air produced one quarter of an inch of ice at Beaver Oklahoma.

OKZ001>003

Cimarron - Texas - Beaver

30 0600CST

0 0

Winter Storm

31 0600CST

A strong low pressure system in the upper atmosphere approached the Oklahoma panhandle from the west as a cold arctic air mass remained in place along with abundant moisture. Six inches of snow was reported at Boise City and at Guymon Oklahoma while five inches of snow and a quarter of an inch of ice was reported at Beaver Oklahoma. Slick roads created by the winter storm indirectly contributed to a fatal accident four miles north of Bryan's Corner Oklahoma in Beaver county on U.S. Highway 83 at 0820 CST. A seventeen-year old male was killed in the collision of two vehicles. Several other accidents were reported across the Oklahoma panhandle due to the snow and ice.

OKLAHOMA, Western, Central and Southeast

Coal County

Lehigh

23 1408CST

0 0

Hail (0.88)

Hail was reported near Highway 75.

Seminole County

6 N Wewoka

23 1445CST

0 0

Hail (0.75)

OKZ004>029-033>035-038 **Harper - Woods - Alfalfa - Grant - Kay - Ellis - Woodward - Major - Garfield - Noble - Roger Mills - Dewey - Custer - Blaine - Kingfisher - Logan - Payne - Beckham - Washita - Caddo - Canadian - Oklahoma - Lincoln -**

Grady - McClain - Cleveland - Harmon - Greer - Kiowa - Comanche

30 0100CST

0 0

300M

Ice Storm

31 1200CST

Freezing rain began across the northwest third of the state during the evening of the 29th with significant accumulations of ice developing shortly after midnight on the 30th. Freezing rain shifted southward during the early morning of the 30th with moderate to occasionally heavy freezing rain occurring in a 50 to 60 mile wide band, extending from north central Oklahoma, near Ponca City and Perry, southwestward toward Enid, Kingfisher, Oklahoma City, Weatherford, Anadarko, and Hobart. In many areas, the freezing rain continued for 12 to 24 hours, with ice accumulations of 1 to 2 inches commonly observed. As the end of the storm neared, freezing rain transitioned to sleet and snow across Harper, Ellis, Woods, and Woodward Counties, with only a brief transition to sleet across central Oklahoma, including areas along and near Interstate 35.

The worst damage resulting from ice accumulations occurred from near Ponca City, Blackwell, Red Rock, Perry, and Stillwater, southwestward through Enid, Canton, Watonga, Hennessey, Kingfisher, and Guthrie, to near Clinton, Weatherford, El Reno, northwest side of Oklahoma City, Edmond, Cordell, Binger, and Minco. The damage was catastrophic in places, with thousands of utility poles brought down by the weight of the ice, along with thousands of trees. Dozens of towns were left completely without power for days, with some residents expected to be without power for weeks. At one point, nearly 250,000 residents were left without power. In addition to several traffic-related fatalities during the storm, partially due to wet roads, an elderly woman died from hypothermia in her home in Hennessey in Kingfisher County, when electricity to her house was knocked out. Total damage across the state is expected to be in the hundreds of millions of dollars.

OREGON, Central and East

ORZ042-045

North Central Oregon - Foothills Of The Blue Mountains

02 0100PST

0 0

Ice Storm

0900PST

Cold air was in place along the Oregon Cascades and the Foothills of the Blue Mountains. An approaching warm front brought rain, but as it fell through the cold air, ice built up on tree limbs and road surfaces. This ice storm left 1/4 to 1/2 inch accumulation, bringing down several power lines and cancelling school in the cities of Condon and Moro.

ORZ050

Wallowa County

03 0500PST

0 0

Heavy Snow

1130PST

Heavy snow fell overnight in Wallowa County. Joseph, at 4085 feet reported 8 inches of snow. Enterprise, at 3800 feet, reported between 7 and 8 inches of snow.

Storm Data and Unusual Weather Phenomena

January 2002

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

ORZ049	Grand Ronde Valley								
	06	1230PST 1500PST			0	0			High Wind (G42) ^M
	Sustained winds of over 45 mph were measured by a storm spotter in the Grande Ronde Valley for several hours.								
ORZ044	Lower Columbia Basin								
	12	1000PST 1315PST			0	0			High Wind (G44) ^M
	Sustained winds of over 40 mph were measured for several hours outside Hermiston by an automated wind sensor.								
ORZ045	Foothills Of The Blue Mountains								
	12	1022PST			0	0			High Wind (G52) ^M
	High winds with a peak gust of 60 mph reported at the Pendleton Airport and a peak gust of 70 mph reported at the Pendleton National Weather Service Office.								
ORZ046-048	Blue Mountains - Ochoco-John Day Highlands								
	19	2200PST			0	0			Heavy Snow
	20	1730PST							
ORZ049	Grand Ronde Valley								
	19	2200PST			0	0			Winter Storm
	20	1900PST							
	A winter storm brought heavy snow to Northeast Oregon. Tollgate, at an elevation of 5100 feet, received 12 inches. Granite reported over 10 inches at an elevation of 4800 feet. Twelve inches were reported at North Powder, at an elevation of 3250 feet. Strong winds also played a role in the Grande Ronde Valley, causing blowing and drifting snow.								

OREGON, Northwest

ORZ001>002-006>007	Northern Oregon Coast - Central Oregon Coast - Greater Portland Metro Area - Central Willamette Valley								
	06	0300PST			0	0			Winter Storm
	07	2100PST							
	A winter storm brought high winds, heavy rain, and warmer temperatures to the area, resulting in flooding and mud and land slides. High winds knocked out power along the coast from Cannon Beach and Seaside to Warrenton for varying periods of time. Ten inches of water was reported on US101 south of Seaside. A clogged culvert resulted in a washout on Highway 53- the cost of repair is estimated at \$30K. A private single engine plane was flipped by the gusty winds at the Astoria Regional Airport in Warrenton. Land or mudslides were reported on South River Road in Salem and Saltzman Road outside of Portland. Reported winds included Netarts 35 to 45 mph with gusts to 71 mph, Cannon Beach 40 to 45 mph with gusts to 63 mph, Newport Jetty 44 gusts mph gusting to 65 mph, Newport airport 41 mph gusting to 60 mph, Lincoln City gusts to 61 mph, Seaside gusts to 68 mph, Tillamook 60 mph, Florence 41 mph, and Garibaldi 80 mph.								
ORZ001>002	Northern Oregon Coast - Central Oregon Coast								
	11	0800PST			0	0			High Wind (G40) ^M
	12	2100PST							
	A Pacific storm caused winds at Garibaldi of 46 mph, the Newport Jetty 31mph with gusts to 43 mph, and winds at Florence of 45 mph.								
ORZ003-011	Coast Range Of Nw Oregon - Northern Oregon Cascades								
	18	0900PST			0	0			Heavy Snow
	19	2200PST							
	Snowfall reported included 12 inches at Mt Hood Meadows, 11 inches at Timberline and Government Camp, 9 inches at Bennett Pass, 7 inches and 7 inches at Santiam Pass. In the Coastal Mountains both Sunset and Wilson reported 1 inch of snow.								
ORZ001>004-006-009>013	Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon - Central Coast Range Of W Oregon - Greater Portland Metro Area - Western Columbia River Gorge - North Oregon Cascades Foothills - Northern Oregon Cascades - Cascade Foothills In Lane County - Cascades In Lane County								
	19	0300PST			0	0			Winter Storm
	22	2100PST							
	A strong winter storm lingered over the area, bringing high winds to the coast and heavy snows to the inland areas of Northwest Oregon. The Newport Jetty reported sustained winds to 44 mph with gusts to 51 mph, while Garibaldi and Florence reported 40 mph winds. 72 hour snowfall totals included 70 inches at Santiam Pass, 66 inches at Timberline, 60 inches at Mt Hood Meadows, 57 inches at Bennett Pass and Government Camp, 44 inches at Blue Box Pass, and 35+ inches at Willamette Pass. In the Coast Range snowfalls included 12 inches at Buxton, 6 inches at Mist, 10 inches at Sunset Summit, and 9 inches at Wilson River Summit. In the Cascade Foothills the storm dumped 24 inches at Detroit, 16 inches at McKenzie Bridge, 14 inches at Brightwood, 10 inches above Estacada, and 6 inches at Pleasant Hill and Walterville. In the Columbia River Gorge accumulations were generally 5 inches above 500 ft elevation and 2 to 3 inches below. Skyline Boulevard in the Portland West Hills reported 2 to 3 inches.								

Storm Data and Unusual Weather Phenomena

January 2002

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

ORZ001>007-009>013 Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon - Central Coast Range Of W Oregon - Lower Columbia - Greater Portland Metro Area - Central Willamette Valley - Western Columbia River Gorge - North Oregon Cascades Foothills - Northern Oregon Cascades - Cascade Foothills In Lane County - Cascades In Lane County

24 0200PST 0 0 Winter Storm
27 1200PST

Another strong winter storm moved into Northwest Oregon and lingered over the area for several days, bringing high winds to the coast and heavy snowfalls to inland areas. Florence reported sustained winds to 46 mph with gusts to 63 mph, Newport Jetty 39 mph with gusts to 53 mph, and Garibaldi 42 mph. Storm total snowfall accumulations included 32 inches at Timberline Lodge on Mt Hood, 30 inches at Santiam Pass and Mt Hood Meadows, 27 inches at Bennett Pass, 24 inches at Blue Box Pass, 23 inches at Willamette Pass, and 21 inches at Government Camp in the Cascades. In the Coast Mountains, Buxton reported 22 inches, Wilson River Summit 15 inches, Sunset Summit 13 inches, and Mist 6 inches. In the Foothills, Detroit had 13 inches, the Upper Highlands 10 to 12 inches, and Brightwood 8 inches. In the Willamette Valley, the South Salem Foothills had 12 to 16 inches, Skyline Boulevard in the Portland West Hills 8 to 12 inches, Oregon City 5 to 6 inches, Amity 8 inches, Dallas 7 inches, Newburg 4 to 7 inches, West Linn 4 inches, and Corvallis 4 inches. Along the Lower Columbia, Clatskanie reported 8 inches. Along the Coastal Beaches, both Seaside and Cannon Beach reported 1 to 2 inches. In the Columbia River Gorge 1 to 2 inches were reported.

ORZ003>004-006>007 Coast Range Of Nw Oregon - Central Coast Range Of W Oregon - Greater Portland Metro Area - Central Willamette Valley

27 0900PST 0 0 Heavy Snow
28 2100PST

Heavy snows fell across the Coastal Mountains and Willamette Valley. Portland General Electric reported 7000 homes lost power in the Salem, Silverton, Scotts Mills, Turner and Jefferson areas due to snow laden trees and branches snapping and falling into power lines. In the Coast Range, Sunset Summit reported 20 inches, Wilson River Summit reported 16 inches, Buxton 22 inches, and Swiss Home 14 inches. along the coast Nehalem reported 4 inches of new snow. In the Willamette Valley, Oregon City had 3 inches, Tigard 4 inches, Salem 3 to 4 inches, Corvallis 4 inches, Portland 2 inches, SW Portland 4 inches, and Skyline Boulevard 7.5 inches.

ORZ001-006-009 Northern Oregon Coast - Greater Portland Metro Area - Western Columbia River Gorge

29 0900PST 0 0 Heavy Snow
31 2100PST

Reported snowfall amounts included 1 inch at Astoria and Tillamook on the Oregon Coast, 1 to 2 inches on Skyline in the Portland West Hills, and 2 inches at Corbett in the Western Columbia River Gorge.

ORZ011 Northern Oregon Cascades

31 0300PST 0 0 Heavy Snow
2100PST

Heavy snows fell in the Cascades. Santiam Pass reported 14 inches, Mt Hood Meadows 11 inches, Tombstone 10 inches and Bennett Pass 7 inches.

OREGON, Southeast

ORZ062 Baker

03 1930PST 0 0 Fog
04 1000PST

Dense fog developed in Baker County on the evening of January 3rd. Visibility was reduced to a quarter mile throughout the night. Morning traffic on Interstate 84 was slowed by limited visibility and slick roadways. Visibility began to improve by 1000 am.

ORZ062-064 Baker - Lower Treasure Valley

19 0200PST 0 0 Heavy Snow
21 1300PST

A series of Pacific storms dropped a total of 16 to 26 inches of snow across Baker County during the weekend of January 19th through 21st. Snowfall in the Oregon Lower Treasure Valley was limited to the afternoon of the 20th when 2 to 3 inches fell.

OREGON, Southwest

ORZ021-021 South Central Oregon Coast

01 1100PST 0 0 High Wind (G67) ^M
1400PST

Cape Blanco recorded the first of three peak gusts of 67 mph. The others were reported at 1200 and 1400 PST. A High Wind Warning was issued for the headlands of Oregon zones ORZ021/022 at 0510 PST on 01/01 and expired at 0510 PST on 01/02. The above observations verified the warning. Cape Blanco exceeded warning criteria continuously between 1000 and 1400 PST on 01/01/02.

Storm Data and Unusual Weather Phenomena

January 2002

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

ORZ021-021-021-021-021 South Central Oregon Coast

06	0900PST				0	0			High Wind (G68) ^M
07	0714PST								

Cape Blanco recorded a sustained wind of 53 mph.

A High Wind Warning was issued for the coastal headlands of Oregon zones ORZ021/022 at 0430 on 01/06 and expired at 1750 PST on 01/07. The above observations were the strongest recorded during this event and they easily verified the warning. The peak gusts at Cape Arago exceeded warning criteria every hour between 1400 and 2100 PST on 01/06. The peak gusts at Cape Blanco exceeded the criteria every hours between 0500 PST on 01/06 and 0000 PST on 01/07.

ORZ031

Central & Eastern Lake County

07	1944PST				0	0			High Wind (G61) ^M
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Spotter LA20 reported sustained winds 30-40 mph since 1800 PST with a peak gust of 61 mph recorded at 1838 PST.

No warning was in effect when this report was received, but a Wind Advisory was issued at 2000 PST in response to this report. The advisory expired at 0410 PST on 01/08.

ORZ026-029-029-029>030

Jackson County - Klamath Basin - Northern & Eastern Klamath County & Western Lake County

21	0852PST				0	0			Heavy Snow
22	0800PST								

Spotter JA45 reported 4 inches of snow overnight.

ORZ030

Northern & Eastern Klamath County & Western Lake County

22	1015PST				0	0			High Wind (G45)
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Spotter KL97 reported winds 35-45 mph 0700-0900 PST.

A Winter Storm Warning was issued for Oregon zones ORZ027/028 at 2100 PST on 01/19. It was later extended to ORZ030 north of Diamond Lake Junction at 2213 PST on 01/19, and to ORZ025 above 3500 feet at 1430 PST on 01/20. The warnings were cancelled at 1450 PST on 01/21. In addition to this, a Blizzard Warning was issued for Oregon zone ORZ031 at 1245 PST on 01/20 and cancelled at 1330 PST on 01/21.

From the above reports, it is evident that ORZ029 should have been included in the warning area, it was covered only by a Snow Advisory. Also, the warning area should have been extended to ORZ026 toward the end of the event when snow levels dropped down to the valley floors on the west side of the Cascades. The Blizzard Warning did not verify, but one station at Summer Lake in the warning area got 5 inches of snow. The High Wind report at Chemult occurred after all warnings were cancelled.

ORZ021-021-021-021

South Central Oregon Coast

24	2100PST				0	0			High Wind (G65) ^M
25	0100PST								

Cape Blanco recorded a peak gust of 65 mph.

A High Wind Warning was issued for the headlands of Oregon zones ORZ021/022 at 0530 PST on 01/24 and expired at 1020 PST on 01/25. The warning verified at Cape Arago and Cape Blanco, and the highest recorded sustained winds and peak gusts are listed above. Cape Blanco met high wind warning criteria on all but two observations from 02Z to 14Z on 01/25.

