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STORM DATA

AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS

noaa

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

Cover: An 1,800 acre wildfire burns out of control near Mineral Wells, Texas, at sunset on New Year's Day. The fire destroyed thirteen structures, including five homes. and injured two firefighters. *(Photo courtesy: Texas Forest Service.)*

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

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

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

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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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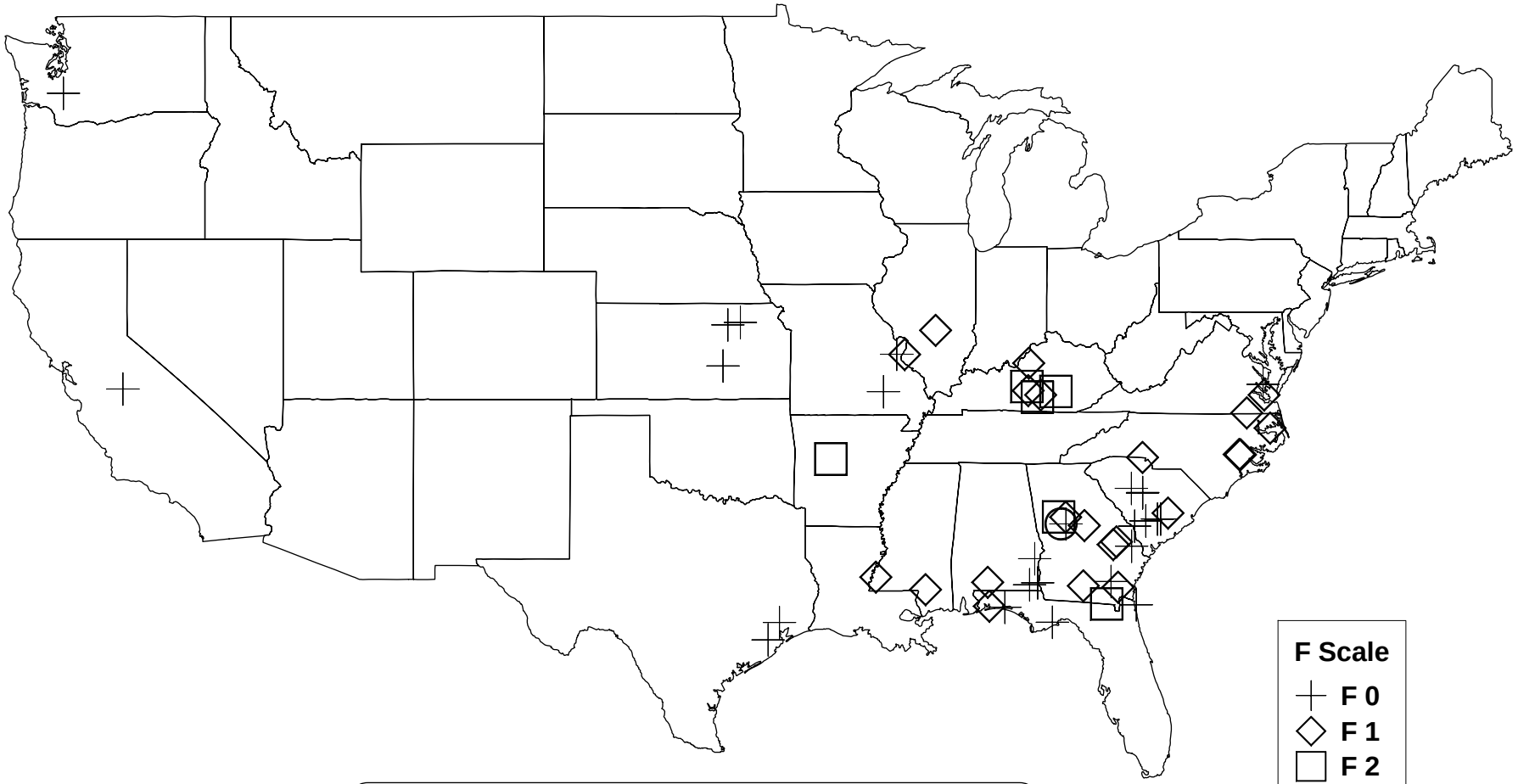
Thomas R. Karl
Director,
National Climatic Data Center

January 2006 Confirmed Tornadoes



F Scale	F0	F1	F2	F3	F4	F5	Total
Number	22	20	5	1	0	0	48

OUTSTANDING STORMS OF THE MONTH

New Year's Day Wind-Driven Wildfires in the Southern Plains

Intense drought conditions across much of the Southern Plains contributed to devastating wildfires in Oklahoma, Texas, and New Mexico during late December 2005 and January 2006. During these two months more than 4,000 fires, the most extensive wildfires to affect the region since 1950, charred more than 1.1 million acres of prairie, burned 470 homes, and claimed five lives.

A particularly intense outbreak of widespread and damaging wind-driven wildfires affected the region on New Year's Day. These holiday weekend fires ignited as strong to severe westerly winds accompanied an intense mid-latitude cyclone over the Southern Plains.

By the evening hours on January 1st, more than thirty large wildfires had scorched the region's landscape and destroyed structures from southeastern New Mexico to central Oklahoma. The effects of severe winds, blinding dust, smoke, and wildfires accounted for 2 deaths and at least 19 injuries. Two communities in Texas were virtually destroyed, and property losses likely exceeded $25 million.

Above: An initial air attack works to contain a wildfire near Cross Cut, Texas. *(Photo courtesy: Texas Forest Service.)*

Significant public impacts of the New Year's Day winds and fires are described below by the six National Weather Service Forecast Offices in the affected region.

Texas Panhandle: *(WFO Amarillo)*
Sustained winds of 45 mph with gusts to 65 mph resulted in blowing dust and smoke that reduced visibility to near zero as several large wind-driven grass fires wreaked havoc with motorists on Texas Panhandle interstates and highways. The fires spread rapidly in the high winds, complicating fire fighting efforts.

A wildfire in Donley County burned between Interstate 40 and Clarendon. This fire charred 7,000 acres by late New Years Day. The fire was extinguished on January 4th, but not before it burned nearly 23,000 acres and threatened several homes outside of Clarendon.

Another grass fire burned nearly 3,100 acres northeast of Shamrock in Wheeler County. One hundred people were evacuated when ten structures, including a motel, were threatened.

One person was killed two miles south of Dumas in Moore County when a tractor-trailer was rolled by the winds on U.S. Highway 287. Another person was killed when blinding dust and smoke contributed to a seven-vehicle accident seven miles south of Canyon on Interstate 27 in Randall County. The reduced visibilities led the Texas Department of Public Safety to close portions of Interstate 27 and U.S. Highway 60.

North Texas: *(WFO Fort Worth)*
Several devastating wildfires erupted across portions of drought-stricken north Texas as low humidities and strong winds spread across the region.

In Montague County, a fire burned seventeen miles between Ringgold and Nocona, destroying forty homes. Two firefighters and two residents were injured.

A grass fire (cover) which began in Palo Pinto County near the Mineral Wells Airport burned thirteen structures, including five homes. The fire grew to cover 1,800 acres. One firefighter suffered second-degree burns and another suffered smoke inhalation injuries.

A major wildfire burned more than 35,000 acres in the southeastern part of Eastland County and forced evacuations of three nearby towns. The community of Kokomo was essentially burned to the ground. Thirty-six buildings, including homes, were destroyed in that blaze. Numerous livestock were killed in the thirty-five mile long fire.

Southeastern New Mexico and the West Texas Permian Basin: *(WFO Midland)*
Five wildfires were reported across southeastern New Mexico and the Permian Basin of west Texas. Three separate fires threatened populated areas in Lea County (New Mexico). The West Hobbs fire destroyed eleven residences, two businesses, and ten vehicles. Three firefighters sustained minor injuries while fighting the 50,000 acre fire.

Two other fires threatened the town of Tatum (Lea County). An evacuation order was given after one fire was ignited by an auto accident, and fireworks sparked another. One of the Tatum fires eventually spread across the Texas state line into Yoakum County where a residence was threatened. Officials were forced to close U.S. Highway 380 east of New Mexico State Route 125 to the Texas border due to the fires.

Around 10:45 am CST, a fire began after sparks from a transformer hit dry grass in Reagan County (Texas). The Reagan County fire burned 40,000 acres in Reagan and Irion Counties, where a firefighter was injured.

Oklahoma and Western North Texas: *(WFO Norman)*
The winter of 2005 and 2006 will be considered the worst wildfire season in Oklahoma's recent history, with the New Year's Day fires being some of the most volatile. Severe to exceptional drought conditions exacerbated critical fire weather conditions, and resulted in numerous wildfires across western and central Oklahoma and western north Texas. Fire fighting efforts were hampered by strong southerly and westerly winds that occasionally gusted over 50 mph. The strong winds grounded fire suppression aircraft, and this made controlling the fires difficult. The largest fire occurred in Kingfisher County, where 31,360 acres of land were scorched. Another large fire burned 18,000 acres in the Arbuckle Mountains of Murray County. Many federal, state, tribal, and local assets along with assistance from other states were used to fight the fires.

The metropolitan area of Oklahoma City was not immune to the wildfires. Several fires ignited across the city. The largest urban wildfire affected the northeastern parts of the metro, where several neighborhoods were threatened and many residents were evacuated. Numerous structures were burned, but no injuries occurred.

Wildfires across the western half of Oklahoma injured several firefighters due to smoke inhalation and minor burns, but no fatalities were reported. In all, over 55,000 acres were scorched across western and central Oklahoma and western north Texas on New Year's Day. Numerous structures, including many homes, were burned along with many large round hay bales which were desperately needed to sustain livestock through the drought. A Federal Emergency Declaration was declared for many of the affected counties.

West Central Texas: *(WFO San Angelo)*
A wildfire ignited on the Reagan and Irion County line, and burned 40,000 acres. The fire impacted the Rocker B Ranch, where firefighters from area volunteer departments battling the blaze were joined by officials from the Texas Forest Service, as well as crews from Georgia and North Carolina. The fire started when a large bird landed on a well site causing a short circuit. High winds and very low humidities coupled with dry fuels allowed the fire to spread into Irion County. A volunteer fire fighter suffered second-degree burns on the face and neck while battling the blaze.

Another blaze, the Cole Ranch fire, was estimated to have burned more than 39,000 acres in southern Sterling and extreme northwestern Tom Green Counties. The Cole fire started near Texas State Highway 163, and burned eastward before turning south and threatening the town of Water Valley. Firefighters were able to spare that town, but the fire continued to burn out of control through January 2nd.

West Texas South Plains and Extreme Southern Panhandle: *(WFO Lubbock)*
Strong and damaging west winds blew over the South Plains and the extreme southern Texas Panhandle on New Year's Day, with gusts as high as 67 mph recorded by the Texas Tech West Texas Mesonet. The winds resulted in widespread blowing dust and smoke from at least a dozen wildfires that burned across the area. A tractor-trailer was turned over by the winds on Interstate 27 five miles south of Hale Center (Hale County). The driver of the truck sustained injuries.

Several of the wildfires resulted in structural damage and injuries. A wildfire near the rural community of Claytonville destroyed two homes in southeastern Swisher County around midday. Another fire ravaged the

area just west of Lubbock International Airport near Interstate 27. The fire destroyed horse stables near the intersection of the interstate and Regis Street in north Lubbock. A firefighter was hospitalized with smoke inhalation related injuries.

In Hockley County, a major wildfire destroyed two mobile homes near Levelland. One fireman was burned while battling the blaze and another was hospitalized with smoke inhalation. A fourth major wildfire crossed the New Mexico and Texas state line near Bronco (Yoakum County) after it was ignited near Tatum (New Mexico). The Yoakum County fire threatened one rural residence.

Special thanks go to the following contributing authors for the photos and narratives:

Todd Lindley – *WFO Lubbock*
Jonathan Brazzell and Hector Guerrero – *WFO San Angelo*
Rebecca Gould – *WFO Midland*
Stacie Hanes – *WFO Fort Worth*
Erin Maxwell – *WFO Norman*
Ken Schneider – *WFO Amarillo*

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ALABAMA, Central									
ALZ044	**Montgomery**								
	02	**1300CST**			**0**	**0**			**Excessive Heat**
	A record high temperature of 81 degrees was recorded at Danelly Field, Montgomery								
ALZ024	**Jefferson**								
	02	**1400CST**			**0**	**0**			**Excessive Heat**
	A record high temperature of 77 degrees was recorded at the Birmingham Airport.								
Chambers County									
3 E Stroud	**02**	**1544CST**			**0**	**0**	**2K**		**Hail (1.75)**
		1546CST							
	Golf ball size hail was reported just east of the Stroud community. The hail continued to fall all the way to the Georgia state-line.								
Barbour County									
7.6 N Clayton to	**13**	**1220CST**	**8.5**	**100**	**0**	**1**	**250K**	**0**	**Tornado (F0)**
13.4 NE Clayton		**1233CST**							
	The tornado touched down at 12:20 PM CST in the Barbour County Wildlife Management Area, near the intersection of Charles Drive and County Road 49. It then moved northeastward and skirted County Road 49, then moved across a large wooded area and open pasture area. Several hundred trees were snapped off and uprooted near the beginning of the tornado damage path. As the tornado traveled northeast, a large warehouse at a family owned sod farm was completely destroyed. An office used by the sod farm was heavily damaged due to a large tree falling on it. The tornado crossed US 82 between the Comer community and the Batesville community. As the tornado crossed US 82, an automobile was tossed some 80 feet off the roadway. One male occupant of the car was injured and transported to the hospital. The tornado traveled just over a mile past US 82 and snapped off several hundred more trees before lifting north of US 82 near Bear Creek at approximately 1233 PM CST. The tornado snapped off many hundreds of trees along its path. One warehouse was destroyed, one office was heavily damaged, and one home sustained roof damage. Metal tin from the roof of a shed was thrown at least a half mile down the tornado path. At least one automobile was damaged and one man was injured. The tornado path length was 8.5 miles long and was 100 yards wide at its widest point.								
	Begin: 31.9875/85.4472 End: 32.0328/85.3122								
ALABAMA, North									
Limestone County									
Elkmont	**13**	**0900CST**			**0**	**0**	**250K**		**Lightning**
	A vigorous cold front produced a line of thunderstorms with lightning, heavy rain and gusty winds. One of the storms produced lightning which struck a chimney and ignited a fire which destroyed a home								
ALZ003	**Franklin**								
	17	**0530CST**			**0**	**0**	**2K**		**High Wind (G60)**
		0532CST							
	Gusty winds developed ahead of an approaching cold front.								
Colbert County									
4 E Leighton	**18**	**1420CST**			**0**	**0**			**Flood**
		1620CST							
	Heavy rainfall of 1 to 3 inches fell across this region during the 17th and 18th.								
Lauderdale County									
Florence	**22**	**2055CST**			**0**	**0**			**Flash Flood**
	23	**0500CST**							
	Significant street flooding in Florence. Numerous roads flooded and barricaded throughout the county.								
Franklin County									
Red Bay	**22**	**2107CST**			**0**	**0**			**Flash Flood**
	23	**0500CST**							
	Numerous roads flooded and barricaded throughout the county.								
Colbert County									
Tuscumbia	**22**	**2110CST**			**0**	**0**			**Flash Flood**
	23	**0500CST**							
	Numerous roads flooded and closed in the city of Tuscumbia.								
	Several periods of thunderstorms produced widespread heavy rainfall on the order of 2 to 4 inches with isolated 5 inch amounts. Officially, a record daily rainfall occurred in Muscle Shoals on the 22nd with 2.46 inches								
ALABAMA, Southeast									
Houston County									
Countywide	**01**	**2030EST**			**0**	**0**	**10K**		**Flash Flood**
		2230EST							
	Between four and six inches of rain fell within a three-hour period. The Houston County EMA reported some county roads and several intersections in Dothan were flooded.								

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ALABAMA, Southeast									
Coffee County									
Enterprise	**13**	**1255EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G50)**
The Coffee County EMA reported downed trees in Enterprise.									
Dale County									
Level Plains Xrds to 1 NE Level Plains Xrds	**13**	**1300EST 1301EST**	**1**	**50**	**0**	**0**	**500K**		**Tornado (F0)**
A severe thunderstorm spawned a weak tornado which heavily damaged four chicken houses. It also damaged a rental house on the northeast side of Dale County 1. Debris was strewn across a field east of Dale County 1. Power lines were down across U.S. Highway 84. Residents along Joe Bruer Road, northeast of the chicken houses, reported broken limbs. Reported by the Dale County EMA.									
Henry County									
Tumbleton	**13**	**1345EST**	**0.2**	**50**	**0**	**0**	**100K**		**Tornado (F0)**
A severe thunderstorm spawned a weak tornado which damaged a church parsonage, several barns and farm equipment. It blew down a road sign and a few trees and power lines near the intersection of County Roads 45 and 13. Also, five homes were damaged. Reported by the Henry County EMA.									
Houston County									
Dothan	**30**	**1810EST 1815EST**			**0**	**0**			**Hail (1.00)**
Penny to quarter size hail covered the ground seven blocks north of Dothan High School.									
ALABAMA, Southwest									
Mobile County									
Bayou La Batre	**01**	**1525CST 1530CST**			**0**	**0**			**Hail (0.88)**
Mobile County									
Tillmans Corner	**01**	**1535CST 1540CST**			**0**	**0**			**Hail (1.50)**
Covington County									
Red Level	**01**	**1600CST 1605CST**			**0**	**0**			**Hail (0.88)**
Mobile County									
St Elmo	**01**	**1620CST 1625CST**			**0**	**0**			**Hail (1.00)**
Baldwin County									
Perdido Beach	**13**	**0925CST 0929CST**			**0**	**0**			**Hail (0.75)**
Conecuh County									
Belleville	**13**	**1001CST 1003CST**	**1**	**880**	**1**	**0**	**500K**		**Tornado (F1)**
An F1 tornado touched down along County Road 15, just south of the town of Belleville. The tornado tracked north northeast crossing U. S. Highway 84 before dissipating just north of the highway. Most of the damage was along both sides of U. S. Highway 84. Three homes were destroyed, and fifteen other structures and eight vehicles were damaged. Numerous power lines and trees were blown town along the track of the tornado. The Belleville fire department station was destroyed. Only one cinder block wall was left standing at the station. One person was killed when a chimney in her home collapsed on top of her. She had just got into the brick home and was putting her purse down when the chimney fell on top of her. F58PH								
Baldwin County									
Bay Minette	**17**	**0920CST 0923CST**			**0**	**0**	**10K**		**Thunderstorm Wind (G50)**
High winds from a thunderstorm blew down several trees and power lines near Bay Minette.									
Conecuh County									
Lenox	**17**	**1020CST 1023CST**			**0**	**0**	**15K**		**Thunderstorm Wind (G50)**
High winds from a line of showers blew down several trees and damaged some lightweight structures near Lenox. At least one manufactured home had awnings torn away by the winds.									
Covington County									
Andalusia	**30**	**1415CST 1417CST**			**0**	**0**			**Hail (0.88)**

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ALASKA WATERS									
Cape Decision To Came Edgecumbe									
50 W Sitka to 90 NW Sitka	**08**	**2030AST**			**0**	**0**	**5K**		**Marine High Wind**
Cape Edgecumbe To Cape Fairweather									
80 SW Cape Spencer to 40 NW Cape Spencer	**08**	**2030AST**			**0**	**0**	**5K**		**Marine High Wind**

A 973 MB Low moving north in the central gulf created a swath of high winds in our coastal marine waters between Cape Decision and Cape Fairweather. The 0.5 degree base velocity display on the Biorka Doppler Radar showed sustained winds in excess of 50 knots over a large portion of this area. The Cape Edgecumbe buoy (46084) anemometer was damaged during this event. The Cape Fairweather buoy (46083) measured sustained winds of 44 mph with a peak gust to 64 mph. No vessels were placed in distress during this event.

ALASKA, Northern									
AKZ203	**Central Beaufort Sea Coast**								
	21	**0153AST**			**0**	**0**			**Extreme Cold/Wind Chill**
	22	**1127AST**							
AKZ203	**Central Beaufort Sea Coast**								
	22	**1155AST**			**0**	**0**			**Blizzard**
	23	**0945AST**							
AKZ204	**Eastern Beaufort Sea Coast**								
	23	**0055AST**			**0**	**0**			**High Wind (G55)**
		1700AST							

A low pressure center in the far north Arctic Ocean drifted south toward the eastern Arctic Coast on the 21st through 23rd. With a cold airmass in place, this system brought west winds initially of 20 mph which produced produced low wind chills along the Central Beaufort Sea Coast. As the low pressure center drifted closer to the coast, west winds increased and clouds moved in, creating warmer temperatures above extreme wind chill thresholds, but the winds increased significantly to produce blizzard conditions over the Central Beaufort Sea Coast, and high winds along the Eastern Beaufort Sea Coast.

Extreme Wind Chills were reported at:
Zone 203: Deadhorse ASOS: 74 degrees below zero, Kuparuk: 73 degrees below zero.

Blizzard conditions were reported at:
Zone 203: Kuparuk.

HIgh Winds were reported at:
Zone 204: Barter Island AWOS, gusts to 55 knots (63 mph).

AKZ226	**Ne. Slopes Of The Ern Ak Rng**								
	21	**0500AST**			**0**	**0**			**Heavy Snow**
		2100AST							

A mid-level southwesterly jet aloft developed over southern Alaska and created a push of warm, overrunning moist air in Alaska Range Passes. The State of Alaska Department of Transportation Camp at Trims on the Richardson Highway reported 22 inches of snow on the morning of the 22nd, which had accumulated since 9am on the 20th. Warning Criteria of 12 inches in 12 to 24 hours was likely reached early in the morning of the 21st.

AKZ226	**Ne. Slopes Of The Ern Ak Rng**								
	28	**0302AST**			**0**	**0**			**Extreme Cold/Wind Chill**
	29	**0100AST**							

High pressure strengthened over interior Alaska producing a cold airmass, while low pressure settled over the northern Gulf of Alaska creating a north flow through the passes of the Alaska Range and low Wind Chill values for a period of time. The Road Weather Information System at the State of Alaska Department of Transportation Maintenance Camp at Trims reported wind chills to 62 below zero during this period.

ALASKA, Southeast									
AKZ025-029	**Juneau Borough And Northern Admiralty Island - Misty Fjords**								
	04	**2100AST**			**0**	**0**			**High Wind (G57)**
	05	**0600AST**							

Offshore, easterly gap winds developed through the passes and drainages along the Coast Mountains. The offshore pressure gradient had tightened in response to a 979 MB Low lifting into the Eastern Gulf of Alaska. Some peak wind reports included South Douglas Island (Juneau) 66 mph...Juneau Rock Dump 56 mph...Juneau Tram 59 mph...and Grey Islet B.C. sustained 45, gusting to 66 mph. Northerly Gales also occurred in Lynn Canal

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

ALASKA, Southeast

AKZ022>023 — **Salisbury Sound To Cape Fairweather Coastal Area - Cape Decision To Salisbury Sound Coastal Area**

08	**1700AST**	**0**	**0**			**High Wind (G60)**
	2200AST					

Easterly/offshore High winds occurred on this date due to a 973 MB Low in the central Gulf. A weather spotter in Port Alexander measured wind gusts to 69 mph. The Sitka ASOS had a peak wind of 43 mph and Cape Spencer RAMOS 45 mph. No damage was reported.

AKZ026 — **Inner Channels From Kupreanof Island To Etolin Island**

17	**1400AST**	**0**	**0**			**Heavy Snow**
	1700AST					

Overrunning heavy snowfall developed in the Petersburg area as a 980 MB Low tracked inland across the Dixon Entrance. Petersburg measured 9 inches of snow, Wrangell had 3 inches.

AKZ018>019-029 — **Taiya Inlet And Klondike Highway - Haines Borough And Lynn Canal - Misty Fjords**

21	**0300AST**	**0**	**0**	**50K**		**Heavy Snow**
22	**0500AST**					

A 975 MB Low over the Kenai Peninsula spread a front into Southeast Alaska. Heavy overrunning snowfall developed in the extreme northern and southeastern parts of the Panhandle. Storm total snowfall amounts included: Hyder 13"...Haines U.S. Customs (near Canadian border) 10"...White Pass 9"...Skagway U.S. Customs 3"...and downtown Haines 2 inches. Snow eventually changed over to rain. Minor damage was reported including traffic accidents.

AKZ021-023>026-026-029 — **Eastern Chichagof Island - Cape Decision To Salisbury Sound Coastal Area - Astern Baranof Island And Southern Admiralty Island - Juneau Borough And Northern Admiralty Island - Inner Channels From Kupreanof Island To Etolin Island - Misty Fjords**

24	**0100AST**	**0**	**0**	**60K**		**Heavy Snow**
25	**0800AST**					

Traffic was slowed considerably on Egan Drive in Juneau during this January snow storm. The storm dumped a foot of snow in parts of Sitka. The first time that had happened on one date since December of 1961.

With an arctic airmass in place, widespread heavy overrunning snowfall developed throughout Southeast Alaska. Sitka reported as much as a foot of snowfall. According to NWS records this was the first time they had received that much snow in one day since December 17, 1961. In the central and southern Panhandle, heavy snow changed to heavy rain, then back to heavy snow on the morning of the 25th. Storm totals included: Snettisham Power Plant (about 25 miles southeast of Juneau) 45"...Petersburg 21"...Canyon Island 20"...Annex Creek 19"...Hyder 16"...North Douglas 14"...Juneau Airport, Angoon, Hoonah and Hidden Falls 13"...NWS Juneau Forecast Office, Tenakee Springs and Sitka 12"...Auke Bay 7"...Lena Point and Wrangell 6 inches. Numerous vehicle accidents were reported. The City and Borough of Juneau provided these estimated costs: one hour of snow removal costs the city: $2,500...and the state spends about $5,000 in overtime and equipment costs during one day of heavy snow in Juneau.

AKZ019 — **Haines Borough And Lynn Canal**

27	**0100AST**	**0**	**0**			**Heavy Snow**
	0700AST					

Heavy snow occurred in Haines on this morning. A total of nine inches was measured by a weather spotter in downtown.

Storm Data and Unusual Weather Phenomena

January 2006

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

ALASKA, Southeast

AKZ017 **Cape Fairweather To Cape Suckling Coastal Area**

28	**1400AST**		**0**	**0**		**Heavy Snow**
	1600AST					

Heavy snow occurred in Yakutat. A total of 11 inches was measured at the Weather Service Office at the Yakutat Airport

AKZ026 **Inner Channels From Kupreanof Island To Etolin Island**

30	**1100AST**		**0**	**0**		**Heavy Snow**
	1500AST					

Heavy snowfall occurred in Petersburg. Weather spotters reported total accumulations between 6-9 inches.

AKZ019 **Haines Borough And Lynn Canal**

31	**2300AST**		**0**	**0**	**10K**	**Heavy Snow**
	2359AST					

Heavy overrunning snowfall occurred on the Haines Highway. The event continued into the morning of February the 1st. Overnight storm totals included: Haines 14"...Haines Customs 13"...and Mud Bay 9 inches.

ALASKA, Southern

AKZ191 **Western Aleutians**

04	**0400AST**		**0**	**0**		**High Wind (G76)**
	1255AST					

A strong north Pacific storm pushed a front into the western Aleutians overnight January 3rd into the morning of January 4th. This produced the typically strong wind in the western Aleutians. Southeast wind gusted to an estimated 87 mph at Shemya

AKZ181-195 **Alaska Peninsula - Pribilof Islands**

20	**0900AST**		**0**	**0**		**Blizzard**
22	**0430AST**					

A building intense arctic high pushed south across the Bering sea beginning January 19th. As this high pushed south, strong low pressure intensified in the Gulf of Alaska through January 22nd. This resulted in a strong north to east gradient across the Bering sea that migrated to the Alaska Peninsula by Saturday afternoon. Strong wind coupled with snow resulted in blowing snow and blizzard conditions in the Pribilof Islands on the 20th and 21st. The Blizzard conditions moved to the Alaska Peninsula by the afternoon of the 21st and subsided by 430 AM on the 22nd.

AKZ121-145 **Kenai Peninsula - Susitna Valley**

22	**0300AST**		**0**	**0**		**Blizzard**
	1900AST					

Strong northwest wind across Cook Inlet produced a lake effect type of snow in Kachemak Bay. Strong north wind blew through Broad Pass at Cantwell. Blizzard conditions occurred in the Kachemak Bay area from 3 AM Sunday until 1 PM Sunday afternoon. Blizzard conditions also occurred in Broad Pass Sunday afternoon. A strong low in the north gulf coast coupled with a strong arctic high created this synoptic situation.

AKZ191 **Western Aleutians**

22	**2020AST**		**0**	**0**		**High Wind (G67)**
23	**0745AST**					

An intense 959 MB low moved to the western Aleutians Sunday and Monday. the strong gradient in advance of the associated front produced the typical strong wind across the western Aleutians at Shemya

AKZ131 **Nern P.W. Snd**

30	**0630AST**		**0**	**0**		**Blizzard**
	1930AST					

A low in the northern Gulf of Alaska produced snow and strong gusty northeast wind across northern Prince William Sound. White out conditions were frequent along the Richardson Highway Valdez into Thompson pass.

AMERICAN SAMOA

NOT RECEIVED.