ORZ023>024-024-024-024

Central Douglas County - Eastern Curry County & Josephine County

26	0800PST				0	0			Heavy Snow
27	1800PST								

Spotter DO35 in Glendale reported 5.5 inches of snow overnight.

A Snow Advisory was issued for ORZ021/022/023/024/025/026 above 500 feet at 0302 PST on 01/27 and expired at 0951 PST on 01/27 (ORZ026) and at 2128 PST on 01/28 for ORZ021/022/023. No expiration statement was issued for ORZ024/025 which was an error.

The above reports verified a Heavy Snow Warning, but many other verified the advisory. Overall, this event was likely best handled with a Snow Advisory.

PACIFIC

Saipan

Chalon Kanoa

05	1200SST				0	3			Rip Currents
	1400SST								

Two men were stranded while boogie boarding and a male juvenile was swept by strong currents during separate incidents in the channel at Sugar Dock Saipan.

In the first incident, Peter Siclair and an unidentified companion were boogie board surfing at Sugar Dock when both were swept away by strong currents in the channel. One lost his boogie board while the other was hanging on the board to stay afloat.

Storm Data and Unusual Weather Phenomena

January 2002

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

A witness asked Lt. Pedro Muna, an off duty policeman, and his nephew Ray King for help. They used a 21 foot Bayliner boat in the rescue.

Soon after rescuing Peter Sinclair and his friend, police officer told Muna that a boy was carried away by strong currents in the channel. The boy had jumped into the water, got cramps and was swept away by the currents. Police Officer Mike Camacho and retired Firefighter Joe Torres immediately jumped into the water and held the boy to prevent him from drifting further outside the reef.

Guam

Ritidian Point

21	1500SST 1545SST	1	3	Rip Currents
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A U.S. Marine on Guam in support of homeland defense. During a barbecue party Cpl. Marcello D. Wilks, 23, went swimming with two other Marines (Petty Officer 3rd class Daniel Jacobsen and Sgt. Chris Geilarowski) at Sirena Beach around noon time. The three were swept away by strong currents, but two of them were able to swim back to shore. A U.S. Marine Corps C-130 cargo plane, a Navy HC-5 helicopter and Guam Fire Department Rescue 2 Unit were sent to the scene to try to find the missing man.

At 3:22 pm Guam Fire department rescuers entered the water about 25 yards from shore, the mans body was recovered in 40 feet of water about 20 minutes later. M23IW

Guam

Ritidian Point

27	0930SST 1000SST	0	1	Rip Currents
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At 930 am a report of a distressed swimmer was made to 911. Rescue units were immediately dispatched and the man was located off the reef between Ritidian and Urunao. The man was trying to maneuver his outrigger canoe through a narrow, treacherous channel at the northern end of Urunao Beach, which resulted in the canoe turning over after which he was swept out. At about 1005 am the man was hoisted to safety by the HC-5 Unit and then transported to the Naval Hospital in Agana Heights. He was treated at the hospital and was released.

PACIFIC OCEAN

San Mateo Pt To Mexican Bdr Out 30Nm

15 NW Mission Beach	22	1324PST	0	0	Waterspout
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PENNSYLVANIA, Central

PAZ005>006-010>012-017>019-024>028-033>037-041>042-045>046-049>053-056>059-063>065 **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 - Lebanon - Cumberland - Adams - York**

06	1200EST	0	0	Heavy Snow
07	0400EST			

Low pressure developed rapidly across the lower Mississippi Valley and intensified as it moved northeast through the mid-Atlantic region. The low pressure system moved across the Delmarva Peninsula before continuing northeast into the Atlantic. Snow from the system began across the southern tier counties of central Pennsylvania around noon on Sunday, January 6th, spreading into the middle part of the Commonwealth by 2 to 3 p.m. Another axis of heavier snow pivoted into the area from the south during the mid-afternoon hours of the 6th. This band of heavier snow became stationary across the central portions of Pennsylvania. Six (6) inches of snow was noted in most areas by 6 to 8 p.m. Northwestern areas reached the 6-inch mark by around midnight. Storm totals ranged from 1 to 3 inches in the far southeast, where rain mixed with the snow, to 10 to 12 inches across the central mountains and portions of the middle and upper Susquehanna Valley. Maximum snowfall reported in the WFO State College area of responsibility with the storm was 14 inches record in Zion, Centre County.

Storm Data and Unusual Weather Phenomena

January 2002

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

PENNSYLVANIA, Central

PAZ005>006-037-042-058>059-065>066 **Mckean - Potter - Tioga - Sullivan - Schuylkill - Lebanon - York - Lancaster**

19	1000EST				0	0			
	2200EST								Heavy Snow

Low pressure developed rapidly across the lower Mississippi Valley and intensified as it moved northeast through the mid-Atlantic region. The low pressure system then reformed off the Delmarva Coast. Snow from the system began across the southern tier counties of central Pennsylvania around 10:00 a.m. on Saturday, January 19th. A second band of snow set up across the northern tier of Pennsylvania around noon on Saturday, slowly sinking southward during the day. Most of central Pennsylvania was sandwiched between these two areas, receiving 2 to 4 inches of snow. Snowfall of 6 inches or more fell across the northern tier counties, and also across the far southeast. Maximum reported snowfall in the WFO State College area of responsibility with this storm was 8 inches in Coudersport, Potter County.

PAZ004>006-037 **Warren - Mckean - Potter - Tioga**

31	0001EST				0	0			
	1000EST								Ice Storm

Low pressure over the Central Plains moved northeast across New York State and out through the St. Lawrence River Valley. As precipitation moved across the region, temperatures fell as cold air moved into the region from the north. Rain which fell on Wednesday, January 30th, changed to freezing rain by midnight of Thursday the 31st across the northern tier counties. Ice accumulated between one-quarter and one-half inches across the far northern tier counties. Farther south, into the central counties, lighter accumulations of freezing rain was noted. Most significant, ice accumulations in the WFO State College area of responsibility were noted in Potter County, where up to one-half inch of ice accumulated. Schools announced delayed openings. Precipitation tapered off before noon.

PENNSYLVANIA, East

PAZ071 **Philadelphia**

01	0000EST				0	0	0	0	
	1854EST								Snow Drought

The first snow of the season started falling at Philadelphia International Airport at 654 p.m. EST. This was the latest into the winter season for the first snow to fall. The previous record was December 27, 1990.

PAZ054>055-060>062-067>071 **Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia**

01	0000EST				0	0	0	0	
	2359EST								Drought

Unseasonably dry weather continued across Eastern Pennsylvania during the month of January. While precipitation totals came close to normal in and around Philadelphia, only about half of the normal monthly precipitation totals fell in the Lehigh Valley and the Poconos. On a county weighted average, monthly precipitation totals ranged from 1.6 inches in Northampton County to 3.2 inches in Delaware County. Normal is around 3.3 inches. The drought warning remained in effect for all of Eastern Pennsylvania. A drought warning calls for a 10 to 15 percent voluntary reduction in water consumption. Methods to conserve water include fixing leaking toilets and faucets, running dishwashers and washing machines at full loads only, replacing old toilets with newer ones, installing water efficient showerheads, leaving a jug of water in the refrigerator, using a bucket to wash vehicles and turning off the water while brushing teeth or shaving.

The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" on December 3rd when the supply of water in the New York City reservoir system dropped below a designated level for early December. This triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amount diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 million gallons a day to 520 million gallons a day. The Delaware River Basin Commission declared a drought emergency on December 18th. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockamixon, the F.E. Walter Reservoir and Lake Wallenpaupack could be used to maintain river levels. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself. The salt front along the Delaware River was farther upstream than it normally is during January. The emergency declaration also gives the commission the power to request that utilities and other companies that use more than one million gallons of water a day to prepare contingency plans to use less water and submit the plans to the commission.

PAZ060>061-067>068 **Berks - Lehigh - Chester - Montgomery**

06	1500EST				0	0			
	0000EST						0		Wintry Mix

Storm Data and Unusual Weather Phenomena

January 2002

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

PENNSYLVANIA, East

PAZ062-069

Northampton - Bucks

06 1700EST

0

0

0

Winter Storm

07 0000EST

PAZ054>055

Carbon - Monroe

06 1730EST

0

0

0

Heavy Snow

07 0200EST

A quick hitting winter storm dropped heavy snow across the Poconos and parts of Northampton and Bucks Counties. It dropped a wintry mix across the rest of the Lehigh Valley and in Berks, Chester and Montgomery Counties. Little if any snow or sleet fell in Philadelphia and Delaware Counties. The event lasted only about six to eight hours, but up to 9 inches of snow accumulated in the Poconos. Snowfall rates of an inch per hour were common in the Poconos. In the Philadelphia area, precipitation began during the afternoon as rain and sleet. As the precipitation intensity increased, it changed over to snow around sunset in the upper parts of the suburbs. Eventually enough warm air moved in aloft to change precipitation back to rain with some pockets of freezing rain. The only exception was in upper Bucks County, where precipitation remained mostly snow. As the low accelerated offshore, precipitation changed back to snow before it ended by 11 p.m. EST. In Berks County, the Lehigh Valley and the Poconos, precipitation started as snow around sunset. Warm air moving in aloft changed the precipitation to sleet and freezing rain in Berks County and the Lehigh Valley during the first half of the evening. The shortest duration changeover occurred in Northampton County. As the low pressure system pulled offshore, precipitation changed back to snow before ending by midnight EST. In the Poconos, precipitation fell mainly as snow.

Untreated roads were treacherous and many accidents were reported. Vehicles slid into ditches, creeks and one another. The worst reported accidents occurred in Berks County. In Spring Township, a tanker truck carrying gasoline on the northbound lanes of U.S. Route 222 overturned at 430 pm. EST. About 1,000 gallons were spilled. Northbound U.S. Route 222, Pennsylvania State Route 183 and Broadcasting Road were closed until the next morning. The eastbound lanes of Interstate 78 from Hamburg to the Lehigh County line were closed from 945 p.m. EST through 4 a.m. EST because of a four tractor trailer accident. In Carbon County, U.S. Route 209 was closed because of stuck vehicles. Schools were closed the next day in Carbon and Monroe Counties and had delayed openings in Berks County.

Specific accumulations included 9 inches in Lehighton and Nesquehoning (Carbon County), 8.0 inches in Pocono Summit (Monroe County), 6 inches in Williams Township (Northampton County), Springtown (Bucks County) and Mount Pocono (Monroe County), 4.8 inches in Bath (Northampton County), 4.5 inches in Coplay (Lehigh County), 4.0 inches at the Lehigh Valley International Airport, 3.0 inches in Blue Marsh (Berks County), 2.7 inches in Palm (Montgomery County), 2.5 inches in Perkasio (Bucks County), 2.0 inches in Honey Brook (Chester County) and Pottstown (Montgomery County), 1.5 inches in West Chester (Chester County) and 1.0 inch in New Hope (Bucks County).

The low pressure system responsible for the first winter storm of the season developed near Houston, Texas the morning of the 5th. It moved rapidly northeast and reached the Alabama/Georgia border at 7 a.m. EST on the 6th, was just east of Atlantic City at 7 p.m. EST on the 6th and reached Nova Scotia by the morning of the 7th.

PAZ054>055-060>062-067>069

Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks

07 0700EST

0

0

0

Snow

1900EST

While the surface low pressure system that caused the snow on Sunday the 6th was located over Nova Scotia the morning of the 7th, the upper level system that supported the surface low still had to move through Pennsylvania and New Jersey. As it did, light snow developed across the area. In and around Philadelphia, temperatures remained above freezing and snow melted as it fell. But farther north, where temperatures were colder and the precipitation intensity was heavier, snow accumulated between 1 and 4 inches. Untreated roads became slippery, especially from Berks County northeast through the Lehigh Valley and the Poconos. In Berks County, a vehicular accident killed one person and injured two others on Pennsylvania State Route 625 in Cumru Township. Sixty persons lost power in the township. Elsewhere in the county, a seven vehicle pile-up on Interstate 76 during the afternoon of the 7th resulted in 20 to 30 other vehicles skidding and becoming stuck on the icy stretch of the interstate. A five vehicle accident closed the only lane of the Lindbergh Viaduct.

Accumulations included 3.5 inches in Saylorburg (Monroe County), 3.0 inches in Pocono Summit (Monroe County), Bath (Northampton County) and Salisbury Township (Lehigh County), 2.5 inches in Williams Township (Northampton County), 2.0 inches in Perkasio (Bucks County), 1.4 inches in Glenmoore (Chester County) and one inch at the Lehigh Valley International Airport.

PAZ054>055-060>062-067>069

Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks

09 0700EST

0

0

Wintry Mix

1200EST

A wintry mix of sleet and light freezing rain overspread much of Eastern Pennsylvania during the morning of the 9th. Some light snow also fell in the Lehigh Valley and the Poconos later in the morning. Precipitation amounts were generally less than one-tenth of

Storm Data and Unusual Weather Phenomena

January 2002

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

PENNSYLVANIA, East

an inch, but untreated roads became very slippery. In and around the local Philadelphia area, air temperatures were above freezing as the sleet moved across. In Chester County, several accidents occurred along the Pennsylvania Turnpike (Interstate 76) and Pennsylvania State Route 100. In Carbon County, Pennsylvania State Route 248 was closed between Palmerton and Bowmanstown because of a few accidents. One woman was seriously injured and air lifted to Lehigh Valley Hospital. Emergency personnel were told to only travel at 10 mph. In Monroe County, school buses were instructed to pull over to the side of the road until they were salted or sanded. Some afternoon classes were cancelled. The light precipitation preceded a warm front that moved through the region later on the 9th. While it was warm enough aloft for precipitation to fall as rain, colder air near or at the ground forced it to change over to sleet or freeze on contact with the ground.

PAZ054>055-060>062-067>071 Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia

13	0700EST 1700EST				0	0			Wind
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A strong cold front moved through the eastern part of Pennsylvania around daybreak on the 13th. As the low pressure system intensified quickly as it moved into the Canadian Maritimes, northwest winds increased and peak wind gusts reached between 38 and 48 mph in most places. Peak wind gusts included 48 mph at the Northeast Philadelphia Airport, 46 mph at the Philadelphia International Airport, 43 mph in Reading (Berks County), 41 mph at the Willow Grove NAS (Montgomery County), 39 mph in Doylestown (Bucks County) and 38 mph at the Lehigh Valley International Airport.

PAZ055-061-067>069 Monroe - Lehigh - Chester - Montgomery - Bucks

19	0900EST				0	0			Heavy Snow
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PAZ070 Delaware

19	1000EST				0	0			Winter Storm
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PAZ071 Philadelphia

19	1030EST				0	0			Wintry Mix
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PAZ054-060-062 Carbon - Berks - Northampton

19	1100EST				0	0			Snow
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A weak low pressure system that moved through the Gulf Coast States and exited quickly off the North Carolina coast had sufficient moisture and came close enough to eastern Pennsylvania to give the region some heavy snow. Freezing rain and sleet mixed with the snow in and around Philadelphia. Accumulations ranged from 3 to 6 inches in most areas. Snow spread across the region by noon EST on the 19th and fell at a fairly steady rate throughout this event. Precipitation mixed with and changed over to sleet and freezing rain in and around Philadelphia between 6 p.m. and 10 p.m. EST.

Bridges, overpasses and untreated roadways became very treacherous. Specific accumulations included 6.0 inches in Thorndale (Chester County) and Macungie (Lehigh County), 5.7 inches in Saylorsburg (Monroe County), 5.5 inches in Southampton (Bucks County) and Palm (Montgomery County), 5.2 inches in Ambler (Montgomery County), 5.1 inches in Springtown (Bucks County), 5.0 inches in Albrightsville (Carbon County), Chadds Ford (Delaware County), Boyertown (Berks County) and Analomink (Monroe County), 4.8 inches in Bensalem (Bucks County) and Glenmoore (Chester County), 4.7 inches in Reading (Berks County), 4.6 inches in Williams Township (Northampton County), 4.5 inches in Newtown Square (Delaware County), Forks (Northampton County) and Pottstown (Montgomery County), 4.0 inches at the Lehigh Valley and Philadelphia International Airports, in Bechtelsville (Berks County), Fricks (Bucks County), Lehighon (Carbon County) and Pocono Summit (Monroe County), Somerton (Philadelphia County), 3.9 inches in Exton (Chester County) and 3.0 inches in East Stroudsburg (Monroe County) and Honey Brook (Chester County).

The low pressure system responsible for the wintry mix developed in the Gulf Coast States during the evening of the 18th. By the morning of the 19th, it was located in northern Mississippi. At 11 a.m. EST the primary low moved into Tennessee as a secondary formed near Wilmington, North Carolina. At 5 p.m. EST it moved to just east of Elizabeth City, North Carolina and then accelerated to a position south of Cape Cod at midnight EST on the 20th.

PAZ054>055-060>062-067>071 Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia

27	1200EST				0	0	0	0	Unseasonably Warm
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A strong ridge of high pressure at the surface and higher levels of our atmosphere brought unseasonably warm air into Pennsylvania from January 27th through the 30th. This cemented another unseasonably warm and dry month across the region. High temperatures were in the 60s and even some record breaking 70s on the 29th (the warmest day). A cold front dropped through the state late in the day on the 30th and lowered temperatures closer to seasonable levels on the 31st. Highest temperatures included 73 degrees at the Franklin Institute within Philadelphia and Neshaminy Falls (Bucks County), 72 degrees at the Philadelphia International Airport and Crum Creek (Delaware County), 71 degrees at the Northeast Philadelphia Airport, 69 degrees in Doylestown (Bucks County) and

Storm Data and Unusual Weather Phenomena

January 2002

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

PAZ030-032

Westmoreland - Fayette

19	2000EST				0	0			Heavy Snow
	2300EST								

An area of low pressure passing just to the south of the region spread several inches of snow across Fayette and Westmoreland Counties. The lower elevations across the western portions of the counties generally received 2-4 inches of snow, while the ridges over the extreme eastern sections reported accumulations of between 4-6 inches. Snow started falling by around dawn on the 19th and tapered to flurries during the late evening hours.

PUERTO RICO

NONE REPORTED.

RHODE ISLAND

RIZ007

Newport

19	1300EST				0	0			Heavy Snow
	0500EST								

Low pressure passing south of New England brought a period of heavy snow to Newport County. Snowfall totals of 7 inches were reported in Tiverton and Portsmouth, with generally 2 to 5 inches reported elsewhere in southern Rhode Island.

SOUTH CAROLINA, Central

SCZ015>016-018-020>022-025>031-036>037

Lancaster - Chesterfield - McCormick - Newberry - Fairfield - Kershaw - Edgefield - Saluda - Lexington - Richland - Lee - Aiken - Sumter - Orangeburg - Calhoun

02	2120EST				0	0	0		Winter Storm
	2100EST								

Around 8 inches of snow fell over Lancaster county taking down trees and powerlines.

SCZ035-038-041

Barnwell - Clarendon - Bamberg

02	2140EST				0	0	0		Ice Storm
	1900EST								

Freezing rain and sleet fell with ice accumulations of 1/2 to 1 inch taking down trees and powerlines. Two to 4 inches of snow also fell toward the end of the event.

A major winter storm moved through the CSRA of Georgia and the midlands of South Carolina. Ice accumulations mainly occurred in the eastern thirds of the CWA with mainly snow over the remainder of the CWA. Ice accumulations ranged from 1/4 to 1 inch while snow accumulations ranged from 2 to 8 inches. Trees and powerlines were taken down. There were numerous accidents and driving conditions were treacherous.

SOUTH CAROLINA, North Coastal

SCZ017-023>024-032>034-039-046

Marlboro - Darlington - Dillon - Florence - Marion - Horry - Williamsburg - Georgetown

02	1500EST				0	0			Winter Storm
	0300EST								

Low pressure formed in the Gulf of Mexico the morning of January 2nd and moved up the eastern seaboard. Moisture moved north, overrunning cold high pressure, setting up a wintery mix for North and South Carolina. The precipitation began as snow over South Carolina that afternoon, and expanded to include North Carolina later that afternoon. The precipitation changed to freezing rain and sleet, then to rain over coastal sections of North and South Carolina that evening and continued through the morning of January 3rd. The precipitation in the inland counties remained as a mix of freezing rain and sleet. As the the low pressure center continued to track north, cold air wrapped around the system, changing the precipitation back to all snow by midday on January 3rd, and continued until the snow tapered off by early morning on January 4th.

The snowfall totals were heaviest over portions of Darlington, Marlboro, and Robeson counties, where between 6 to 8 inches fell, with some sleet mixed in. Counties further south and east, including Florence, Marion, Dillon, and Bladen counties received between 4 and 6 inches of snow, including between a half and an inch of freezing rain and sleet. Along coastal counties, between 1 and 3 inches of snow occurred, with around a half inch of sleet and freezing rain.

There were numerous traffic accidents reported, although there was no information on injuries. In Florence county alone, emergency personnel reported 167 accidents, over double the normal amount. There were over 1500 traffic accidents reported in South Carolina alone. The freezing rain from the storm forced many trees and large branches to snap, causing numerous power outages around the area. More than 25,000 customers were without power in Horry, Georgetown, and Brunswick counties. Secondary roads in most areas proved treacherous, but road crews managed to keep highways and primary roads open. Many businesses and schools were closed on January 3rd and 4th, including 64,000 state workers.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Property	Crops	Character of Storm
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SOUTH CAROLINA, North Coastal

SCZ034

Horry

**05 0400EST
0800EST**

1 0

Extreme Cold

A man found dead in an abandoned building on Nance Street had apparently died due to exposure, according to the coroner. The temperature that morning dropped to 26 degrees.
M56OT

SOUTH CAROLINA, Northwest

SCZ003

Greenville Mountains

**02 1400EST
1700EST**

0 0

Heavy Snow

3 to 4 inches of snow accumulated in the mountains from about 3000 feet up. Highway 276 was closed below Caesars Head when stalled truck traffic blocked the road.

SCZ011-019

Abbeville - Greenwood

**02 1400EST
1700EST**

0 0

Snow

Light, wet snow fell in the afternoon prior to the heavier snow which fell later in the evening. The afternoon snow largely melted on paved surfaces as it fell, but accumulated up to 2 inches on grassy areas.

SCZ009-011>012-014-019

York - Abbeville - Laurens - Chester - Greenwood

**02 2000EST
03 1200EST**

0 0

Heavy Snow

Heavy snow started falling early in the evening and reached heavy snowfall accumulation status between 8 pm and midnight in this part of the piedmont. Accumulation totals reached 4 to 6 inches between Lowndesville and Laurens, and much more - 6 to 10 inches - between Chester and Hancock.

SCZ006>008-010-013

Greater Greenville - Spartanburg - Cherokee - Anderson - Union

**03 0000EST
1200EST**

0 0

Heavy Snow

Flurries and light snow began in the early evening on the 2nd and became moderate to heavy by late evening. Heavy snowfall accumulations were reached beginning after midnight on the 3rd along and north of Interstate 85, with 4 to 6 inches observed by noon.

SCZ001>003

Oconee Mountains - Pickens Mountains - Greenville Mountains

**03 0400EST
1200EST**

0 0

Heavy Snow

Snow continued during the early morning hours on the 3rd and finally added up to heavy snowfall accumulations in the South Carolina mountains. Snowfall amounts ranged from 3 to 6 inches across these areas by noon.

SOUTH CAROLINA, South Coastal

SCZ040-042>045

Allendale - Hampton - Northern Colleton - Dorchester - Berkeley

**02 1900EST
03 0500EST**

0 0

Ice Storm

A winter storm moved across the southeastern states on January 2 continuing into January 3 producing a mixture of snow and sleet early in the day on the 2nd. Then precipitation changed to all freezing rain producing from 1/4 up to around 1/2 inch of ice. There were tens of thousands of homes and businesses without power at times on the 2nd and on the 3rd. Also, there were numerous automobile accidents.

SOUTH DAKOTA, Central and North

NONE REPORTED.

SOUTH DAKOTA, Southeast

NONE REPORTED.

SOUTH DAKOTA, West

SDZ001-013-031

Harding - Meade Co. Plains - Pennington Plains

**11 1055MST
1359MST**

0 0 0

High Wind (G55) ^M

High winds developed in a tight pressure gradient following a frontal passage. Winds across northwestern South Dakota became sustained at 35 to 45 mph with frequent gusts 55 to 63 mph for a few hours behind the front.

Storm Data and Unusual Weather Phenomena

January 2002

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

SDZ001>002-012>014-025>026-031>032-042 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Pennington Plains - Haakon - Shannon**

13	0600MST 2051MST				0	0	0		High Wind (G75) ^M
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A very strong cold front moved across northwestern South Dakota in the early morning hours. Behind this front, a particularly tight surface pressure gradient combined with strong low-level winds to produce sustained winds in excess of 50 mph and wind gusts to 86 mph for several hours during the late morning and afternoon. The only report of damage was one tree being blown over in Perkins County. Minor damage to a sign was reported in Rapid City.

SDZ024

Northern Black Hills

13	1200MST 1800MST				0	0	0		Winter Storm
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A very strong cold front moved across northwestern South Dakota in the early morning hours. A particularly tight surface pressure gradient combined with strong low-level winds produced sustained winds in excess of 50 mph and wind gusts to 84 mph on the western South Dakota plains. Atmospheric moisture was sufficient and when combined with these strong northwest winds, produced conditions favorable for enhanced snowfall over the Northern Black Hills. Six to seven inches of snow were reported across most of the Northern Black Hills. Strong winds also caused significant blowing and drifting snow.

SDZ001>002

Harding - Perkins

28	0700MST 1900MST				0	0	0		Heavy Snow
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Heavy snowfall was recorded over just two counties of extreme Northwestern South Dakota. Reports mentioned that very large snow flakes allowed snow depths to accumulate quickly. Most areas of Perkins and Harding Counties received six to eight inches of snow with the maximum being 11.3 inches near Shadehill in Perkins County.

TENNESSEE, Central

TNZ011-031>034-065>066-077>080-097 **Pickett - Jackson - Putnam - Overton - Fentress - White - Cumberland - Coffee - Warren - Grundy - Van Buren - Franklin**

06	0330CST 1130CST				0	0			Heavy Snow
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An average of 3 to 6 inches of snow fell across the Cumberland Plateau. As much as 6-8 inches fell in Cumberland county near Crossville.

**Cumberland County
Countywide**

23	0630CST 1730CST				0	0			Flash Flood
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Situation report from Cumberland county EMA reported 3 roads washed out and 20 roads closed.

**Wayne County
Waynesboro**

23	0800CST 1730CST				0	0			Flash Flood
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EMA reported several people had to be evacuated from their mobile homes in Waynesboro. Also, several roads were covered with water around the county.

**Coffee County
Countywide**

23	0900CST 1730CST				0	0			Flash Flood
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Several streams were out of their banks.

**Franklin County
Estill Spgs**

23	0900CST 1730CST				0	0			Flash Flood
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Flooding was reported to the NWS, and some roads were closed.

**Lawrence County
Countywide**

23	0900CST 1730CST				0	0			Flash Flood
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Several families evacuated in advance of rising water in downtown Lawrenceburg. Shoal Creek was out of its banks. Many roads, including Highway 43 in Loretto was under water. 6 bridges were closed because of damage or destroyed. 39 roads were closed. 3 homes were damaged and 2 people were evacuated.

**Lawrence County
1 W Lawrenceburg**

23	0900CST 1730CST				0	0			Flash Flood
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EMA reported water on U.S. Highway 64 was up to headlights on 18 wheeler.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Maury County									
Countywide	23	1000CST 1730CST			0	1	2M		Flash Flood
Water was over some roads and threatening residences. Several auto accidents reported due to flooding. 20 homes, 10 trailers, 27 businesses received damage. 50 people were evacuated. 25 bridges and 30 roads were closed. 50 hay bales were destroyed. \$2,000,000 worth of damage was estimated by Maury County EMA.									
Cannon County									
Countywide	23	1020CST 1730CST			0	0			Flash Flood
EMA reported roads were closed in Auburntown and Bradyville due to high water. Streams were out of their banks.									
Dekalb County									
Countywide	23	1020CST 1730CST			0	0			Flash Flood
Highway dept. reported water was over many roads, and creeks and streams were at bank full.									
Bedford County									
Countywide	23	1115CST 1730CST			0	0			Flash Flood
Sugar Creek was out of its banks in the southwest part of the county. Sandusky Road was impassable. 98 roads were closed and 12 bridges were under water at the height of the flood. 6 homes were damaged, one mobile home was destroyed, and 3 businesses were damaged.									
Putnam County									
Cookeville	23	1115CST 1730CST			0	3			Flash Flood
Culvert collapsed at Fisk and Old Kentucky Road. 3 people were injured in one car. 3 homes and one business were damaged. 10 roads and 2 bridges were closed. 2 people were killed while clearing a culvert during a heavy rain at 10 AM CST. There was no flooding occurring at that time.									
Wilson County									
Countywide	23	1130CST 1730CST			0	0			Flash Flood
Low water crossing was flooded at Watertown. Water was up to a bridge at Statesville.									
Stewart County									
Countywide	24	0115CST			0	0			Thunderstorm Wind (G52)
Electric company reported a few trees fell on power lines around the county.									
Cheatham County									
Ashland City	24	0300CST 0615CST			0	0			Flash Flood
Highway 12 in downtown Ashland City was impassable for 30 minutes. 3 homes and 1 business received damage.									
Stewart County									
Countywide	24	0345CST 0615CST			0	0			Flash Flood
Sheriff's office reported several secondary roads were flooded.									
Houston County									
Countywide	24	0350CST 0615CST			0	0			Flash Flood
Sheriff's office reported water across Highway 49.									
Benton County									
Camden	24	0355CST 0615CST			0	0			Flash Flood
Sheriff reported several streets in Camden were flooded.									
Sumner County									
Countywide	24	0415CST 1100CST			0	0			Flash Flood
Sheriff reported several roads were closed around the county due to high water.									
Dickson County									
Dickson	24	0425CST 0615CST			0	0			Flash Flood
Highway 48 was flooded in several spots. An elderly couple had to be rescued from their home which was surrounded by water.									
Macon County									
Red Boiling Spgs	24	0430CST 1100CST			0	0			Flash Flood
Several roads flooded in Red Boiling Spgs. Sheriff also said low lying roads also flooded in other parts of the county.									