ARIZONA, Central and Northeast

AZZ013>016 **Little Colorado River Valley In Navajo County - Little Colorado River Valley In Apache County - Western Mogollon Rim - Eastern Mogollon Rim**

25	**0700MST**		**5**	**0**		**Ice Storm**
	1800MST					

A low pressure center moving into Arizona and a cold easterly flow into the into the Little Colorado River Valley, White Mountains, and Eastern Mogollon Rim caused widespread freezing drizzle and freezing rain. Law enforcement officers and the general public reported 47 wrecks and roll overs between Winslow and the New Mexico State Line and south to Show Low. Highway 77 between Holbrook and Show Low was close due to the ice build up on the road. At 900 AM, all law enforcement and emergency personnel on duty in Navajo Country were committed. Five people died and many others were injured. M?VE, M?VE, ??VE, M?VE, M42VE

ARIZONA, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ARIZONA, South									
Cochise County									
Douglas to Bisbee	**25**	**0540MST 0552MST**			**0**	**0**			**Hail (0.75)**

A low pressure system off the west coast of Baja California brought moisture north from the Gulf of Mexico into Southeastern Arizona. This moisture allowed for isolated showers and thunderstorms to develop in Cochise County. Several trained spotters reported that a severe thunderstorm produced three quarter inch hail.

ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Pope County									
Hector	**09**	**2105CST**			**0**	**0**			**Hail (0.88)**
Polk County									
Bog Spgs	**09**	**2200CST**			**0**	**0**			**Hail (1.00)**
Polk County									
Hatton	**09**	**2210CST**			**0**	**0**			**Hail (1.00)**
Logan County									
Ione	**12**	**2145CST**			**0**	**0**			**Hail (1.00)**
Scott County									
Boles	**12**	**2155CST**			**0**	**0**			**Hail (0.88)**
Boone County									
Omaha	**12**	**2206CST**			**0**	**0**			**Hail (0.75)**
Yell County									
5 SW Chickalah to 2 SSE Dardanelle	**12**	**2229CST 2247CST**	**13**	**75**	**0**	**0**			**Tornado (F2)**

In the picture: A strong (F2) tornado heavily damaged a home about 1 mile south of Chickalah (Yell County) on 01/12/2006.

A strong tornado touched down in northern Yell County, about 5 miles southwest of Chickalah. Estimated winds with the tornado were around 140 mph. A house was severely damaged. An abandoned mobile home, used for storage, was badly damaged. A few chicken houses had major damage, and a number of others had parts of the roofs taken off. A travel trailer was overturned, with numerous sheds and outbuildings destroyed. A number of power lines and power poles were blown down. Hundreds of trees were either snapped off or uprooted. A mobile home was also destroyed by fire, apparently due to a fallen power line. The tornado tracked to the east-northeast for about 13 miles before moving into southern Pope County

Yell County									
3 W Dardanelle	**12**	**2240CST**			**0**	**0**			**Hail (1.75)**

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ARKANSAS, Central and North Central									
Yell County									
3 W Dardanelle	**12**	**2243CST**			**0**	**0**			**Hail (1.00)**
Yell County									
3 W Dardanelle	**12**	**2243CST**			**0**	**0**			**Thunderstorm Wind (G52)**
Pope County									
3 E Russellville	**12**	**2245CST**			**0**	**0**			**Hail (1.00)**
Pope County									
5.3 S Russellville to	**12**	**2247CST**	**1.7**	**75**	**0**	**0**			**Tornado (F2)**
5.5 SSE Russellville		**2248CST**							
A strong tornado moved out of Yell County and into Pope County about 5.3 miles south of Russellville. Winds were estimated around 140 mph. The tornado downed a number of trees and power lines. Several houses sustained roof damage. The tornado dissipated roughly 5.5 miles south-southeast of Russellville.									
Baxter County									
5 S Mountain Home	**12**	**2325CST**			**0**	**0**			**Hail (0.88)**
Faulkner County									
1 SW Conway	**12**	**2355CST**			**0**	**0**			**Hail (0.88)**
Faulkner County									
Conway	**12**	**2358CST**			**0**	**0**			**Hail (0.75)**
Saline County									
Benton	**13**	**0005CST**			**0**	**0**			**Hail (0.75)**
White County									
Judsonia	**13**	**0043CST**			**0**	**0**			**Hail (0.75)**
ARKANSAS, East									
Craighead County									
Jonesboro to	**13**	**0145CST**			**0**	**0**	**25K**		**Thunderstorm Wind (G55)**
1 NE Monette		**0205CST**							
One store was damaged and some businesses signs were destroyed in Jonesboro. One mobile home was destroyed and a second mobile home was damaged near Monette. Some power lines were blown down as well									
Mississippi County									
2 NW Leachville	**13**	**0210CST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
		0215CST							
A couple of mobile homes were damaged.									
Mississippi County									
Blytheville	**13**	**0300CST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
		0305CST							
A non-structural wall located at the back of the Great River Medical Center was blown down.									
ARKANSAS, Northwest									
ARZ001>002-010>011-019>020-029	**Benton - Carroll - Washington - Madison - Crawford - Franklin - Sebastian**								
	01	**0000CST**			**0**	**0**			**Drought**
	31	**2359CST**							
Several rainfall events during the month brought near normal precipitation to the northern portions of northwestern Arkansas and even above normal precipitation amounts to west central Arkansas for January. Despite this needed rainfall, northwestern Arkansas remained in severe drought (D2) conditions and west central Arkansas remained in extreme drought (D3) conditions during the month due to the rainfall deficits that the area experienced in the long-term. A burn ban that was issued for the region in early December remained in effect through the month.									
Benton County									
Bentonville	**12**	**1955CST**			**0**	**0**			**Hail (0.75)**
Washington County									
Cincinnati	**12**	**2010CST**			**0**	**0**			**Hail (0.75)**
Sebastian County									
Ft Smith	**12**	**2052CST**			**0**	**0**			**Hail (1.00)**
		2100CST							
Crawford County									
3 S Natural Dam	**12**	**2055CST**			**0**	**0**			**Hail (0.88)**
Franklin County									
2 W Charleston	**12**	**2115CST**			**0**	**0**			**Hail (1.00)**
Sebastian County									
Greenwood	**12**	**2117CST**			**0**	**0**			**Hail (0.75)**

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ARKANSAS, Northwest									
Franklin County									
Cecil	**12**	**2132CST**			**0**	**0**			**Hail (0.75)**
ARKANSAS, Southeast									
ARZ074	**Ashley**								
	08	**1200CST**			**0**	**0**	**800K**	**1M**	**Wildfire**
	09	**1200CST**							
	A large wildfire burned Sunday afternoon and evening across Central Ashley county. This fire burned nearly 6000 acres just southeast of Hamburg. Four homes were burned along with two camping trailers and 2 outbuildings. This large fire caused the closing of Highway 8 for a period of time. Another wildfire developed south of Crossett. This fire actually started in Louisiana and moved into Arkansas. This fire burned nearly 2000 acres. These wildfires were the product of several months of extremely dry weather across the region. The combination of prolonged dry conditions and dead/dormant vegetation lead to high fire fuel across the region. As the fires began, low relative humidity values and strong southwest winds on Sunday, January 8th, promoted the rapid spreading of any fire.								
ARKANSAS, Southwest									
Howard County									
15 N Dierks	**12**	**2232CST**			**0**	**0**			**Hail (0.88)**
	Hail fell in Umpire.								
Howard County									
8 NW Nashville	**12**	**2300CST**			**0**	**0**			**Hail (0.75)**
	Hail fell in the Center Point community.								
Howard County									
Mineral Spgs	**12**	**2302CST**			**0**	**0**			**Hail (0.75)**
Hempstead County									
12 NE Washington	**12**	**2335CST**			**0**	**0**			**Hail (0.75)**
Hempstead County									
12 NE Washington	**12**	**2335CST**			**0**	**0**			**Thunderstorm Wind (G55)**
	Trees were downed.								
Lafayette County									
1 N Lewisville	**13**	**0005CST**			**0**	**0**			**Thunderstorm Wind (G54)**
	Trees were downed.								
ATLANTIC OCEAN									
Tidal Potomac Cobb Is Md To Smith Pt Va									
Lewisetta	**14**	**0300EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay Drum Pt To Smith Pt Va									
3 NW Patuxent River N	**14**	**0324EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay N Beach To Drum Pt Md									
Plum Pt	**14**	**0324EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay Sandy Pt To N Beach Md									
5 SE Annapolis	**14**	**0343EST**			**0**	**0**			**Marine Tstm Wind**
De Bay Waters S Of E Pt Nj To Slaughter Beach De									
1 S North Cape May	**14**	**0526EST**			**0**	**0**		**0**	**Marine Tstm Wind**
	A severe thunderstorm produced wind gusts to around 50 knots (58 mph) in Cape May City and immediate locations on lower Delaware Bay.								
Chesapeake Bay N Of Pooles Is Md									
Havre De Grace	**24**	**2200EST**			**0**	**0**			**Marine Tstm Wind**

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
ATLANTIC OCEAN									
Chesapeake Bay Pooles Is To Sandy Pt Md									
Millers Island to Tolchester Beach	**24**	**2200EST 2224EST**			**0**	**0**			**Marine Tstm Wind**
Tidal Potomac Key Bridge To Indian Hd Md									
Rnld Reagan Natl Arpt	**24**	**2211EST**			**0**	**0**			**Marine Tstm Wind**
Tidal Potomac Indian Hd To Cobb Is Md									
Quantico	**24**	**2219EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay Sandy Pt To N Beach Md									
Annapolis to Tilghman Island	**24**	**2223EST 2305EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay N Beach To Drum Pt Md									
Cove Pt to Plum Pt	**24**	**2306EST 2312EST**			**0**	**0**			**Marine Tstm Wind**
Chesapeake Bay Drum Pt To Smith Pt Va									
Patuxent River Nas to Smith Island	**24**	**2312EST 2330EST**			**0**	**0**			**Marine Tstm Wind**
Tidal Potomac Cobb Is Md To Smith Pt Va									
Piney Pt to Lewisetta	**24**	**2312EST 2336EST**			**0**	**0**			**Marine Tstm Wind**
Great Egg Inlet To Cp May Nj Out 20Nm									
Cape May	**24**	**2305EST**			**0**	**0**		**0**	**Marine Tstm Wind**
A thunderstorm produced wind gusts up to 38 knots (44 mph) when it moved over the Cape May Coast Guard station.									
De Bay Waters N Of E Pt Nj To Slaughter Beach De									
10 NE Bowers Beach De	**24**	**2326EST**			**0**	**0**		**0**	**Marine Tstm Wind**
The gust front associated with weakening thunderstorms produced a wind gust to 35 knots (40 mph) at Ship John Shoal Lighthouse.									
Manasquan Inlet To Little Egg Inlet Nj Out 20Nm									
Brant Beach	**24**	**2355EST**			**0**	**0**		**0**	**Marine Tstm Wind**
A thunderstorm produced wind gusts up to 35 knots (40 mph) when it moved over Brant Beach (Ocean County) on Long Beach Island.									
CALIFORNIA, Extreme Southeast									
CAZ033	**Imperial County Except The Lower Colorado River Valley**								
	25	**0730MST 0930MST**			**0**	**0**			**Dense Fog**
Visibility reduced to less than a quarter mile in Imperial-El Centro.									
CALIFORNIA, North Central									
Colusa County									
Countywide	**01 03**	**0000PST 2200PST**			**0**	**0**	**700K**		**Flood**
El Dorado County									
Countywide	**01 03**	**0000PST 2200PST**			**0**	**0**	**3.2M**		**Flood**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
CALIFORNIA, North Central									
Lake County									
Countywide	**01** **03**	**0000PST** **2200PST**			**1**	**1**	**1M**		**Flood**
	M?IW								
Placer County									
Countywide	**01** **03**	**0000PST** **2200PST**			**0**	**0**	**2M**		**Flood**
Sacramento County									
Countywide	**01** **03**	**0000PST** **2200PST**			**0**	**0**	**4.5M**		**Flood**
Solano County									
Countywide	**01** **03**	**0000PST** **2200PST**			**1**	**1**	**15M**		**Flood**
	M?UT								
Stanislaus County									
Countywide	**01** **03**	**0000PST** **2200PST**			**1**	**1**	**100K**		**Flood**
	F?IW								
Sutter County									
Countywide	**01** **03**	**0000PST** **2200PST**			**0**	**0**	**900K**		**Flood**
Yuba County									
Countywide	**01** **03**	**0000PST** **2200PST**			**0**	**0**	**4.9M**		**Flood**

A series of warm winter storms brought heavy rain, mudslides, flooding, and high winds to Northern California.

- Levee overtopping, breaching, and river flooding occurred along the Feather and Sacramento mainstem rivers as well as along numerous smaller rivers, creeks, and streams. Several urban areas had significant street flooding. The Sacramento weir was opened for the first time since 1997 with twenty gates opened.

- Transportation throughout the area was difficult during the course of the storms as airports were closed due to the high winds and major road closures resulted from flooding and mudslides. Interstate 80...the main artery between Sacramento and the San Francisco Bay area...was closed near Fairfield in Solano County for several hours due to severe flooding. Additionally, Interstate 80 eastbound between Sacramento and Reno, NV, was closed for more than a day due to a massive mudslide, as was both directions of U.S. Highway 50 between Sacramento and South Lake Tahoe.

- The primary weather impacts were due to flooding. Snow levels during this period of precipitation were high...around 7000 to 8000 feet along much of the Sierra Nevada mountain range.

- Three deaths occurred due to these storms. A Solano County man was killed by a falling tree, a Lake County man drowned while fishing during the storm, and a Stanislaus County woman died while crossing a flooding stream on foot

- Counties declared in need of federal disaster assistance include: Alpine, Amador, Butte, Colusa, El Dorado, Lake, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Sutter, Yolo, and Yuba.

CAZ019	**Northern San Joaquin Valley**								
	07	**0000PST** **2359PST**			**0**	**0**	**0**	**0**	**Heat**

The City of Stockton broke set a new record high temperature for this date. The old record was 61 degrees and the new record is 64 degrees.

CALIFORNIA, Northeast

CAZ072	**Greater Lake Tahoe Area**								
	14	**0200PST** **1800PST**			**0**	**0**			**Heavy Snow**

A winter storm dumped 2 to 3 feet of snow in the Sierra.

Storm total snowfall amounts:

Alpine Meadows Ski Resort (8600 ft.)	31 inches
(7000 ft.)	25 inches
Boreal Ski Resort	31 inches
Squaw Valley Ski Resort (8200 ft.)	24 inches
(6200 ft.)	18 inches

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

CALIFORNIA, Northeast

Northstar-at-Tahoe Ski Resort (8300 ft.) 18 inches
(6900 ft.) 12 inches
Donner Summit 16 inches
4 N Meyers 15 inches
Echo Summit (7400 ft.) 14 inches
5 E Donner Peak 8 inches
5 SW Prosser Creek Res. (6640 ft.) 8 inches
Meyers 8 inches

CAZ073 **Mono**

14 0300PST 0 0 Heavy Snow
1900PST

A winter storm dumped 1 to 2 feet of snow in the Sierra.

Storm total snowfall amounts:
Mammoth Mountain Ski Resort 17 inches
June Lake (7600 ft.) 13 inches
Devils Gate Summit 12 inches
Bridgeport 8 inches
Mammoth Lakes 7 inches

CAZ071 **Lassen/Eastern Plumas/Eastern Sierra**

17 1415PST 0 0 High Wind (G52)

A 52 kt (60 mph) wind gust reported by a trained spotter (at 4800 ft elevation) 3 miles NW of Janesville.

CAZ073 **Mono**

17 1800PST 0 0 Heavy Snow
18 2000PST

A winter storm brought strong winds and heavy snow to the Sierra. Up to 3 feet of snow fell in the higher elevations.

Storm total snowfall reports:
1 W Mammoth Lakes 14 inches
1 WNW Mammoth Lakes 7 inches

CAZ071 **Lassen/Eastern Plumas/Eastern Sierra**

17 1800PST 0 0 Heavy Snow
18 2000PST

A winter storm brought strong winds and heavy snow to the Sierra and northeast California. Up to 3 feet of snow fell in the higher elevations of the Sierra.

Storm total snowfall amounts:
Yuba Pass (6700 ft) 16 inches
Fredonyer Pass 15 inches
6 NE Almanor 12 inches
4 WNW Sierraville 11 inches
Westwood 8 inches
3 NW Janesville 6 inches
Sierra City 6 inches

CAZ072 **Greater Lake Tahoe Area**

17 1800PST 0 0 Heavy Snow
18 2000PST

A winter storm brought strong winds and heavy snow to the Sierra and western Nevada. Over 3 feet of snow fell in the higher elevations of the Sierra Nevada and Carson Range.

Storm total snowfall amounts:
Northstar-at-Tahoe Ski Resort (8300 ft) 37 inches
(6900 ft) 26 inches
Squaw Valley Ski Resort (8200 ft) 36 inches
(6200 ft) 11 inches
Alpine Meadows Ski Resort (8600 ft) 30 inches
(7000 ft) 22 inches
Boreal Ski Resort 30 inches
Sierra-at-Tahoe Ski Resort 20 inches
Tahoe City Cross SNOTEL (6750 ft) 15 inches
5 SW Prosser Creek Reservoir (6650 ft) 13 inches
4 N Meyers 12 inches

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

CALIFORNIA, Northeast

Echo Summit 11 inches
1 N Homewood 11 inches
3 ENE Donner Peak (6500 ft) 10 inches
Tahoe City 9 inches

CAZ073 **Mono**

18 1900PST 0 0 High Wind (G62)

A 62 kt (71 mph) wind gust reported by a trained spotter (at 6700 ft elevation) 2 miles N of Lee Vining.

CAZ071 **Lassen/Eastern Plumas/Eastern Sierra**

28 1345PST 0 0 0.50K High Wind (G61)

A 61 kt (70 mph) wind gust was reported by a trained spotter (at 4500 ft elevation) 1 mile N of Janesville. The wind gust blew over a 50-ft length of fence.

CAZ072 **Greater Lake Tahoe Area**

30 1000PST 0 0 Heavy Snow
2000PST

A fast-moving winter storm brought 1 to 2 feet of snow to the Sierra Nevada.

Storm total snowfall amounts:
Alpine Meadows Ski Resort 16 inches
Sierra-at-Tahoe Ski Resort 14 inches
Northstar-at-Tahoe Ski Resort (8300 ft) 12 inches
(6900 ft) 4 inches
Kirkwood Ski Resort 10 inches
Heavenly Ski Resort 10 inches
Squaw Valley Ski Resort (8200 ft) 10 inches
(6200 ft) 6 inches
5 SW Prosser Creek Reservoir (6600 ft) 9 inches
Sugar Bowl Ski Resort 8 inches
South Lake Tahoe 5 inches

CALIFORNIA, Northwest

CAZ004 **Upper Trinity River**

01 1100PST 0 0 0 0 Heavy Snow
02 0445PST

Heavy snow event with up to 15 inchesfalling during 24 hours

CALIFORNIA, South Central

CAZ090-092 **E Central S.J. Valley - Se S.J. Valley**

01 0000PST 0 0 Excessive Heat
31 2359PST

The November through January time period in the Central and Southern San Joaquin Valley has been abnormally mild. The chilling hours (durations of temperatures less than 45 degrees F. and needed by deciduous trees for winter dormancy) are much lower than previous mild years and much below normal seasonal readings. In general the chilling hour totals were only about 5/8ths of the previous 4 years' relatively low average at several key agricultural research stations. Similarly, official NWS records at Fresno and Bakersfield reflect the mild winter season. In November 2005 Fresno had an average monthly temperature 4.8 degrees F. above normal, +6.8F in December, and +2.7F in January 2006. Bakersfield was +3.1F in November 2005, +4.9F in December, and +1.8F in January 2006. Agricultural losses will be difficult to assess caused by this abnormally mild winter.

Merced County
Countywide

01 1008PST 0 0 Heavy Rain
02 1937PST

CAZ089>090 **W Central S.J. Valley - E Central S.J. Valley**

01 1730PST 0 0 2K Strong Wind
2002PST

Merced County
3.4 NNE Snelling

02 0200PST 0 0 Flood
2200PST

Rainfall in excess of 2 inches fell in a 30 hour period throughout Merced County. California Highway Patrol reported water over the roadway from stream flooding on La Grange Road NNE of the rural town of Snelling by 1050 PST on the 2nd. Gusty southeast wind commonly hit 40+ MPH during the late morning and early afternoon of the 1st in the northern portions of the Central San Joaquin Valley.

Kern County
(Bfl)Meadows Field Ap

01 1122PST 0 0 Heavy Rain
2355PST

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
CALIFORNIA, South Central									
Kern County									
Countywide	**02**	**0200PST**			**0**	**0**			**Flood**
		2200PST							
CAZ091	**Sw S.J. Valley**								
	02	**1530PST**			**0**	**0**	**25K**		**Strong Wind**
		1800PST							
	Rainfall totals in excess of 2/3rds of an inch in less than 24 hours at Bakersfield resulted in significant water flows from nearby mountains onto the South San Joaquin Valley Floor. Flooding was reported on Highway 33 on the 2nd of the month on the west side of the Valley north of Highway 46 in the morning and also on Redrock-Randsburg Road in the Kern Desert area by mid-day. Strong southeast wind in the Taft area in the South San Joaquin Valley resulted in downed power poles during the mid-afternoon hours.								
Kings County									
Hanford Muni Arpt	**01**	**1139PST**			**0**	**0**			**Heavy Rain**
	02	**2000PST**							
Kings County									
Countywide	**02**	**0200PST**			**0**	**0**	**71K**	**1M**	**Flood**
		2200PST							
CAZ091	**Sw S.J. Valley**								
	02	**1800PST**			**0**	**0**	**100K**		**Strong Wind**
		1900PST							
	Rainfall in excess of 2.5" in just over 30 hours lead to water covered roadways in several locations around Kings County. Hanford measured 2.82" of rain in that time period with the cities of Lemoore and Corcoran receiving just over 3" of rain. Ponding basins overflowed in the city of Lemoore and flooding occurred in smaller cities of Huron and Corcoran. Strong wind during the evening of the 2nd brought down several large trees in the city of Lemoore including one 100-year old tree onto a house								
Tulare County									
Countywide	**01**	**1200PST**			**0**	**0**			**Heavy Rain**
	02	**2000PST**							
Tulare County									
Central Portion	**02**	**0200PST**			**0**	**0**	**5.5M**		**Flood**
		2200PST							
CAZ092-097	**Se S.J. Valley - Tulare Cty Mtns**								
	02	**1400PST**			**0**	**0**	**210K**		**Strong Wind**
		1800PST							
	Consistent rain lead to more than 3 inches of rain in a 30 hour period from mid-day on the 1st to the evening hours of the 2nd around the city of Visalia and over 3.5" of rain in the city of Tulare. Over 2 feet of water flooded portions of West Visalia as well as reports of flooding just east of Tipton. Tulare County had 45 homes damaged to some extent by flooding on the South Valley floor. Ponding basins filled in the cities of Visalia, Tulare, Exeter, Lindsay, and Farmersville. At the 2000 foot elevation of the Tulare County foothills over 7.5 inches of rain was reported during the period. Strong wind in the Tulare County Mountains felled several large trees, including one onto a historic cabin near Mineral King.								
Mariposa County									
Mariposa	**01**	**1200PST**			**0**	**0**			**Heavy Rain**
	02	**2100PST**							
Mariposa County									
Countywide	**02**	**0200PST**			**0**	**0**			**Flood**
		2200PST							
CAZ093	**S Sierra Foothills**								
	02	**1200PST**			**0**	**0**	**100K**		**Strong Wind**
		1900PST							
	Heavy rainfall and strong wind occurred by the 2nd of the month in Mariposa County. Trees were downed at several locations and over 4 inches of rain occurred during the 1st two days of the month at the city of Mariposa.								
Fresno County									
(Fat) Air Terminal	**01**	**1205PST**			**0**	**0**			**Heavy Rain**
	02	**2055PST**							
Fresno County									
Central Portion	**02**	**0200PST**			**0**	**0**	**1.4M**		**Flood**
		2200PST							
Fresno County									
6 SW Sanger	**02**	**1405PST**			**0**	**0**			**Funnel Cloud**
		1410PST							
CAZ090	**E Central S.J. Valley**								
	02	**1424PST**			**0**	**0**	**100K**		**Strong Wind**
		1700PST							

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

CALIFORNIA, South Central

Continuous rain, heavy at times, brought an abnormally high 2.84" of rain to the Fresno Air Terminal, 3.19" in Selma, and 2.25" at Coalinga in a little over 24 hours. A new rainfall record of 1.88" was set for the 2nd of January for Fresno. Flooding was observed in the city of Fresno as 15 ponding basins overflowed. Local flooding was also reported in smaller cities of Huron, Fowler, and Selma. Over 150 houses were damaged within the county. The strong wind downed trees and power lines leaving over 60,000 customers without power at some point.

Madera County									
Madera Muni Arpt	**01**	**1206PST**			**0**	**0**			**Heavy Rain**
	02	**2000PST**							
Madera County									
Madera	**02**	**0200PST**			**0**	**0**	**10K**		**Flood**
		2200PST							
CAZ093	**S Sierra Foothills**								
	02	**1400PST**			**0**	**0**	**10K**		**Strong Wind**
		1800PST							

Madera Airport received 2.31" of rain in a little more than 24 hours leading to widespread ponding of water on the Central San Joaquin Valley Floor. In the foothill regions of the county gusty wind caused damage around the community of Oakhurst along with numerous downed trees.

CAZ096>097	**S Sierra Mtns - Tulare Cty Mtns**								
	01	**1800PST**			**0**	**0**			**Winter Storm**
	02	**2200PST**							

A winter storm brought in the new year for the higher elevations of Interior Central California. Snowfall totals included 49 inches at Tuolumne Meadows over 2 days; Charlotte Lake 41"; Kaiser Point 75"; Chilkoot Meadow 67"; and 54" at Tamarack Summit in the S.Sierra Nevada. In the Tulare County Mountains Crabtree Meadow, Lodgepole, and Mineral King reported 36" of new snow but Farwell Gap received 72" of new snow during the period.

CAZ098>099	**Indian Wells Vly - Se Kern Cty Desert**								
	02	**0900PST**			**0**	**0**	**2K**		**Strong Wind**
		1515PST							

Strong southerly wind buffeted the Kern Desert Areas around mid-day on the 2nd. Laural Mountain had a gust to 60 MPH at 1213 PST while Mojave gusted to 46 MPH at 1335 PST.

CAZ089>092	**W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley**								
	05	**0400PST**			**0**	**0**			**Dense Fog**
	12	**0900PST**							

Following the exceptionally heavy 30-hour rain period on the 1st and 2nd of the month, dense fog developed by the morning of the 5th and prevailed during the late evening and morning hours in the Central San Joaquin Valley through the morning of the 12th; and in the South Valley through the morning of the 11th. Multi-vehicle accidents were reported just south of Merced on the morning of the 12th and just east of Coalinga on the morning of the 6th. Visibilities during this time period were very often as low as 200 feet. Dense Fog on the morning of the 11th led to a 9-vehicle accident in Madera on State Highway 99 that injured 5 people

CAZ090	**E Central S.J. Valley**								
	11	**0430PST**			**0**	**5**	**90K**		**Dense Fog**
		0800PST							

Dense Fog on the morning of the 11th led to a 9-vehicle accident in Madera on State Highway 99 that injured 5 people.

CAZ096	**S Sierra Mtns**								
	14	**0400PST**			**0**	**0**			**Winter Storm**
	15	**0400PST**							

A mid-month weather system again added to the snow that fell earlier in the month for the Southern Sierra Nevada. New snowfall amounts reported were 27 inches at Horse Meadow; 20" at Paradise Meadow, Agnew Pass, and Volcanic Knob; and 19" at Tenaya Lake. New snow amounts tapered off quickly to the south in Tulare County Mountains where Farewell Gap reported 15" of snow; 13" at Quaking Aspen; and 8" at Big Meadows. In the Kern County Mountains, Shirley Meadows reported 12" of new snow.

Fresno County									
Academy	**14**	**1355PST**			**0**	**0**			**Hail (0.75)**
		1400PST							
Fresno County									
Prather	**14**	**1410PST**			**0**	**0**			**Hail (0.75)**
		1415PST							

A severe thunderstorm deposited large hail near a couple of foothill communities northeast of Fresno early in the afternoon of the 14th.