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Robertson County									
Countywide	24	0500CST 0615CST			0	0			Flash Flood
									Sheriff reported Greer Road in the Greenbrier-Ridgetop area was under water.
Clay County									
Countywide	24	0600CST 1100CST			0	0			Flash Flood
									Sheriff's office reported standing water on many roads.
Hickman County									
South Portion	24	0600CST 0800CST			0	0			Flash Flood
									Highway department reported streams and creeks were out of its banks in the southern part of the county. 1 home was damaged.
Jackson County									
Countywide	24	0600CST 1100CST			0	0			Flash Flood
									Sheriff's office reported streams out of their banks at Sugar Creek Road, Roaring River Road, and Hwy 135.
Maury County									
Countywide	24	0600CST 1100CST			0	0			Flash Flood
									Highway department reported several roads still closed. Streams and creeks were out of their banks.
Perry County									
Countywide	24	0600CST 0800CST			0	0			Flash Flood
									911 center reported standing water on some roads in the county.
Trousdale County									
Hartsville	24	0600CST 1100CST			0	0			Flash Flood
									911 center reported a creek flooded a ball field.
Giles County									
Liberty Hill	24	0602CST			0	0	60K		Flash Flood
									Millions of gallons of water roared through a breached dam on Dave Risner Road, affecting the family of Mike and Patti Risner. A car was swept away. A building, storing antique collectables, was washed downstream. A substantial block spring house was leveled, and a footbridge was washed out. Trees and utility poles were swept away as well.
Davidson County									
Nashville	24	0620CST 0800CST			0	0			Flash Flood
									EMA reported several intersections were flooded in Nashville.
Lawrence County									
Countywide	24	0627CST 1600CST			0	0			Flash Flood
									EMA reported numerous roads were under water.
Fentress County									
Jamestown	24	0653CST 1100CST			0	0			Flash Flood
									6-8 inches of water on Old Hwy 127.
Overton County									
Countywide	24	0700CST 1100CST			0	0			Flash Flood
									Sheriff's office reported numerous roads with water on them.
Smith County									
Countywide	24	0700CST 1100CST			0	0			Flash Flood
									Sheriff's office reported a few roads had water on them from stream overflow.
Wilson County									
Countywide	24	0704CST 1100CST			1	0			Flash Flood
									Sheriff's office reported several roads were flooded around the county. A Knox county woman, age 31, fell into or tried to wade across a fast moving creek between 1030 AM-1100 AM CST at Sue Warren Trail at Cedars of Lebanon State Park. F31IW

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Bedford County									
Countywide	24	0800CST 1100CST			0	0	100K		Flash Flood
									Hwy Dept. reported several roads still closed. Streams and creeks were out of its banks. Damage to roads estimated at \$100,000.
Cannon County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Hwy Dept. reported low lying areas are still flash flooding. Streams and creeks are out of their banks.
Coffee County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Hwy dept. reported one road still closed, and streams and creeks out of its banks. Coffee county schools closed at 1030 AM CST.
Dekalb County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Hwy Dept. reported some roads still flash flooding. Smith Fork Creek was out of its banks as high as 10 feet. Center Hill Lake rose 30 feet at one point.
Franklin County									
Countywide	24	0800CST 1600CST			0	0			Flash Flood
									Sheriff's office reported roads still have high water on them. Streams and creeks are out of their banks. One home was damaged, 2 bridges and 8 roads were closed. County schools closed at 930 AM CST.
Lewis County									
Countywide	24	0800CST 1100CST			0	0	225K		Flash Flood
									Highway department reported some roads closed due to stream overflow. Damage to roads and bridges estimated at \$225,000.
Marshall County									
Farmington	24	0800CST 1100CST			0	9			Flash Flood
									Sheriff reported back roads still closed. 14 homes, 27 trailers, and 3 businesses were damaged. 88 people had to be evacuated.
Moore County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Highway department reported streams and creeks were out of their banks but not on the roads. 2 homes were damaged.
Rutherford County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Highway dept. reported some roads still closed, and streams and creeks were out of their banks. 21 homes were damaged because water covered the floors of homes and HVAC systems. 12 people had to be evacuated and placed in shelters.
Warren County									
Countywide	24	0800CST 1100CST			0	0	250K		Flash Flood
									911 center reported several roads still closed. Streams and creeks were out of their banks. 10 homes, 2 trailers and 3 utilities were damaged. 12 bridges and 20 roads were closed. 15 people had to be evacuated. Damage estimate was \$250,000.
Wayne County									
Countywide	24	0800CST 1600CST			0	0	1M		Flash Flood
									Water over roads due to stream overflow. 6 bridges and 2 roads were damaged or destroyed. 5 homes, 7 trailers and 2 businesses were damaged. One estimate of damage was about a million dollars.
White County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									911 center reported several roads still closed. Streams and creeks were out of its banks. Water was in some basements. 3 homes and one business received damage. 11 people had to be evacuated.
Williamson County									
Countywide	24	0800CST 1100CST			0	0			Flash Flood
									Several roads were closed. Some cars were caught in flash flood waters. Report was from Sheriff's office.

Storm Data and Unusual Weather Phenomena

January 2002

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

Giles County

Countywide	24	0900CST 1600CST			0	0			Flash Flood
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EMA reported roads still closed and streams out of their banks. 5 homes and 4 trailers were damaged. 3 people had to be evacuated.

Lincoln County

Countywide	24	0900CST 1100CST			0	0	150K		Flash Flood
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Highway department reported 3 or 4 roads still closed. Streams were running bank full. Damage to roads and bridges placed at \$150K. 8 people had to be evacuated.

Van Buren County

Spencer	24	0900CST 1100CST			0	0			Flash Flood
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EMA reported 6 roads closed, and one family had to be evacuated.

Grundy County

Countywide	24	1000CST 1600CST			0	0			Flash Flood
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Highway Dept. reported some roads still have high water on them. Streams and creeks were still out of their banks.

17 counties in Tennessee requested federal assistance due to the flooding. The counties are: Anderson, Bedford, Cannon, Coffee, Cumberland, Fentress, Giles, Hardin, Jackson, Lawrence, Lewis, Lincoln, McNairy, Maury, Putnam, Warren and Wayne.

Doppler radar estimated as much as 6 to 8 inches of rain fell over the southern part of Middle Tennessee during this flood event.

TENNESSEE, East

TNZ012>018-035>047-067>074-081>087-098>102 **Scott - Campbell - Claiborne - Hancock - Hawkins - Sullivan - Johnson - Morgan - Anderson - Union - Grainger - Hamblen - Northwest Coker - Coker/Smoky Mountains - Northwest Greene - Southeast Greene - Washington - Unicoi - Northwest Carter - Southeast Carter - Roane - Loudon - Knox - Jefferson - Northwest Blount - Blount/Smoky Mountains - North Sevier - Sevier/Smoky Mountains - Sequatchie - Bledsoe - Rhea - Meigs - McMinn - Northwest Monroe - Southeast Monroe - Marion - Hamilton - Bradley - West Polk - East Polk**

	05	2200EST			0	0			Winter Storm
	06	1900EST							

A winter storm brought a wide range of amounts to East Tennessee. The heaviest amounts were on the northern Cumberland Plateau, where amounts averaged 3-6 inches. Across northeast Tennessee, amounts average between a dusting and a half inch. The exceptions in this area were Hancock County with 6-8 inches and Hawkins County with 3-6 inches. In central East Tennessee, amounts were generally 2-4 inches, with a few spots receiving as much as 5 inches, and as little as a half inch. Lowest overall amounts were found in southeast Tennessee. Amounts there averaged between a dusting and 1 inch. However, in this region parts of counties that have higher terrain of the Cumberland Plateau running through them received higher amounts: Rhea County 3-4 inches, Bledsoe 5-6 inches, Sequatchie County 3-4 inches and Marion County around 3 inches.

Meigs County

Countywide	23	0915EST 1630EST			0	0			Flood
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Anderson County

Countywide	23	0930EST 2000EST			0	0			Flood
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Bledsoe County

Countywide	23	0930EST 1300EST			0	0			Flood
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Campbell County

Countywide	23	0930EST 2000EST			0	0			Flood
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Monroe County

Countywide	23	0945EST 1630EST			0	0			Flood
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Morgan County

Countywide	23	0950EST 1725EST			0	0			Flood
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Rhea County

Countywide	23	1000EST 1725EST			0	0			Flood
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Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Knox County									
Countywide	23	1030EST 1725EST			0	0			Flood
Loudon County									
Countywide	23	1030EST 1725EST			0	0			Flood
Roane County									
Countywide	23	1030EST 1725EST			0	0			Flood
Meminn County									
Countywide	23	1230EST 1730EST			0	0			Flood
Scott County									
Countywide	23	1307EST 1800EST			0	0			Flood
Union County									
Countywide	23	1400EST 1500EST			0	0			Flood
Blount County									
Countywide	23	1448EST 1640EST			0	0			Flood
Prolonged heavy rain throughout the day resulted in numerous road closings across much of central East Tennessee.									
Bledsoe County									
Countywide	24	0630CST			0	0	7K		Thunderstorm Wind
A few trees down.									
Roane County									
Countywide	24	0710EST			0	0	20K		Thunderstorm Wind
Trees and power lines down.									
Anderson County									
Countywide	24	0720EST			0	0	10K		Thunderstorm Wind
Trees and power lines down.									
Grainger County									
Countywide	24	0730EST			0	0	11K		Thunderstorm Wind
Trees and power lines down.									
Knox County									
Countywide	24	0730EST			0	0	18K		Thunderstorm Wind
Trees and power lines down.									
Hancock County									
Countywide	24	0730EST			0	0	3K		Thunderstorm Wind
Trees down.									
Hamilton County									
Countywide	24	0730EST			0	0	5K		Thunderstorm Wind
A few trees down.									
Meigs County									
Countywide	24	0730EST			0	0	6K		Thunderstorm Wind
A few trees down.									
Union County									
Countywide	24	0732EST			0	0	22K		Thunderstorm Wind
Trees and power lines down.									
Loudon County									
Countywide	24	0735EST			0	0	21K		Thunderstorm Wind
Trees and power lines down.									

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>TENNESSEE, East</u>									
Claiborne County									
Countywide	24	0735EST			0	0	17K		Thunderstorm Wind
			Trees and power lines down.						
Rhea County									
Dayton	24	0750EST			0	0	4K		Thunderstorm Wind
			Trees down across road.						
Blount County									
Montvale Spgs	24	0800EST			0	0	7K		Thunderstorm Wind
			Trees down.						
Greene County									
Countywide	24	0800EST			0	0	12K		Thunderstorm Wind (G57) ^M
			Trees and power lines down. 65 mph wind gust measured by Greeneville Power and Light Co.						
Hamblen County									
Morristown	24	0805EST			0	0	2K		Thunderstorm Wind
			Trees down.						
Sevier County									
Countywide	24	0810EST			0	0	8K		Thunderstorm Wind
			Trees down.						
Mcminn County									
Niota	24	0830EST			0	0			Urban/Sml Stream Fld
			Minor flooding on Highway 11.						
Cocke County									
Newport	24	0830EST			0	0	3K		Thunderstorm Wind
			Trees down on Smoky Drive.						
Washington County									
Countywide	24	0830EST			0	0	7K		Thunderstorm Wind
			A few trees down.						
Monroe County									
Sweetwater	24	0835EST			0	0			Urban/Sml Stream Fld
			Minor flooding on Highway 11.						
<u>TENNESSEE, West</u>									
Obion County									
Union City	22	2330CST			0	0	1K		Urban/Sml Stream Fld
	23	0010CST							
			A few streets were flooded.						
Mcnairy County									
Michie	23	0940CST 1400CST			0	0	5K		Flash Flood
			Several roads were under water.						
Hardin County									
Savannah	23	1045CST 1400CST			0	0	20K		Flash Flood
			One home was flooded. Numerous roads were closed due to flooding.						
Obion County									
2 N Union City	24	0001CST			0	0	15K		Thunderstorm Wind
			One mobile home and one building were damaged. One house had its roof damaged.						
Shelby County									
Countywide	31	1737CST 1750CST			0	0	10K		Thunderstorm Wind
			Many trees were knocked down across the county.						

Storm Data and Unusual Weather Phenomena

January 2002

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

Henry County

Bethlehem to Buchanan	31	2000CST 2015CST			0	0	10K		Thunderstorm Wind
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Some trees were blown down.

TEXAS, Central

TXZ064-066-071>073-076-139>140-154 Sterling - Runnels - Irion - Tom Green - Concho - Crockett - Coleman - Brown - McCulloch

01	0400CST 1800CST				0	0			Heavy Snow
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A winter storm produced snow accumulation across parts of the Concho Valley and Heartland during the morning hours of the 1st. The heaviest snow fell along a band from San Angelo to Coleman, where reports of 3 to 4 inches were received. Most other areas saw totals of only 1 to 2 inches. With travel already slowed by the holiday and with schools not in session, disruption to the area was light. Only a few minor traffic accidents were noted, with no injuries reported.

TEXAS, Central Southeast

NONE REPORTED.

TEXAS, Extreme West

NONE REPORTED.

TEXAS, Mid - South

NONE REPORTED.

TEXAS, North

Hamilton County

Indian Gap	24	0520CST			0	0			Hail (1.00)
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Mills County

Priddy	24	0520CST			0	0			Hail (1.00)
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Hamilton County

Hamilton	24	0522CST			0	0			Hail (0.75)
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Hamilton County

Pottsville	24	0522CST			0	0			Hail (1.00)
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Bosque County

Iredell	24	0602CST			0	0			Hail (1.00)
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Bosque County

Meridian	24	0608CST			0	0			Hail (0.75)
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A line of thunderstorms developed along a slow moving dry line and produced hail up to an inch in diameter.

Hamilton County

Hamilton	31	0125CST			0	0			Flash Flood
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Many streets were flooded and water was reported in some houses.

Tarrant County

Ft Worth	31	0154CST			0	0			Flash Flood
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High water closed some streets in south Fort Worth.

Tarrant County

Ft Worth	31	0612CST			0	0			Flash Flood
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Several additional roads were closed due to high water.

A narrow band of heavy rain, approximately 30 miles wide, developed from southwest Hamilton County northeast across western Bosque, eastern Somervell, western Johnson, and southern Tarrant counties. This rain band produced general one to three inch rains, with isolated totals in flash flood areas near five inches.

TEXAS, North Panhandle

TXZ003>005-009>010 Hansford - Ochiltree - Lipscomb - Roberts - Hemphill

29	1800CST				0	0			Ice Storm
30	0600CST								

An arctic air mass in place over the northeastern Texas panhandle along with abundant moisture over the cold air produced a quarter of an inch or more of ice at Spearman...Perryton...Lipscomb...Miami...and Canadian Texas. Several accidents were reported across

Storm Data and Unusual Weather Phenomena

January 2002

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

the northern Texas panhandle due to the ice. The Lipscomb County Sheriff's Office reported several tractor-trailers going off the road during the night and into the morning hours and stretches of U.S. Highway 83 and U.S. Highway 60 had to be shut down temporarily.

TXZ001>020

Dallam - Sherman - Hansford - Ochiltree - Lipscomb - Hartley - Moore - Hutchinson - Roberts - Hemphill - Oldham - Potter - Carson - Gray - Wheeler - Deaf Smith - Randall - Armstrong - Donley - Collingsworth

30	0600CST								
31	0600CST								Winter Storm

A strong low pressure system in the upper atmosphere approached the Texas panhandle from the west as a cold arctic air mass remained in place along with abundant moisture. Eight inches of snow was reported at Dalhart and Perryton...seven to eight inches of snow reported at Stratford...eight to nine inches of snow reported at Spearman...six to eight inches of snow along with one inch of sleet reported at Borger...three to four inches of snow along with a half inch of ice reported at Lipscomb...five to six inches of snow along with one quarter of an inch of ice reported at Miami...four to five inches of snow along with one quarter of an inch of ice reported at Dumas...four to five inches of snow along with one inch of sleet reported at Panhandle...four inches of snow along with one inch of sleet and ice reported at Pampa...two to three inches of snow along with one half to one inch of ice and sleet reported at Canadian...Claude and Shamrock...three to four inches of snow along with one inch of sleet reported at Vega...two to three inches of snow along with one inch of sleet reported at Amarillo...one to two inches of snow along with one inch of sleet and ice reported at Hereford...one to two inches of snow along with one inch of sleet reported at Canyon...and one inch of snow along with one inch of ice reported at Clarendon and Wellington Texas. The Amarillo Police Department responded to about forty accidents on January 30 with the concentration of the accidents mainly along Interstate 40 and Interstate 27 and on major thoroughfares in the city of Amarillo. Most of the accidents were minor with no fatalities reported.

TEXAS, Northeast

NONE REPORTED.

TEXAS, South

TXZ248>255

Zapata - Jim Hogg - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron

01	0000CST								
31	2359CST								Drought

Very dry conditions prevailed across all of Deep South Texas again during the month of January, as moderate drought conditions persisted. Rainfall totals from around a tenth of an inch to a quarter of an inch were reported, with several locations receiving no rainfall during the month of January 2002. Unseasonably warm temperatures combined with high winds contributed to numerous grass fires. The average monthly temperature in Brownsville was 4.3 degrees above normal. Storage levels continue to fall at both Falcon and Amistad reservoirs with combined storage near 32 percent. Combined storage at this time last year was 44 percent.