Mariposa County									
3.5 NW Hornitos	**14**	**1425PST**			**0**	**0**			**Hail (0.75)**
		1439PST							

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
CALIFORNIA, South Central									
Mariposa County									
3.5 NW Hornitos	**14**	**1425PST**	**0.1**	**25**	**0**	**0**			**Tornado (F0)**
		1439PST							
	Quarter size hail with a funnel cloud that had indications of debris movement at the surface was reported by a weather spotter in the mid-afternoon on the 14th. The ground track and width are uncertain with the brief touchdown in a remote area of Mariposa County								
CAZ089>092	**W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley**								
	16	**0400PST**			**0**	**0**			**Frost/Freeze**
		0800PST							
	Following a mid-month cold-frontal passage minimum temperatures on the morning of the 16th dipped below freezing in the Central and Southern San Joaquin Valley. Although most of the colder areas dropped to the 29 to 31 degree F. range, a low reading of 25F was reported by Allensworth State Park in Southwest Tulare County. These readings so late in the cold season likely had minimal impact on area agriculture.								
CAZ096	**S Sierra Mtns**								
	17	**2000PST**			**0**	**0**			**Winter Storm**
	18	**1730PST**							
	Snowfall at the highest elevations of the Southern Sierra Nevada ranged from 20 inches at Tenaya Lake to 15" at Lower Kibbie Ridge late on the 17th and early on the 18th.								
CAZ095-098>099	**Kern Cty Mtns - Indian Wells Vly - Se Kern Cty Desert**								
	18	**1010PST**			**0**	**0**	**3K**		**Strong Wind**
	19	**0400PST**							
	Gusty southwest wind prevailed over the Kern County Mountains and Desert areas during the afternoon of the 18th into the early morning hours of the 19th.								
Merced County									
4.5 NW Gustine to	**18**	**1355PST**			**0**	**0**			**Funnel Cloud**
4 N Gustine		**1358PST**							
Merced County									
5 SW El Nido to	**18**	**1418PST**			**0**	**0**			**Funnel Cloud**
5 WNW El Nido		**1419PST**							
Merced County									
5 NW Merced	**18**	**1457PST**			**0**	**0**			**Lightning**
Madera County									
Chowchilla	**18**	**1458PST**			**0**	**0**			**Funnel Cloud**
	Instability behind a Central California frontal passage produced low-topped convection (20K Feet) during the mid-afternoon of the 18th. Numerous reports of funnels were noted along with lightning as thunderstorms developed along an eastward moving line from Merced County through northern Madera County.								
Madera County									
4.2 S Raymond	**18**	**1555PST**			**0**	**0**			**Funnel Cloud**
		1600PST							
	Several small funnels quickly formed and dissipated with low-topped convection.								
CAZ089>092	**W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley**								
	20	**0400PST**			**0**	**0**			**Dense Fog**
	21	**1000PST**							
	With sufficient moisture from early and mid-month precipitation events, the Central and Southern San Joaquin Valley had late night and early morning dense fog on the morning of the 20th and 21st.								
CAZ090>091	**E Central S.J. Valley - Sw S.J. Valley**								
	21	**0100PST**			**0**	**0**			**Frost/Freeze**
		0900PST							
	Minimum temperatures dipped to the 28 to 31 degree F. range at colder locations in the Central and South San Joaquin Valley on the 21st. There was no reported loss to agriculture.								
CAZ096>098	**S Sierra Mtns - Tulare Cty Mtns - Indian Wells Vly**								
	22	**0955PST**			**0**	**0**	**1.5K**		**Strong Wind**
	23	**0720PST**							
	Gusty northeast wind occurred over the highest elevations of the Southern Sierra Nevada and Tulare County Mountains from mid-day on the 22nd to the morning of the 23rd. The Indian Wells Valley experienced gusty north wind during the 22nd.								
CAZ089>092	**W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley**								
	22	**2315PST**			**0**	**0**			**Dense Fog**
	25	**0449PST**							
	Dense fog occurred in widespread areas of the Central and Southern San Joaquin Valley in the early morning hours of the 23rd, 24th, and 25th.								

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

CALIFORNIA, South Central

CAZ090 — **E Central S.J. Valley**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
24	**0230PST**	**0**	**0**			**Frost/Freeze**
	0745PST					

Minimum temperatures in the Fresno County agricultural areas dropped to 29 to 31 degrees F. early on the 24th. No damage occurred.

CALIFORNIA, Southeast

CAZ026 — **Owens Valley**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
01	**1700PST**	**1**	**0**			**Winter Storm**
02	**2000PST**					

Heavy snow fell in the Sierras and the Owens Valley. Aspendell (at 8500') received 56 inches, and Bishop (at 4000') received 18 inches. At the peak of the storm, snow was falling at a rate of 4 inches per hour. Snow turned to rain in the Olancha and Independence areas, producing minor flooding of roads. One person died of hypothermia and exposure on January 3rd, after hiking away from her car (which had become stranded on the 1st) to look for help. F19OU

CAZ026 — **Owens Valley**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
07	**0625PST**	**0**	**0**			**High Wind (G67)**

Measured gust to 77 mph in Aspendell (at 8500 feet).

CAZ026 — **Owens Valley**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
18	**1529PST**	**0**	**0**	**10K**		**Strong Wind**

18-wheeler flipped over on Highway 395 50 miles south of Independence.

CALIFORNIA, Southwest

CAZ042>043-048-050 — **Orange County Coastal Plain - San Diego County Coasts - San Bernardino County Valley/The Inland Empire - San Diego County Valleys**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
02	**0900PST**	**0**	**0**	**100K**		**Strong Wind**
	2000PST					

CAZ055>056-058-060 — **San Bernardino County Mountains - Riverside County Mountains - San Diego County Mountains - Apple And Yucca Valleys**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
02	**0900PST**	**0**	**0**	**210K**		**High Wind (G56)**
	2000PST					

A strong Pacific storm brought widespread gusty winds over 50 mph all the way from the coast to the mountains. The winds downed trees, phone lines, and power lines. Some trees fell across automobiles and houses, while others fell across roadways and power lines. Hundreds of thousands of customers lost power during the storm. One hard hit area was Crestline, where 20 homes were left uninhabitable by downed trees. Elsewhere, in Apple Valley, the high winds downed trees, power poles, and caused damage to numerous homes. A trailer home was knocked off its supports by strong winds near Hesperia. The newly renovated "M" above Moreno Valley on Box Springs Mountain was torn apart by the strong winds.

San Bernardino County

	Date	Time	Killed	Injured	Property	Crops	Character of Storm
6 NW Forest Falls	**02**	**1245PST**	**0**	**0**			**Thunderstorm Wind (G50)**

High winds from a thunderstorm caused trees and rocks to come down along areas of highway 38 near Angelus Oaks.

San Bernardino County

	Date	Time	Killed	Injured	Property	Crops	Character of Storm
Crestline	**02**	**1600PST**	**0**	**0**	**20K**		**Flash Flood**
		1630PST					

Heavy rain caused flooding of structures in Crestline and resulted in rock and mudslides along "The Narrows" section of highway 18. An estimated 250,000 pounds of debris had to be removed from the highway. Elsewhere, one motorist had to be rescued after his car stalled in the Oro Grande Wash in Victorville.

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

Date	Time	Killed	Injured	Property	Crops	Character of Storm
05	**1000PST**	**0**	**0**	**50K**		**Strong Wind**
	2300PST					

Gusty Santa Ana winds caused minor damage to trees, utility lines, and other property. Strong winds also knocked over a 50-foot Oak Tree in Cuyamaca. The tree killed 5 goats and injured 5 others. The goats were values at $150 each.

CAZ048-057>058 — **San Bernardino County Valley/The Inland Empire - Santa Ana Mountains And Foothills - San Diego County Mountains**

Date	Time	Killed	Injured	Property	Crops	Character of Storm
22	**1630PST**	**0**	**0**	**80K**		**High Wind (G62)**
24	**0830PST**					

Surface high pressure over the Great Basin resulted in gusty Santa Ana winds from the San Bernardino mountains, through the Inland Empire, and into Orange County. Fremont Canyon reported wind gusts over 60 mph on at least 19 hourly observations, including a peak gust of 71 mph at 530 am on the 24th. Wind gusts over 60 mph toppled trees and power poles, and caused at least seven big rigs to overturn along the 15 and 210 freeways near Rancho Cucamonga and Fontana. Downed power lines caused sporadic power outages. The strong winds may have been what caused a spooked horse to wander into traffic lanes and throw its rider. The man who

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

CALIFORNIA, Southwest

was thrown from the horse died from a head injury. In Hemet, the roof of a carport was torn off and blowing dust resulted in the closure of a two mile stretch of the Ramona Expressway. Most of the property damage that occurred across the CWA came as a direct result of falling trees.

CAZ055 **San Bernardino County Mountains**

23 1232PST 0 1 Wildfire
26 1800PST

The Plunge Fire burned 485 acres of rugged terrain between Running Springs and Highland. Strong Santa Ana winds on the 23rd contributed to the brief but rapid spread of this fire.

CALIFORNIA, Upper

CAZ080 **Western Siskiyou County**

01 0000PST 0 0 Flood
1430PST

Scott River at Fort Jones
The Scott River at Fort Jones exceeded flood stage (15.0 feet) at 30/1615 PST, crested at 20.44 feet at 31/0930 PST, and fell below flood stage at 01/1430 PST in January 2006. A Flood Warning was issued for the area at 29/2259 PST, and cancelled at 01/2200 PST in January 2006.

CAZ080 **Western Siskiyou County**

01 0000PST 0 0 Flood
03 0415PST

Klamath River at Seiad Valley
The Klamath River at Seiad Valley exceeded flood stage (15.0 feet) at 30/1100 PST, crested at 24.33 feet at 31/0415 PST, and fell below flood stage at 03/0415 PST in January 2006. A Flood Warning was issued for the area at 28/1018 PST, and cancelled at 03/0600 PST in January 2006.

CAZ082-082 **South Central Siskiyou County**

01 0800PST 0 0 Heavy Snow
1800PST

Spotter SY39 at 4040 feet reported 6 inche of snow in 10 hours.
A WInter Storm Warning was issued for California zones CAZ080/082/083 above 3500 feet at 31/1043, effective 01/0400 to 01/2200 PST. The above observations verified the warning.

CAZ081 **Central Siskiyou County**

01 0845PST 0 0 High Wind (G59)

Measured at the Weed RAWS.
A High Wind Warning was issued for California zone CAZ081 at 01/0425 PST, effective from 01/0425 to 01/1800 PST. It was cancelled at 01/1600 PST. The above observation verified the warning.

CAZ082 **South Central Siskiyou County**

03 0730PST 0 0 Heavy Snow
1730PST

Spotter SY94 at 4100 feet reported 11 inches of snow in 10 hours.
This amount meets the criteria for a Heavy Snow Warning, but a Snow Advisory was in effect. This advisory was issued for California zones CAZ080/082/083 above 3500 feet at 02/1356 PST, effective from 03/1000 to 03/2200 PST. The advisory for CAZ080 was cancelled at 03/1504 PST, the advisory for the remaining areas was cancelled at 03/2138 PST

CAZ082 **South Central Siskiyou County**

13 0800PST 0 0 Heavy Snow
14 0500PST

11 inches of snow in 21 hours at Castle Lake at 5900 feet between 13/0800 and 14/0500 PST. 9 of the 11 inches fell in 12 hours between 13/1600 PST and 14/0400 PST.
A Snow Advisory was in effect for California zones CAZ080/082/083 above 4000 feet during the height of this event. It was issued at 13/2005 PST and expired at 14/0957 PST.

CAZ081-081 **Central Siskiyou County**

28 0445PST 0 0 High Wind (G61)
0545PST

Recorded at Weed RAWS.
A High Wind Warning was issued for California zone CAZ081 at 28/0708 PST, effective from 28/0708 to 28/0900 PST. It was expired at 28/0900 PST. The above observations verified the warning, which was issued a bit late.

CALIFORNIA, West South Central

Los Angeles County

Claremont 02 1157PST 0 0 Thunderstorm Wind (G59)

A severe thunderstorm moved through the community of Claremont in Los Angeles County. Law enforcement reported numerous trees and power lines down due to thunderstorm winds gusting to 68 MPH.

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

CALIFORNIA, West South Central

CAZ034 — **San Luis Obispo County Central Coast**

02 1500PST 1600PST — 0 — 0 — 4M — — **High Wind (G56)**

Strong west to northwest winds, gusting to 65 MPH, affected the community of Cambria in San Luis Obispo county. In total, 84 homes sustained damage with 31 homes sustaining major damage. Estimates of property damage were around $4 million.

CALIFORNIA, Western

Sonoma County

Countywide — **01 0000PST 03 0600PST** — 0 — 0 — 104M — 3M — **Flood**

The major flooding that began late in December continued into early January. Widespread low-land flooding across the county persisted with the hardest hit areas around the Russian River in Healdsburg and Guerneville. The Petaluma River also over-flowed its banks as did the Sonoma Creek. Total number of structures tagged by county officials with damage was 66 with property damage over $100 million.

Napa County

Countywide — **01 0000PST 0700PST** — 0 — 0 — 115B — 32.5M — **Flood**

Major flooding continued into the early hours of January 1st, before the Napa River finally fell below flood stage and the water receeded. Flooding was severe in Downtown Napa from the Napa Creek and the City and Parks Department was hit with $6 million in damage alone. The City of Napa had 600 homes with moderate damage, 150 damaged businesses with costs of at least $70 million.

Marin County

Countywide — **01 0000PST 0600PST** — 0 — 0 — 108M — — **Flood**

Flooding from heavy rains in late December continued into the early morning of January 1st. Hardest hit areas in the County were Fairfax, San Anselmo, Novato, Inverness, Ross and Mill Valley. Across the County, 1600 homes, 240 businesses and 225 Government agencies were affected by the flood. San Anselmo was under 2 feet of water with an estimated 150 of its 230 businesses damaged at a price tag of around $40 million.

Alameda County

Countywide — **01 0000PST 1800PST** — 0 — 0 — 8.8M — — **Flood**

Flooding that began on December 31st continued into the New Year. Approximately 2 to 4 inches of rain fell in a 24 hour period, causing widespread flooding in San Leandro, Oakland, Alameda and Berkeley. Much of the damage was done to Public Property, mainly City and County facilities.

Santa Cruz County

Countywide — **01 0000PST 2000PST** — 0 — 0 — 2.5M — — **Flood**

Flooding that began on December 31st continued into early 2006. At least 13 road closures were reported due to mudslides and fallen trees. About 13 homes were damaged by flooding in Felton as the San Lorenzo River spilled out of its banks. Much of the damage reported was for needed road repairs due to flooding and debris clearance. In Soquel, downed trees and flooding from Soquel Creek closed many roads.

San Mateo County

Countywide — **01 0000PST 1700PST** — 0 — 0 — 5M — — **Flood**

Flooding from late December 2005 continued into the beginning of 2006. Several small streams overflowed due to the heavy rains and poor drainage problems. The bulk of the damage occurred in East Palo Alto, San Mateo, Daly City, Colma, Brisbane, San Bruno, South San Francisco and Pacifica. Around 2 to 3 inches of rain fell in the 24 hour period.

Contra Costa County

Countywide — **01 0000PST 1500PST** — 0 — 0 — 22M — — **Flood**

Widespread flooding continued into early 2006 after very heavy rains through December 31st brought 3 to 4 inches in a 24 hour period. Urban flooding initiated landslides that contributed to the damage, and small streams and creeks overflowed their banks. Much of the damage was in Walnut Creek, Richmond, San Pablo, Martinez and Orinda. Included in the damages were schools, park areas and several Government Buildings.

CARIBBEAN SEA AND TROPICAL ATLANTIC

S Santee R To Edisto Beach Sc Out 20Nm

13 SW Kiawah Island — **02 1425EST** — 0 — 0 — **Marine Tstm Wind**

Thunderstorm winds gusted to 45 mph 2 miles east of Edisto Beach.

Charleston Harbor

1 W The Charleston Ba — **02 1443EST** — 0 — 0 — **Marine Tstm Wind**

Thunderstorm winds gusted to 40 mph at the Charleston Coast Guard station.

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

CARIBBEAN SEA AND TROPICAL ATLANTIC

Savannah Ga To Altamaha Sd Ga Out 20Nm

19 E Sapelo Island | **02** | **1445EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 47 mph at the Grays Reef buoy.

S Santee R Sc To Savannah Ga 20 To 40Nm

43 E Folly Beach | **02** | **1545EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 43 mph at the Edisto buoy.

Savannah Ga To Altamaha Sd Ga Out 20Nm

19 E Sapelo Island | **02** | **1650EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm wind gusted to 39 mph at the Grays Reef buoy.

Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm

10 E Port Of Palm Beac | **11** | **1215EST** | **0** | **0** | **Waterspout**

3 E Port Of Palm Beach | **1310EST**

The public reported a waterspout about 10 miles east of Palm Beach. The waterspout was associated with a line of showers moving northwest at 10 to 15 mph. The initial report was relayed by the Coast Guard.

Savannah Ga To Altamaha Sd Ga 20 To 60Nm

60 ESE Tybee Island | **13** | **2126EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 40 mph at the R8 tower.

Savannah Ga To Altamaha Sd Ga 20 To 60Nm

40 E Sapelo Island | **13** | **2132EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 40 mph at the R2 tower.

Savannah Ga To Altamaha Sd Ga 20 To 60Nm

60 ESE Tybee Island | **13** | **2226EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 43 mph at the R8 tower.

Savannah Ga To Altamaha Sd Ga 20 To 60Nm

40 E Sapelo Island | **13** | **2232EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 43 mph at the R2 tower.

S Santee R Sc To Savannah Ga 20 To 40Nm

40 E Folly Beach | **14** | **0045EST** | **0** | **0** | **Marine Tstm Wind**

Thunderstorm winds gusted to 43 mph at the Edisto buoy.

Cp Fear To Little R Inlet Nc Out 20Nm

Little River Inlet | **14** | **0054EST** | **0** | **0** | **Marine Tstm Wind**

A measured thunderstorm marine gust of 43 mph was recorded at Sunset Beach.

Deerfield Beach To Ocean Reef Fl

6 SE Government Cut | **14** | **0526EST** | **0** | **0** | **Marine Tstm Wind**

The C-MAN station at Fowey Rocks measured a peak wind gust of 44 knots as a line of showers associated with a strong cold front moved through the area.

Storm Data and Unusual Weather Phenomena

January 2006

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

CARIBBEAN SEA AND TROPICAL ATLANTIC

Jupiter Inlet To Deerfield Beach Fl Out 20Nm

50 E Port Of Palm Beac **14** **0543EST** **0** **0** **Marine Tstm Wind**

The C-MAN station at Settlement Point, Grand Bahama Island, measured a peak wind gust of 42 knots.

Lake Okeechobee

6 E Buckhead Ridge to **18** **0415EST** **0** **0** **Marine Tstm Wind**
9 SW Port Mayaca **0430EST**

A strong cold front moved through Lake Okeechobee during the pre-dawn hours of January 18th. The front was accompanied by a line of showers, with winds gusting to 34 knots or greater at three South Florida Water Management anemometers. The highest recorded wind speed was 37 knots over the northern portion of the lake about 6 miles east of Buckhead Ridge.

Charleston Harbor

1 W The Charleston Ba **30** **2303EST** **0** **0** **Marine Tstm Wind**

Thunderstorm winds gusted to 50 mph at the Charleston Coast Guard station. A wind gust to 46 mph also occurred at Waterfront Park in Charleston.

S Santee R To Edisto Beach Sc Out 20Nm

3 ENE Folly Beach **30** **2310EST** **0** **0** **Marine Tstm Wind**

Thunderstorm winds gusted to 41 mph at the Folly Beach C-man station.

COLORADO, Central and Northeast

COZ039 **Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County**

03 **1430MST** **0** **0** **0** **High Wind (G79)**
1710MST

Locally high winds developed over northern Jefferson County near Rocky Flats. Peak wind gusts from 75 to 91 mph (79 kts) were recorded during the afternoon. A semi-trailer truck was blown onto its side near the main entrance to Rocky Flats, along State Highway 93.

COZ033 **S & E Jackson / Larimer / N & Ne Grand / Nw Boulder Counties Above 9000 Feet**

08 **2101MST** **0** **0** **High Wind (G93)**
2147MST

Strong winds blew briefly atop Niwot Ridge in Boulder County. Peak wind gusts reached 107 mph (93 kts).

COZ034>035 **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**

12 **2000MST** **0** **0** **High Wind (G95)**
2130MST

Very strong winds occurred in parts of the North-Central Mountains and Front Range Foothills. Peak wind gusts to 109 mph (95 kts) were recorded atop Kenosha Pass, with a gust to 91 mph (79 kts) registered at Brainard Lake.

COZ035-039 **Larimer & Boulder Counties Between 6000 & 9000 Feet - Boulder & Jefferson Counties Below 6000 Feet / W Broomfield County**

18 **0352MST** **0** **0** **High Wind (G70)**
0530MST

High winds occurred over northern Jefferson and southern Boulder Counties. A peak wind gust to 81 mph (70 kts) was recorded 3 miles west of Superior, with a gust to 80 mph, 2 miles southeast of Boulder. Five teenagers started a grassfire near the Plainview area, northwest of the intersection of highways 72 and 93. Strong winds coupled with very dry conditions allowed the fire to quickly spread, forcing the evacuation of dozens of residents and the closure of the aforementioned highways. In all, the fire consumed 2,700 acres and destroyed two outbuildings. No homes were damaged and no one was injured.

COLORADO, East Central

NONE REPORTED.

COLORADO, South Central and Southeast

COZ058-074-079-087>088 **Eastern Lake County / Western Mosquito Range Above 11000 Ft - Southern Sangre De Cristo Mountains Between 7500 & 11000 Ft - Wet Mountains Between 8500 And 10000 Ft - Walsenburg Vicinity / Upper Huerfano River Basin Below 7500 Ft - Trinidad Vicinity / Lower Huerfano River Basin & Western Las Animas County Below 7500 Ft**

08 **2100MST** **0** **0** **Heavy Snow**
09 **0600MST**

A quick moving weather system caused snow to fall in sections of southern Colorado. The highest amounts ranged from 5 to 7 inches in and around Climax...Rye...Cuchara...Aguilar and La Veta.

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

COLORADO, South Central and Southeast

COZ074-078>079-084 **Southern Sangre De Cristo Mountains Between 7500 & 11000 Ft - Westcliffe Vicinity / Wet Mountain Valley Below 8500 Ft - Wet Mountains Between 8500 And 10000 Ft - Northern El Paso County / Monument Ridge / Rampart Range Below 7500 Ft**

16 0030MST 0 0 Heavy Snow
1300MST

Another quick moving weather system generated 5 to 13 inches of snow. Some of the heavier snow amounts ranged from 5 to 7 inches in the Rye - Colorado City area in Pueblo County...7 inches around Monument in El Paso County...and 13 inches recorded at Cuchara in Huerfano County.

COZ060>062-068>069-074>082-085-087>088 **Eastern Sawatch Mountains Above 11000 Ft - Western Chaffee County Between 9000 & 11000 Ft - Central Chaffee County Below 9000 Ft - Eastern San Juan Mountains Above 10000 Ft - Del Norte Vicinity / Northern San Luis Valley Below 8500 Ft - Southern Sangre De Cristo Mountains Between 7500 & 11000 Ft - Southern Sangre De Cristo Mountains Above 11000 Ft - Northwest Fremont County Above 8500 Ft - West / Central Fremont County Below 8500 Ft - Westcliffe Vicinity / Wet Mountain Valley Below 8500 Ft - Wet Mountains Between 8500 And 10000 Ft - Wet Mountains Above 10000 Ft - Teller County / Rampart Range Above 7500 Ft / Pikes Peak Between 7500 & 11000 Ft - Pikes Peak Above 11000 Ft - Colorado Springs Vicinity / Southern El Paso County / Rampart Range Below 7500 Ft - Walsenburg Vicinity / Upper Huerfano River Basin Below 7500 Ft - Trinidad Vicinity / Lower Huerfano River Basin & Western Las Animas County Below 7500 Ft**

19 1100MST 0 0 Winter Storm
20 0200MST

A strong, slow moving storm system produced widespread snow across southern Colorado. Some of the higher snow totals follow: 6 to 10 inches in and around...Trinidad...Aguilar...Walsenburg...Colorado Springs...Nathrop...Crestone...Maysville...Salida...Cripple Creek...Divide...Monarch Pass and La Veta...12 inches of snow was noted 12 miles north-northeast of Texas Creek in Fremont County...8 miles west of Westcliffe in Custer County and in Beulah in Pueblo County...13 inches 5 miles south of Rosita in Custer County...14 inches in and near Cuchara...15 inches around San Isabel...17 inches around Rye...and finally...not to be outdone...18 inches at the summit of Wolf Creek Pass in Mineral County.

COZ066>068 **La Garita Mountains Above 10000 Ft - Upper Rio Grande Valley / Eastern San Juan Mountains Below 10000 Ft - Eastern San Juan Mountains Above 10000 Ft**

25 1400MST 0 0 Heavy Snow
26 0300MST

A quick moving weather system brought over 10 inches of snow to the higher elevations of the eastern San Juan and La Garita mountains, including the summit of Wolf Creek Pass.

COLORADO, West

COZ010-018>019 **Gore And Elk Mountains/Central Mountain Valleys - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

01 0000MST 0 0 Winter Weather/Mix
1400MST

This storm began on the morning of December 30, 2005. A moist southwest flow brought 5 to 12 inches of snow to the southern mountains and portions of the central mountains of western Colorado. Locally higher amounts of 13 to 17 inches were reported at some ski areas.

COZ004-009-012>013 **Elkhead And Park Mountains - Grand And Battlement Mesas - West Elk And Sawatch Mountains - Flattop Mountains**

01 0000MST 0 0 Winter Storm
1400MST

This storm began on the morning of December 30, 2005. A moist southwest flow brought heavy snow and strong winds to the northern and central mountains of western Colorado. Snowfall amounts of 12 to 20 inches blanketed the area while wind gusts of 20 to 50 mph created blowing and drifting snow.

COZ001>014-017>023 **Lower Yampa River Basin - Central Yampa River Basin - Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Upper Yampa River Basin - Grand Valley - Debeque To Silt Corridor - Central Colorado River Basin - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Central Gunnison And Uncompahgre River Basin - West Elk And Sawatch Mountains - Flattop Mountains - Upper Gunnison River Valley - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Paradox Valley / Lower Dolores River Basin - Four Corners / Upper Dolores River Basin - Animas River Basin - San Juan River Basin**

01 0000MST 0 0 Drought
31 2359MST

The storm track favored northwest Colorado with respect to snowfall and increased snowpack. In contrast, cold season precipitation and the mountain snowpack remained well below normal across southwest Colorado. As a result, moderate drought conditions returned to a portion of southwest Colorado, while the moderate drought conditions which had persisted across extreme northwest Colorado diminished. Although much of western Colorado was no longer listed as having any abnormal dryness or drought, the water

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

COLORADO, West

supply remained a concern following years of below normal precipitation and drought. For a continuation on this drought situation please see the February 2006 Storm Data publication.

COZ008 **Central Colorado River Basin**

01	**0915MST**	**0**	**0**	**70K**		**Landslide**
	0920MST					

A rock slide that included ten large boulders occurred in Glenwood Canyon early on New Year's Day. The slide fell on Interstate 70, damaging westbound and eastbound lanes. One boulder tore a 3-by-4-foot hole through the outer lane of the suspended section of eastbound I-70. The average weight of the boulders was estimated at three tons. This slide was thought to be caused by a freeze and thaw cycle that had been ongoing for over a week.

COZ004-010-012>013-019 **Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains - Southwestern San Juan Mountains**

02	**0600MST**	**0**	**0**			**Winter Weather/Mix**
03	**1700MST**					

A Pacific storm raced across western Colorado and produced 4 to 9 inches of snow and wind gusts from 20 to 40 mph across much of the mountain areas of western Colorado.

COZ004-010 **Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys**

08	**0000MST**	**0**	**0**			**Winter Weather/Mix**
09	**1300MST**					

A fast moving storm from the northwest produced 5 to 10 inches of snow and wind gusts from 20 to 40 mph across much of the northern mountain areas of western Colorado near the Continental Divide. Winds gusted as high as 47 mph at the top of the Aspen Highlands Ski Area.

COZ004-010-012>013 **Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains**

11	**1200MST**	**0**	**0**			**Winter Weather/Mix**
12	**1400MST**					

A storm system originating in the North Pacific produced 5 to 11 inches of snow across the northern and central mountains of western Colorado. Visibility was reduced in snow and blowing snow as wind gusts of 30 to 40 mph buffeted the area

COZ005 **Upper Yampa River Basin**

11	**2200MST**	**0**	**0**			**Winter Weather/Mix**
12	**1600MST**					

A North Pacific storm system produced 5 to 10 inches of snow from Steamboat Springs to Oak Creek.

COZ007 **Debeque To Silt Corridor**

12	**0000MST**	**0**	**0**			**Winter Weather/Mix**
	0900MST					

Spotter reports indicated 3 to 5 inches of snow accumulated along the Interstate 70 corridor from DeBeque Canyon to Silt.

COZ003>004-010-012>013-017>019 **Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

15	**0800MST**	**0**	**0**			**Winter Weather/Mix**
16	**1300MST**					

Snowfall amounts of 5 to 12 inches blanketed the mountains of western Colorado as a Pacific storm system moved across the area. Strong winds buffeted much of the area, with gusts from 20 to 40 mph that created blowing and drifting snow. A gust of 56 mph was recorded at the top of the Telluride Ski Area.

COZ009 **Grand And Battlement Mesas**

15	**1000MST**	**0**	**0**			**Winter Storm**
16	**0800MST**					

A Pacific storm system produced 1 to 3 feet of snow across Grand and Battlement Mesas, along with gusty winds of 25 to 35 mph that caused areas of blowing and drifting snow.

COZ011 **Central Gunnison And Uncompahgre River Basin**

15	**1400MST**	**0**	**0**			**Winter Weather/Mix**
16	**0300MST**					

A Pacific storm produced 3 to 8 inches of snow in areas from around Montrose to Crawford and Hotchkiss.

COZ005 **Upper Yampa River Basin**

15	**1800MST**	**0**	**0**			**Winter Weather/Mix**
16	**1000MST**					

A Pacific storm system brought 5 to 9 inches of snow to the Steamboat Springs area.

COZ003>004-010-012>013-018 **Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains - Northwestern San Juan Mountains**

17	**0800MST**	**0**	**0**			**Winter Storm**
20	**0400MST**					

A vigorous upper level trough brought a prolonged period of snow to the mountains of western Colorado that resulted in 1 to 2 feet of

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

COLORADO, West

snow accumulation. Blowing and drifting of snow occurred as strong winds gusted from 20 to 40 mph. The highest wind gust recorded was 67 mph at the top of Telluride Ski Area.

COZ005-009-017-019 **Upper Yampa River Basin - Grand And Battlement Mesas - Uncompahgre Plateau And Dallas Divide - Southwestern San Juan Mountains**

18 0700MST 0 0 Winter Weather/Mix
20 0500MST

Snowfall of 5 to 12 inches accumulated in the Upper Yampa River Basin and across portions of the central and southern mountain areas of western Colorado. Strong winds with frequent gusts of 20 to 40 mph created areas of blowing and drifting snow. The strongest wind gust recorded was 65 mph over the San Juan Mountains.