TEXAS, South Central

NONE REPORTED.

TEXAS, South Panhandle

TXZ021>029

Parmer - Castro - Swisher - Briscoe - Hall - Childress - Bailey - Lamb - Hale

30	1100CST								
31	0300CST					15K			Winter Storm

A cold front pushed into the South Plains area from the east and northeast during the early morning hours of the 30th. Meanwhile, a strong upper level disturbance was approaching the region from New Mexico. As the disturbance approached, a large area of precipitation developed during the morning of the 30th as relatively warm and moist air was lifted up over the cold air near the surface. Due to the rather shallow depth of the cold air, the precipitation fell as freezing rain and sleet over the extreme southern Panhandle and northern South Plains. One quarter to three quarters of an inch of ice was reported on exposed surfaces. The ice brought down a few trees and some power lines but damage was not widespread from this storm. The precipitation changed to snow during the late afternoon and evening hours of the 30th with one to two inches accumulating on top of the ice over the southwestern Panhandle. The precipitation ended early on the 31st.

TEXAS, Southeast

NONE REPORTED.

TEXAS, West

NONE REPORTED.

TEXAS, Western North

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
UTAH, East									
UTZ027									
Grand Flat And Arches									
	04	2100MST			0	0			Fog
	05	0700MST							
Dense fog developed during the evening and reduced visibilities to 1/4 mile or less for about 10 hours.									
UTZ023-027>029									
Eastern Uinta Mountains - Grand Flat And Arches - La Sal & Abajo Mountains - Canyonlands / Natural Bridges									
	28	1200MST			0	0			Winter Storm
	30	1000MST							
A powerful slow-moving Pacific trough produced around a foot of new snow in many mountain areas and 4 to 7 inches of new snow in some lower elevation areas of eastern Utah. The highest reported snowfall total was 18 inches in the La Sal Mountains. Wind gusts of 20 to 40 MPH produced areas of blowing and drifting snow mainly over the higher elevations.									
UTAH, West and Central									
UTZ003-008									
Salt Lake And Toole Valleys - Wasatch Mountains South Of I80									
	03	0500MST			0	0	0	0	Heavy Snow
		0700MST							
A very localized snowstorm hit portions of the Salt Lake Valley and surrounding mountains just before the morning commute. Snow amounts in the mountains included 6 inches at Snowbird, 4 inches at Alta, and 3 inches at Brighton. In the valleys, Sandy had 2-3 inches, with 1-2 inches over the rest of the Salt Lake Valley.									
UTZ008									
Wasatch Mountains South Of I80									
	07	1200MST			0	0	0	0	Avalanche
		1300MST							
Avalanches closed the roads in Big Cottonwood and American Fork Canyons. The slide in Big Cottonwood Canyon covered the road with debris up to 10 feet deep. In American Fork Canyon, multiple slides covered the road up to 5 feet deep, closing the road for several days.									
UTZ012									
Castle Country/Price/Castle/Dale/Emery									
	13	1000MST			0	0	10K	0	High Wind (G52)
		1300MST							
Strong downslope winds blew through parts of Eastern Utah in Carbon and Emery counties. Minor wind damage was reported in Ferron, where wind gusts were estimated at 60 mph (52 kts).									
UTZ002>004-007>008									
Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Wasatch Mountains I80 North - Wasatch Mountains South Of I80									
	15	0700MST			0	0	220K	0	Heavy Snow
		1900MST							
A cold arctic storm dropped several inches of fluffy snow across Northern Utah. The slick roads resulted in hundreds of mainly minor traffic accidents along the Wasatch Front. Snow totals included Alta with 8 inches, Snowbird with 7 inches, Bountiful Bench 5 inches, East Layton and Northeast Ogden 4 inches, and Provo with 3 inches.									
UTZ002>004-007>008									
Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Wasatch Mountains I80 North - Wasatch Mountains South Of I80									
	18	0600MST			0	0	0	0	Heavy Snow
		1700MST							
Another storm brought good amounts of snow to Northern Utah, with 8-20 inches in the Wasatch Mountains and 2-8 inches along the Wasatch Front.									
UTZ002>003-006>008									
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									
	22	0300MST			0	0	0	0	Heavy Snow
		2300MST							
A cold front brought more heavy snow to portions of Northern Utah, with the heaviest concentration of snow along the Wasatch Front from Salt Lake City north, and in the mountains east of Ogden. Snowbasin reported 16 inches of fresh powder, with 12 inches at Powder Mountain. In the lower elevations, Pineview Dam reported 7 inches, North Salt Lake Bench 6 inches, Centerville 5 inches, and South Ogden had 3 inches.									
UTZ001>004-006>008									
Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80									
	27	0700MST			0	38	720K	0	Winter Storm
	29	1500MST							
A major winter storm blasted Northern Utah with heavy snow, strong winds, and bitter cold air. When it was over, snowfall totals									

Storm Data and Unusual Weather Phenomena

January 2002

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

UTAH, West and Central

ranged from 2-4 feet in the mountains, with 2 feet in the Cache Valley, 10-20 inches along the Northern Wasatch Front, and 3-6 inches in the Salt Lake Valley. The heavy snow bands that set up along the cold front virtually shut down Logan and surrounding areas. On the 28th, schools were closed in the Cache Valley, Rich County, and Box Elder County. Utah State University cancelled classes, and Logan City offices were closed. As the storm moved south, heavy snow and strong winds resulted in road closures and hundreds of accidents. US Highway 40 was closed from Park City to Heber City due to whiteout conditions. Most ski resorts were either closed or restricted to limited terrain due to whiteout conditions and dangerous avalanche conditions. Snowfall totals in the mountains included 45 inches at Brighton, 42.5 inches at Alta, 34 inches at Solitude, 24-36 inches in the town of Park City, 31 inches at Snowbird, 30 inches at Powder Mountain, and 20 inches at Snowbasin. The lower elevations had impressive totals as well, with Clarkston coming in with 29 inches, Logan 22.5 inches, Smithfield 22 inches, Liberty and Ogden 15 inches, Brigham City 11 inches, South Ogden 9 inches, Centerville 8 inches, Stansbury Park 6 inches, and the Salt Lake City International Airport 4.5 inches.

UTZ009

Western Uinta Mountains

31 1400MST 1 0 0 0 Avalanche

An avalanche claimed the life of a 29-year-old Heber City man. The avalanche occurred in the Western Uinta Mountains east of Oakley, near Windy Ridge. Six people were skiing in two separate groups when a 5-foot-deep snow slab broke off from the slope above just before 2 pm. The victim was buried under 4 feet of snow for 15 minutes before being dug out. He died of massive head and neck trauma, not suffocation, according to paramedics on the scene.
M29OU

VERMONT, North and Central

VTZ004-006>008-010 Essex - Lamoille - Caledonia - Washington - Orange

06 2100EST 0 0 25K Light Snow
07 0800EST

A storm system moved up the east coast during Sunday, January 6, 2002. It reached Long Island, NY Sunday evening and then moved northeast into the Gulf of Maine Monday morning, January 7th. Snow began around 9 PM on the 6th of January, and tapered off to flurries Monday morning, January 7th. Accumulations by morning were generally between 4 and 6 inches. A few reports included: Groton (Caledonia county) 6 1/2 inches, Lunenburg (Essex county) 6 inches, Plainfield (Washington county) 4 1/2 inches with 4 inches in Morrisville (Lamoille county). In Orange county, Brookfield reported 6 inches while there was an isolated report of 10 inches at Union Village Dam along the Orange and Windsor county borderline. There was a fairly tight northeast to southwest gradient of snowfall across Vermont. In fact, across the remainder of northwest Vermont snowfall was generally 3 inches or less.

VTZ011>012

Rutland - Windsor

07 0100EST 0 0 50K Heavy Snow
0800EST

A storm system moved up the east coast during Sunday, January 6, 2002. It reached Long Island, NY Sunday evening and then moved northeast into the Gulf of Maine Monday morning, January 7th. Snow began around 6 PM on the 6th of January, and reached heavy criteria around 1 AM on the 7th of January. Heavy snow fell during the night, with accumulations by morning between 6 and 15 inches. A few reports included: In Rutland county, East Wallingford received 12 inches while Poultney reported 6 1/2 inches. In Windsor county, reports ranged from 15 inches at Cavendish to 12 inches in Springfield to 6 inches in Rochester in the far northwest part of the county. Schools were closed in a number of Windsor county towns. Power outages were reported in both Rutland and Windsor counties.

VTZ003>004-007-010

Orleans - Essex - Caledonia - Orange

13 0900EST 0 0 20K Light Snow
1500EST

A storm system off the New Jersey coast early Sunday, January 13th, moved northeast away from New England during the afternoon and evening of January 13th. Snow fell across the area during the morning and afternoon. Accumulations were generally 2 to 5 inches, with the heaviest snow in Essex county. Lesser amounts fell across the remainder of Vermont. A few reports included: Island Pond (Essex county) 5 inches...Lyndonville (Caledonia county) 3 inches and South Newbury (Orange county) 2 1/2 inches. Across Orleans county State Police reported roads very slippery.

VTZ002-005>009-011>012

Franklin - Chittenden - Lamoille - Caledonia - Washington - Addison - Rutland - Windsor

15 2100EST 0 0 8K Light Snow
16 0600EST

A weak weather disturbance moved from the Great Lakes on January 15th across northern New England by early morning on the 16th of January. This, combined with an upper level weather disturbance, resulted in orographic snowfall of generally 3 to 6 inches primarily along the western slopes of the Green Mountains and other hilly terrain with a few locally higher amounts. Light snow also fell in Caledonia county. A few reports were: 5 inches in the town of Essex (Chittenden county) while 6.8 inches fell in Underhill (Chittenden county). Tyson (Windsor county) reported 4 inches with 3 inches in southern Caledonia county.

Storm Data and Unusual Weather Phenomena

January 2002

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

VTZ002>003-005>006- Franklin - Orleans - Chittenden - Lamoille - Washington 008

24	1400EST 2000EST				0	0	5K		Snow Squalls
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A cold front moved across the area with snow squalls reported across northern Vermont. Generally 3 to 5 inches fell with the heavier squalls. In Underhill (Chittenden county) 3.5 inches of snow was reported.

VTZ002>004-007 Franklin - Orleans - Essex - Caledonia

25	1500EST 2000EST				0	0	1K		Light Snow
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A weak upper level disturbance resulted in light snow and snow squalls across far northern Vermont. Generally 3 to 5 inches fell in a short period of time. In East Albany (Orleans county) 4 inches fell while Sutton (Caledonia county) reported 4.2 inches.

VTZ010>012 Orange - Rutland - Windsor

31	1900EST 2359EST				0	0	30K		Winter Storm
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Low pressure over the Ohio valley Thursday evening, January 31st moved northeast into southern Canada during Friday, February 1st. Snow overspread the area during the afternoon of January 31st. The snow mixed with sleet during the late night of the 31st. The mixed precipitation continued into February 1st as freezing rain, changing to rain in the morning of February 1st. Snow accumulations were generally 6 to 8 inches with 1/4 of an inch of ice on top of the snow creating dangerous winter conditions. A few snow accumulation reports were: Bethel (Windsor county) 8 inches, Chelsea (Orange county) 7 inches and Rutland (Rutland county) 6 inches.

VTZ001>002-005-009 Grand Isle - Franklin - Chittenden - Addison

31	1900EST 2359EST				0	0	40K		Winter Storm
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Low pressure over the Ohio valley Thursday evening, January 31st moved northeast into southern Canada during Friday, February 1st. Snow overspread the area during the afternoon of January 31st. The snow mixed with sleet during the night of the 31st. The mixed precipitation continued into February 1st as freezing rain, changing to rain in the morning of February 1st. Snow accumulations were generally 5 to 10 inches with 1/8 of an inch of ice on top of the snow creating dangerous winter conditions. A few snow accumulation reports were: Cornwall (Addison county) 10 inches, NWS Burlington Office (Chittenden county) 5.5 inches, and Shelburne Springs in Franklin county with 5 inches.

VTZ003>004-006>008 Orleans - Essex - Lamoille - Caledonia - Washington

31	2100EST 2359EST				0	0	50K		Winter Storm
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Low pressure over the Ohio valley Thursday evening, January 31st moved northeast into southern Canada during Friday, February 1st. Snow overspread the area during the afternoon of January 31st. The snow mixed with sleet during the late night of the 31st. The mixed precipitation continued into February 1st as sleet and freezing rain changing to freezing rain then just rain by the afternoon of February 1st. Snow accumulations were generally 5 to 8 inches with 1/4 of an inch of ice on top of the snow creating dangerous winter conditions. In Worcester (Washington county) 1 to 3 inches of sleet was reported. A few accumulation reports of snowfall were: Both Groton (Caledonia county) and Waitsfield (Washington county) reported 8 inches. Morrisville (Lamoille county) reported 7 inches while Greensboro in Orleans county received 6 inches.

VERMONT, South

VTZ013>014

Bennington - Windham

06	2300EST				0	0			Winter Storm
07	1500EST								

A compact low pressure area developed across the Gulf States on Sunday, January 6. This storm loaded up with Gulf of Mexico moisture, then swiftly tracked up along the Atlantic seaboard, and was already in the Gulf of Maine by the following Monday morning. The upper level support to this system moved across the region during the day Monday and brought another round of lighter snow. While the two systems never really did evolve into an especially powerful storm, they did manage to produce a swath of snow in excess of a foot across southern Vermont. Fifteen inches of snow fell at Pownal, Bennington County and 18 accumulated at Marlboro, Windham County. The storm managed to close schools and businesses across the region, as well as producing many vehicular accidents.

VTZ013>014

Bennington - Windham

31	1300EST 2359EST				0	0			Winter Storm
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An area of low pressure, in the Ohio Valley, developed along a strong stationary boundary on January 31. The storm then tracked northeast through the Saint Lawrence Valley by the end of the day and month. With cold shallow air in place over Southern Vermont, and warm moist air being forced over the cold dome, the stage was set for a potpourri of wintry precipitation. Snow and sleet developed across Southern Vermont during the morning hours of the 31st. The combination of snow and sleet, followed by freezing rain, produced over half an inch of water equivalent. The accumulation of snow and sleet ranged between 1 and 5 inches. A light

Storm Data and Unusual Weather Phenomena

January 2002

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

coating of icing accumulated on top of that, making for extremely hazardous travel and difficulty in removing the frozen/freezing precipitation.

VIRGIN ISLANDS

VIZ002

St. Croix

17	1800AST 2000AST				1	0			High Seas
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High swells estimated at 10 feet swamped and capsized a ship boat about 12 miles of Sandy Point in St. Croix. Two of their occupants managed to climb on top of the boat and were rescued two days later. The third person was never found and presumed dead. M50IW

VIRGINIA, East

VAZ060-065>067-079>081-087>089-091>098

Prince Edward - Mecklenburg - Lunenburg - Nottoway - Brunswick - Dinwiddie - Prince George - Greenville - Sussex - Surry - York - Southampton - Isle Of Wight - Newport News - Norfolk - Suffolk - Chesapeake - Virginia Beach

02	2200EST				0	0			Winter Storm
03	2100EST								

A winter storm produced 8 to as much as 12 inches of snow across southcentral and southeast Virginia. Some specific higher snow totals included: City of Hampton 12", Prince George in Prince George county 11-12", Skippers in Greenville county 12", Dinwiddie in Dinwiddie county 11", Lunenburg in Lunenburg county 11", City of Norfolk 7-9", and Lawrenceville in Brunswick county 11". Local law enforcement agencies reported numerous accidents. Most, if not all schools in the area, were closed Thursday, January 3rd and Friday, January 4th due to very slippery road conditions.

VAZ061>064-068>078-082>086-090-099>100

Cumberland - Goochland - Hanover - Caroline - Amelia - Powhatan - Chesterfield - Henrico - King William - King And Queen - Essex - Westmoreland - Richmond - Northumberland - Lancaster - Charles City - New Kent - Gloucester - Middlesex - Mathews - James City - Accomack - Northampton

02	2330EST				0	0			Winter Storm
03	1700EST								

A winter storm produced 5 to 8 inches of snow across the piedmont of central Virginia, the Virginia northern neck, the middle peninsula, and the Virginia eastern shore. Some specific higher snow totals included: City of Richmond 7-8", City of Colonial Heights 8", Gloucester Point in Gloucester county 8", Mechanicsville in Hanover county 8", Nassawadox in Northampton county 8", Parksley in Accomack county 7", and Ruther Glen in Caroline county 7.5". Local law enforcement agencies reported numerous accidents. Most, if not all schools in the area, were closed Thursday, January 3rd and Friday, January 4th due to very slippery road conditions.

VAZ048>049

Fluvanna - Louisa

02	2330EST				0	0			Winter Storm
03	1700EST								

A winter storm produced 3 to 4 inches of snow across Fluvanna and Louisa counties of central Virginia. Local law enforcement agencies reported several accidents. Many schools in the area were closed Thursday, January 3rd and Friday, January 4th due to very slippery road conditions.

VAZ099

Accomack

06	1600EST				0	0	20K		High Wind
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Non-thunderstorm wind damage occurred to several trailers in a trailer park in the Parksley area. Also, damage occurred to a horse stable, a home, and several pine trees in the Melfa area.

VAZ048>049-060>064-066>069-071

Fluvanna - Louisa - Prince Edward - Cumberland - Goochland - Hanover - Caroline - Lunenburg - Nottoway - Amelia - Powhatan - Henrico

19	0900EST 2200EST				0	0			Winter Storm
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A winter storm produced a mixture of snow, sleet, and freezing rain across portions of central Virginia. Snowfall totals were 2 to 4 inches, except up to 5 inches occurred in parts of Fluvanna county. Local law enforcement agencies reported numerous accidents due to very slippery road conditions.

VIRGINIA, Extreme Southwest

VAZ001>002-005>006-008

Lee - Wise - Scott - Russell - Washington

05	2300EST				0	0			Winter Storm
06	1900EST								

A winter storm brought an average of 4-7 inches of snow to southwest Virginia. The two exceptions occurred in Wise County with 6-12 inches, and Washington County with only a dusting.

Storm Data and Unusual Weather Phenomena

January 2002

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

Norton (C)

Norton	24	0730EST			0	0	2K		Thunderstorm Wind
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Numerous large tree limbs down on power lines.

Lee County Countywide

24	0730EST			0	0	6K		Thunderstorm Wind
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Trees down.

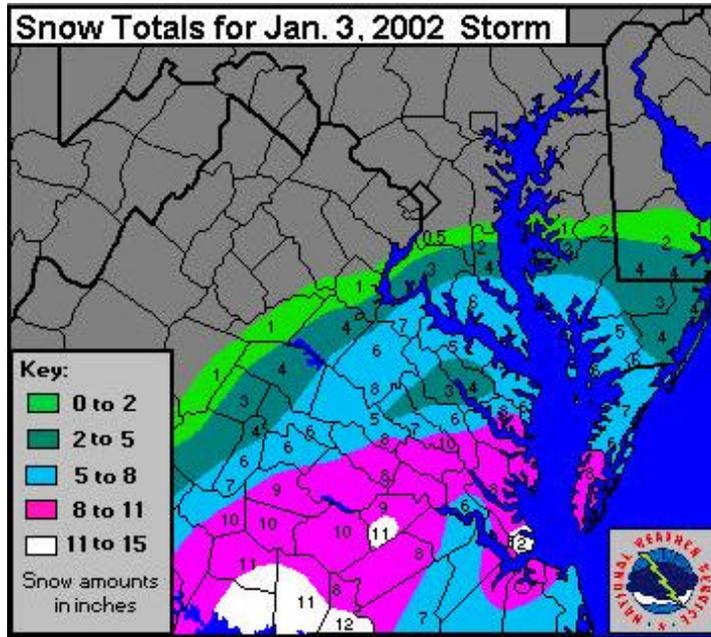
VIRGINIA, North

VAZ037-050-055

Albemarle - Orange - Stafford	03	0500EST 1500EST			0	0		Winter Weather
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VAZ056>057

Spotsylvania - King George	03	0500EST 1500EST			0	0		Winter Storm
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Low pressure tracked across extreme southeast Virginia during the morning of the 3rd. This storm brought light to moderate snowfall to the Central Piedmont and Fredericksburg areas between 5 AM and 3 PM. Because the ground was very cold, the snow stuck to area roads and caused hazardous driving conditions during the morning commute. In Albemarle County, between 1 and 2 inches of snowfall was reported. A 73-year-old man was killed when his pickup truck fish-tailed then hit an embankment and overturned into a ditch on Red Hill Road. A seven-car pileup was reported around 8 AM near the intersection of Hydraulic Road and Route 250 in Charlottesville. In Orange and Stafford Counties, an inch of snow caused slippery roads and delayed school openings. In Spotsylvania and King George Counties, snowfall totals ranged from 3 to 5 inches.

VAZ021-026>028

Highland - Rockingham - Shenandoah - Frederick	06	1200EST 2100EST			0	0		Winter Storm
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VAZ025-029>031-039>042

Augusta - Page - Warren - Clarke - Madison - Rappahannock - Fauquier - Loudoun	06	1200EST 2100EST			0	0		Winter Weather
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Low pressure moved from the Gulf Coast through the Eastern Seaboard on the 6th and brought a mixed bag of precipitation to the region. From the Blue Ridge west, the precipitation fell mainly in the form of snow with a period of sleet and freezing rain at the onset. The Shenandoah Valley received a few hours of freezing rain at the beginning of the event which resulted in several accidents. One hundred wrecks were reported on Interstate 81 between southern Rockingham County and northern Shenandoah County. Multi-car crashes temporarily closed the southbound lanes of I-81 near Mount Crawford and Woodstock. East of the Blue Ridge, a mix of rain, freezing rain, and sleet changed over to snow and sleet late in the day.

Storm Data and Unusual Weather Phenomena

January 2002

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

VIRGINIA, North

In Rockingham County, snow and sleet accumulations ranged from 3 to 5 inches. Twelve traffic accidents were reported in Harrisonburg. In Shenandoah County, accumulations averaged around 4 inches. In Frederick County, accumulations ranged from 4.5 to 6 inches. In Highland County, 4 to 6 inches was reported. In Augusta County, accumulations of 2 to 4 inches were noted. A thin coating of ice on roads caused as many as 50 accidents in the Staunton and Waynesboro areas. Across the county on I-81, 59 accidents were reported. In Madison County, a trace of snow and sleet fell on a thin coating of ice. Slick roads were reported countywide. In Page County, snow and sleet accumulations averaged around 2 inches. In Rappahannock and Fauquier Counties, only about 1/2 inch of snow and sleet fell. However, a coating of ice was reported on trees and power lines in Fauquier County. In Warren County, about 1.5 inches of snow and sleet was reported. In Clarke County, about 1 inch fell. In Loudoun County, accumulations ranged from a trace to 2 inches.

VAZ053>054

Fairfax - Arlington

09	0600EST			0	0				
	0800EST								Winter Weather

Light drizzle measuring three hundredths of an inch or less fell from low clouds between 6 and 7 AM on the 9th. Temperatures on roads were below freezing so the drizzle froze on impact. This created slippery driving conditions during the morning commute and several accidents were reported. In Fairfax County, 11 school buses were involved in accidents and a bus driver and student were injured. A 16-car-pileup occurred on Interstate 66. A traffic backup of 15 miles was reported on the Dulles Toll Road. Countywide, 151 traffic accidents were reported. About 150 people were admitted to area hospitals for slip and fall injuries. In Arlington County, 36 wrecks were reported.

VAZ021-025-028-042

Highland - Augusta - Frederick - Loudoun

19	0600EST			0	0				
	2300EST								Winter Storm

VAZ026>027-029>031-036>041-050>057

Rockingham - Shenandoah - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George

19	0600EST			0	0				
	2300EST								Winter Weather

Low pressure that moved across North Carolina on the 19th brought mixed precipitation to the region between 6 AM and 11 PM. In most locations, the precipitation started off in the form of snow, then changed to a mix of sleet and rain around midday. In Highland County, about 5 inches of snow and sleet was reported. In Augusta County, 3 to 6 inches accumulated. The weather was a factor in a deadly car accident in Augusta County. A 66-year-old-man was killed after his car slipped off Route 250 near Route 629 and struck an embankment. In addition, two tractor trailer accidents blocked traffic on Interstate 81 for up to 4 hours. In Frederick and Loudoun Counties, 3 to 5 inches fell. In Nelson, Rockingham, Stafford, and Albemarle Counties about 4 inches accumulated. In Madison, Clarke, Greene, and Spotsylvania Counties 3 to 4 inches fell. Green County officials reported 22 weather-related accidents. In Orange, Fairfax, and Warren Counties 2 to 4 inches of accumulation was recorded. In King George and Arlington Counties about 3 inches fell. In Prince William, Rappahannock, Shenandoah, and Fauquier Counties, in addition to the cities of Alexandria and Falls Church, 2 to 3 inches accumulated. In Page and Culpeper Counties about 2 inches of accumulation was reported.

VIRGINIA, Northwest

VAZ003>004

Dickenson - Buchanan

06	0700EST			0	0				
	1700EST								Heavy Snow

A quick moving storm racing northeast, through the southeastern states, brought snow during the day on Sunday, the 6th. A lull occurred late Sunday and Sunday evening, before the backlash snow showers accumulated into Monday afternoon, the 7th. Heavy wet snow accumulated a total of 5 to 10 inches in the valleys. The higher mountain ridges saw an accumulation of 10 to 14 inches.

VAZ003>004

Dickenson - Buchanan

23	0400EST			0	0	15K			
	1500EST								Flood

Rains of 1.5 to 2.5 inches fell in a 6 to 8 hour period. The region was north of a frontal zone in the Tennessee Valley. The heaviest was over the southern portions of both counties, including Clintwood, Nora, Davenport, and Council. Swelling small streams flowed across several roads. Roads were closed. Water from Big Branch of Dickenson County got into some maintenance buildings used by the state highway department. The Russell Fork at Haysi rose 9.5 feet in less than 12 hours, peaking near 12 feet, but still within its banks. No homes were flooded.

VAZ003>004

Dickenson - Buchanan

31	1000EST			0	0				
	1800EST								Record Warmth

Afternoon temperatures reached well into the 70s. Breaks Interstate Park had 76 degrees, while Clintwood recorded 74 degrees.

Storm Data and Unusual Weather Phenomena

January 2002

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

VAZ032-043>045-058>059 Patrick - Henry - Pittsylvania - Campbell - Halifax - Charlotte

02	2200EST				0	0			Heavy Snow
03	1200EST								

Snow developed during the late evening on the 2nd and accumulated 5 to 10 inches before ending midday on the 3rd.

VAZ007-020

Tazewell - Bath

06	0700EST				0	0			Winter Storm
	2200EST								

Snow and sleet during the 6th accumulated up to 6 inches across parts of Bath and Tazewell counties.

VAZ014>016-022

Montgomery - Grayson - Carroll - Roanoke

19	0800EST				0	0			Winter Storm
	2100EST								

Snow accumulated several inches during the morning of the 19th before changing to freezing rain. Ice accretion reached a quarter of an inch before the freezing rain ended in the evening.

VAZ018>020-023>024-034>035-047 Craig - Alleghany - Bath - Botetourt - Rockbridge - Bedford - Amherst - Buckingham

19	1100EST				0	0			Winter Storm
	2200EST								

Snow developed during the morning of the 9th and accumulated 5 to 7 inches before changing to sleet and freezing rain, then ending late in the evening.

Tazewell County

Wardell

23	1100EST				0	0			Urban/Sml Stream Fld
	1330EST								

A combination of heavy rain and melting snow on the 23rd caused minor flooding along the Little River near Wardell.

WASHINGTON, Northeast

WAZ033-036>037 Washington Palouse - Spokane Area - Northeast Mountains

18	2100PST				0	0			Heavy Snow
19	1400PST								

The onset of strong, moist westerly flow with a cold air mass in place led to heavy snow for northeast Washington as well as near the Cascade crest from late evening on January 18 into the 19th. Snowfall totals through this event include: Quartz Peak SNOTEL...18", 49 North Ski Area...13", Mount Spokane Ski Area...12.5", Bunchgrass Meadows SNOTEL...10", Otis Orchards...7", Boundary Dam...6", Ione...6", Rosalia...6", Oakesdale...6", Williams Lake...5", Bodie Mountain...5", Deer Park...4.5", Onion Creek...4.3", Wellpinit...4", NWS Spokane...3.5", Colville...3.5", and Springdale...3.5".

WAZ042

East Slopes Northern Cascades

19	0400PST				0	0			Winter Storm
20	2000PST								

Strong, moist westerly flow brought heavy snow near the Cascade crest during this two-day period. On the 20th, strong winds from aloft mixed down to the surface and brought high winds. The avalanche sensor at the top of Chair 2 at the Mission Ridge Ski Area (elevation 6740 feet) measured sustained winds of 50-60 mph from 5 AM to 5 PM on January 20 with a top wind gust to 103 mph measured at noon. Such strong winds blew trees over into the ski runs at Mission Ridge, and the winds forced the closure of ski operations at both Mission Ridge and Stevens Pass for a large part of the day on what would normally have been a busy holiday weekend. In addition, the avalanche sensor at Tumwater Mountain (near Leavenworth) measured a top wind gust to 43 mph at 1 PM on the 20th. Snowfall totals with this storm include: Stevens Pass Ski Area...22", Miners Ridge SNOTEL...21", Lyman Lake SNOTEL...21", Stevens Pass SNOTEL...19", Park Creek Ridge SNOTEL...17", Harts Pass SNOTEL...15", and Mazama...12.3".

WAZ031

Northeast Blue Mountains

19	1500PST				0	0			Heavy Snow
20	1500PST								

Strong, moist westerly flow brought heavy snow to the northeast Blue Mountains on January 20. The nearby Bluewood Ski Area received 19" of snow, and the Spruce Springs SNOTEL received 11" of snow.

WAZ041-044

Wenatchee Area - Waterville Plateau

20	1200PST				0	0	40K		High Wind (G66) ^M
	1600PST								

Strong southwesterly spread from the top of Mission Ridge to the northeast down Number One Canyon, Number Two Canyon, Pitcher Canyon and the Stemilt Canyon into the Wenatchee Valley. High wind also impacted the Waterville Plateau. Strong winds first appeared atop Mission Ridge, where a wind sensor at elevation 6740 feet measured sustained winds of 50-60 mph with a top gust to 103 mph at noon. (For more information on how the winds affected the mountains, see the Winter Storm entry for the

Storm Data and Unusual Weather Phenomena

January 2002

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

WASHINGTON, Northeast

Northern Cascade East Slopes.) From there, the wind came down the canyon southwest of the Wenatchee Valley and eventually brought a top wind gust of 53 mph to the Wenatchee Airport (Pangborn Field) at 135 PM. Atop the Waterville Plateau, the Douglas RAWS site measured a top wind gust to 76 mph around 200 PM. A private homeowner in Wenatchee Heights measured an unofficial wind gust of 112 mph.

The high winds knocked over trees, blew down fences, and caused sporadic power outages. In Wenatchee, a 60-foot tall fir tree toppled over and landed on a house on North Elliott Avenue, causing \$15,000 damage. One tree fell onto a power line on Crawford Street, knocking out power to about 700 homes from Appleyard in south Wenatchee to Stevens Street. High winds were also responsible for several thousand customers losing power along US Highway 97A from north of Wenatchee to the Stayman Flats area, including Entiat, the Entiat Valley and the Knapp Hill Tunnel. Other trees blew onto power lines on Atwood and Princeton Streets near Wenatchee, and on Wapato Way in Manson. Wenatchee police shut down the intersection of Hawthorne and Yakima Streets for two hours when a pole with utility lines and a street light blew down. Other fallen trees had near-misses with an apartment on Fifth Street and a house on Gale Street.