COZ002 **Central Yampa River Basin**

18 1700MST 0 0 Heavy Snow
19 1600MST

An area of heavy snow developed across the Central Yampa River Basin of northwest Colorado as a vigorous upper level trough moved through the area. Spotter reports indicated 6 to 9 inches of new snow across the area.

COZ001-007>008-014-023 **Lower Yampa River Basin - Debeque To Silt Corridor - Central Colorado River Basin - Upper Gunnison River Valley - San Juan River Basin**

18 2200MST 0 0 Winter Weather/Mix
19 1200MST

An upper level trough moved across western Colorado and produced 3 to 6 inches of snow along the Interstate 70 corridor from around DeBeque to Edwards. Snowfall of 3 to 6 inches also blanketed portions of the Lower Yampa River Basin, as well as locations in and around Gunnison and Pagosa Springs.

COZ018>019 **Northwestern San Juan Mountains - Southwestern San Juan Mountains**

20 0900MST 0 0 Avalanche
1300MST

Fresh snowfall led to several natural avalanches in the San Juan Mountains. Debris from avalanches caused Highway 550 over Red Mountain Pass to be closed for 3 hours while the highway was cleared. Debris up to 5 feet deep over a distance of 30 feet covered the centerline of the highway in one instance.

COZ019 **Southwestern San Juan Mountains**

25 0700MST 0 0 Winter Storm
26 1400MST

A Pacific storm moved across the Four Corners area and produced 10 to 21 inches of snow across the Southwest San Juan Mountains. Gusty winds of 25 to 40 mph buffeted the area and caused blowing and drifting snow.

COZ003-009>010-012>013-017>018 **Roan And Tavaputs Plateaus - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Flattop Mountains - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains**

25 0800MST 0 0 Winter Weather/Mix
26 1400MST

A Pacific storm system produced 5 to 12 inches of snow across the majority of the mountains and plateaus in western Colorado. Additionally, wind gusts of 25 to 40 mph created blowing and drifting snow.

COZ023 **San Juan River Basin**

25 1800MST 0 0 Heavy Snow
26 0700MST

A Pacific storm moved across the Four Corners and produced 6 to 9 inches of snow in the Pagosa Springs area.

COZ021>022 **Four Corners / Upper Dolores River Basin - Animas River Basin**

25 1800MST 0 0 Winter Weather/Mix
26 0700MST

A Pacific storm moved across the Four Corners area and produced widespread snowfall amounts of 3 to 6 inches. The exception was up towards Vallecito Dam where 8 inches of new snow was measured.

COZ018>019 **Northwestern San Juan Mountains - Southwestern San Juan Mountains**

26 0200MST 0 0 Avalanche
1200MST

Several natural avalanches closed the highway around Red Mountain Pass at times while debris was cleared. Debris 2 to 5 feet deep covered the centerline of Highway 550 at several locations, with 140 feet of highway covered by a single slide. One of the avalanches trapped a Ouray plow driver at approximately 3:30 a.m. MST. This caused a full gate closure on Red Mountain Pass for about an hour while the plow and driver were in the process of being freed.

COZ003>004-009>010-013-018 **Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Flattop Mountains - Northwestern San Juan Mountains**

27 0800MST 0 0 Winter Weather/Mix
28 0700MST

Snowfall amounts of 5 to 12 inches blanketed the northern mountains and plateaus of western Colorado and portions of the central and southern mountains of western Colorado. Blowing and drifting of snow occurred due to frequent wind gusts of 20 to 35 mph

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

COLORADO, West

COZ013 — **Flattop Mountains**

28	**0800MST**		**0**	**0**			**Winter Storm**
29	**1300MST**						

Widespread snowfall of 8 to 13 inches fell across the Flat Tops Mountains of northwest Colorado. Strong wind gusts of 20 to 40 mph buffeted the area and caused blowing and drifting of snow.

COZ004-009>010-012-018>019 — **Elkhead And Park Mountains - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - West Elk And Sawatch Mountains - Northwestern San Juan Mountains - Southwestern San Juan Mountains**

28	**0800MST**		**0**	**0**			**Winter Weather/Mix**
29	**1600MST**						

A fast moving Pacific storm produced 5 to 14 inches of snow across the majority of mountains in western Colorado. Local higher snowfall amounts included 22 inches at the Silverton Mountain Ski Area and 19 inches at Beaver Creek Ski Area. Additionally, frequent wind gusts of 20 to 40 mph caused blowing and drifting of snow. The highest wind gust recorded was 51 mph at the Storm Peak Laboratory.

COZ005 — **Upper Yampa River Basin**

28	**1400MST**		**0**	**0**			**Winter Weather/Mix**
29	**0500MST**						

A Pacific storm produced 5 to 7 inches of snow across much of the upper Yampa River Basin.

COZ008 — **Central Colorado River Basin**

29	**0000MST**		**0**	**0**			**Winter Weather/Mix**
	0800MST						

A fast moving Pacific storm blanketed the Interstate 70 corridor from about Glenwood Springs to Avon with 3 to 6 inches of snow.

COZ018 — **Northwestern San Juan Mountains**

29	**1600MST**		**0**	**0**			**Avalanche**
	1700MST						

An avalanche came down across Highway 550, covering the road with about 3 feet of debris at the centerline which resulted in the road being closed for a while.

COZ004-013 — **Elkhead And Park Mountains - Flattop Mountains**

30	**0500MST**		**0**	**0**			**Winter Weather/Mix**
31	**1400MST**						

A fast moving Pacific storm produced 5 to 12 inches of snow across the mountains of northwest Colorado. Frequent wind gusts of 25 to 40 mph buffeted the mountains and caused blowing and drifting of snow. The strongest wind gust recorded was 53 mph at the Storm Peak Laboratory.

COZ005 — **Upper Yampa River Basin**

31	**0500MST**		**0**	**0**			**Winter Weather/Mix**
	1200MST						

A fast moving Pacific storm produced 5 inches of snow in the Clark and Yampa areas.

CONNECTICUT, Northeast

CTZ003>004 — **Tolland - Windham**

03	**0830EST**		**0**	**0**	**20K**		**Heavy Snow**
	1300EST						

A weakening area of low pressure centered over the Ohio Valley redeveloped into a coastal low off the Delmarva Coast during the early morning hours of 3 January. This coastal low rapidly intensified as it moved well south of New England, bringing a mixture of heavy, wet snow, rain and gusty northeast winds to Connecticut. The heavy, wet snow combined with gusty winds brought down limbs, trees, and power lines, and produced numerous power outages across the state.

The hardest hit areas were across north central and northeast Connecticut, where generally between 6 and 14 inches of snow combined with gusty northeast winds brought down numerous trees, limbs, and wires. Approximately 16,000 customers lost power during this storm.

No known injuries directly resulted from this noreaster.

CTZ002 — **Hartford**

15	**0550EST**		**0**	**0**	**5K**		**Winter Weather**
	0950EST						

An intensifying area of low pressure passing south of New England and into the Gulf of Maine produced a wintry mix of precipitation and gusty northeast winds across north central and Northeast Connecticut during the morning of 15 January 2006. Generally, between 2 and 3 inches of snow fell. This heavy, wet snow, combined with gusty northeast winds, brought down tree limbs and power lines across the region. No known injuries directly related from this winter storm.

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

CONNECTICUT, Northeast

CTZ002-002>004-004-004 **Hartford - Tolland - Windham**

18 0908EST 0 0 250K High Wind (G58)
1233EST

An intensifying low pressure system moved across the Great Lakes and into Quebec, producing strong damaging winds across north central and northeast Connecticut on 18 January 2006. These strong winds brought down numerous trees, limbs, and wires across the region, and they were accompanied by heavy rain showers. In addition, many electric customers lost power during the storm

Sustained wind speeds reached 44 MPH in Hartford at 9:37 AM and 36 MPH in Willimantic at 11:33 AM. In addition, winds gusts to as high as 58 MPH in Hartford and Windham counties. The storm brought down trees and wires on the corner of Orhard Hill Drive and Foster Street in South Windsor. Also, trees and wires were brought down in Ellington, Tolland, West Hartford, Plainfield, Pomfret, and in Thompson.

No known injuries directly resulted from this storm.

CONNECTICUT, Northwest

CTZ001 **Northern Litchfield**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 6 to 16 inches of snow accumulated in northern Litchfield County

CTZ013 **Southern Litchfield**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 8 to 13 inches of snow accumulated in southern Litchfield County
From January 2 through January 3, low pressure moved eastward from the central Mississippi Valley to the northern Atlantic coast, then out to sea. The air mass over eastern New York and adjacent western New England was maginally cold enough for snow to occur. Some locations had heavy snowfall, others had the snow accumulation cut down when the snow mixed with, or changed to rain.

CTZ013 **Southern Litchfield**

14 1345EST 0 0 Flood
16 1230EST

Flooding occurred on the Housatonic River at Stevenson January 14 into January 16. Flood stage is 11.0 feet. A flood crest of 13.01 feet occurred on January 15, at 12:30 AM.

CTZ013 **Southern Litchfield**

14 1715EST 0 0 Flood
2300EST

Flooding occurred on the Pomperaug River at Southbury January 14. Flood stage is 8.0 feet. A flood crest of 8.43 feet occurred on January 14, at 9:45 PM.

CTZ013 **Southern Litchfield**

14 2045EST 0 0 Flood
15 1900EST

Flooding occurred on the Still River at Brookfield on January 14 into January 15. Flood stage is 12.0 feet. A flood crest of 12.73 feet occurred on January 15, at 6:30 AM.

CTZ013 **Southern Litchfield**

14 2155EST 0 0 Flood
16 1145EST

Flooding occurred on the Housatonic River at Gaylordsville January 14 into January 16. Flood stage is 8.0 feet. A flood crest of 8.91 feet occurred on January 15, at 1:15 PM.

CTZ001 **Northern Litchfield**

15 0415EST 0 0 Flood
16 1200EST

During January 15 and 16, flooding occurred on the Housatonic River at Falls Village. Flood stage is 7.0 feet. A flood crest of 7.51 feet occurred on January 15, at 11:30 PM.
On January 14, low pressure intensified and moved northeast across southern New England and northward along the New England coast. Heavy rain occurred in southwestern New England (1.5 to 2.5 inches) with this storm. The rain produced extensive flooding in western New England on January 14 and January 15. Some river flooding lingered into January 16

CTZ013 **Southern Litchfield**

18 0700EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in New Milford.

CTZ001 **Northern Litchfield**

18 0700EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Canaan.

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

CONNECTICUT, Northwest

On January 18, a strengthening cyclone moved across southern Quebec Province, Canada. An occluded front over western New York at daybreak, moved eastward, while the warm front associated with the cyclone moved into southwestern New England early in the morning. A strong pressure gradient was over western New England preceding the passage of the occluded front. In addition to high wind, this storm left 1 to 2 inches of rain across eastern New York and adjacent western New England. The rain combined with melting snow and saturated soil conditions from a heavy precipitation event on January 14, produced widespread flooding. Some of the river flooding lingered until January 22.

CTZ013 **Southern Litchfield**

18	**1645EST**	**0**	**0**		**Flood**
21	**1345EST**				

Flooding occurred on the Housatonic River at Stevenson January 18 into January 21. Flood stage is 11.0 feet. A flood crest of 14.13 feet occurred on January 19, at 3:00 AM.

CTZ001 **Northern Litchfield**

18	**2100EST**	**0**	**0**		**Flood**
22	**1515EST**				

Flooding occurred on the Housatonic River at Falls Village from January 18 into January 22. Flood stage is 7.0 feet. A flood crest of 9.24 feet occurred on January 20, at 5:30 AM.

CTZ013 **Southern Litchfield**

18	**2155EST**	**0**	**0**		**Flood**
22	**1115EST**				

Flooding occurred on the Housatonic River at Gaylordsville January 18 into January 22. Flood stage is 8.0 feet. A flood crest of 10.48 feet occurred on January 19, at 11:09 AM.

CTZ013 **Southern Litchfield**

18	**2230EST**	**0**	**0**		**Flood**
19	**1545EST**				

Flooding occurred on the Still River at Brookfield on January 18 and January 19. Flood stage is 12.0 feet. A flood crest of 12.92 feet occurred on January 19, at 6:45 AM.

CTZ001 **Northern Litchfield**

21	**1530EST**	**0**	**0**		**High Wind (G60)**

On January 21, trees and wires were blown down in Winsted.

On January 21, an intensifying cyclone over Lake Ontario at daybreak moved rapidly down the St Lawrence Valley. A trailing cold front moved quickly into western New England during the middle of the afternoon. A rapidly building high pressure over the Mississippi Valley augmented a strengthening pressure gradient to the west of the cold front. The low levels of the atmosphere were quite unstable as the cold front moved across the region, which allowed strong wind aloft to mix to the surface at the time of the frontal passage.

CONNECTICUT, Southern

CTZ005>006 **Northern Fairfield - Northern New Haven**

03	**0930EST**	**0**	**0**		**Heavy Snow**
	1030EST				

A low pressure system tracked across the Midwest on Monday, January 2nd, and then weakened overnight in the Ohio Valley. A secondary low formed south of Long Island early Tuesday morning, January 3rd, and then tracked well east of southern New England by evening. Rain developed on Monday and changed over to a mix of snow, sleet, and freezing rain late at night before changing over to all snow Tuesday morning. The snow ended by early evening.

Here are selected snowfall amounts:

Danbury - 7.0 inches
Bethel - 6.0 inches
Waterbury - 11.0 inches
Meriden - 7.0 inches

CTZ009 **Southern Fairfield**

03	**1330EST**	**0**	**0**		**Coastal Flood**

A strong low pressure system over the midwest on Monday, January 2nd, tracked east and dissipated over the Ohio Valley later that night. A secondary low developed to the south of Long Island early Tuesday morning, January 3rd, tracking well east of New England by evening. The combination of a large dome of high pressure across eastern Canada and the development of the secondary low to the south produced a strong easterly flow. This resulted in widspread minor coastal flooding across western Long Island Sound and the back bays of the south shore of Long Island.

Moderate coastal flooding was reported at Stamford, Connecticut at 1:30 PM, Tuesday, Janaury 3rd.

CTZ005 **Northern Fairfield**

15	**1000EST**	**0**	**0**		**Heavy Snow**

A strong frontal wave developed over the northern Middle Atlantic States during the morning of Saturday, January 14. The system

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

CONNECTICUT, Southern

continued to deepen as it tracked over the New York City Metro area to just east of Long Island during the evening hours. By Sunday evening, Janaury 15, the deep low center was located near Nova Scotia.

Rain at the onset of the event mixed with sleet and snow Saturday evening and then went over to all snow during the early morning hours on Sunday. The snow fell heavy at times before ending in the mid to late morning.

Here are selected snowfall amounts for Northern Fairfield County:

Danbury - 6.0 inches
New Fairfield - 7.0 inches

CTZ006>009 **Northern New Haven - Northern Middlesex - Northern New London - Southern Fairfield**

18 0855EST 0 0 High Wind (G66)
1200EST

High winds developed after 6 AM on the morning of Wednesday, January 18th, and lasted until around noon as a cold front approached the region. Wind gusts around 70 mph (61 kt) downed many trees and power lines, which caused widespread power outages.

DELAWARE

DEZ001>002 **New Castle - Kent**

04 1400EST 0 0 0 Coastal Flood
1600EST

The combination of a high pressure system over Canada and a low pressure system that exited the Delaware coast on the 3rd and runoff from the heavy rain produced some minor tidal flooding during the daytime high tide on the 4th in Upper Delaware Bay and along the Delaware River as well as along tidal sections of its tributaries. The high tide at Reedy Island (New Castle County) reached 7.29 feet above mean lower low water. Minor tidal flooding begins at 7.2 feet above mean lower low water. The tidal flooding was caused by the east to northeast flow between a low pressure system that moved west to east across the central part of the United States and a high pressure system that skirted across southeastern Canada. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City. While the low pressure system moved well offshore by the morning of the 4th, the high pressure system built south into northern New England. This maintained a weaker, (but still) up the bay flow and helped cause pockets of minor tidal flooding with the daytime high tide cycle.

Sussex County

Midway **14 0515EST 0 0 Thunderstorm Wind (G52)**

A severe thunderstorm knocked down a large billboard for Hooters alongside the Roadhouse Steak Joint on Delaware State Route 1 into the Midway Estates feeder road. No additional damage was reported.

DEZ001>002-004 **New Castle - Kent - Delaware Beaches**

14 1700EST 0 0 20K High Wind (G62)
15 1700EST

DEZ003 **Inland Sussex**

14 1700EST 0 0 5K Strong Wind
15 1700EST

A slow moving and intense low pressure system combined with a high pressure ridge across the Mississippi Valley to produce a prolonged period of strong to high winds across Delaware from the late afternoon on the 14th through the late afternoon on the 15th. The strongest wind gusts occurred between 4 a.m. and 7 a.m. EST on the 15th. The persistent strong winds combined with ground that was wet and not frozen caused more tree damage than normally would be the case. Downed trees and tree limbs consequently helped snap poles and caused scattered power outages. Specific wind gusts included 71 mph in Breakwater Harbor (Sussex County), 62 mph in Wilmington (New Castle County), 58 mph at the Dover Air Force Base (Kent County), 53 mph at the New Castle County Airport and 45 mph in Georgetown (Sussex County).

The intense low pressure system that was responsible for the winds moved from the Delaware Valley during the early afternoon on the 14th, to the New Jersey Coast at 7 p.m. EST on the 14th, onto Long Island at 10 p.m. EST on the 14th, in the New England coastal waters east of Massachusetts at 7 a.m. EST on the 15th and into Nova Scotia by early in the afternoon on the 15th. As the low pressure system exited Nova Scotia and the high pressure system built east into the Ohio Valley, winds started diminishing during the late afternoon on the 15th.

DEZ001>004 **New Castle - Kent - Inland Sussex - Delaware Beaches**

18 0500EST 0 0 25K Strong Wind
1700EST

DEZ002>003 **Kent - Inland Sussex**

18 0500EST 0 0 70K High Wind (G50)
0800EST

Strong to high southeast winds during the early morning and strong west winds during the late morning and afternoon buffeted

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

DELAWARE

Delaware. Peak wind gusts averaged around 60 mph during the early morning in Kent and Sussex Counties and around 45 mph in the westerly flow during the late morning and afternoon. The high winds downed trees and power lines during the early morning in Kent and Sussex Counties. About 10,000 homes and businesses lost power with Camden (Kent County) hit the hardest. Schools in the Caesar Rodney District were closed because of power outages. Peak wind gusts included 50 mph in Dover (Kent County), 46 mph at the New Castle County Airport and 39 mph in Georgetown (Sussex County). The strong winds were caused by an increasing southeasterly low level jet preceding a cold front during the early morning of the 18th. This feature intensified further and caused more damage once it reached New Jersey. The cold front moved through Delaware between 7 a.m. EST and 10 a.m. EST on the 18th and strong west winds occurred behind the front from late in the morning through most of the afternoon before they diminished at night.

DEZ001>002 **New Castle - Kent**

25	**0500EST**	**0**	**0**				**Winter Weather**
	1000EST						

Rain and wet snow showers occurred during the late evening of the 24th and skies cleared toward morning with light winds. This permitted black ice to form on roadways. The icy roads led to numerous accidents. State and county police reported between 5 a.m. and 10 a.m. EST there were 91 weather related crashes that caused 10 injuries in New Castle County. In Wilmington, the South Market Street Bridge was closed between 630 a.m. EST and 830 a.m. EST for de-icing after five accidents occurred. The northbound lanes of Delaware State Route 141 were also closed during the morning rush for de-icing. Conditions were not as slippery in Kent County as only eighteen minor weather related crashes occurred.

DEZ001>004 **New Castle - Kent - Inland Sussex - Delaware Beaches**

31	**0800EST**	**0**	**0**		**0**		**Coastal Flood**
	1500EST						

The combination of spring tides coming off the recent new moon and a rapidly intensifying low pressure system that passed east of Delaware on the 31st produced a strong onshore flow and widespread minor tidal flooding during the daytime high tide along the ocean shore as well as in Delaware Bay and along the Delaware River. The highest tides occurred during the morning along the ocean and the spread up Delaware Bay around noon EST and into the Delaware River and tidal sections of its tributaries during the first half of the afternoon. The tide reached 7.1 feet above mean lower low water at Breakwater Harbor (Sussex County). Minor tidal flooding begins at 6.7 feet above mean lower low water. The tide reached 7.44 feet above mean lower low water at Reedy Island (New Castle County). Minor tidal flooding starts at 7.2 feet above mean lower low water. The low pressure system that caused the minor tidal flooding formed along the Virginia coast during the early morning on the 31st. By 7 a.m. EST on the 31st it had deepened to a 995 millibar low pressure system. It then moved slowly northeast as it intensified. At 1 p.m. EST that afternoon it had deepened to 990 millibars and was located about 200 miles east of the Delaware coast and at 7 p.m. EST that evening, it had deepened to 976 millibars, but was already about 200 miles east of Cape Cod, Massachusetts. This made it only a one high tide cycle event.

DISTRICT OF COLUMBIA

DCZ001 **District Of Columbia**

12	**0300EST**	**0**	**0**				**Dense Fog**
	0730EST						

Areas of dense fog occurred early in the morning of January 12 across the region.

DCZ001 **District Of Columbia**

13	**0430EST**	**0**	**0**				**Dense Fog**
	1200EST						

Areas of dense fog occurred early in the morning of January 13 across the region.

DCZ001 **District Of Columbia**

14	**1924EST**	**0**	**0**	**250K**			**High Wind (G55)**
	1928EST						

Trees down across the district.

Very strong winds developed on the 14th due to a strengthening low pressure system off the Mid Atlantic Coast and a fast moving cold front that passed through the region early in the day. Widespread damages and power outages occurred during this event, with newspaper reports indicating tens of thousands without power for an extended period of time.

FLORIDA, East Central

NONE REPORTED.

FLORIDA, Extreme Southern

NONE REPORTED.

FLORIDA, Northeastern

Duval County

Arlington	**02**	**1800EST**	**0**	**0**			**Heavy Rain**
		1900EST					

Poor drainage flooding at Lonestar and Rogero Rds. Spotter reported 2 to 3 feet of water in the intersection.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
FLORIDA, Northeastern									
Alachua County									
5 NW Gainesville	**02**	**1933EST**			**0**	**0**			**Hail (0.88)**
	Gusty winds reported. Hail later covered the ground.								
Gilchrist County									
10 ENE Bell	**02**	**1940EST**			**0**	**0**			**Hail (1.00)**
	Hail broke seal on screen room enclosure/addition to a house.								
Alachua County									
Gainesville	**02**	**2030EST**			**0**	**0**			**Heavy Rain**
		2200EST							
	Spotter reported 1.75 inches of rain within a 30 minute period at 926 NW 12th Ave, Gainesville, Florida. multiple power outages and several roads impassable due to poor drainage flooding. Storm total rainfall of 3.2 inches was reported at 22:00 est.								
FLORIDA, Northwest									
Liberty County									
Sumatra	**02**	**1255EST**	**0.2**	**50**	**0**	**0**	**10K**		**Tornado (F0)**
	A tornado touched down briefly and tossed an unoccupied trailer. It also downed some power lines. Reported by the Liberty County EMA.								
Leon County									
11 NE Tallahassee to	**02**	**1315EST**			**0**	**0**	**15K**		**Thunderstorm Wind (G50)**
11.5 NE Tallahassee		**1320EST**							
	Thunderstorm winds peeled off the metal roof of a mobile home on Hugh Road. An awning and concrete patio furniture were blown over at a home in the Dove Field Run subdivision. Several trees were uprooted. Reported by the Leon County Sheriff								
Wakulla County									
Southwest Portion	**02**	**1440EST**			**0**	**0**	**1K**		**Flash Flood**
		1530EST							
	Three to five inches of rain in less than two hours flooded a few county roads. A 30-foot section of Lower Bridge Road between Spring Creek and U.S. Highway 98 was flooded. Reported by the Wakulla County Sheriff.								
Walton County									
Glendale	**13**	**1333EST**			**1**	**0**			**Lightning**
	Lightning struck and killed a man. Reported by the Walton County Sheriff. M40OU								
Holmes County									
Bonifay	**30**	**1955EST**			**0**	**0**			**Hail (0.75)**
	Penny size hail reported by the public.								
FLORIDA, Southern									
FLZ063-066>067-070	**Glades - Hendry - Inland Palm Beach - Inland Collier**								
	08	**0400EST**			**0**	**0**			**Frost/Freeze**
		0800EST							
	A continental air mass moved over Florida the weekend of January 7-8, with the parent high pressure system moving directly over the Florida peninsula on the night/early morning of the 7th and 8th. This created ideal radiational cooling conditions, and temperatures dropped to at or below freezing over interior sections of South Florida during the pre-dawn and early morning hours of the 8th. Minimum temperatures were as low as 29 degrees at the Florida Agricultural Weather Network (FAWN) station in Belle Glade. Other minimum temperature readings were: 30 at Palmdale and 31 at Immokalee, Ortona, and Devils Garden. Temperatures were at or below freezing for 2 to 4 hours at some locations. This caused some crop damage to approximately 410,000 acres in Western Palm Beach County. Roughly 1000 farms and nurseries were affected. Damage was particularly severe to the snap bean crop, with estimates of 80-90 percent losses. The sweet corn crop also suffered significantly, with about 25 to 50 percent loss.								
FLORIDA, West Central									
	NOT RECEIVED.								
FLORIDA, West Panhandle									
Okaloosa County									
Dorcas	**01**	**1900CST**			**0**	**0**			**Hail (0.75)**
		1905CST							
Escambia County									
Inerarity Pt	**13**	**0930CST**			**0**	**0**			**Hail (1.50)**
		0935CST							

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
FLORIDA, West Panhandle									
Escambia County									
Molino	**13**	**0945CST** **0950CST**			**0**	**0**	**15K**		**Thunderstorm Wind (G50)**
Trees and power lines were blown down near Molino as a line of thunderstorms moved through the area. Some lightweight structures and outbuildings were also damaged.									
Okaloosa County									
Baker to 4 NE Baker	**13**	**1041CST** **1046CST**	**4**	**50**	**0**	**13**	**2M**		**Tornado (F0)**
A weak tornado touched down along State Highway 4 in Baker near the Post Office. The tornado tracked northeast and tore part of the roof off the Baker School. The winds from the storm funneled into part of the school and peeled sections of the roof off. Kids inside quickly got underneath their desks. Water from the rain fell into the classrooms and caused part of the ceiling to collapse. Thirteen kids suffered minor injuries. At least four classrooms at the school were damaged. The weak tornado continued tracking northeast and damaged several more homes before lifting back into the clouds near Old River Road									
Escambia County									
Paradise Beach	**13**	**1045CST** **1049CST**			**0**	**0**	**20K**		**Thunderstorm Wind (G50)**
High winds from a line of thunderstorms blew down trees and power lines near Paradise Beach. Some damage occurred to lightweight buildings and some awnings were ripped from homes.									
Santa Rosa County									
4 S Berrydale	**13**	**1056CST** **1059CST**	**0.8**	**75**	**0**	**0**	**500K**		**Tornado (F1)**
An F1 tornado touched down near the intersection of County Road 178 and State Highway 87. Several manufactured homes were damaged where the tornado first touched down. The tornado tracked northeast and crossed Highway 87 and caused only minor damage east of the highway. Near Highway 87 a home had most of the roof torn off. The roof of the home had reportedly been damaged, twice, by high winds associated with hurricanes Ivan and Dennis over the past year and a half. Both times the roof was repaired. No injuries were reported.									
Escambia County									
Belleview	**17**	**1050CST** **1054CST**			**0**	**0**	**10K**		**Thunderstorm Wind (G50)**
High winds from a thunderstorm blew down several trees and power lines near Belleview									
GEORGIA, East Central									
Burke County									
Midville	**02**	**2033EST**			**0**	**0**		**0**	**Thunderstorm Wind (G55)**
Fire Dept. reported trees down on hwy 192.									
GEORGIA, Lower									
Coffee County									
6 S Ambrose	**02**	**0630EST**			**0**	**0**			**Thunderstorm Wind (G50)**
One quarter of a tin roof ripped off of a seven stall house barn in Bridgetown along County Road 149									
Atkinson County									
Kirkland	**02**	**0730EST**			**0**	**0**			**Hail (1.00)**
Quarter sized hail north of Pearson.									
Appling County									
Countywide	**02**	**1100EST** **1310EST**			**0**	**0**			**Heavy Rain**
Heavy rainfall flooded and closed several dirt roads. Intersection of Cauley Rd and Highway 144 closed.									
Appling County									
Surrency	**02**	**1300EST**			**0**	**0**			**Hail (1.00)**
Clinch County									
Cogdell	**02**	**1345EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G45)**
Two (2) trees downed onto power lines.									
Ware County									
Waycross	**02**	**1400EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G40)**
Large billboard brought down and railroad crossing arm snapped by thunderstorm winds. Waycross Airport reported a gust to 41 mph as the storm moved over the area.									
Camden County									
St Marys	**13**	**1638EST**			**0**	**0**			**Hail (0.75)**
Camden County									
5 SE Woodbine	**13**	**2030EST** **2033EST**	**100**	**.1**	**0**	**0**	**200K**		**Tornado (F0)**
A weak F0 tornado touched down along I-95 about 5 miles southeast of Woodbine. Many trees were snapped off in a swath along									

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

GEORGIA, Lower

I-95. A tractor-trailer was lifted and blown off of the interstate along the southbound lanes. The driver sustained no reported injuries. The tractor-trailer was carrying other cars, which were damaged in the accident from colliding with each other. Another vehicle was hit by a snapped tree. This driver also sustained no reported injuries.

GEORGIA, North and Central

Fulton County

3 SE Newtown | **02** | **0835EST** | **1145EST** | **0** | **0** | **0.10K** | **Flash Flood**

The National Weather Service river gage on Crooked Creek along the Fulton/Gwinnett county line, or about 4 miles west-northwest of Norcross indicated that the river had exceeded flood stage at 8:35 AM EST and fell below flood stage at 11:45 am EST. No property damage was reported.

Gwinnett County

4 WNW Norcross | **02** | **0835EST** | **1145EST** | **0** | **0** | **0.10K** | **Flash Flood**

The National Weather Service river gage on Crooked Creek along the Fulton/Gwinnett county line, or about 4 miles west-northwest of Norcross indicated that the river had exceeded flood stage at 8:35 AM EST and fell below flood stage at 11:45 am EST. No property damage was reported.

Wilcox County

Pitts | **02** | **0930EST** | **0** | **0** | **25K** | **Lightning**

The Wilcox county cooperative observer reported that a lightning-related fire destroyed a mobile home.

Stewart County

2.5 SE Lumpkin | **02** | **1150EST** | **0** | **0** | **Hail (0.75)**

A corrections officer at the state prison facility near Westville reported penny-sized hail.

Webster County

5 W Preston | **02** | **1150EST** | **0** | **0** | **Hail (0.75)**

The Webster County Sheriff reported penny-sized hail near the Stewart county line, about five miles west of Preston.

Toombs County

5 WSW New Branch to 7 SW New Branch | **02** | **1214EST** | **1219EST** | **0** | **0** | **45K** | **Thunderstorm Wind (G50)**

A National Weather Service damage survey team in conjunction with the Toombs County Emergency Management Director reported that a bow echo of straight-line winds caused extensive damage in an area approximately 10 to 12 miles south of Lyons in southern Toombs county. Two trailer homes were destroyed and many trees and power lines were down in the area between Cedar Crossing and New Branch along and near U.S. Highway 1. While initially believed to have been a tornado, the damage survey concluded otherwise.

GAZ008 **Union**

02 | **1300EST** | **1500EST** | **0** | **0** | **0.50K** | **Strong Wind**

The public reported that strong winds blew down three trees in the Brasstown Valley area of northeast Union county, near Brasstown Bald.

Carroll County

Whitesburg to 6 NE Whitesburg | **02** | **1610EST** | **1618EST** | **0** | **0** | **Hail (1.00)**

The Carroll County Emergency Management Director reported quarter-sized hail

Douglas County

1 S Hannah | **02** | **1614EST** | **1615EST** | **0** | **0** | **Hail (0.75)**

The public reported penny-sized hail along Georgia Highway 5 near the Carroll county line and the community of Devils Den.

Heard County

Franklin to Aubrey | **02** | **1623EST** | **1630EST** | **0** | **0** | **Hail (1.00)**

The public reported penny to quarter-sized hail in Franklin and quarter-sized hail southwest of Franklin on U.S. Highway 219 near Aubrey.

Fulton County

Palmetto to College Park | **02** | **1630EST** | **1650EST** | **0** | **0** | **250K** | **Hail (2.00)**

The public reported two inch diameter hail in Palmetto and penny-sized hail in Fairburn. The Union City police reported quarter-sized hail in Union City. Finally, the public reported penny-sized hail in College Park

Coweta County

Dresden to 2 SW Newnan | **02** | **1635EST** | **1645EST** | **0** | **0** | **Hail (1.00)**

The Coweta County 911 Center reported quarter-sized hail in Dresden and the public reported quarter-sized hail just southwest of Newnan. Further east, an off duty National Weather Service employee reported pea-sized hail just east of Thomas Crossroads

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GEORGIA, North and Central									
Troup County									
Abbottsford to Mt Ville	**02**	**1640EST 1707EST**			**0**	**0**			**Hail (1.00)**
Reports of nickel to quarter-sized hail were received from the LaGrange area. The public reported golf ball-sized hail, while the Troup County 911 Center and the public reported quarter-sized hail. A storm spotter reported nickel-sized hail									
Fayette County									
3 N Tyrone	**02**	**1642EST 1645EST**			**0**	**0**			**Hail (0.75)**
The public reported penny-sized hail.									
Fulton County									
.5 ENE Palmetto to 4.5 E Palmetto	**02**	**1645EST 1656EST**	**4**	**440**	**0**	**0**	**250K**		**Tornado (F2)**
A damage survey team from the National Weather Service in Peachtree City concluded that an F2 tornado had touched down just east of Palmetto in the far southern portion of Fulton county near the Coweta and Fayette county borders. The tornado touched down near Interstate-85 and U.S. Highway 29 east of Palmetto and then traveled east into extreme northwest Fayette county. The tornado was rated an F2 and traveled a path of seven miles, of which approximately four miles occurred within Fulton county. The maximum path width was 1/4 mile wide. Roof damage was observed to a number of homes along the path of the tornado. At least six homes east of Palmetto had sustained major damage with large trees down on the structures. Additionally, a number of trees were down along the path along with several power lines. Specifically, the tornado began around 8225 Tatum Road. Numerous trees were down in this area and several homes had sustained roof damage. The chimney was destroyed on one home. The tornado then continued across the intersection of Johnson and Tatum Road to Gullatt Road. Several homes in this area had sustained roof damage and in fact, one home had completely lost its roof. Numerous trees were either uprooted or snapped off along the path and several power lines were down as well. From this point, the tornado traveled toward the intersection of Bohannon and Kirkley Roads. Damage in this section was less extensive with just minor roof damage and only a few trees uprooted or down in the area. The tornado then crossed into Fayette county.									
Cobb County									
Vinings	**02**	**1651EST**			**0**	**0**			**Hail (0.75)**
The public reported penny-sized hail.									
Fayette County									
4 WNW Lees Mill to 1 W Lees Mill	**02**	**1656EST 1702EST**	**3**	**440**	**0**	**0**	**2M**		**Tornado (F2)**
A damage survey conducted by the National Weather Service in Peachtree City Georgia and the Fayette County Emergency Management Director concluded that the F2 tornado, which originally developed in far south Fulton county just east of Palmetto continued into extreme northwest Fayette county. The overall tornado path length was seven miles, of which approximately three miles occurred within Fayette county. The maximum path width was 1/4 mile. The most significant damage associated with the tornado occurred in Fayette county. The tornado entered the county just south of Fairburn and just west of Georgia Highway 74 (Senoia Road) near Milam Road. In this area the tornado destroyed a small apartment home and rolled a hay baler approximately 15 yards from its origin. A number of trees were uprooted or snapped off in this area as well. The storm then skipped across Georgia Highway 74 just south of the Wendell Coffee Golf Center into the River Oaks Subdivision. A home on Westbourne Drive next to the Golf Center was damaged with trees down on the structure. A metal awning was also torn off the home. Further down the street, also in the River Oaks Subdivision, a large home was damaged beyond repair and about six others sustained minor to moderate damage, mainly to the roofs of the structures. While one family was trapped in their home during the event, they were rescued without injury. The tornado ended in the 600 block of Westbourne Drive in the River Oaks Subdivision.									
Fulton County									
3 SW College Park	**02**	**1702EST 1712EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
The public reported that a number of trees were blown down.									
Clayton County									
Riverdale to Lovejoy	**02**	**1705EST 1722EST**			**0**	**0**	**2M**		**Hail (1.75)**
Numerous reports of large hail were received from the public in Jonesboro, Morrow, Rex, and Lovejoy. Golf ball-sized hail was reported by a storm spotter and also by the Clayton County 911 Center in Jonesboro. The public reported quarter-sized hail in Morrow and Jonesboro. A storm spotter reported quarter-sized hail in the Rex area near the intersection of U.S. Highway 23 and Interstate-675 and the public reported quarter-sized hail in Lovejoy. Another individual reported observing penny-sized hail on Interstate-285 just south of Hartsfield-Jackson International Airport									
Fulton County									
Alpharetta	**02**	**1712EST**			**0**	**0**			**Hail (0.75)**
The public reported penny-sized hail.									

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

GEORGIA, North and Central

Pike County

1 SE Hollonville to	**02**	**1712EST**	**3**	**440**	**0**	**3**	**750K**		**Tornado (F3)**
4 ESE Hollonville		**1718EST**							

A damage survey conducted by the National Weather Service and confirmed by Emergency Managers from both Pike and Meriwether counties concluded that an F3 tornado touched down one mile southeast of Hollonville in northwest Pike county and traveled east for approximately 3 miles, terminating at a point about 4 miles east-southeast of Hollonville in north central Pike county. Five homes along the path were extensively damaged or destroyed. One home was moved 60 feet from its foundation. Two vehicles were thrown 250 yards. Several farm structures were also damaged in the area. A number of trees and power lines were also down in the area. Three injuries were reported during the event. Two men that were working in a barn were injured when the tornado blew the barn away. A third man was injured while clinging to a fence post that the tornado ripped from the ground. The tornado had an overall path length of 3 miles with a path width of 1/4 mile. One interesting note is that family photographs from one of the homes destroyed near Hollonville were found as far away as Williamson, near the Spalding county line.

Spalding County

Griffin to	**02**	**1715EST**			**0**	**0**			**Hail (0.75)**
Orchard Hill		**1740EST**							

The public reported penny-sized hail.

Meriwether County

2 N Greenville to	**02**	**1718EST**			**0**	**0**	**300K**		**Hail (1.75)**
2 S Gay		**1737EST**							

The Meriwether County 911 Center and Emergency Management Director reported golf ball-sized hail just north of Greenville, while the public reported penny-sized hail near Gay.

Henry County

1 WSW Stockbridge to	**02**	**1722EST**			**0**	**0**			**Hail (1.25)**
Stockbridge		**1730EST**							

The public reported half-dollar-sized hail.

De Kalb County

1 SE Chamblee	**02**	**1731EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
		1735EST							

The public reported that several trees were blown down and a number of shingles were displaced from a roof on Cardinal Drive in Tucker. The public also reported that a considerable amount of leaf and pine cone debris was found in the area

Lamar County

3 NNE Milner to	**02**	**1737EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
3 NE Milner		**1740EST**							

A damage survey conducted by the National Weather Service concluded that straight-line thunderstorm wind damage had blown down a number of trees in north central Lamar county about two miles southeast of Orchard Hill. The parent thunderstorm that caused this damage had earlier spawned an F3 tornado in northern Pike county and shortly after this damage near Orchard Hill occurred spawned an F0 tornado in northeast Lamar county near Chappel.

Gwinnett County

Lilburn to	**02**	**1740EST**			**0**	**0**			**Hail (1.00)**
1 S Lawrenceville		**1757EST**							

The public reported penny to quarter-sized hail.

Pike County

Molena to	**02**	**1740EST**			**0**	**0**	**400K**		**Hail (2.75)**
Lifsey		**1748EST**							

The public reported golf ball to softball-sized hail in the southwest part of Pike county near Molena. This hail was caused by a different thunderstorm from the one that spawned the F3 tornado in northern Pike southeast of Hollenville earlier. The thunderstorm that caused the large hail in southwest and south central Pike county was a separate supercell thunderstorm moving east across the southern part of the county.

Lamar County

3 SW Chappel to	**02**	**1744EST**	**0.2**	**50**	**0**	**0**	**2K**		**Tornado (F0)**
2.8 SW Chappel		**1745EST**							

A damage survey conducted by the National Weather Service concluded that a brief F0 tornado had touched down about three miles southwest of Chappel or six miles north-northeast of Barnesville and traveled on the ground eastward for an approximate distance of 300 yards or 0.2 mile. The tornado path width was 50 yards. A number of trees were snapped or toppled along the path, but no damage to structures was reported. This tornado was produced from the same supercell thunderstorm that had earlier spawned an F3 tornado in Pike county.

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

GEORGIA, North and Central

Henry County

3 N Mc Donough to	**02**	**1748EST**	**0.6**	**300**	**0**	**0**	**500K**		**Tornado (F1)**
3 NNE Mc Donough		**1749EST**							

A damage survey conducted by the National Weather Service and information provided by the Henry County Emergency Management Director concluded that an F1 tornado had touched down three miles north of McDonough on Turner Circle Road and traveled approximately 1000 yards or about 0.6 mile to the east. The tornado had a path width of 300 yards at its maximum point. Damage was reported to several homes on Waterford Lane in the Vineyards Subdivision, which is located near the intersection of Jodeco Road and Georgia HIghway 42. At least eight trees were down on one home on Turner Circle and a small storage building was destroyed. The home suffered considerable damage on one side. Several structures being used as a religious retreat or campground were also heavily damaged. A motel in the area also suffered damage to a sign and the portico. In addition, numerous trees were either uprooted or snapped off along the path of the tornado.

Monroe County

High Falls to	**02**	**1751EST**			**0**	**0**	**100K**		**Hail (1.75)**
Berner		**1806EST**							

The Monroe County Emergency Management Director reported golf-ball sized hail across much of the northern part of the county.

Lamar County

1 W Barnesville to	**02**	**1755EST**			**0**	**0**			**Hail (1.00)**
Redbone		**1806EST**							

The Lamar County 911 Center reported quarter-sized hail.

Henry County

Mc Donough	**02**	**1757EST**			**0**	**0**	**0.50K**		**Lightning**

The Henry County 911 Center reported that lightning struck a house on Waterfront Street. Damage was minimal and no fire occurred.

Monroe County

Brent to	**02**	**1810EST**			**0**	**0**	**300K**		**Hail (1.75)**
4 ESE Bolingbroke		**1837EST**							

The Monroe County Emergency Management Director reported golf ball-sized hail across much of the southern part of the county.

Jasper County

Hillsboro	**02**	**1827EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G39)**

The Jasper County Emergency Managment Director reported that a few trees were blown down near Hillsboro in the Oconee National Forest area.

Monroe County

Bolingbroke	**02**	**1832EST**			**0**	**0**			**Thunderstorm Wind (G50)**
		1837EST							

The Monroe County Emergency Management Director reported that several large trees were down in the Bolingbroke area.

Monroe County

1 W Forsyth to	**02**	**1832EST**			**0**	**0**			**Hail (0.75)**
4 SE Forsyth		**1841EST**							

The Monroe County 911 Center reported penny-sized hail.

Jones County

Wayside to	**02**	**1835EST**	**3**	**300**	**0**	**0**	**150K**		**Tornado (F1)**
Bradley		**1840EST**							

A storm survey conducted by the National Weather Service concluded that an F1 tornado had touched down near the town of Wayside and roughly paralleled Georgia Highway 11 from there to the town of Bradley. The tornado had a path length of three miles with a path width of 300 yards at its maximum point. Four buildings, including a barn and machine shop, were destroyed and a double wide mobile home sustained considerable damage. At least six other mobile homes were severely damaged along the path of the tornado, two of which were on Wheeler Road near Bradley. A number of trees were uprooted and snapped off along the path as well. A large pine tree fell across and destroyed two vehicles on Wheeler Road.

Bibb County

5 NW Macon to	**02**	**1837EST**			**0**	**0**	**100K**		**Hail (1.75)**
5 NNW Macon		**1840EST**							

The public reported golf ball-sized hail.

Bibb County

8 NW Macon to	**02**	**1837EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G39)**
Dry Branch		**1901EST**							

The Bibb County Emergency Management Director reported that a few trees were down across the eastern portion of the county.

Jones County

9 WSW Clinton to	**02**	**1841EST**			**0**	**0**	**100K**		**Hail (2.75)**
8 SW Clinton		**1846EST**							

WXGA Television of Macon, Georgia broadcast a report from the public of baseball size hail in southwest Jones county, six to eight miles north-northeast of Macon. A number of vehicles sustained damage in the area.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GEORGIA, North and Central									
Baldwin County									
4 NW Browns Crossing	**02**	**1850EST**			**0**	**0**			**Hail (0.88)**
3 SE Milledgeville		**1906EST**							
The Baldwin County Emergency Management Director reported nickel-sized hail, while the Baldwin County 911 Center reported penny-sized hail.									
Twiggs County									
6 NNW Myricks Mill t	**02**	**1901EST**			**0**	**0**	**50K**		**Thunderstorm Wind (G52)**
5 NNW Myricks Mill		**1906EST**							
The Twiggs County 911 Center reported that a number of trees were down in the extreme north part of the county near the Jones county line, about five miles northeast of Dry Branch. One tree had fallen through the roof of a home.									
Baldwin County									
Milledgeville to	**02**	**1906EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G45)**
9 ESE Milledgeville		**1915EST**							
The Baldwin County Emergency Management Director reported that three to four trees and one power line were down in the eastern portion of the county.									
Wilkinson County									
4 NW Mc Intyre to	**02**	**1914EST**			**0**	**0**			**Hail (1.00)**
2 NW Mc Intyre		**1917EST**							
The public reported quarter-sized hail.									
Wilkinson County									
Toomsboro	**02**	**1929EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G39)**
		1934EST							
The Wilkinson County Emergency Management Director reported that a few trees were blown down in the Toomsboro area.									
Washington County									
Oconee	**02**	**1939EST**			**0**	**0**			**Hail (1.00)**
		1940EST							
The Georgia Emergency Management Agency relayed a report of quarter-sized hail in Oconee.									
Baldwin County									
Milledgeville	**02**	**2015EST**			**0**	**0**			**Hail (0.75)**
		2022EST							
The Baldwin County 911 Center reported penny-sized hail.									
Johnson County									
5 N Kite to	**02**	**2022EST**	**5**	**440**	**0**	**0**	**250K**		**Tornado (F1)**
4 ENE Kite		**2031EST**							
A damage survey conducted by the National Weather Service and the Johnson County Emergency Management Director concluded that an F1 tornado had touched down approximately five miles north of Kite near the intersection of U.S. Highway 221 and U.S. Highway 319 and traveled east-southeast to a point four miles east-northeast of Kite. The tornado than continued into Emanuel county. The damage path within Johnson county was approximately five miles long and 1/4 mile wide. Overall, the tornado traveled a 12 mile long path across Johnson and Emanuel counties. Near the tornado's touchdown point, siding was blown off the Gum Log Church. Then, six homes along the path of the tornado sustained damage from downed trees. In addition, a couple of silos were destroyed and several vehicles were damaged.									
Jefferson County									
1 S Wadley	**02**	**2027EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
		2030EST							
The Georgia State Patrol reported that several trees were down on U.S. Highway 1 just wouth of Wadley.									
Johnson County									
Kite	**02**	**2030EST**			**0**	**0**			**Hail (0.75)**
The public reported penny-sized hail.									
Emanuel County									
4 WSW Blundale to	**02**	**2031EST**	**7**	**440**	**0**	**0**	**50K**		**Tornado (F1)**
2 S Summertown		**2040EST**							
A damage survey conducted by the National Weather Service concluded that the tornado, which began in Johnson county northwest of Kite, continued on an east-southeastward track across northern Emanuel county. The tornado entered the county four miles east-northeast or Kite or four miles west-southwest of Blundale and traveled a distance of approximately seven miles across the northern portion of the county, terminating approximately two miles south of Summertown. The tornado path length within Emanuel county was seven miles while the path width was approximately 1/4 mile. The overall path length of the tornado for Johnson and Emanuel counties combined was 12 miles. A number of trees and power lines were down along the path of the tornado, especially along U.S. Highway 1 between the Johnson county line and Summertown. One home also sustained damage in this area.									

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

GEORGIA, North and Central

GAZ008>009-015>016 — **Union - Towns - Lumpkin - White**

	14	**0000EST** **1000EST**			**0**	**0**		**Winter Weather**

Strong low-level cold advection behind a strong cold front that moved through the area the evening before brought snow showers to the northeast Georgia mountains. With surface temperatures only in the low to mid 30s in this area, snowfall was confined to the higher elevations only, mainly those elevations above 2500 feet. The Union County Emergency Management Director reported that 1.5 inches of snow fell in the Suches area.

GAZ014>016 — **Dawson - Lumpkin - White**

	14	**0900EST** **1900EST**			**0**	**0**	**130K**	**High Wind (G50)**

A strong cold front and closed upper low brought very strong northwest winds to North Georgia. Measured wind speeds were sustained in the 30 to 40 mph range with a few gusts in excess of 50 mph. Higher elevations likely experienced even higher wind speeds. Most of the high wind criteria was met during the 9 am to noon EST period, with strong wind criteria for the afternoon and evening hours. Below are some of the specific damages reported with this event:

Dawson county - Numerous trees and power lines down throughout the county. The city of Dawsonville was left without power for an extended period of time (reported by 911 center). Wind gusts to 43 mph observed on the north side of the county and 22 mph on the south side of the county.

Lumpkin county - Numerous trees and power lines down throughout the county (reported by 911 center). Wind gust to 51 mph reported in Dahlonega.

White county - Numerous trees and power lines down throughout the county. A number of roads were blocked and had to be closed. At least ten 100 foot pine trees were down near Yonah in central White county, one of which fell over the roof of a home. In addition, the city of Cleveland was left without power for at least 30 minutes (reported by 911 center).

GAZ007>008 — **Gilmer - Union**

	14	**0900EST** **1900EST**			**0**	**0**	**2K**	**Strong Wind**

A strong cold front and closed upper low brought very strong northwest winds to North Georgia. Measured wind speeds were sustained in the 20 to 30 mph range with gusts in excess of 40 mph. Higher elevations likely experienced even higher wind speeds. Below are some of the specific damages reported with this event:

Gilmer county - A couple of trees were blown down within the county. Ellijay measured a wind gust of 26 mph, but is located in a valley (reported by the 911 center).

Union county - Six to eight trees reported down in the Suches area, where winds gusted in the 30 to 35 mph range (reported by the Emergency Management Director).

GAZ082 — **Bibb**

	17	**1430EST** **1445EST**			**0**	**0**	**15K**	**Strong Wind**

The public reported that a large 1.5 foot diameter pine tree was blown down by strong gradient winds ahead of a cold front. The tree fell across and damaged two fences and one vehicle.

Fulton County

3 SE Newtown	**23**	**1308EST** **1755EST**			**0**	**0**	**0.10K**	**Flash Flood**

Official National Weather Service river gage readings indicated that Crooked Creek along the Gwinnett/Fulton county line just south-southeast of Newton reached flood stage of 9.0 feet at 108 pm EST, crested at 10.6 feet at 230 pm EST, and then fell below flood stage at 550 pm EST. This creek is in an urbanized area and the area is subject to flash flooding from the creek during periods of heavy rainfall. Rainfall on the order of 2.0 inches or more fell across the area from late morning through mid-afternoon. The ground was already saturated from previous heavy rains in recent weeks. The flooding was basically a nuisance and no damage was reported to any property in the area.

Gwinnett County

4 WNW Norcross	**23**	**1308EST** **1755EST**			**0**	**0**	**0.10K**	**Flash Flood**

Official National Weather Service river gage readings indicated that Crooked Creek along the Gwinnett/Fulton county line just south-southeast of Newton reached flood stage of 9.0 feet at 108 pm EST, crested at 10.6 feet at 230 pm EST, and then fell below flood stage at 550 pm EST. This creek is in an urbanized area and the area is subject to flash flooding from the creek during periods of heavy rainfall. Rainfall on the order of 2.0 inches or more fell across the area from late morning through mid-afternoon. The ground was already saturated from previous heavy rains in recent weeks. The flooding was basically a nuisance and no damage was reported to any property in the area.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GEORGIA, Northeast									
GAZ010-017	**Rabun - Habersham**								
	14	**0800EST**			**0**	**0**			**High Wind (G60)**
	15	**0200EST**							
	Strong winds developed behind a cold front across the mountains of Georgia during the late morning, and continued through the remainder of the day. There was widespread damage to trees and power lines, with quite a few power outages								
GAZ010	**Rabun**								
	25	**0200EST**			**0**	**0**			**High Wind (G55)**
		0900EST							
	High winds developed across the mountains during the overnight hours, and continued through about mid morning. Scattered to widespread tree damage occurred, with scattered power outages.								
GEORGIA, Southeast									
Tattnall County									
3 N Reidsville to Collins	**02**	**1232EST**			**0**	**0**	**55K**		**Thunderstorm Wind (G60)**
		1237EST							
	Thunderstorm winds knocked a roof off a house just north of Reidsville and knocked 2 roofs off houses and destroyed sheds in Collins. Trees were also blown down in Collins.								
Bulloch County									
4 NW Stilson	**02**	**1310EST**			**0**	**0**			**Hail (0.75)**
Effingham County									
Pineora	**02**	**1321EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G50)**
	Thunderstorm winds knocked down several large limbs.								
Effingham County									
Rincon	**02**	**1332EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
	Thunderstorm winds ripped a tin roof off a shed and blew a trampoline across Old River Road.								
Effingham County									
Meldrim	**02**	**1344EST**			**0**	**0**	**3K**		**Thunderstorm Wind (G50)**
		1346EST							
	Thunderstorm winds caused roof damage to a home.								
Tattnall County									
Glennville	**02**	**1654EST**			**0**	**0**			**Hail (0.75)**
		1656EST							
Evans County									
8 SE Claxton	**02**	**1705EST**			**0**	**0**			**Hail (1.00)**
		1710EST							
Bryan County									
Pembroke	**02**	**1709EST**			**0**	**0**			**Hail (0.75)**
		1712EST							
Effingham County									
Rincon	**02**	**1723EST**			**0**	**0**			**Hail (0.75)**
		1725EST							
Jenkins County									
Butts	**02**	**2110EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G55)**
		2115EST							
	Thunderstorm winds knocked down several trees.								
Jenkins County									
10 S Millen	**02**	**2115EST**	**0.1**	**25**	**0**	**0**	**50K**		**Tornado (F0)**
	A tornado briefly touched down severely damaging a mobile home, causing minor damage to another mobile home, and knocking down trees.								
Jenkins County									
Scarboro	**02**	**2125EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G55)**
		2129EST							
	Thunderstorm winds knocked down trees off Old Savannah Road.								
Screven County									
8 NNE Sylvania to 2 NE Rocky Ford	**02**	**2125EST**			**0**	**0**	**15K**		**Thunderstorm Wind (G50)**
		2130EST							
	Thunderstorm winds knocked a tree down into a house north of Sylvania and knocked down several trees near Rocky Ford.								
GEORGIA, Southwest									
Decatur County									
15 NE Bainbridge	**02**	**0045EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G55)**
	Decatur County 911 reported a few downed trees and power lines.								

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GEORGIA, Southwest									
Grady County									
Northeast Portion	**02**	**0100EST** **0105EST**			**0**	**0**	**25K**		**Thunderstorm Wind (G60)**
On Womble Road, one house had a portion of its roof blown off and chimney damaged. A metal carport was blown about 500-600 yards from home and a large oak tree was snapped. A barn had half its roof peeled off. A nearby pole barn was severely damaged. On Ridge Road, trees were snapped and an irrigation system was twisted and overturned. Reported by the Grady County EMA									
Mitchell County									
Camilla	**02**	**0900EST** **1300EST**			**0**	**0**	**50K**		**Flood**
Four to eight inches of rain within a 12-hour period caused flooding of many streets, intersections and low-lying areas. Several houses were surrounded by water, with some flooded on Church Street. Reported by the Camilla Enterprise.									
Tift County									
Countywide	**02**	**1300EST** **1500EST**			**0**	**0**	**50K**		**Flood**
Five inches of rain within a six-hour period caused flooding and forced road closures throughout the county. One of the more dramatic scenes of flooding was between a restaurant and motel on U.S. Highway 82 East, where the parking lot was washed away. Torrents of water from a nearby creek flooded some rooms of the motel. Many county roads were barricaded by deputies and road crews until the water receded. Reported by the Tifton Gazette.									
Brooks County									
7 S Quitman	**02**	**1422EST** **1423EST**			**0**	**0**			**Funnel Cloud**
A SKYWARN storm spotter reported a funnel cloud on Highway 333.									
Clay County									
Bluffton	**13**	**1405EST** **1407EST**			**0**	**0**	**25K**		**Thunderstorm Wind (G55)**
Several public reports of downed trees and minor damage to homes.									
Clay County									
Southeast Portion	**13**	**1410EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Several downed trees along Highway 39 reported by the Clay County Sheriff.									
Early County									
9 NW Blakely	**13**	**1410EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
A few downed trees reported by the Early County Sheriff. One tree fell on a vehicle on Highway 39.									
Mitchell County									
Pelham	**13**	**1500EST**			**0**	**0**	**5K**		**Lightning**
A lightning bolt struck the ground outside a fast-food restaurant, and knocked out the telephone system and seared the transformer which operates the drive-through system. It left a large hole in the ground and shattered the pipe connected to the sprinkler system.									
Colquitt County									
1.5 SE Norman Park to 10 NE Norman Park	**13**	**1615EST** **1630EST**	**9.6**	**100**	**0**	**1**	**2M**		**Tornado (F1)**
A tornado touched down along Perry Batts Road near Norman Park and traveled northeast. It destroyed two chicken houses at the International Poultry Breeders, killing 5,000 chickens and condemning another 15,000. The tornado sideswiped a restaurant, but snapped off several large pines around the building. One tree fell through the roof. A small shelter on the property was destroyed. Over open fields, several metal sheds were damaged or destroyed, and irrigation pivots were overturned. Five homes were destroyed, eight received heavy damage, and seven sustained moderate damage. Many power poles were toppled. A man suffered scratches to his left arm after part of the ceiling of his mobile home collapsed on him. The tornado lifted over Lanyer Sumner Road near the Colquitt-Cook county line. Damage survey provided by a SKYWARN storm spotter.									
Grady County									
Cairo	**30**	**2110EST** **2120EST**			**0**	**0**	**150K**		**Thunderstorm Wind (G60)**
Straight-line winds whipped through the Cairo Country Club area, uprooting and snapping off pine trees, and downing power lines. In the new neighborhood of Hawthorne Trails, the winds destroyed 60 percent of the wood trusses of a frame house. The storm then moved across Lake Jenna and dissipated before reaching Sutton Mill Road NW. About 35 homes in the country club area were without power for nearly four hours. Damage to homes was minimal. Reported by the Grady County EMA.									
GULF OF MEXICO									
Pascagoula Ms To Sw Pass Of Ms R 20 To 60Nm									
45 E Venice	**01**	**1534CST**			**0**	**0**			**Marine Tstm Wind**

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GULF OF MEXICO									
Destin To Pensacola Fl Out 20Nm									
Destin to	**02**	**0730CST**			**0**	**0**			**Marine Tstm Wind**
10 S Destin		**0735CST**							
Destin To Pensacola Fl 20 To 60Nm									
30 S Destin to	**02**	**0730CST**			**0**	**0**			**Marine Tstm Wind**
50 S Destin		**0735CST**							
Pensacola Fl To Pascagoula Ms Out 20Nm									
15 S Dauphin Island to	**13**	**0825CST**			**0**	**0**			**Marine Tstm Wind**
20 S Dauphin Island		**0830CST**							
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
20 S Dauphin Island to	**13**	**0825CST**			**0**	**0**			**Marine Tstm Wind**
30 S Dauphin Island		**0830CST**							
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm									
22 SSE Biloxi	**13**	**0848CST**			**0**	**0**			**Marine Tstm Wind**
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm									
22 SSE Biloxi	**13**	**0916CST**			**0**	**0**			**Marine Tstm Wind**
Mobile Bay									
Pinto Island	**13**	**0955CST**			**0**	**0**			**Marine Tstm Wind**
		0959CST							
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island	**13**	**1200CST**			**0**	**0**			**Marine Tstm Wind**
		1205CST							
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
20 S Dauphin Island to	**13**	**1200CST**			**0**	**0**			**Marine Tstm Wind**
40 S Dauphin Island		**1205CST**							
Matagorda Ship Chnl To Pt Aransas Out 20Nm									
Port O'Connor	**16**	**2006CST**			**0**	**0**			**Marine Tstm Wind**
		Measured by nearby Port O'Connor TCOON.							
Pt O'Connor To Aransas Pass									
Port O'Connor	**16**	**2006CST**			**0**	**0**			**Marine Tstm Wind**
		Measured by Port O'Connor TCOON.							
Corpus Christi To Baffin Bay									
Baffin Bay	**16**	**2012CST**			**0**	**0**			**Marine Tstm Wind**
		Measured by Baffin Bay TCOON.							
Matagorda Ship Chnl To Pt Aransas Out 20Nm									
Port Aransas	**16**	**2018CST**			**0**	**0**			**Marine Tstm Wind**
		Measured by nearby PTAT2 CMAN station.							