WAZ031-037-042

Northeast Blue Mountains - Northeast Mountains - East Slopes Northern Cascades

24	0000PST			0	0			Heavy Snow
25	1800PST							

Strong moist westerly flow just south of a stalled frontal boundary brought heavy snow for elevations above 4000 feet to the Cascade crest, the northeast mountains of Washington, and the northeast Blue Mountains. Two-day snowfall totals in the Cascades include: Stevens Pass Ski Area...62", Miners Ridge SNOTEL...49", Lyman Lake SNOTEL...40", Harts Pass SNOTEL...31", Park Creek SNOTEL...30", Stevens Pass SNOTEL...35", and Blewett Pass SNOTEL...12". Two-day snowfall totals in northeast Washington include: Mount Spokane Ski Area...15", Quartz Peak SNOTEL...9". In the northeast Blue Mountains, the nearby Bluewood Ski area received 23" and the Spruce Springs SNOTEL site received 16" of snow.

WAZ033-036>037

Washington Palouse - Spokane Area - Northeast Mountains

31	1200PST			0	0			Heavy Snow
	2200PST							

A strong warm front lifting north across the area brought heavy snow to parts of far eastern Washington. Snowfall totals include: Mount Spokane Ski Area...20", Quartz Peak SNOTEL...16", Bunchgrass Meadows SNOTEL (16 SE Metaline Falls)...13", 49 Degrees North Ski Area...12", Loon Lake...9", Deer Park...8.5", Clayton...8.5", 9 SSE Chewelah...8", Diamond Lake...5", Pullman...5", Colville...4", Williams Lake...3.5", and NWS Spokane (4 NW Airway Heights)...3".

WASHINGTON, Northwest

WAZ002-005>007-010>012

Western Whatcom - Northwest Interior - Everett And Vicinity - Seattle Metropolitan Area - Hood Canal/Kitsap Peninsula - Southwest Interior - Olympics

07	1600PST			0	0	200K		Flood
10	0700PST							

Heavy rain caused widespread flooding in western Washington. The Cowlitz, Chehalis, Satsop, Elwha, Dungeness, Skokomish, Puyallup, Snoqualmie, Skykomish, Snohomish, Stillaguamish, Skagit, and Nooksack Rivers flooded. The Deschutes and the Tolt crested just below flood stage. The most serious flooding occurred on the Elwha, Dungeness, and Skagit Rivers. The crest on the Dungeness was probably a new record (pending certification by USGS), and was around a 25-year recurrence interval flood. Crests on most other rivers were between 2- and 10-year floods. Several roads in the region were closed and a few homes were damaged. One road in the Bremerton area was completely washed out and cut off access to nearly a dozen homes.

WAZ001>010-013

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 - Eastern Strait Of Juan De Fuca

27	0100PST			0	0			Heavy Snow
	2300PST							

Snow fell over parts of northwest Washington, bringing treacherous driving conditions to the area. Snowfall amounts varied from 1 to 9 inches, in Sequim they got about 6 inches in 2 and a half hours (which is more than their annual average). In addition to dozens of accidents, 2 people died in weather related incidents and one roadway was closed for 6 hours.

WASHINGTON, Southeast

WAZ028

Lower Columbia Basin

12	1100PST			0	0	5K		High Wind (G50) ^M
	1315PST							

Strong winds brought scattered damage to the Lower Columbia Basin during the middle of the day. Sustained winds of over 40 mph were reported at the Pasco Airport and widespread wind gusts of over 58 mph were reported at the Hanford site. These strong winds blew a section of a metal roof off a building in Pasco.

Storm Data and Unusual Weather Phenomena

January 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WASHINGTON, Southeast									
WAZ030			Northwest Blue Mountains						
	19	2200PST			0	0			Heavy Snow
	20	1200PST							
	Heavy snow fell overnight at Ski Bluewood, a ski resort at an elevation of 4500 feet. 18 inches fell over a 14 hour period.								
WAZ028			Lower Columbia Basin						
	24	1500PST			0	1	100K		High Wind
	Strong winds caused a tractor trailer to overturn on Highway 240 west of Richland. The driver only reported minor injuries.								
WASHINGTON, Southwest									
WAZ021			South Coast						
	06	0300PST			0	0			Winter Storm
	07	2100PST							
	High winds and heavy rains knocked out power to 5000 customers on the Long Beach Peninsula. Highway 4 was closed east of Cathlamet due to the potential of the heavy rains causing slides. Cape Disappointment reported winds to 40 mph.								
WAZ019			West Slopes Southern Cascades And Passes						
	18	0900PST			0	0			Heavy Snow
	19	2200PST							
	The Mt. St. Helens Coldwater Visitor Center received 12 inches.								
WAZ039			Vancouver Area						
	19	0300PST			0	0			Heavy Snow
	22	2100PST							
	A strong winter storm brought heavy snows to the Southwest Washington area. Vancouver received 1 to 2 inches and 6+ inches was reported on Livingston Mt.								
WAZ039			Vancouver Area						
	24	0200PST			0	0			Heavy Snow
	27	1200PST							
	Another winter storm brought heavy snows to the area. Brush Prairie reported 6 inches.								
WAZ039			Vancouver Area						
	27	0900PST			0	0			Heavy Snow
	28	2100PST							
	Brush Prairie reported receiving 2 inches of snow.								
WAZ039>040			Vancouver Area - Southern Cascade Foothills						
	29	0900PST			0	0			Heavy Snow
	30	1800PST							
	Kelso, Battle Ground and La Center reported 1 to 2 inches and up to 6 inches was reported at the higher elevations around Battle Ground.								
WEST VIRGINIA, East									
WVZ048>052-054>055			Grant - Mineral - Hampshire - Morgan - Berkeley - Pendleton - Hardy						
	06	1200EST			0	0			Winter Storm
		2100EST							
WVZ053			Jefferson						
	06	1200EST			0	0			Winter Weather
		2100EST							
	Low pressure moved from the Gulf Coast through the Eastern Seaboard on the 6th and brought precipitation to the Eastern Panhandle between midday and evening. The precipitation fell mainly in the form of snow with a period of sleet and freezing rain at the onset. Snow bursts occasionally dropped visibilities below one quarter mile in some locations. In Pendleton County, 7 inches of snow and sleet accumulated in Franklin. In Grant County, 4 to 5 inches fell. In Hardy County, 4.5 to 5.5 inches was reported. In Mineral County, 6 inches fell in Keyser. In Hampshire County, 4 to 7 inches accumulated. In Morgan County, 7.8 inches fell in Berkeley Springs and 8 inches fell in Upper Track. In Berkeley County, 4 to 6 inches was recorded. In Jefferson County, 3 inches fell at Shenandoah Junction.								
WVZ048-051>052-055			Grant - Morgan - Berkeley - Hardy						
	19	0600EST			0	0			Winter Storm
		2300EST							
WVZ049>050-053>054			Mineral - Hampshire - Jefferson - Pendleton						
	19	0600EST			0	0			Winter Weather
		2300EST							

Storm Data and Unusual Weather Phenomena

January 2002

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

Low pressure that moved across North Carolina on the 19th brought mixed precipitation to the region between 6 AM and 11 PM. The precipitation started off in the form of snow, then changed to a mix of sleet and rain around midday. In Grant County, 3 to 6 inches of snow and sleet accumulated. In Hardy County, 3 to 5 inches was reported. In Morgan County, 5 inches fell. In Berkeley County, 2 to 5 inches was recorded. In Pendleton County, 3 to 4 inches accumulated. In Mineral and Jefferson Counties, about 3 inches fell. In Hampshire County, 2 to 4 inches was recorded.

WEST VIRGINIA, North

WVZ004-012-021>023- Marshall - Wetzel - Marion - Monongalia - Preston - Tucker

041

06	1800EST								
07	0700EST				0	0			Heavy Snow

A winter storm spread heavy snow across northern West Virginia. The snow started falling during the early morning hours of the 6th, with several inches accumulating by midday. The snow finally tapered to flurries by the early morning hours on the 7th. Final snowfall totals across the counties were as follows: Preston County 6-10 inches; Tucker County 5-9 inches; Monongalia County 5-8 inches; Marion, Marshall and Wetzel Counties 4-6 inches.

WVZ023-041

Preston - Tucker

19	2000EST								
	2300EST				0	0			Heavy Snow

An area of low pressure passing just to the south of the region spread several inches of snow across sections of northern West Virginia. Preston County reported between 4-6 inches of accumulation, while Tucker County received between 6-8 inches of snow. Snow started falling by around dawn on the 19th and tapered to flurries by the late evening hours.

WEST VIRGINIA, Southeast

WVZ045

Greenbrier

06	0700EST								
	2200EST				0	0			Winter Storm

Snow and sleet on the 6th accumulated up to 6 inches before ending in the evening.

WVZ043-045

Summers - Greenbrier

19	0600EST								
	2200EST				0	0			Winter Storm

Snow during the 19th accumulated up to 6 inches before changing to sleet and freezing rain.

WEST VIRGINIA, West

WVZ039>040-047

Upshur - Barbour - Randolph

02	0300EST								
	0900EST				0	0			Extreme Cold

On a clear night, the temperature along the mountain valleys fell below zero. At dawn, Gladys had 9 below zero, Kumbrabow State Forest was 6 below. The airport near Elkins had minus 2, while the community of Belington observed minus 1.

WVZ005-008>009-011-

013>020-024>040-

046>047

Wayne - Jackson - Wood - Tyler - Lincoln - Putnam - Kanawha - Roane - Wirt - Calhoun - Ritchie - Doddridge - Mingo - Logan - Boone - Clay - Braxton - Gilmer - Lewis - Harrison - Taylor - McDowell - Wyoming - Raleigh - Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph

06	0700EST								
07	1800EST				0	0			Heavy Snow

A quick moving storm moved through the southeastern states on Sunday the 6th, bringing heavy wet snow. A lull occurred by late in the day. Snow and snow showers redeveloped again late Sunday night and continued on Monday, the 7th, especially across the mountainous counties. It was the first significant snow storm of the 2001-02 winter season. In some of the western lowland counties, it was the heaviest snow since 1996. No snow cover existed prior to the storm in the lowlands. The snow accumulated from 3 inches in the valleys to around 8 inches on the hilltops across the western lowlands. Maximum snow depths were 7 inches on the hills at Charleston, also 7 inches at West Union and Oak hill, 5 inches at Glenville and Logan, and 4 inches at Clarksburg.

Across the mountainous counties, snow accumulations ranged from 5 to 7 inches in the valleys to around a foot over the mountain ridges. For example, the snow depth at Kumbrabow State Forest went from 4 inches prior to the storm to 16 inches. At Snowshoe the snow depth went from an inch to 14 inches. Mount Nebo saw their snow depth increase from an inch to eleven inches. Elkins had 7 inches, while Beckley had 5 inches of snow accumulation.

An indirect death occurred in Charleston. A 55 year old man died, after shoveling snow from his driveway. A few power outages occurred in the western lowlands. Most schools were closed on the 7th.

Storm Data and Unusual Weather Phenomena

January 2002

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

WIZ005-010>013-018>022-030>031-037>040-045 **Vilas - Oneida - Forest - Florence - Marinette - Lincoln - Langlade - Menominee - Oconto - Door - Marathon - Shawano - Waupaca - Outagamie - Brown - Kewaunee - Waushara**

31	1400CST 2359CST				0	0			Heavy Snow
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A low pressure system that moved through Illinois to southern Lake Michigan dropped heavy snow across much of northeast Wisconsin. The snow started during the early afternoon on January 31st and continued into the morning hours of February 1st. The greatest snowfall totals were 12 inches at Washington Island (Door co.), 9 inches at Minocqua (Oneida co.) and 4 miles west of Oconto (Oconto co.) and 8 inches at Green Bay (Brown co.).

WISCONSIN, Northwest

WIZ004 **Iron**

05	2200CST				0	0			Heavy Snow
06	1400CST								

Localized heavy lake effect snow dumped 9 inches of snow in Hurley, 10 inches at Montreal, and 6 inches in Upson.

WISCONSIN, Southeast

WIZ070-072 **Walworth - Kenosha**

31	0400CST 0800CST				0	0			Heavy Snow
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Southeast Wisconsin experienced its first heavy snow event of the 2001-02 winter season when 6 to 9 inches of heavy, wet snow fell over parts of Walworth and Kenosha counties. The southeast half of Walworth County, and most of Kenosha County received more than 6 inches. Wheatland and Silver Lake, both in western Kenosha County, picked up 9 and 8 inches, respectively. Genoa City and Lake Geneva, both in southeastern Walworth County, measured 8.6 and 7.5 inches, respectively. Based on newspaper accounts, slippery roads resulted in dozens of vehicle accidents. Although accumulating snow began about 2100CST on January 30th, storm totals didn't exceed 6 inches until about 0400CST on the 31st. Elsewhere across southcentral and southeast Wisconsin more than 4 inches fell southeast of a line from Brodhead (Green Co.) to Port Washington (Ozaukee Co.). Small areas of Milwaukee, Racine, and Rock counties received more than 6 inches of snow, but these counties were not officially included in this heavy snow event since the areas affected were small. Up to 8 inches fell in the city of Racine (Racine Co.) and near the Illinois border in southeast Rock County. Milwaukee's Mitchell Field reported a storm total of 7.9 inches, but this was the only location in Milwaukee County that had snow amounts in excess of 6 inches. However, the 6.7 inches of snow that fell at Mitchell Field on January 31st was a new daily record, breaking the old record of 6.5 inches set back in 1908. Synoptically, a surface low pressure trough extended from Oklahoma to the Ohio River Valley. A weak surface low pressure moved northeast along the trough while warm-air advection initiated the snowfall.

WISCONSIN, Southwest

NONE REPORTED.

WISCONSIN, West

WIZ025-027 **Dunn - Chippewa**

13	1900CST				0	0			Winter Storm
14	0900CST								

Low pressure tracked from near Sioux Falls SD to the La Crosse WI area, then east toward Lake Michigan. The low produced a narrow area of heavy snow, including 9 inches at Bloomer and 8 inches at Wheeler.

WIZ024>028 **Pierce - Dunn - Pepin - Chippewa - Eau Claire**

31	1200CST 2359CST				0	0			Winter Storm
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A low pressure system moved into central Illinois from Iowa by the mid-evening hours on the 31st, and then trekked northeast into the eastern Great Lakes region by the early afternoon on February 1st. Some snow totals of note include: Eau Claire 7.5 inches, Stanley 6.6 inches, Menomonie 6 inches.

WYOMING, Central and West

WYZ004 **Cody Foothills**

08	0340MST				0	0			High Wind (G84) ^M
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Measured wind gust at Clark, WY.

WYZ001-006-017 **Yellowstone National Park Mt Id - Teton/Mountains - Salt River Range**

20	1400MST				0	0			Winter Storm
22	0900MST								

A Pacific storm system brought heavy snow and strong winds to the western Wyoming mountains. Snowfall amounts included upwards of 2 feet at Grand Targhee Ski Resort and 1 to 2 feet elsewhere. The combination of strong winds and heavy snow closed both Teton and Togwotee Passes and the highway between Moose and Moran Junction. Both Grand Targhee and Jackson Hole ski

Storm Data and Unusual Weather Phenomena

January 2002

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

areas closed ski lifts due to the strong winds.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

WYZ099	Sheridan Foothills	13 0443MST			0	0			High Wind (G58) ^M
58 mph non-thunderstorm wind gust with 51 mph sustained winds in Sheridan									

WYOMING, Northeast

WYZ054>056-058	Gillette - South Campbell - Moorcroft - Weston	13 0300MST			0	0	0		High Wind (G65) ^M
1900MST									

A very strong cold front moved across northeastern Wyoming in the pre-dawn hours. A particularly tight surface pressure gradient combined with strong low-level winds produced sustained winds of 40 to 50 mph and gusts to 75 mph.