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
GULF OF MEXICO									
Pt Aransas To Baffin Bay Tx Out 20Nm									
8 SE Port Aransas	**16**	**2018CST**			**0**	**0**			**Marine Tstm Wind**
	Measured by RTNS Offshore TCOON site.								
Pt Aransas To Baffin Bay Tx Out 20Nm									
Port Aransas	**16**	**2018CST**			**0**	**0**			**Marine Tstm Wind**
	Measured by PTAT2 CMAN station.								
Corpus Christi To Baffin Bay									
South Bird Island	**16**	**2030CST**			**0**	**0**			**Marine Tstm Wind**
	Measured by S. Bird Island TCOON.								
Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm									
60 SE Port O'Connor	**16**	**2200CST** **2226CST**			**0**	**0**			**Marine Tstm Wind**
	Estimated from nearby Buoy 42019.								
Pt Aransas To Baffin Bay Tx 20 To 60Nm									
40 E Baffin Bay	**16**	**2200CST**			**0**	**0**			**Marine Tstm Wind**
	Estimated from nearby Buoy 42020.								
High Is To Freeport Tx Out 20Nm									
Pleasure Pier	**16**	**2200CST**			**0**	**0**			**Marine Tstm Wind**
	Measured at Pleasure Pier PORTS.								
Cameron La To High Is Tx 20 To 60Nm									
28 S Mouth Of Sabine I	**16**	**2245CST**			**0**	**0**			**Marine Tstm Wind**
	An offshore oil rig recorded 52 kt wind gust.								
Cameron La To High Is Tx Out 20Nm									
17 SE Mouth Of Sabine	**16**	**2246CST**			**0**	**0**			**Marine Tstm Wind**
	An offshore oil rig recorded 43 kt wind gust.								
HAWAII									
HIZ001>003-006>008-012>014-016>017-019>020-023-026	**Niihau - Kauai Windward - Kauai Leeward - Waianae Coast - Oahu North Shore - Oahu Koolau - Molokai Windward - Molokai Leeward - Lanai Makai - Kahoolawe - Maui Windward West - Maui Central Valley - Windward Haleakala - Kona - Kohala**								
	01 **02**	**0000HST** **1500HST**			**0**	**0**			**Heavy Surf/High Surf**
	A series of deep lows northwest of the state produced surf of 14 to 20 feet along the north-facing shores, and 10 to 15 feet along the west-facing shores, of Niihau, Kauai, Oahu, and Molokai; 14 to 20 feet along the north-facing shores of Maui; and 10 to 15 feet along the west-facing shores of Lanai, Kahoolawe, and the Big Island of Hawaii. This entry is a continuation of an event that had begun on Dec. 23, 2005. Several beaches were closed on the west side of the Big Island, mainly from Dec. 31 through Jan. 2, because of the hazardous surf conditions. However, no significant injuries or property damage were reported								
HIZ002	**Kauai Windward**								
	03	**1215HST** **1800HST**			**0**	**0**			**Wildfire**
	A fire burned 200 acres of mainly brush near Hanamaulu, north of Lihue, on the isle of Kauai. The blaze would have threatened an elementary school and several homes if it had not been contained when it was. One small business was evacuated near the fire as a precaution. Smoke and debris forced officials to close Kapule Highway for a several hours in Hanamaulu, which snarled traffic to as far north as Wailua and as far south as Lihue. The cause of the fire was unknown. There were no serious injuries or property damage reported.								
HIZ006	**Waianae Coast**								
	03 **04**	**1900HST** **1730HST**			**0**	**0**			**Wildfire**
	A fire consumed about 500 acres of brush and grass near Kili Drive in Makaha on the island of Oahu. The fire scorched a remote, mile-long, area on the west side of Makaha Valley. Officials suspected that the blaze had been deliberately set. There were no								

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

HAWAII

reports of serious property damage or injuries.

HIZ001>003-007>009-012>013-017-019>020-025 — **Niihau - Kauai Windward - Kauai Leeward - Oahu North Shore - Oahu Koolau - Olomana - Molokai Windward - Molokai Leeward - Maui Windward West - Maui Central Valley - Windward Haleakala - Big Island North And East**

04	**0700HST**	**0**	**0**			**Heavy Surf/High Surf**
05	**2000HST**					

A storm low north/northwest of the islands generated surf of 10 to 20 feet along the north-facing shores of Niihau, Kauai, Oahu, Molokai, Maui, and the Big Island of Hawaii. No significant injuries or property damage were reported.

HIZ002-008>009-012-017-019>020-024>025 — **Kauai Windward - Oahu Koolau - Olomana - Molokai Windward - Maui Windward West - Maui Central Valley - Windward Haleakala - South Big Island - Big Island North And East**

06	**1000HST**	**0**	**0**			**Heavy Surf/High Surf**
14	**1800HST**					

A trade wind swell caused surf of 5 to 9 feet along the east-facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island of Hawaii. There were no reports of serious property damage or injuries.

HIZ001>003-006>008-012>013-017-019>020-025 — **Niihau - Kauai Windward - Kauai Leeward - Waianae Coast - Oahu North Shore - Oahu Koolau - Molokai Windward - Molokai Leeward - Maui Windward West - Maui Central Valley - Windward Haleakala - Big Island North And East**

16	**0500HST**	**0**	**0**			**Heavy Surf/High Surf**
18	**1000HST**					

A low northwest of the Aloha State generated surf of 12 to 18 feet along the north-facing shores, and 8 to 12 feet along the west-facing shores, of Niihau, Kauai, Oahu, and Molokai; and 12 to 18 feet along the north-facing shores of Maui and the Big Island of Hawaii. No serious property damage or injuries were reported.

HIZ002-008>009-012-017-019>020-024>025 — **Kauai Windward - Oahu Koolau - Olomana - Molokai Windward - Maui Windward West - Maui Central Valley - Windward Haleakala - South Big Island - Big Island North And East**

20	**0800HST**	**0**	**0**			**Heavy Surf/High Surf**
27	**1200HST**					

A trade wind swell produced surf of 6 to 12 feet along the east-facing shores of Kauai, Oahu, Molokai, Maui, and the Big Island of Hawaii. There were no reports of significant injuries or property damage.

HIZ001>003-006>008-012>013-019>020 — **Niihau - Kauai Windward - Kauai Leeward - Waianae Coast - Oahu North Shore - Oahu Koolau - Molokai Windward - Molokai Leeward - Maui Central Valley - Windward Haleakala**

21	**0600HST**	**0**	**0**			**Heavy Surf/High Surf**
	2200HST					

A fast-moving low northwest of the island chain caused surf of 12 to 16 feet along the north-facing shores, and 8 to 12 feet along the west-facing shores, of Niihau, Kauai, Oahu, and Molokai; and 12 to 16 feet along the north-facing shores of Maui. There were no reports of serious property damage or injuries.

HIZ023 — **Kona**

21	**1640HST**	**0**	**0**		**50K**	**Wildfire**
25	**1400HST**					

A fire torched more than 600 acres of brush and grassland on the lee side of the Big Island of Hawaii, about 2.5 miles south of Puuanahulu or 14 miles northeast of Kailua-Kona. The blaze was likely started by lightning. The fire apparently damaged crops or valuable plants in the area, but fire officials did not specify exactly what was lost that was worth around $50 thousand. Finally, there were no serious injuries reported.

Honolulu County

Kahuku to 2.5 S Waikane	**22**	**0552HST**	**0**	**0**			**Heavy Rain**
		0830HST					

Heavy showers caused ponding of roadways, and small stream and drainage ditch flooding in windward sections of Oahu. No serious property damage or injuries were reported.

Honolulu County

Kahuku to Kaneohe	**22**	**1705HST**	**0**	**0**			**Heavy Rain**
		1950HST					

Heavy showers once again produced small stream and drainage ditch flooding, and ponding of roadways in windward parts of Oahu. There were no reports of serious injuries or property damage.

Honolulu County

Mililani Town to Honolulu	**22**	**2200HST**	**0**	**0**			**Heavy Rain**
	23	**0400HST**					

Heavy showers in central, eastern, and southern areas of Oahu caused ponding on roadways, and small stream and drainage ditch flooding. No serious property damage or injuries were reported.

Hawaii County

Waikoloa Village to Puuanahulu	**22**	**2228HST**	**0**	**0**			**Heavy Rain**
	23	**0100HST**					

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

HAWAII

Heavy showers produced small stream and drainage ditch flooding, and ponding of roadways on the lee side of the Big Island of Hawaii. No serious injuries or property damage were reported.

Kauai County

Hanalei to Kilauea	**23**	**0550HST 0845HST**		**0**	**0**			**Heavy Rain**

Heavy showers caused ponding of roadways, and small stream and drainage ditch flooding in northern sections of Kauai. However, there were no reports of significant property damage or injuries.

Hawaii County

Kamuela to Naalehu	**23**	**1315HST 1740HST**		**0**	**0**			**Heavy Rain**

Heavy showers over the northern, eastern, and southern parts of the Big Island of Hawaii caused small stream and drainage ditch flooding, and ponding of roadways. There were no reports of serious injuries or property damage

Maui County

Ulupalakua to Makena	**23**	**1450HST 1615HST**		**0**	**0**			**Heavy Rain**

Heavy showers over the southwest-facing slopes of Haleakala in East Maui, to the coast near Makena, brought ponding of roadways, and small stream and drainage ditch flooding. There were no reports of significant property damage or injuries, however

Hawaii County

Hawaiian Ocean Vw Est	**23**	**2000HST 2200HST**		**0**	**0**			**Heavy Rain**

Heavy showers caused ponding on roadways, and small stream and drainage ditch flooding in extreme southern parts of the Big Island of Hawaii, in the Kau District. No serious injuries or property damage were reported.

HIZ028 **Big Island Summit**

	25	**1552HST**		**0**	**0**			**Winter Weather/Mix**
	27	**0359HST**						

An upper trough moving over the Hawaiian Islands helped generate several inches, and in some places up to a foot, of snow at and just below the summits of Mauna Kea and Mauna Loa on the Big Island of Hawaii. The wintry weather and cloud cover became problems for the astronomers at the observatories on these volcanic mountains. The scientists lost two days of work because of the situation. The road to the summits also was closed for a time because of ice and snow. However, there were no reports of serious injuries or property damage.

Hawaii County

Kamuela to Hawaiian Ocean Vw Est	**25** **26**	**1603HST 1023HST**		**0**	**0**			**Heavy Rain**

Heavy showers and isolated thunderstorms produced small stream and drainage ditch flooding, and ponding on roadways in the eastern half of the Big Island of Hawaii. No serious injuries or property damage were reported.

Hawaii County

Pahala to Naalehu	**26**	**1018HST 2242HST**		**0**	**0**			**Flash Flood**

Heavy showers caused the Hilea Stream to overflow its banks and flood an area of Highway 11, the Hawaii Belt Road, near Kawa Flats between Pahala and Naalehu in the Kau District on the Big Island of Hawaii. The road was closed for about 3.5 hours, but the closure snarled traffic for a longer period of time. However, no serious property damage or injuries were reported

Honolulu County

Makakilo City to Maunawili	**26**	**1533HST 1709HST**		**0**	**0**			**Heavy Rain**

Heavy showers over the southern quarter of the isle of Oahu produced ponding on roadways, and small stream and drainage ditch flooding. However, there were no reports of significant property damage or injuries.

HIZ001>003-006>009-012>013-017-019>020 **Niihau - Kauai Windward - Kauai Leeward - Waianae Coast - Oahu North Shore - Oahu Koolau - Olomana - Molokai Windward - Molokai Leeward - Maui Windward West - Maui Central Valley - Windward Haleakala**

	28	**0700HST 1600HST**		**0**	**0**			**Heavy Surf/High Surf**

A low northwest of the state generated surf of 12 to 18 feet along the north-facing shores, and 8 to 12 feet along the west-facing shores, of Niihau, Kauai, Oahu, and Molokai; and 12 to 18 feet along the north-facing shores of Maui. No serious injuries or property damage were reported.

IDAHO, Extreme Southeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
IDAHO, North									
IDZ005>006	**Northern Clearwater Mountains - Southern Clearwater Mountains**								
	09	**2300MST**			**0**	**0**			**Winter Storm**
	11	**0500MST**							
	A strong winter storm brought combination of heavy snows and strong southerly winds to much of the Northern Rockies. Widespread accumulations of 4 to 5 inches fell across the Clearwater Mountains. Southerly winds at 15 to 30 mph, with gusts as high as 61 mph were measured with the storm, causing blowing and drifting snow.								
IDZ007	**Orofino / Grangeville Region**								
	10	**0826PST**			**0**	**0**			**High Wind (G61)**
		0915PST							
	Gusty winds associated with an approaching storm affected the Orofino/Grangeville area with gusts as high as 61 mph reported. There were reports of tree damage caused by the winds.								
IDZ005	**Northern Clearwater Mountains**								
	14	**1400MST**			**0**	**0**			**Heavy Snow**
	15	**1100MST**							
	8 to 10 inches of snow fell over the Northern Clearwater Mountains.								
IDZ005>006	**Northern Clearwater Mountains - Southern Clearwater Mountains**								
	17	**0815MST**			**0**	**0**			**Heavy Snow**
	18	**1415MST**							
	1 to 2 feet of snow fell over the Clearwater Mountains of central Idaho.								
IDZ005>006	**Northern Clearwater Mountains - Southern Clearwater Mountains**								
	20	**0300MST**			**0**	**0**			**Heavy Snow**
	21	**1500MST**							
	5 to 10 inches of snow fell across the Clearwater Mountains.								
IDZ005>006	**Northern Clearwater Mountains - Southern Clearwater Mountains**								
	29	**0900MST**			**0**	**0**			**Heavy Snow**
	30	**0900MST**							
	Heavy snow event brought 5 to 8 inches of new snow to the Clearwater Mountains of North Central Idaho.								
IDAHO, Northwest									
IDZ001-004	**Northern Panhandle - Central Panhandle Mountains**								
	08	**1500PST**			**0**	**0**			**Winter Storm**
	11	**0400PST**							
IDZ002	**Coeur D'Alene Area**								
	10	**0500PST**			**0**	**0**	**30K**		**Strong Wind**
		1600PST							
	A powerful Pacific storm system brought heavy snow and wind to northern Idaho during the afternoon hours of the 8th through the early morning hours of the 11th. Many of the valley locations across northern Idaho received 4 to 6 inches of snow while the mountains received 10 to 20 inches. Many trees fell during the storm across north Idaho due to the heavy wet snow and winds causing power outages to 7,000 buildings. In the city of Coeur D'Alene, high winds blew over a very large pine tree which fell on a house causing roof and structure damage. In the town of Post Falls, another tree was knocked down from the high winds causing structure damage at a family residence carport.								
IDZ004	**Central Panhandle Mountains**								
	15	**0500PST**			**0**	**0**	**30K**		**Landslide**
	20	**1400PST**							
	A rockslide occurred during the early morning hours of the 16th around two miles west of the town of Avery along the Saint Joe Road. Damage to the road was estimated to be around 30,00 dollars while it took road crews until the afternoon of the 20th to fix the road.								
IDZ001-004	**Northern Panhandle - Central Panhandle Mountains**								
	16	**0400PST**			**0**	**0**			**Winter Storm**
	18	**0400PST**							
	A Pacific storm system moved through northern Idaho during the morning hours of the 16th and into the early morning hours of the 18th. The storm brought heavy snow to both the valley and mountain areas of northern Idaho with 4 to 6 inches being common in valley locations. Snowfall amounts of 8 to 18 inches were reported over the mountains with Silver Mountain Ski Resort reporting 18 inches of new snow during this event.								
IDZ001-003>004	**Northern Panhandle - Idaho Palouse - Central Panhandle Mountains**								
	19	**1500PST**			**0**	**0**			**Heavy Snow**
	20	**2200PST**							
	A Pacific storm system brought heavy snow to northern Idaho during the afternoon hours of the 19th and into the late evening hours of the 20th. The valley locations received 4 to 9 inches of new snow with 5 inches being reported at Deary, while Bonners Ferry received 9 inches of new snow. The mountains of northern Idaho received 10 to 20 inches of new snow with this storm								

Storm Data and Unusual Weather Phenomena

January 2006

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

IDAHO, Northwest

IDZ001-004 — **Northern Panhandle - Central Panhandle Mountains**

Date	Time	Killed	Injured	Character of Storm
27	1500PST	0	0	Heavy Snow
29	0400PST			

A Pacific storm moved through northern Idaho during the afternoon hours of the 27th and into the early morning of the 29th. New snow amounts of 4 to 6 inches were common across the valley locations while the mountains received 8 to 14 inches with this storm

IDZ001-004 — **Northern Panhandle - Central Panhandle Mountains**

Date	Time	Killed	Injured	Character of Storm
27	1500PST	0	0	Winter Storm
30	1600PST			

A series of powerful Pacific storm systems moved through northern Idaho from the afternoon of the 27th through the day of the 30th. Storm totals over the mountains ranged from 12 to 24 inches of new snow, while the valleys picked up 4 to 7 inches of new snow. Strong winds with these storms caused blowing and drifting snow at times along with some white out conditions for some of the ski resorts.

IDZ001-004 — **Northern Panhandle - Central Panhandle Mountains**

Date	Time	Killed	Injured	Character of Storm
31	0400PST	0	0	Winter Storm
	2359PST			

A Pacific winter storm moved through northern Idaho during the day of the 31st and into the day of February 1st. the storm brought heavy snow to the mountain locations above 3000 feet with 8 to 10 inches being reported. Schwitzer Mountain reported 9 inches while Lookout Pass ski resort reported 10 inches of new snow.

IDAHO, Southeast

IDZ019-023-025-031 — **Upper Snake Highlands - Caribou Highlands - Wasatch Mountains/Iadho Portion - Big And Little Wood River Region**

Date	Time	Killed	Injured	Character of Storm
02	0200MST	0	0	Heavy Snow
03	0500MST			

A Pacific storm system brought heavy snow to elevations above 6500 feet in the southeast Idaho mountains. Heavier amounts were 9 inches at Giveout, 16 inches at Franklin Basin, 13 inches at Swede Peak, 9 inches at Garfield, 10 inches at Galena Summit, 10 inches at Chocolate Gulch, 9 inches at Slug Creek, 13 inches at Lost Wood Divide, 16 inches at Sedgewick Peak, 11 inches at Oxford Spring, 16 inches at White Elephant, 12 inches at Crab Creek, and 10 inches at Bear Canyon.

IDZ018>019-022>023-031 — **Sawtooth Mountains - Upper Snake Highlands - South Central Highlands - Caribou Highlands - Big And Little Wood River Region**

Date	Time	Killed	Injured	Character of Storm
10	0600MST	0	0	Heavy Snow
11	1200MST			

Another wet and warm Pacific storm system brought heavy snow to southeast Idaho above 6000 feet with rain in the valleys. Heaviest amounts were 27 inches at Vienna Mine, 14 inches at Swede Peak, 23 inches at Lost Wood Divide, 11 inches at Garfield, 20 inches at Galena Summit, 14 inches at Galena, 12 inches at Chocolate Gulch, 18 inches at Dollarhide, 9 inches at Sheep Mountain, 12 inches at Mill Creek, 10 inches at Wildhorse Divide, 9 inches at Bostetter, 18 inches at White Elephant, 9 inches at Crab Creek.

IDZ017>019-022>025-031 — **Eastern Magic Valley - Sawtooth Mountains - Upper Snake Highlands - South Central Highlands - Caribou Highlands - Cache Valley/Idaho Portion - Wasatch Mountains/Iadho Portion - Big And Little Wood River Region**

Date	Time	Killed	Injured	Character of Storm
17	0100MST	0	0	Heavy Snow
18	0600MST			

Another in a series of weekly storms pounded much of southeast Idaho again with heavy snow. Pomerelle ski resort reported 23 inches, 12 inches at Mink Creek, 14 inches at Holbrook, 15 inches at Sedgewick Peak, 10 inches at Pine Creek Pass, 12 inches at Oxford Springs, 8 inches at Richfield, 11 inches at Island Park, 16 inches at Galena Summit, 13 inches at Galena, 20 inches at Franklin Basin, 15 inches at Emigrant Summit, 14 inches at Wild Horse Divide, 11 inches at Sheep Mountain, 8 inches at Preston, 9 inches at Bern, and 10 inches at Howell Canyon

IDZ022 — **South Central Highlands**

Date	Time	Killed	Injured	Character of Storm
28	0300MST	0	0	Heavy Snow
	2100MST			

Howell Canyon in the southern highlands received 16 inches of snowfall.

IDZ019-022>023-031 — **Upper Snake Highlands - South Central Highlands - Caribou Highlands - Big And Little Wood River Region**

Date	Time	Killed	Injured	Character of Storm
30	0100MST	0	0	Heavy Snow
31	0500MST			

Another in a series of mountain snow events concluded January. A foot of snow was recorded along interstate 15 near Malad. Teton county received a foot of snow closing most county roads on the 30th heading toward Jackson, Wyoming. Howell Canyon reported 10 inches, 11 inches at Pine Creek Pass, and 10 inches at Vienna Mine.

IDAHO, Southwest

IDZ011 — **West Central Mountains**

Date	Time	Killed	Injured	Character of Storm
10	1500MST	0	0	Winter Storm
11	0200MST			

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
IDAHO, Southwest									
IDZ011-013-028	**West Central Mountains - Boise Mountains - Camas Prairie**								
	17	**1300MST**			**0**	**0**			**Heavy Snow**
	18	**1000MST**							
IDZ011-013-029	**West Central Mountains - Boise Mountains - Owyhee Mountains**								
	28	**1200MST**			**0**	**0**			**Heavy Snow**
		1700MST							
IDZ011-013	**West Central Mountains - Boise Mountains**								
	30	**0500MST**			**0**	**0**			**Heavy Snow**
		1700MST							
ILLINOIS, Central									
Sangamon County									
1 W Auburn to Chatham	**02**	**0720CST**			**0**	**0**			**Thunderstorm Wind (G60)**
		0735CST							
	A microburst caused an 8 mile long swath of damage from west of Auburn to Chatham. The winds caused damage to pole barns and trees in rural areas, with minor damage to several homes in Chatham.								
Shelby County									
1.5 S Oconee	**02**	**0802CST**	**0.1**	**35**	**0**	**0**	**15K**		**Tornado (F1)**
		0803CST							
	A tornado briefly touched down, destroyed a 40' by 60' pole barn and blew down a few large tree limbs. Debris from the tornado broke a window in a house on the property.								
ILLINOIS, Northeast									
ILZ003>006-008-010>014-019>022-032	**Winnebago - Boone - Mchenry - Lake - Ogle - Lee - De Kalb - Kane - Du Page - Cook - La Salle - Kendall - Grundy - Will - Livingston**								
	01	**0000CST**			**0**	**0**			**Drought**
	31	**2359CST**							
	Severe to extreme drought conditions continued across much of north central Illinois during January 2006. However, many locations received near normal or above normal precipitation for the month. Chicago Ohare Airport received 2.78 inches, which was 1.03 inches above normal. Rockford Airport received 2.97 inches, which was 1.56 inches above normal.								
ILZ004>006-010>014-019	**Boone - Mchenry - Lake - Lee - De Kalb - Kane - Du Page - Cook - La Salle**								
	20	**2000CST**			**0**	**0**			**Winter Storm**
	21	**0400CST**							
	A winter storm moved across Northern Illinois during the afternoon and evening hours on Friday, January 20th and the early morning hours of Saturday, January 21st. Snow begin to fall during the afternoon hours and continued through evening hours and was heavy at times. A band of very heavy snow fell across Kane County, southeast McHenry County, northwest Cook county and most of Lake County. Snowfall amounts in this band ranged from 10 to 12 inches. Outside of this heavy band, snowfall amounts ranged from 6 to 9 inches, but snowfall amounts tapered off quickly across south central Dupage and south central Cook counties, with those areas receiving 3 to 5 inches of snow. Some of the largest snowfall amounts included 12.0 inches in Elgin in Kane County; 11.7 inches in Grayslake in Lake County; 11.5 inches in Shabbona in DeKalb County; 11.0 inches Barrington in Cook County; 9.0 inches in Paw Paw in Lee County; 8.0 inches in Belvidere in Boone County; 6.7 inches in Spring Grove in McHenry County and 6.5 inches in Mendota in Lasalle County. Chicago Ohare Airport measured 4.7 inches and Rockford Airport measured 5.0 inches.								
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**								
	01	**0000CST**			**0**	**0**			**Drought**
	31	**2359CST**							
	The drought that began back in June 2005 continued through January 2006 and into February 2006. Being the middle of winter the affects of the drought were essentially hydrologic in nature. A summary of the conditions for January 2006 is given by the service hydrologist. Total precipitation for the month was 2.10 inches or 0.80 inches above normal and 161% of normal. Monthly totals and departures varied widely by location. For example, in Burlington, Iowa, the monthly total was 2.73 inches or 1.42 inches above normal and 208% of normal. In the other hand, in Dubuque, Iowa, the monthly total was 1.32 inches or 0.04 inches above normal and 103% of normal. Precipitation for most of the month was light to moderate. The exception was toward the end of the month when a storm system brought significant rainfall amounts to the HSA from the 28th-30th. Precipitation totals ranged from around 1 inch in the west to over 2 inches in the east. Because of the warm temperatures, most of the precipitation fell as rain. The majority of the rain fell on the 28th over a 24-hour period. Because most of the ground was unfrozen, the majority of this rainfall soaked into the soil, easing the drought.								

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

ILLINOIS, Northwest

Another storm system brought low to moderate precipitation amounts to the HSA on the 2nd. Again, because of the warm temperatures, the precipitation fell as rain. Amounts were greatest on the Iowa and Missouri side of the Mississippi River. Totals of 0.5 to 1.0 inches were common there. On the Illinois side, amounts of less than 0.5 inches were common.

River Conditions

Stream flows began the month with most locations reporting near normal (25th to 74th percentile) conditions. A few locations reported above normal (76th to 90th percentile) conditions and a few locations reported below normal (10th to 24th percentile) conditions. The precipitation event on the 2nd resulted in increases in stream flows especially in Iowa and Missouri. Stream flows went to above to much above normal (greater than 90th percentile) there, but were below to much below normal (less than 10th percentile) across Illinois. These conditions persisted through the 15th.

After the 15th stream flows across the entire HSA gradually became near to below normal. The flows remained this way until the 28th when significant liquid precipitation fell across the entire HSA. In response to this precipitation, stream flows became above to much above normal. Flows gradually decreased and at the end of the month they were normal to above normal.

Source: U.S. Geological Survey. Their WaterWatch Web site has an animation of daily flow percentiles for the United States (http://water.usgs.gov/cgi-bin/waterwatch_animation?200601)

Drought

For the entire HSA, the three-month precipitation total is 5.76 inches or 0.04 inches above normal and 101% of normal. The six-month precipitation total is 12.30 inches or 3.69 inches below normal and 77% of normal. The 12-month precipitation total is 23.95 inches or 12.28 inches below normal and 66% of normal.

According to the U.S. Drought Monitor maps (http://drought.unl.edu/dm/), the drought conditions for the HSA did not change much during the month. The eastern two-thirds of the HSA were in the Extreme Drought (D3) category. The western one-third of the HSA was in the Severe Drought (D2) or Moderate Drought (D1) category.

ILZ025	**Henderson**								
	20	**1330CST**		**0**	**0**	**2.5K**		**Winter Weather**
		2030CST							
	Also from Co-op observers								
ILZ017-026	**Bureau - Warren**								
	20	**1500CST**		**0**	**0**	**10K**		**Winter Storm**
	21	**0200CST**							
	Also from Co-op observers								
ILZ016-034>035	**Henry - Hancock - Mcdonough**								
	20	**1800CST**		**0**	**0**	**15K**		**Ice Storm**
		2200CST							

Also from Co-op observers

A major winter storm moved from the southern Plains into the eastern Great Lakes from 20 January to 21 January 2006. Temperatures were critical during the event with some areas remaining all snow while others began as rain and transitioned to snow. During the transition, ice in the form of sleet or freezing rain occurred. Significant amounts of ice occurred in thunderstorms across far northeast Missouri, parts of west central, northwest, and north central Illinois. The last of the thunderstorms ended across Bureau and Henry counties of Illinois at 1900 CST.

Radar data showed five distinct bands of heavier precipitation across the WFO DVN county warning area. These mesoscale bands of precipitation lead to snowfall and ice amounts varying greatly over small distances. Due to temperatures right around freezing, Lee and Des Moines counties in southeast Iowa and Henderson County in west central Illinois never received more than 0.20 inch of ice accumulation at any one time. Although not substantiated by ground truth reports, it is believed that extreme southern Warren county in west central Illinois received 0.25 inch of ice accumulation since it was in a heavier band of precipitation.

Scotland and Clark counties in northeast Missouri along with McDonough and Hancock counties in west central Illinois received 0.25 inch ice accumulation followed by snowfall ranging from 0.5 to 3 inches. In Illinois, southeast Henry county and most of Bureau county received 0.25 inch ice accumulation with some areas up to 0.5 inch accumulation under the thunderstorms. Once the transition to snow was completed, co-operative observers in Bureau county received 6-8 inches of snowfall on top of the ice

Another mesoscale band of snow deposited 4 to 6 inches of snow in a band running from Fairfield Iowa in Jefferson County to Apple River Illinois in Jo Daviess County. A co-op observer in Lowden, Iowa (Cedar County) received 7 inches of snow in just under 9 hours.

According to law enforcement, traffice accidents were most numerous in the areas that received significant ice accumulation whereas areas that received only snow reported no more than the usual amount of traffic accidents. Many schools either cancelled outright or

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

ILLINOIS, Northwest

had early dismissal before the worst of the ice accumulation began. Many trees were downed in areas that received significant ice accumulation.

ILLINOIS, South

Wayne County

Mt Erie 02 0958CST 0 0 **Hail (0.75)**

ILZ075>078-080>094 Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac

08 1000CST 0 0 19K Strong Wind
1700CST

Strong southwest winds were sustained from 30 to 35 MPH during the peak of this wind event. Measured wind gusts were as high as 45 MPH at the Carbondale airport.

ILZ077>078-081>083 Edwards - Wabash - Franklin - Hamilton - White

13 1500CST 0 0 Winter Weather/Mix
2100CST

One to two inches of snow fell in the Lower Wabash Valley, including Mount Carmel. A narrow swath of 1 to 3 inch amounts extended westward to Benton in Franklin County. Numerous accidents occurred. The U.S. Highway 41 northbound exit ramp at Mount Carmel was closed.

ILZ075>078-080>094 Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac

19 1000CST 0 0 19K Strong Wind
1900CST

Strong southwest winds were sustained around 30 MPH. Gusts were measured up to 48 MPH at Carbondale.

ILZ087-094 Gallatin - Massac

27 1100CST 0 0 Flood
30 1200CST

Minor flooding of the Ohio River occurred due to heavy rainfall between the 10th and 13th and again between the 20th and 23rd. At Shawneetown, where flood stage is 33 feet, the river crested at 34.5 feet on the 28th. At Brookport, where flood stage is 37 feet, the river crested at 37.4 feet on the 29th. Minor flooding of fields and wooded bottomlands occurred.

ILLINOIS, Southwest

Calhoun County

Batchtown 02 0500CST 0 0 **Hail (0.75)**

The public reported 3/4 inch hail in Batchtown.

Randolph County

3 SE Red Bud 02 0610CST 0 0 **Thunderstorm Wind (G52)**

A NWS cooperative observer reported wind damage to a grain bin and a couple of farm outbuildings.

Madison County

St Jacob 02 0702CST 0 0 **Hail (1.00)**

A storm spotter reported 1 inch hail.

INDIANA, Central

Vigo County

Terre Haute 02 1242EST 0 0 0 0 **Hail (0.88)**
1544EST

Sullivan County

1 SE Hymera 02 1243EST 0 0 0 0 **Hail (0.75)**
1245EST

Morgan County

Eminence 02 1422EST 0 0 0 0 **Hail (1.00)**
1424EST

Bartholomew County

1 E Columbus 02 1518EST 0 0 0 0 **Hail (0.75)**
1533EST

Bartholomew County

1 E Columbus 02 1520EST 0 0 0 0 **Heavy Rain**
1550EST

1.3 inches of rain fell in 30 minutes.

Bartholomew County

1.5 SE Columbus Bakal 02 1521EST 0 0 0 0 **Hail (0.75)**
1526EST

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
INDIANA, Central									
Bartholomew County									
1 E Columbus	**02**	**1533EST**			**0**	**0**	**0**	**0**	**Hail (1.00)**
		1535EST							
The 2006 severe weather season began in earnest on the second day of the new year, with strong storms ahead of a cold front moving across central Indiana producing mostly marginally severe hail									
INDIANA, Northeast									
Elkhart County									
5 ENE New Paris	**02**	**1444EST**			**0**	**0**			**Hail (0.75)**
		1445EST							
Elkhart County									
3 SE Goshen	**02**	**1456EST**			**0**	**0**			**Hail (0.75)**
		1457EST							
De Kalb County									
2 W Corunna	**02**	**1517EST**			**0**	**0**			**Hail (0.75)**
		1518EST							
De Kalb County									
3.5 NE Corunna	**02**	**1528EST**			**0**	**0**			**Hail (1.00)**
		1529EST							
INZ003-018-023-032	**La Porte - Allen - Miami - Grant**								
	17	**1900EST**			**0**	**0**			**Winter Weather**
	18	**1000EST**							
A cold front crossed the region and changed rain to snow during the evening of the 17th. A brief period of freezing rain was also reported in some locations during the changeover. General snowfall accumulations were between 1 and 2 inches with some local amounts of 3 inches. While snow amounts were not significant, the freezing of water from earlier rain beneath the light snow accumulation created extremely slippery driving conditions. Numerous minor car accidents were reported, including 64 in the Fort Wayne area. 10 crashes involved minor injuries, all were in-direct to the winter weather									
INDIANA, Northwest									
NONE REPORTED.									
INDIANA, South Central									
Dubois County									
2 W Huntingburg	**02**	**1259EST**			**0**	**0**			**Hail (0.75)**
Dubois County									
Huntingburg	**02**	**1310EST**			**0**	**0**			**Hail (0.75)**
Dubois County									
2 SSE Jasper	**02**	**1329EST**			**0**	**0**			**Hail (1.00)**
One inch hail covered the ground.									
Dubois County									
Cuzco	**02**	**1350EST**			**0**	**0**			**Hail (0.75)**
Perry County									
Gatchel	**02**	**1355EST**			**0**	**0**			**Hail (0.75)**
Crawford County									
Wickliffe	**02**	**1402EST**			**0**	**0**			**Hail (0.75)**
Washington County									
Freddricksburg	**02**	**1425EST**			**0**	**0**			**Hail (0.75)**
Harrison County									
2 S Corydon	**02**	**1448EST**			**0**	**0**			**Hail (0.75)**
Harrison County									
Elizabeth	**02**	**1448EST**			**0**	**0**			**Hail (1.75)**
Washington County									
Salem	**02**	**1502EST**			**0**	**0**			**Hail (1.50)**
Clark County									
Jeffersonville	**02**	**1540EST**			**0**	**0**			**Thunderstorm Wind (G55)**
Power lines and a large tree were downed.									
A surface low moved from northeast Missouri into southern and central Indiana during the afternoon of January 2. An associated warm front moved north of the Ohio River, and abundant moisture from the Gulf of Mexico was drawn into the region. Severe weather, mainly in the form of large hail, occurred over south central Indiana									

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
INDIANA, Southeast									
Switzerland County									
East Enterprise	**02**	**1645EST** **1649EST**			**0**	**0**	**8K**		**Thunderstorm Wind (G50)**
	Several trees and powerlines were downed. One home also sustained roof damage.								
INDIANA, Southwest									
Warrick County									
Paradise	**02**	**0207CST**			**0**	**0**			**Hail (0.88)**
Posey County									
2 SW Hovey	**02**	**1055CST**			**0**	**0**			**Hail (0.88)**
	Occurred near the J.T. Myers Lock and Dam on the Ohio River.								
Vanderburgh County									
Evansville	**02**	**1130CST**			**0**	**0**			**Hail (0.75)**
Warrick County									
Tennyson	**02**	**1148CST** **1150CST**			**0**	**0**			**Hail (1.25)**
Spencer County									
Grandview	**02**	**1218CST**			**0**	**0**			**Hail (0.75)**
INZ081>082-085>088	**Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer**								
	08	**1300CST** **1700CST**			**0**	**0**	**6K**		**Strong Wind**
	Strong southwest winds were sustained around 30 MPH during the peak of this wind event. Measured wind gusts were as high as 40 MPH at the Evansville airport.								
INZ081-085>087	**Gibson - Posey - Vanderburgh - Warrick**								
	13	**1600CST** **2100CST**			**0**	**0**			**Winter Weather/Mix**
	Up to two inches of snow fell over southwest Indiana, mainly along and west of U.S. Highway 41. A number of vehicles slid off roadways, especially along and north of Interstate 64. Accumulations across Gibson County ranged from nearly two inches in East Mount Carmel to just a half inch elsewhere.								
INZ081>082	**Gibson - Pike**								
	17 **24**	**1100CST** **1400CST**			**0**	**0**			**Flood**
	Minor flooding of the White River occurred after heavy rainfall between the 13th and 17th. At Petersburg, where flood stage is 16 feet, the river crested at 17.2 feet on the 20th. At Hazleton, where flood stage is 16 feet, the river crested at 17.0 feet on the 19th. This resulted in minor flooding of low-lying fields and woodlands. A few local county roads were closed, and a couple of low oil fields were shut down.								
INZ081>082-085>088	**Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer**								
	17	**1700CST** **2200CST**			**0**	**0**			**Winter Weather/Mix**
	One to two inches of snow fell across southwest Indiana. Most of the 2-inch amounts were east of Evansville, including Boonville and Spencer County. Secondary roads became snow-covered and icy. Main roads were mostly wet with some slushy and icy patches								
INZ081>082-085>088	**Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer**								
	19	**1000CST** **1700CST**			**0**	**0**	**6K**		**Strong Wind**
	Strong southwest winds were sustained around 30 MPH. Gusts were measured to around 40 MPH.								
INZ085-087>088	**Posey - Warrick - Spencer**								
	26 **28**	**0600CST** **1200CST**			**0**	**0**			**Flood**
	Minor flooding of the Ohio River occurred due to heavy rainfall between the 10th and 13th and again between the 20th and 23rd. At Newburgh, where flood stage is 38 feet, the river crested at 39.1 feet on the 27th. At Mount Vernon, where flood stage is 35 feet, the river crested at 35.2 feet on the 28th. This resulted in minor flooding of fields and wooded bottomlands								
IOWA, Central									
IAZ004>007-015>017-023>028-033>039-044>050-057>062-070>075-081>086-092>097	**Emmet - Kossuth - Winnebago - Worth - Palo Alto - Hancock - Cerro Gordo - Pocahontas - Humboldt - Wright - Franklin - Butler - Bremer - Sac - Calhoun - Webster - Hamilton - Hardin - Grundy - Black Hawk - Crawford - Carroll - Greene - Boone - Story - Marshall - Tama - Audubon - Guthrie - Dallas - Polk - Jasper - Poweshiek - Cass - Adair - Madison - Warren - Marion - Mahaska - Adams - Union - Clarke - Lucas - Monroe - Wapello - Taylor - Ringgold - Decatur - Wayne - Appanoose - Davis**									
	24	**0930CST** **1630CST**			**0**	**2**	**550K**		**High Wind (G60)**
	An intense low pressure moved southeast out of northern Alberta during the night of the 23rd and early morning of the 24th. The low tracked southeast across Lake Winnipeg early on the 24th and was over Lake Superior during the afternoon of the 24th. The low								

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

IOWA, Central

continued to move southeast during the late afternoon and evening. A deep trough of low pressure formed in the upper levels with a 140 kt jet streak passing over Iowa during the day on the 24th. A strong tropospheric fold was evident as the jet streak passed with stratospheric air extending well below 850 mb. Winds increased quite rapidly after sunrise with mid day winds sustained in the 40 to 45 MPH range over the CWA by mid day. Winds became quite gusty as well with most locations recording gusts of at least 50 to 55 mph. Several locations reported wind gusts in excess of 60 MPH. The strongest wind gust recorded was a 69 MPH wind gust at the Ames Airport in Story County. The strongest winds were in a band about 40 miles wide extending from Calhoun and Webster Counties on the northwest, southeast to Lucas, Marion, and Mahaska Counties on the southeast. Winds in this band gusted to 60 to 65 MPH for a one to two hour period. There as also a wind gust to 61 MPH in southwest Iowa in Union County, and a gust to 51 MPH in Cerro Gordo and Franklin Counties. Two people were injured in Des Moines by flying glass. High winds blew out a window broke out of the Polk County Human Resources Building. There were numerous reports of local power outages as branches took down power lines. Some accidents were caused by the high winds as drivers lost control of their vehicles. Spotty reports of trucks being overturned were also received. In Polk County, the mile long bridge over Saylorville Reservoir was closed for several hours due to the high wind.

IOWA, East Central and Southeast

IAZ042-052>054-063>068-076>078-087>089-098>099

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

01 0000CST 0 0 Drought
31 2359CST

The drought that began back in July 2005 continued through January 2006 and into February 2006. Being the middle of winter the affects of the drought were essentially hydrologic in nature. A summary of the conditions for January 2006 is given by the service hydrologist.

Total precipitation for the month was 2.10 inches or 0.80 inches above normal and 161% of normal. Monthly totals and departures varied widely by location. For example, in Burlington, Iowa, the monthly total was 2.73 inches or 1.42 inches above normal and 208% of normal. In the other hand, in Dubuque, Iowa, the monthly total was 1.32 inches or 0.04 inches above normal and 103% of normal. Precipitation for most of the month was light to moderate. The exception was toward the end of the month when a storm system brought significant rainfall amounts to the HSA from the 28th-30th. Precipitation totals ranged from around 1 inch in the west to over 2 inches in the east. Because of the warm temperatures, most of the precipitation fell as rain. The majority of the rain fell on the 28th over a 24-hour period. Because most of the ground was unfrozen, the majority of this rainfall soaked into the soil, easing the drought.

Another storm system brought low to moderate precipitation amounts to the HSA on the 2nd. Again, because of the warm temperatures, the precipitation fell as rain. Amounts were greatest on the Iowa and Missouri side of the Mississippi River. Totals of 0.5 to 1.0 inches were common there. On the Illinois side, amounts of less than 0.5 inches were common.

River Conditions

Stream flows began the month with most locations reporting near normal (25th to 74th percentile) conditions. A few locations reported above normal (76th to 90th percentile) conditions and a few locations reported below normal (10th to 24th percentile) conditions. The precipitation event on the 2nd resulted in increases in stream flows especially in Iowa and Missouri. Stream flows went to above to much above normal (greater than 90th percentile) there, but were below to much below normal (less than 10th percentile) across Illinois. These conditions persisted through the 15th.

After the 15th stream flows across the entire HSA gradually became near to below normal. The flows remained this way until the 28th when significant liquid precipitation fell across the entire HSA. In response to this precipitation, stream flows became above to much above normal. Flows gradually decreased and at the end of the month they were normal to above normal.

Source: U.S. Geological Survey. Their WaterWatch Web site has an animation of daily flow percentiles for the United States (http://water.usgs.gov/cgi-bin/waterwatch_animation?200601).

Drought

For the entire HSA, the three-month precipitation total is 5.76 inches or 0.04 inches above normal and 101% of normal. The six-month precipitation total is 12.30 inches or 3.69 inches below normal and 77% of normal. The 12-month precipitation total is 23.95 inches or 12.28 inches below normal and 66% of normal.

According to the U.S. Drought Monitor maps (http://drought.unl.edu/dm/), the drought conditions for the HSA did not change much during the month. The eastern two-thirds of the HSA were in the Extreme Drought (D3) category. The western one-third of the HSA was in the Severe Drought (D2) or Moderate Drought (D1) category.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
IOWA, East Central and Southeast									
IAZ089-099	**Des Moines - Lee**								
	20	**1300CST**			**0**	**0**	**6K**		**Winter Weather**
		2000CST							
	Also from Co-op observers								
IAZ065	**Cedar**								
	20	**2030CST**			**0**	**0**			**Heavy Snow**
		2130CST							

From Co-op observer

A major winter storm moved from the southern Plains into the eastern Great Lakes from 20 January to 21 January 2006. Temperatures were critical during the event with some areas remaining all snow while others began as rain and transitioned to snow. During the transition, ice in the form of sleet or freezing rain occurred. Significant amounts of ice occurred in thunderstorms across far northeast Missouri, parts of west central, northwest, and north central Illinois. The last of the thunderstorms ended across Bureau and Henry counties of Illinois at 1900 CST.

Radar data showed five distinct bands of heavier precipitation across the WFO DVN county warning area. These mesoscale bands of precipitation lead to snowfall and ice amounts varying greatly over small distances. Due to temperatures right around freezing, Lee and Des Moines counties in southeast Iowa and Henderson County in west central Illinois never received more than 0.20 inch of ice accumulation at any one time. Although not substantiated by ground truth reports, it is believed that extreme southern Warren county in west central Illinois received 0.25 inch of ice accumulation since it was in a heavier band of precipitation.

Scotland and Clark counties in northeast Missouri along with McDonough and Hancock counties in west central Illinois received 0.25 inch ice accumulation followed by snowfall ranging from 0.5 to 3 inches. In Illinois, southeast Henry county and most of Bureau county received 0.25 inch ice accumulation with some areas up to 0.5 inch accumulation under the thunderstorms. Once the transition to snow was completed, co-operative observers in Bureau county received 6-8 inches of snowfall on top of the ice.

Another mesoscale band of snow deposited 4 to 6 inches of snow in a band running from Fairfield Iowa in Jefferson County to Apple River Illinois in Jo Daviess County. A co-op observer in Lowden, Iowa (Cedar County) received 7 inches of snow in just under 9 hours.

According to law enforcement, traffice accidents were most numerous in the areas that received significant ice accumulation whereas areas that received only snow reported no more than the usual amount of traffic accidents. Many schools either cancelled outright or had early dismissal before the worst of the ice accumulation began. Many trees were downed in areas that received significant ice accumulation.

IAZ089-099	**Des Moines - Lee**								
	24	**1400CST**			**0**	**0**	**6K**		**Strong Wind**
		1700CST							
IAZ077	**Washington**								
	24	**1523CST**			**0**	**0**			**High Wind (G51)**
		1533CST							

KAWG AWOS

A strong winter storm with an associated trop fold produced sustained winds of 26-33 knots (30-38 mph) with numerous gusts of 44-48 knots (51-55 mph) during the afternoon hours across eastern Iowa and the northern half of Illinois. The variability of the measured gusts can be attributed to differential heating during the afternoon hours. In Lee County Iowa, numerous tree limbs were downed across the county. A power pole was downed in West Point with a large tree down in Fort Madison. In southern Des Moines County about one half mile north of the Lee/Des Moines County line, the top of a 40 foot cedar tree was broken off at a residence along U.S. 61. The tree just missed hitting the residence.

IOWA, Northeast

NONE REPORTED.

IOWA, Northwest

IAZ001	**Lyon**								
	01	**1800CST**			**0**	**0**			**Winter Weather**
	02	**0000CST**							

Freezing rain caused icy travel conditions. A power outage at Rock Rapids was attributed to the icing.

IOWA, Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KANSAS, East									
KSZ056-058	**Franklin - Coffey**								
	10	**0100CST**			**0**	**0**			**Winter Weather**
		1700CST							
	Snowfall averaged one to four inches with some very localized higher amounts. The snow mixed with freezing rain and sleet which added to the travel hazard. Numerous accidents and a few indirect injuries were reported due to the hazardous driving conditions								
KSZ059	**Anderson**								
	10	**1530CST**			**0**	**0**			**Winter Storm**
		1700CST							
	Snow began falling around 1am. Snowfall averaged six to eight inches. The snow was mixed with some freezing rain and sleet which added to the travel hazard. Numerous accidents and a couple of indirect injuries were reported due to the very hazardous driving conditions.								
KSZ011-022>024-038	**Nemaha - Riley - Pottawatomie - Jackson - Wabaunsee**								
	20	**0900CST**			**0**	**0**			**Winter Weather**
		1800CST							
	Snowfall averaged up to two inches. However, some freezing rain and sleet proved to be the main hazard. Up to an eighth of an inch of ice coated roadways and brought a number of vehicle accidents. These accidents produced several indirect injuries in Pottawatomie and Jackson counties.								
KSZ008>011-020>021-034>035-037-054>056-058>059	**Republic - Washington - Marshall - Nemaha - Cloud - Clay - Ottawa - Dickinson - Morris - Lyon - Osage - Franklin - Coffey - Anderson**								
	23	**0300CST**			**0**	**0**			**Dense Fog**
		1100CST							
	Widespread dense fog brought occasional visibilities below a quarter mile and hazardous driving conditions. Temperatures below freezing also caused some black ice which only added to the treacherous travel conditions.								
Clay County									
2 N Morganville	**28**	**1456CST**			**0**	**0**			**Hail (1.00)**
	Reported at 28th and Jayhawk Rd.								
Clay County									
.5 ESE Fact to	**28**	**1527CST**	**0.8**	**75**	**0**	**0**	**5K**	**0**	**Tornado (F0)**
.5 E Fact		**1529CST**							
	The tornado formed from a low-topped mini-supercell a half mile east southeast of Fact in Clay County, and travelled northeast for 0.8 miles with a path width of 75 yards before dissipating. The tornado caused minor damage to trees and several cattle feeders, as well as a small windmill. It was rated as an F0, and damage was estimated at $5K.								
Clay County									
3 S Wakefield	**28**	**1532CST**			**0**	**0**			**Hail (0.88)**
	Mostly dime to some nickel size hail.								
Dickinson County									
2 S Moonlight	**28**	**1534CST**			**0**	**0**			**Hail (0.75)**
	Just north of I-70.								
Washington County									
4 SSW Barnes to	**28**	**1553CST**	**0.3**	**50**	**0**	**0**	**0**	**0**	**Tornado (F0)**
3.7 SSW Barnes		**1554CST**							
	The tornado formed from a low-topped mini-supercell 4 miles SSW of Fact and was on the ground briefly before dissipating 0.5 miles E of Fact. It caused only tree damage and had a path width of about 50 yards.								
KANSAS, Extreme Southeast									
KSZ073-097-101	**Bourbon - Crawford - Cherokee**								
	01	**0001CST**			**0**	**0**			**Drought**
	31	**2359CST**							
	Rainfall remained scarce for most of the eastern plains and Missouri Ozarks, as only areas of south central and central Missouri recieved normal rainfall. Otherwise very dry conditions persisted across southwest Missouri and extreme southeast Kansas, receiving less than two inches of precipitation for the entire month. The United States Drought Monitor had analyzed severe drought conditions over most of southwest Missouri and southeast Kansas by the end of January. Extreme drought was analyzed over two counties over southwest Missouri by the end of January, including McDonald and Newton counties								
KANSAS, North Central									
	NONE REPORTED.								
KANSAS, Northeast									
KSZ057-060	**Miami - Linn**								
	10	**0600CST**			**0**	**0**			**Winter Weather**
		1800CST							

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KANSAS, Northeast									
		A winter storm passing by to the south, still was able to produce from 2 to 4 inches of snow across the area. Centerville in southwestern Linn county had the highest total at 5.8 inches.							
KSZ025-102	**Atchison - Doniphan**								
	20	**1400CST**			**0**	**0**			**Winter Weather**
		2100CST							
	A wintry mix of sleet, freezing rain, and snow was observed across the area. Snowfall amounts were generally around 2 inches.								
KANSAS, Northwest									
KSZ014	**Thomas**								
	15	**1135MST**			**0**	**1**	**4K**		**Strong Wind**
	Gust of wind resulted in loss of vehicle control on Interstate 70 about 8 miles west of Colby at mile marker 46. Gust of wind blew car to the side and driver over-corrected, hitting a guard rail and coming to rest in a ditch. Driver sustained minor injuries.								
KSZ014	**Thomas**								
	19	**2300MST**			**0**	**0**			**Heavy Snow**
	20	**0600MST**							
	Locally heavy snowfall of 6 to 8 inches occurred in central Thomas county overnight. No blowing or drifting snow was reported due to a combination of high water content and very little wind. Elsewhere across the region...4 to 6 inches of snow fell in a band from Cheyenne Wells, Colorado near the Kansas border, northeast toward Colby to south of Oberlin. Highest snow totals in the area from cooperative observers included 6 inches at Dresden, KS and 10 miles south of Atwood. Eight inches of snow fell just north of Colby, KS which was the highest total in this event, with 5 inches reported at Norton, Sharon Springs and 19 miles southwest of Goodland								
KANSAS, Southeast									
KSZ070>072-092-094>096-098>099	**Greenwood - Woodson - Allen - Sumner - Elk - Wilson - Neosho - Chautauqua - Montgomery**								
	10	**0807CST**			**0**	**0**	**0**	**0**	**Heavy Snow**
		1742CST							
	During the morning and early afternoon hours of January 10th a heavy band of snow developed and slowly moved east into Missouri. The band dropped abundant snowfall in southeast Kansas. The heaviest snow amounts were found from northwest Wilson county to southwest Woodson county. There were several reports of 12 inches but Coyville in northwest Wilson county reported 15 inches. A swath of 6 plus inches fell from Chautauqua through Elk and southeast Greenwood, northwest Montgomery and Neosho counties through Allen county. A second area of 6 inch plus snowfall amounts was found in southeast Sumner county. The highest reported snow amount in Sumner county was 7 inches 3 miles southeast of South Haven. The heavy snow caused numerous traffic accidents across southeast Kansas.								
Harvey County									
1 NE Newton to	**28**	**1517CST**	**4**	**50**	**0**	**0**	**100K**	**0**	**Tornado (F0)**
5 NE Newton		**1529CST**							
	A landspout tornado touched down just northeast of Newton, blowing windows out of cars at an auto dealership, and downing light poles and large tree limbs.								
KANSAS, Southwest									
KSZ090	**Barber**								
	09	**0600CST**			**0**	**0**			**Heavy Snow**
	10	**0300CST**							
	Light snow began falling in southwestern Kansas Monday morning, January 9th, and moved eastward into south central Kansas by Monday evening. As the storm system generating this snow encountered more low level moisture in south central Kansas, a couple of convective, wet cells developed in southern Barber County. Most locations across southwest Kansas reported 2 inches or less of snow, but two observers in southern Barber County reported 4 inch snowfall amounts. One was 5 miles southeast of Medicine Lodge and the other was 8 miles west-northwest of Hardtner. The measurable snow ended during the evening Monday.								
KSZ061	**Hamilton**								
	12	**1056CST**			**0**	**0**			**High Wind (G51)**
	The wind gust was observed by the KSN weather lab at the Syracuse High School.								
KENTUCKY, Central									
Grayson County									
5 SSW Leitchfield	**02**	**1335EST**			**0**	**0**			**Hail (1.75)**
Grayson County									
Shrewsbury	**02**	**1340EST**			**0**	**0**			**Hail (0.75)**
Grayson County									
Leitchfield	**02**	**1350EST**			**0**	**0**			**Hail (0.75)**
Edmonson County									
2 N Mammoth Cave	**02**	**1408EST**			**0**	**0**			**Hail (1.00)**
Monroe County									
Jeffrey	**02**	**1410EST**			**0**	**0**			**Hail (0.75)**

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KENTUCKY, Central									
Meade County									
Brandenburg	**02**	**1412EST**			**0**	**0**			**Hail (1.00)**
Meade County									
Brandenburg	**02**	**1417EST**			**0**	**0**			**Hail (0.75)**
Breckinridge County									
6 NW Hardinsburg	**02**	**1433EST**			**0**	**0**			**Hail (0.75)**
Hardin County									
7 SW Sonora	**02**	**1434EST**			**0**	**0**			**Hail (0.75)**
Hardin County									
4.2 S Sonora	**02**	**1505EST**			**0**	**0**			**Hail (1.75)**
	Hail reported at Upton.								
Larue County									
Mathers Mill	**02**	**1505EST**			**0**	**0**			**Hail (2.00)**
Adair County									
Columbia	**02**	**1515EST**			**0**	**0**			**Hail (2.00)**
Jefferson County									
7.2 NNE Louisville Arp	**02**	**1528EST**			**0**	**0**			**Hail (0.88)**
	Nickel sized hail reported near Veteran's Hospital.								
Green County									
Countywide	**02**	**1535EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Trees were downed across the northern part of the county.								
Bullitt County									
Shepherdsville	**02**	**1538EST**			**0**	**0**			**Hail (1.00)**
Taylor County									
Campbellsville	**02**	**1540EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Power lines were downed.								
Nelson County									
Bardstown	**02**	**1545EST**			**0**	**0**			**Hail (0.75)**
Nelson County									
New Haven	**02**	**1545EST**			**0**	**0**			**Hail (0.75)**
	Penny size hail covered the ground.								
Oldham County									
Goshen	**02**	**1545EST**			**0**	**0**			**Thunderstorm Wind (G52)**
	Fire/rescue estimated a 60 mph wind gust.								
Spencer County									
Taylorsville	**02**	**1545EST**			**0**	**0**			**Thunderstorm Wind (G57)**
	Law enforcement estimated a 65 mph wind gust.								
Shelby County									
Shelbyville	**02**	**1605EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Trees and power lines were downed.								
Casey County									
Clementsville	**02**	**1615EST**			**0**	**0**			**Hail (1.00)**
Casey County									
Clementsville	**02**	**1615EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Trees were downed.								
Clinton County									
Desda	**02**	**1625EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Several trees and power lines were downed.								
Russell County									
Russell Spgs	**02**	**1625EST**			**0**	**0**			**Hail (0.75)**
Anderson County									
Lawrenceburg	**02**	**1640EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G55)**
	Several trees were downed. Thunderstorm winds also damaged the roof on a barn.								
Lincoln County									
Stanford	**02**	**1645EST**			**0**	**0**			**Hail (1.00)**
Mercer County									
Harrodsburg	**02**	**1645EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Trees and power lines were downed.								