WYZ057	Wyoming Black Hills	13 1430MST			0	0	0		Winter Storm
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A very strong cold front moved across Northeastern Wyoming in the pre-dawn hours. A particularly tight surface pressure gradient combined with strong low-level winds produced sustained winds in excess of 50 mph and wind gusts to 84 mph on the western South Dakota plains. Atmospheric moisture was sufficient and when combined with these strong northwest winds, produced conditions favorable for enhanced snowfall over the Northern Black Hills. Seven to eight inches of snow were reported across most of the Wyoming Black Hills and Bear Lodge Mountains. Strong winds also caused significant blowing and drifting snow.

WYOMING, Southeast

WYZ063-067	Snowy Range - Platte	07 1530MST			0	0			High Wind (G58) ^M
08 1200MST									

Strong winds blew across parts of southeast Wyoming with sustained winds of 45 to 55 mph common over the mountains and nearby plains. Gusts to 67 mph were recorded near Arlington, WY, and near Chugwater, WY.

WYZ063-067-069	Snowy Range - Platte - Cheyenne Foothills	12 0430MST			0	0	10K		High Wind (G68) ^M
13 0445MST									

High winds blew across the mountains and adjacent high plains of southeastern Wyoming. An unloaded tractor trailer was blown over on Interstate 25 about 24 miles north of Cheyenne where wind gusts were estimated to be from 70 to 80 mph. Gusts to 78 mph were recorded near Arlington, WY, while Cheyenne recorded a gust to 64 mph. Gusts to 66 mph were noted near Chugwater, WY.

WYZ063>064-066>067	Snowy Range - North Laramie Range - Laramie Range - Platte	20 0430MST			0	0	100K		High Wind (G74) ^M
21 1600MST									

High winds blew over much of southeast Wyoming over and near the mountains, with unofficial gusts as high as 105 mph reported near Buford, WY. Gusts in the Arlington, WY area were recorded as high as 85 mph. Several empty tractor trailers were blown over along a stretch of Interstate 80 between Arlington and Elk Mountain.

WYZ063>064-067-069	Snowy Range - North Laramie Range - Platte - Cheyenne Foothills	24 0400MST			0	0	25K		High Wind (G73) ^M
26 1500MST									

High winds blew across parts of southeast Wyoming during a 2 day period, with gusts as high as 84 mph recorded near Arlington, WY. Strong winds recorded to 77 mph blew over several empty tractor-trailers on Interstate 25 between Wheatland and Chugwater, WY.

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
DST	- Daylight Savings Time
LST	- Local Standard Time
LDT	- Local Daylight Time

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the “G” indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

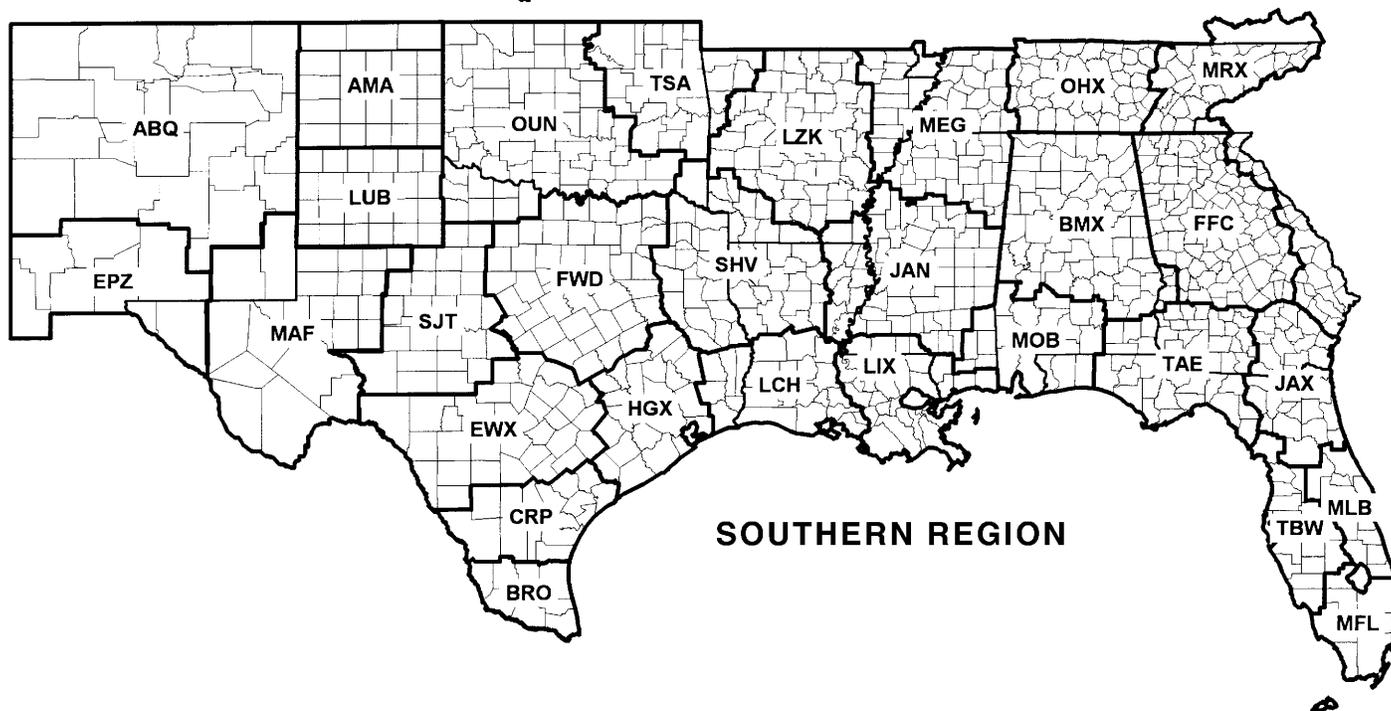


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

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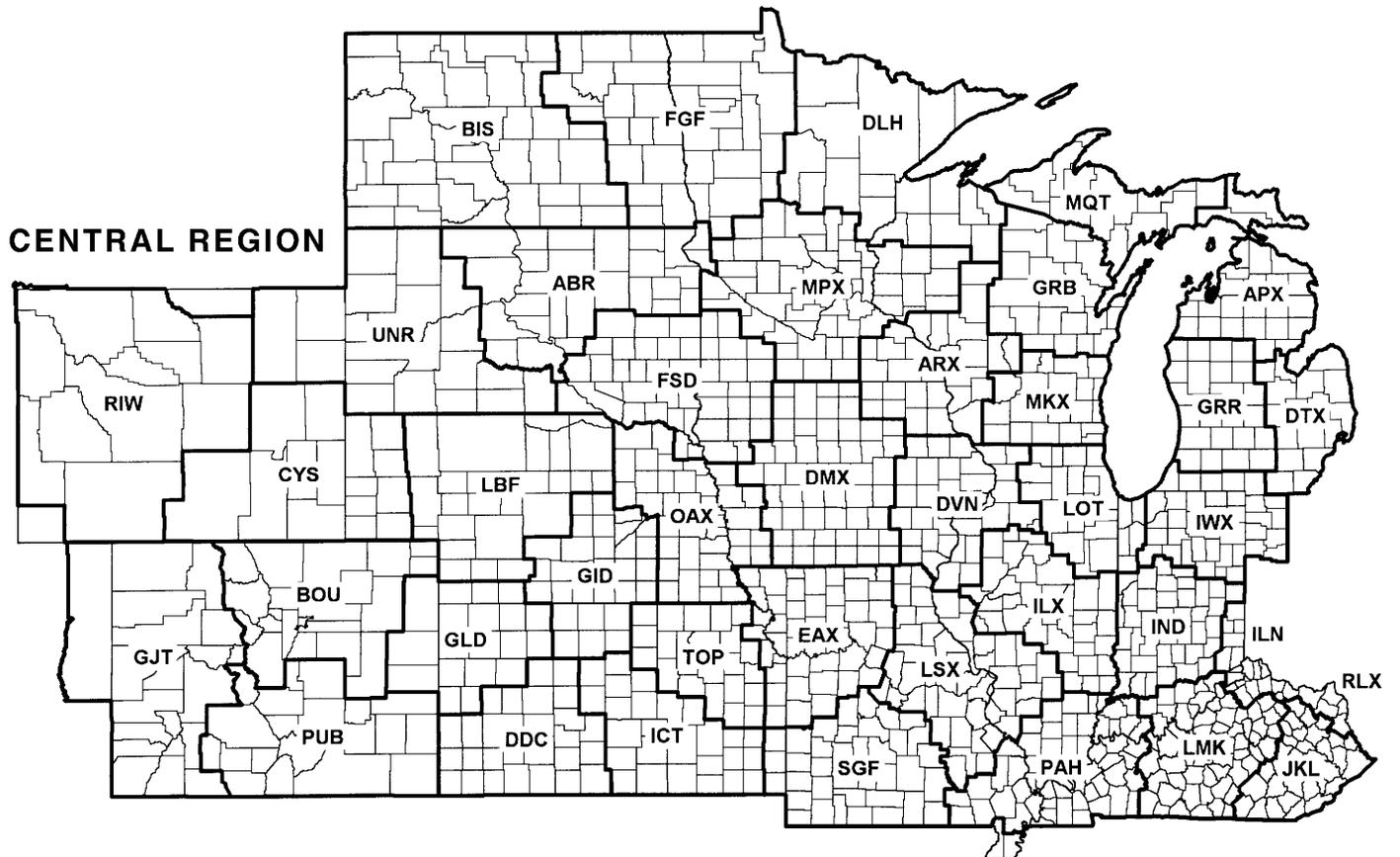
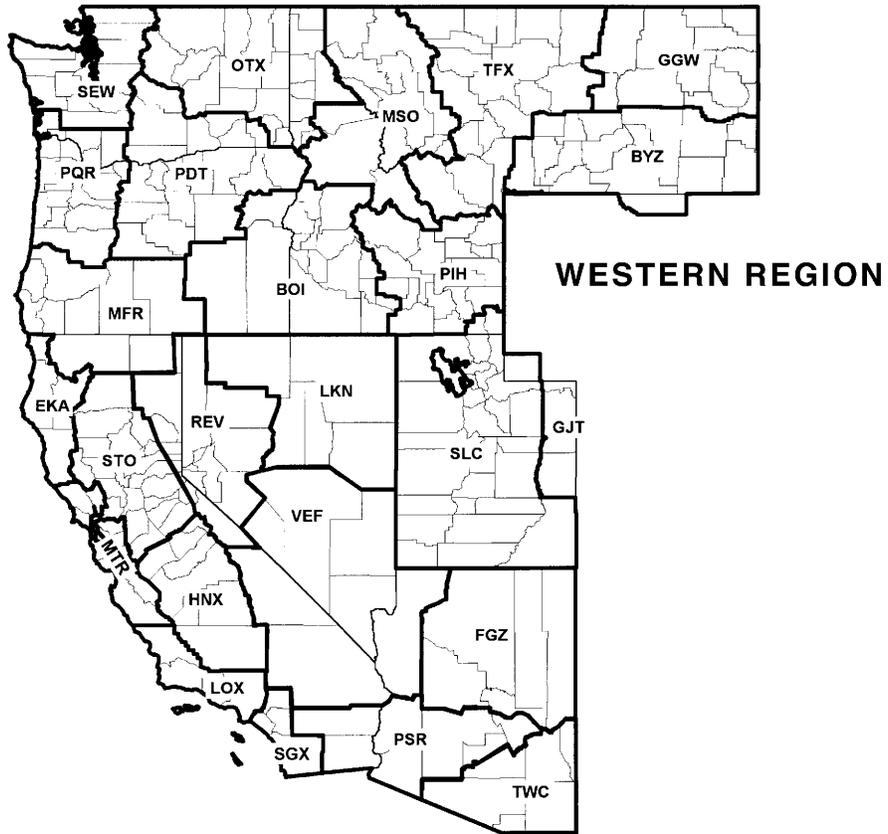


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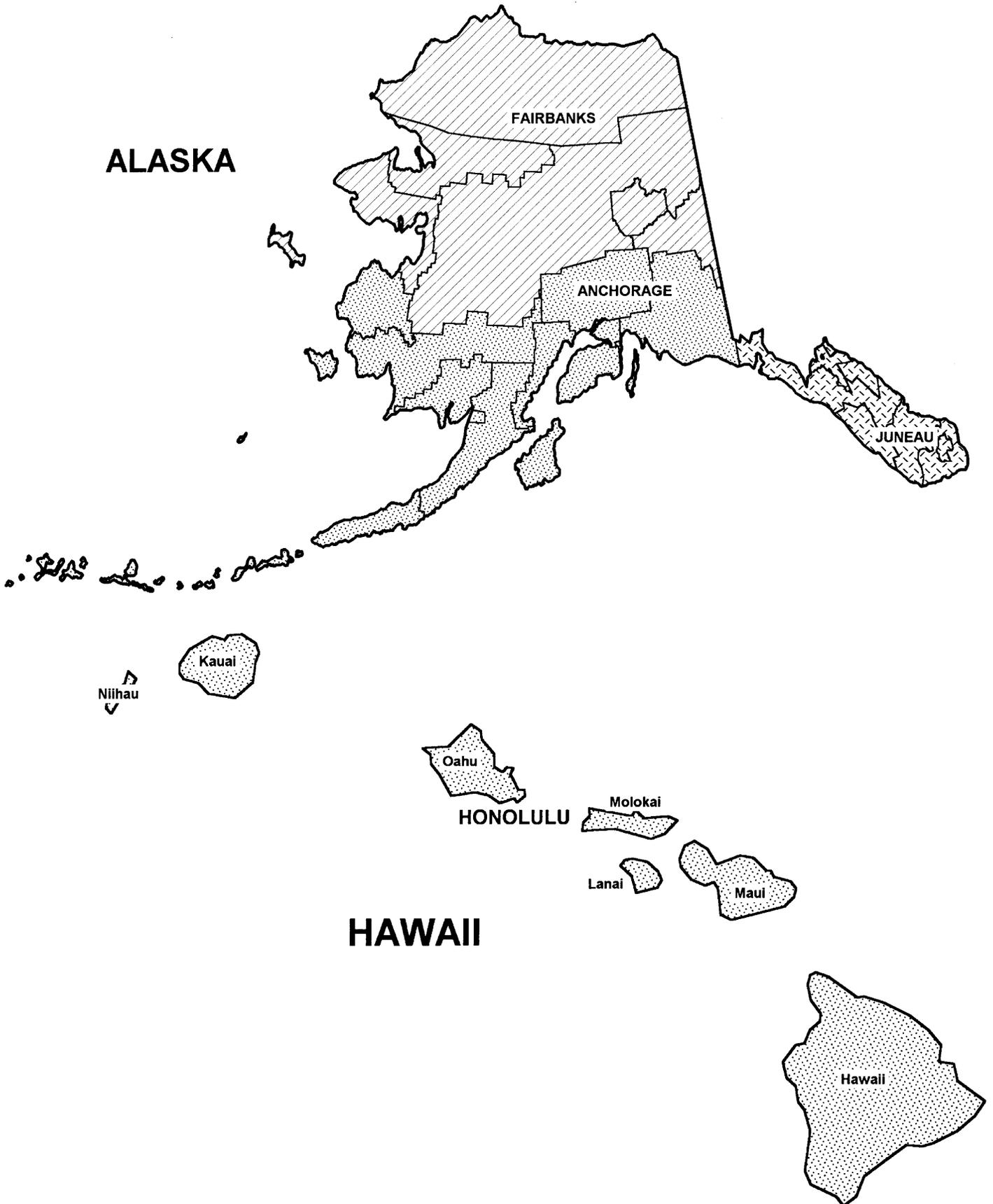


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