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KENTUCKY, Central									
Lincoln County									
Halls Gap	**02**	**1655EST**			**0**	**0**			**Hail (1.75)**
Garrard County									
Countywide	**02**	**1700EST**			**0**	**0**			**Thunderstorm Wind (G50)**
Trees were downed countywide. Marble size hail fell.									
Madison County									
Berea	**02**	**1712EST**			**0**	**0**	**50K**		**Thunderstorm Wind (G60)**
A mobile home was demolished.									
Hardin County									
.8 W Cecilia to 1.5 SE Long View	**02**	**1443EST 1458EST**	**8.4**	**150**	**0**	**0**	**2M**		**Tornado (F2)**
The tornado touched down near Cecilia, blowing the roof off a barn, but only producing shingle damage on nearby residences. It did more damage when it reached St. John Road, where it destroyed a home and some farm buildings. As the tornado continued to the northeast, it produced major roof damage to homes along Rineyville Road. Next, an office building that was under construction was lifted off its foundation. A convenience store was destroyed along U.S. 31W. A few more homes received minor damage before the tornado lifted near Longview.									
Larue County									
.6 WSW Talley to 1.4 ESE Tanner	**02**	**1450EST 1505EST**	**6.4**	**175**	**0**	**0**	**500K**		**Tornado (F1)**
The tornado touched down near Talley in southwest Larue County, and was intermittently on the ground until lifting just east of Tanner. Near Talley, the tornado lifted the roof off a home. A home on Upton-Talley Road had the front porch and much of the roof removed. The tornado also did moderate damage to barns and destroyed several outbuildings, and moved a 2700 pound motorboat a distance of 220 feet. In the Oak Hill area, two barns and some outbuildings were destroyed. Another barn and a home were damaged.									
Jefferson County									
1.4 WSW St Dennis to .8 NNW St Dennis	**02**	**1522EST 1527EST**	**1.5**	**34**	**0**	**0**	**250K**		**Tornado (F1)**
A tornado touched down at 322 PM near the corner of Bramers and Campground Road in western Jefferson County. Many homes along the damage path had roof damage. A large, well constructed barn was destroyed. Numerous trees and power lines were downed; one tree was blown on to a house. The local Moose Lodge building had significant damage. The tornado lifted around 327 PM near the intersection of Campground Road and Ralph Avenue.									
Adair County									
1.3 ESE Columbia to 1.8 E Columbia	**02**	**1522EST 1524EST**	**0.6**	**200**	**0**	**0**	**150K**		**Tornado (F2)**
Adair County									
.2 SE Pellyton to .5 NE Pellyton	**02**	**1557EST 1559EST**	**0.5**	**100**	**0**	**0**	**75K**		**Tornado (F1)**
The first tornado touched down near Columbia. It destroyed a mobile home and removed the roof from a house. Other homes and mobile homes were damaged. The tornado lifted and the parent cell travelled into northeast Adair County. The second tornado touched down in the Pellyton area, about 13 miles to the northeast of the first touchdown. Several homes and barns in the area were damaged before the tornado lifted again.									
Lincoln County									
3 S Mc Kinney to .8 S Maywood	**02**	**1634EST 1648EST**	**8.7**	**200**	**0**	**2**	**350K**		**Tornado (F2)**
Two people were injured as an F2 tornado swept through western and central Lincoln County. A man received minor injures when a barn he was in collapsed around him. An elderly woman was hospitalized with a broken collar bone and nose. She had been sucked out of her mobile home by strong winds when she tried to open her front door. In all, eight mobile homes were destroyed, with most of the damage being concentrated south of the McKinney area. At one location, the storm survey team found that the tornado had embedded two by six boards firmly into the ground.									
Madison County									
Richmond	**22 23**	**2250EST 0300EST**			**0**	**0**			**Flash Flood**
A few roads were flooded and impassable in the Richmond area. Parts of Catalpa Loop Road were closed due to high water.									
Casey County									
Countywide	**22 23**	**2324EST 0300EST**			**0**	**0**			**Flash Flood**
Several creeks and streams were out of their banks across the county. Water was over several roads in the county, including Highway 70.									

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

KENTUCKY, Central

Garrard County

Countywide **23** **0005EST** **0** **0** **Flash Flood**
0300EST

Several county roads were blocked by high water. Paint Lick Creek was out of its banks, along with several other creeks across the county.

Barren County

Countywide **23** **0031EST** **0** **0** **Flash Flood**
0230EST

Numerous roads were flooded and several creeks were out of their banks.

Cumberland County

Countywide **23** **0035EST** **0** **0** **Flash Flood**
0230EST

Several county roads were flooded. Many area creeks were out of their banks. Water was over a bridge in the western part of the county, but the route name/number was undetermined.

Monroe County

Countywide **23** **0035EST** **0** **0** **Flash Flood**
0230EST

Several county roads were closed due to high water. Water covered a bridge along highway 100. Many creeks were out of their banks.

Taylor County

Campbellsville **23** **0047EST** **0** **0** **Flash Flood**
0300EST

A home was flooded when a creek ran out of its banks. A few roads were closed due to high water.

Green County

Countywide **23** **0209EST** **0** **0** **Flash Flood**
0300EST

Numerous roads in the county were flooded.

Allen County

Countywide **23** **0229EST** **0** **0** **Flash Flood**
0300EST

A few county roads were covered with water.

Adair County

Countywide **23** **0233EST** **0** **0** **Flash Flood**
0300EST

A few county roads were covered with water.

Lincoln County

Countywide **23** **0233EST** **0** **0** **Flash Flood**
0300EST

A few county roads were covered with water.

Ohio County

Dundee **23** **1310EST** **0** **0** **Flood**
24 **2000EST**

Rough River at Dundee crested around 25.7 feet just before sunrise on January 24. Flood stage at Dundee is 25 feet. Minor flooding occurs at this level, with a section of KY 69 on the right bank near the bridge beginning to flood.

Bourbon County

Paris **23** **1330EST** **0** **0** **Flood**
24 **0240EST**

Stoner Creek at Paris crested at 18.5 feet around 8 PM EST on January 23. Flood stage at Paris is 18 feet. Minor flooding occurs at this level, with the creek at bankfull.

Nelson County

Boston **24** **1055EST** **0** **0** **Flood**
25 **1500EST**

The Rolling Fork River at Boston crested at 36.2 feet in the pre dawn hours of January 25. Flood stage at Boston is 35 feet. Minor flooding occurs at this level, with agricultural bottomland covered with water

Butler County

Woodbury **24** **1445EST** **0** **0** **Flood**
25 **2320EST**

The Green River at Woodbury crested at 34.3 feet around 6 AM EST on January 25. Flood stage at Woodbury is 33 feet. Minor flooding occurs at this level. Lowlands around the town of Woodbury begin to flood.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KENTUCKY, Eastern									
Wayne County									
4 NNW Monticello	**02**	**1700EST** **1710EST**			**0**	**0**	**0**	**0**	**Hail (0.75)**
Rockcastle County									
3 SSE Boone	**02**	**1722EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G52)**
Several large tree limbs blown down.									
Wayne County									
Mill Spgs	**02**	**1730EST** **1732EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G55)**
Several trees blown down.									
Pulaski County									
Eubank	**02**	**1732EST** **1734EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G60)**
Several large and heavy cattle feeders blown over.									
Lee County									
4 W Beattyville	**02**	**1745EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G55)**
Three trees and one eight to ten inch diameter tree limb blown down.									
Lee County									
5 W Beattyville	**02**	**1745EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G53)**
Two large tree limbs down and blocking Highway 52.									
Lee County									
Heidelberg	**02**	**1745EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G53)**
A few large tree limbs down.									
Estill County									
Cobhill	**02**	**1755EST** **1805EST**			**0**	**0**	**1K**	**0**	**Thunderstorm Wind (G55)**
Several trees down countywide. One power pole blown down one mile south of Irvine.									
Laurel County									
London	**02**	**1800EST**			**0**	**0**	**1K**	**0**	**Thunderstorm Wind (G53)**
Tin roof torn off trailer.									
Lee County									
3 S Beattyville	**02**	**1800EST**			**0**	**0**	**0**	**0**	**Hail (0.75)**
Owsley County									
2 NW Booneville to 1 N Booneville	**02**	**1800EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G53)**
One cedar tree and several large tree limbs blown down between Levi and Vincent.									
Wolfe County									
Campton	**02**	**1803EST** **1806EST**			**0**	**0**	**2K**	**0**	**Thunderstorm Wind (G55)**
Two trees down on Plummer Street. Trees took power lines, cutting power to the downtown area. Trees also down on Kentucky Highway 1261 at Hollonville and on Kentucky Highway 715 near Rogers									
Menifee County									
7 SE Frenchburg	**02**	**1835EST**			**0**	**0**	**3K**	**0**	**Thunderstorm Wind (G55)**
Trees down in road on Highway 746. Power out in Pomeroyton.									
Morgan County									
West Liberty	**02**	**1838EST** **1841EST**			**0**	**0**	**3K**	**0**	**Thunderstorm Wind (G55)**
ATV trailer blown into another parked vehicle in parking lot.									
Breathitt County									
Talbert	**02**	**1840EST** **1846EST**			**0**	**0**	**0**	**0**	**Hail (0.75)**
Magoffin County									
Gunlock	**02**	**1840EST** **1844EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G53)**
Several large tree limbs down and blocking Kentucky Highway 3336. A few large limbs down near Salyersville as well.									
Powell County									
Stanton	**02**	**1853EST** **1900EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G60)**
Trees down countywide blocking roads. Highways affected includ Kentucky Highways 1057 and 1639 in Stanton as well as Kentucky Highways 11 and 77 near Natural Bridge State Park.									

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
KENTUCKY, Eastern									
Elliott County									
3 E Sandy Hook	**02**	**1858EST** **1900EST**			**0**	**0**	**0**	**0**	**Hail (0.88)**
Knox County									
1 NE Hammond	**02**	**1900EST** **1905EST**			**0**	**0**	**0**	**0**	**Hail (0.75)**
Knox County									
1 NE Hammond	**02**	**1900EST** **1906EST**			**0**	**0**	**1K**	**0**	**Thunderstorm Wind (G52)**
Storage building blown down.									
Johnson County									
Nippa	**02**	**1907EST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (G55)**
Trees down on Kentucky Highway 1559 near Nippa and one other tree down on Connelly Creek on Kentucky Highway 1092.									
Clay County									
1 N Queendale	**02**	**1910EST**			**0**	**0**	**0**	**0**	**Hail (1.25)**
Leslie County									
Hoskinston	**02**	**1930EST**			**0**	**0**	**0**	**0**	**Hail (1.00)**
KYZ088	**Harlan**								
	14	**0600EST** **1400EST**			**0**	**0**	**0**	**0**	**Heavy Snow**
Four inches of snow accumulated on Black Mountain.									
KYZ118	**Letcher**								
	14	**0600EST** **1400EST**			**0**	**0**	**0**	**0**	**Heavy Snow**
Four inches of snow accumulated in Jenkins.									
KYZ087	**Bell**								
	14	**0800EST** **1400EST**			**0**	**0**	**0**	**0**	**Heavy Snow**
Four inches of snow fell in Arjay and Red Bird and 5 inches fell on Fonde Mountain.									
KYZ115	**Perry**								
	17	**2200EST**			**0**	**0**	**0**	**0**	**High Wind (G50)**
Two trees blown down on State Route 451 at Christopher.									
KYZ115	**Perry**								
	17	**2200EST**			**0**	**0**	**1K**	**0**	**High Wind (G50)**
Multiple trees down on State Route 7 between Viper and Fusonia. Power lines and poles also knocked down.									
Montgomery County									
Mt Sterling	**22**	**0015EST** **0713EST**			**0**	**0**	**0**	**0**	**Flash Flood**
Six to eight inches of water flowing across Howards Mill and Tury Road. Portions of Highway 460 East, Harpers Ridge and Aarons Run impassable due to high water.									
Rockcastle County									
Wildie	**22** **23**	**2337EST** **0530EST**			**0**	**0**	**0**	**0**	**Flash Flood**
PORTIONS OF HIGHWAY 1786 IMPASSABLE AND BRUSH CREEK ROAD OFF OF HIGHWAY 1912 IMPASSABLE DUE TO HIGH WATER.									
Powell County									
1 SW Clay City	**23**	**0019EST** **0814EST**			**0**	**0**	**0**	**0**	**Flash Flood**
Twelve inches of water flowing across several areas of Highway 82, Hardwick Road, and Adams Ridge Road.									
Estill County									
Irvine	**23**	**0024EST** **0814EST**			**0**	**0**	**0**	**0**	**Flash Flood**
Portions of Dark Hollow Creek and Clear Creek Roads off of Richmond Road closed due to high water. Portions of Driftwood Drive off of Cob Hill Road closed due to high water.									
Lee County									
Beattyville	**23**	**0112EST** **0914EST**			**0**	**0**	**0**	**0**	**Flash Flood**
One mile stretch of Highway 52 just west of Beattyville heading towards Irvine impassable due to high water. Portions of Gilliam Road also impassable due to high water.									

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
KENTUCKY, Eastern									
Lee County									
Beattyville	**23**	**0112EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0914EST							
Portions of Blaines Branch Road closed due to high water.									
Laurel County									
London	**23**	**0116EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0515EST							
Portions of Middle Ground Way and Commercial Drive off of Highway 25 as well as Sallys Branch Road off of Highway 80 and Tobacco Road off of East 4th Street impassable due to high water.									
Wayne County									
Monticello	**23**	**0144EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0745EST							
Portions of Highway 1546 closed due to high water.									
Whitley County									
Corbin	**23**	**0352EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0741EST							
Intersection of Highways 26 and 3041 impassable due to high water. Portions of Bacon Creek Road impassable due to high water									
Whitley County									
Faber	**23**	**0352EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0741EST							
Highway 26 at the underpass impassable due to high water.									
Whitley County									
10 NW Williamsburg	**23**	**0352EST**			**0**	**0**	**0**	**0**	**Flash Flood**
		0741EST							
Portions of Highway 90 near the Cumberland Falls State Resort Park impassable due to high water.									
KYZ058	**Estill**								
	23	**0815EST**			**0**	**0**	**0**	**0**	**Flood**
	25	**1400EST**							
Murphy Fork Road and Dark Hollow Road closed due to high water.									
KYZ059	**Powell**								
	23	**0815EST**			**0**	**0**	**0**	**0**	**Flood**
	25	**2215EST**							
Portions of Highway 15 at Rosslyn covered by water.									
KYZ059	**Powell**								
	24	**1230EST**			**0**	**0**	**0**	**0**	**Flood**
		1856EST							
The Clay City gage malfunctioned during this event, with readings resuming most likely shortly after the crest. The highest reading recorded at the gage was 17.88 feet at 1730z on 1/24/06. From the falling hydrograph shape, the crest is estimated to have been between 18 and 19 feet sometime around 1000Z on 1/24/06.									
KENTUCKY, Northeast									
KYZ101>103	**Greenup - Carter - Boyd**								
	23	**0230EST**			**0**	**0**			**Flood**
		0630EST							
A 12 to 24 hour rain event started during the afternoon of the 22nd, then diminished to drizzle during the morning of the 23rd. Rain amounts of over 2 inches were common. Olive Hill measured 2.3 inches, Warnock had 2.27 inches, Grayson observed 2.15 inches, and Ashland had 2.0 inches.									
Streams flooded roads and surrounded a few vulnerable homes, trailers, and outbuildings. No significant damage occurred. Some of the streams included Straight Creek and Bolts Fork in Boyd County, Tygarts Creek in Greenup County, and Little Fork near Willard of Carter County.									
A strong rise occurred on the Little Sandy River, cresting at Grayson around 19.4 feet later on the 23rd. Flood state is 21 feet at Grayson.									
KENTUCKY, Northern									
Carroll County									
Carrollton	**02**	**1627EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
		1631EST							
Two trees were downed along State Route 55.									

Storm Data and Unusual Weather Phenomena

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

KENTUCKY, Southwest

Hopkins County

Madisonville — **02** — **1140CST** — **0** — **0** — **Hail (0.75)**

KYZ001>022 — **Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd**

08 — **1300CST** — **0** — **0** — **22K** — **Strong Wind**
1700CST

Strong southwest winds were sustained at 30 MPH during the peak of this wind event. Measured wind gusts were as high as 41 MPH at Henderson, 40 MPH at Paducah, and 37 MPH at Hopkinsville.

KYZ005 — **Mccracken**

08 — **1400CST** — **0** — **0** — **Wildfire**
1900CST

Windy and dry conditions fanned the flames of a 300-acre grass and brush fire in western McCracken County, near Grahamville. The fire began near Kentucky Highway 358 in the West Kentucky Wildlife Management Area and spread quickly north-northeast toward the Ohio River. All county fire departments in McCracken County were summoned to the scene, along with a couple departments from Ballard County. Firefighters with the State of Kentucky and the Tennessee Valley Authority assisted. McCracken County instituted a countywide burn ban immediately after the fire.

Calloway County

5 ESE Murray — **10** — **1425CST** — **0** — **0** — **50K** — **Thunderstorm Wind (G65)**

Severe thunderstorm winds downed tree limbs, demolished outbuildings and a well house, and overturned a trailer. Shingles were ripped off the roof of a house. A small boat was damaged.

KYZ001>022 — **Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd**

17 — **1730CST** — **0** — **0** — **Winter Weather/Mix**
2100CST

One to two inches of snow fell across western Kentucky. Most of the 2-inch amounts were along and east of the Pennyrile Parkway, including Hopkinsville, Madisonville, and Owensboro. Many secondary roads became slippery. Primary roads were mostly wet, but bridges and overpasses became icy. A few serious accidents occurred when vehicles encountered icy patches on main highways. On Interstate 24, two tractor-trailer rigs collided on the bridge over the Tennessee River. To avoid being struck by one of the trucks, a motorist who stopped to help the first trucker jumped off the bridge and was seriously injured. In Trigg County, a woman was killed (indirect weather fatality) in a rollover car accident on U.S. Highway 68 about a mile west of The Trace (Kentucky 453). In Hopkinsville, a woman was critically injured when she was struck by a car while walking along the median of the Eagle Way By-Pass. She was out of her vehicle to check on a car that slid off the road.

KYZ001>015-018 — **Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Henderson**

19 — **1000CST** — **0** — **0** — **16K** — **Strong Wind**
1700CST

Strong southwest winds were sustained around 30 MPH. Peak gusts were clocked to 38 MPH at Paducah and Henderson. A power pole was blown down on the west side of Paducah, knocking out power to a commercial section of town.

Marshall County

Benton — **22** — **1100CST** — **0** — **0** — **Heavy Rain**
25 — **1400CST**

Widespread heavy rain on the 22nd caused fields along the Clarks River to go under water. Kentucky 1462 was closed just east of Benton due to water over the road. Rainfall was generally from 1 to 1.5 inches. Paducah measured 1.27 inches.

KYZ021 — **Muhlenberg**

24 — **2000CST** — **0** — **0** — **Flood**
28 — **1200CST**

Heavy rainfall between the 10th and 13th and again between the 20th and 23rd caused the Green River to exceed flood stage at the Paradise power plant. Flood stage there is 380 feet, and the river crested at 383.0 feet on the 26th. This resulted in minor flooding of fields and wooded bottomlands.

LOUISIANA, Northeast

Concordia Parish

2 WSW Clayton to Clayton — **13** — **0420CST** — **2** — **100** — **0** — **1** — **450K** — **30K** — **Tornado (F1)**
0424CST

This tornado torn a portion of the roof off two buildings and pealed shingles off many more homes and buildings. In addition to the damaged structures, several trees were snapped and uprooted.

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

LOUISIANA, Northwest

Caddo Parish

Shreveport — **13** — **0055CST** — **0** — **0** — **Hail (0.88)**

Hail fell in the North Highlands area.

LOUISIANA, Southeast

Terrebonne Parish

Schriever — **13** — **0755CST** — **0** — **0** — **2K** — **Thunderstorm Wind (G50)**

Thunderstorm winds caused minor property damage to outbuildings, blew over sheds, and knocked down tree limbs.

Terrebonne Parish

Montegut — **13** — **0830CST** — **0** — **1** — **25K** — **Thunderstorm Wind (G50)**

Two homes received significant damage when they were knocked off their supporting blocks by thunderstorm winds. The damage resulted in a gas leak. Minor property damage also occurred to a few other homes and buildings in the Montegut area.

Lafourche Parish

1 S Golden Meadow — **13** — **0900CST** — **0** — **0** — **5K** — **Thunderstorm Wind (G50)**

Thunderstorm winds caused serious damage to one side of an office building.

Lafourche Parish

5 NW Lockport — **13** — **0905CST** — **0** — **0** — **15K** — **Thunderstorm Wind (G50)**

In a recreational area, one camp was destroyed and several others were damaged by thunderstorm winds. Power lines and several trees were also knocked down.

LOUISIANA, Southwest

LAZ044 — **Lafayette**

12 — **0715CST** — **1** — **22** — **100K** — **Dense Fog**
0800CST

Over 100 vehicles were damaged along Interstate 49 near Carencro in several dense fog accidents. One man was killed after being trapped in his car after it burst into flames. M54VE

Evangeline Parish

Ville Platte — **13** — **0500CST** — **0** — **0** — **20K** — **Thunderstorm Wind (G50)**

An isolated storm picked up a back patio and threw it against the neighbor's home, damaging the roof and several interior rooms.

MAINE, North

Aroostook County

Van Buren — **14** — **2000EST** — **0** — **0** — **Flood**
15 — **1500EST**

Low pressure tracking north along the coast brought heavy rain to the region. The combination of heavy rain and melting snow contributed to rising river and stream levels which in some cases led to flooding. Rainfall totals generally ranged from 1.0 to 2.0 inches...with local totals to around 2.5 inches...across eastern portions of the county. Lesser rainfall totals were reported across northwest portions of the county. Streams did overflow onto some roads...along with ponding of water in poor drainage areas. Street and culvert flooding was also reported at Benedictta...Van Buren...Fort Fairfield and Madawaska. The flooding was generally considered minor.

Penobscot County

Etna — **14** — **2300EST** — **0** — **0** — **Flood**
15 — **1500EST**

Low pressure tracking north along the coast brought heavy rain to the region. The combination of heavy rain and melting snow contributed to rising river and stream levels which in some cases led to flooding. Rainfall totals across the county generally ranged from 1.5 to 2.5 inches. Streams did overflow onto some roads along with ponding of water in poor drainage areas. Route 43 was reported flooded at Hudson and Old Town...with Route 143 flooded near Etna.

Hancock County

Franklin — **14** — **2300EST** — **0** — **0** — **Flood**
15 — **1500EST**

Low pressure tracking north along the coast brought heavy rain to the region. The combination of heavy rain and melting snow contributed to rising river and stream levels which in some cases led to flooding. Rainfall totals across the county generally ranged from 1.0 to 2.0 inches...with local totals to around 2.5 inches. Streams did overflow onto some roads along with ponding of water in poor drainage areas. Two sections of Route 200 between Eastbrook and Franklin were washed out. A portion of Route 179 was covered with water near the junction of Route 179 and Route 1A.

Washington County

Topsfield — **15** — **0300EST** — **0** — **0** — **Flood**
1500EST

Low pressure tracking north along the coast brought heavy rain to the region. The combination of heavy rain and melting snow contributed to rising river and stream levels which in some cases led to flooding. Rainfall totals generally ranged from 1.5 to 2.5 inches...with local totals approaching 3.0 inches...with the heavier totals generally falling across central and northern portions of the county. Streams did overflow onto some roads...along with ponding of water in poor drainage areas. A portion of Route 6 between Topsfield and Vanceboro was washed out.

Storm Data and Unusual Weather Phenomena

January 2006

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

MAINE, North

Piscataquis County

Dover Foxcroft — **15** — **0430EST** / **1500EST** — **0** — **0** — **Flood**

Low pressure tracking north along the coast brought heavy rain to the region. The combination of heavy rain and melting snow contributed to rising river and stream levels which in some cases led to flooding. Rainfall totals generally ranged from 1.0 to 2.0 inches. Rising river and stream levels caused ice to dislodge and move resulting in several ice jams. An ice jam at Dover-Foxcroft caused the Piscataquis River to briefly rise to a stage of 11.1 feet...just above the flood stage of 11.0 feet...before quickly receding again. An ice jam on the Kingsbury Stream flooded a camp near Parkman. Minor flooding was reported at Milo when the Pleasant River overflowed onto adjacent streets and caused a bridge to be closed for a time. One lane of Route 11A in Atkinson was also closed for a time.

MEZ015>017-029>030 — **Southern Penobscot - Interior Hancock - Central Washington - Coastal Hancock - Coastal Washington**

18 — **1530EST** / **2300EST** — **0** — **0** — **High Wind (G69)**

Strong damaging winds developed in advance of a cold front associated with rapidly intensifying low pressure tracking northeast through Quebec province. Sustained south to southeast winds of 30 to 40 mph...with gusts of 55 to 65 mph...occurred for several hours. At some sites along the immediate coast onshore winds gusted in excess of 70 mph at times...with a peak gust of 79 mph reported at Lubec in coastal Washington county. Significant tree damage was reported across the entire region...with many trees snapped or uprooted. Wet ground conditions and the extended duration of the strong winds contributed to the significant tree damage. Many trees and branches fell on powerlines which either brought down the powerlines or snapped utility poles. Other utility poles were blown over or snapped by the strong winds. Tens of thousands of customers lost power for varying lengths of time during the storm. Fallen trees and utility poles blocked some roads. In Brewer...utility lines fell across a vehicle trapping the passengers for a time though no one was injured. In Ellsworth a cap was blown off a moving truck. A pine tree fell onto a mobile home in Holden with no injuries reported. Damage to signs...building siding and roof shingles was reported across the entire region.

MEZ001-003>006-010>011-031>032 — **Northwest Aroostook - Northern Somerset - Northern Piscataquis - Northern Penobscot - Southeast Aroostook - Central Piscataquis - Central Penobscot - Southern Piscataquis - Northern Washington**

18 — **1700EST** / **2300EST** — **0** — **0** — **High Wind (G52)**

Strong damaging winds developed in advance of a cold front associated with rapidly intensifying low pressure tracking northeast through Quebec province. Sustained south to southeast winds of 30 to 40 mph...with gusts of 50 to 60 mph...persisted for several hours. Significant tree damage was reported across the entire region...with many trees snapped or uprooted. Wet ground conditions and the extended duration of the strong winds contributed to the significant tree damage. Many trees and branches fell on powerlines which either brought down the powerlines or snapped utility poles. Other uitility poles were blown over or snapped by the strong winds. Tens of thousands of customers lost power for varying lengths of time during the storm. Fallen trees and powerlines blocked some roads. In Milo...a large shed was flipped over by the winds. Damage to signs...building siding and roof shingles was reported across the entire region.

MEZ002 — **Northeast Aroostook**

18 — **1700EST** — **0** — **0** — **High Wind (G52)**
19 — **0300EST**

Strong damaging winds developed in advance of a cold front associated with rapidly intensifying low pressure tracking northeast through Quebec province. Sustained south to southeast winds of 30 to 40 mph...with gusts of 50 to 60 mph...persisted for several hours. In the wake of the cold front...northwest winds gusted to 50 to 60 mph for several more hours. Significant tree damage was reported across the entire region...with many trees snapped or uprooted. Wet ground conditions and the extended duration of the strong winds contributed to the significant tree damage. Many trees and branches fell on powerlines which either brought down the powerlines or snapped utility poles. Other utility poles were blown over or snapped by the strong winds. Many customers lost power for varying lengths of time during the storm. Fallen trees and powerlines blocked some roads. Damage to signs...building siding and roof shingles was reported across the entire region.

Piscataquis County

Abbot Vlg — **19** — **0055EST** — **0** — **0** — **Flood**
20 — **1700EST**

The combination of heavy rain and melting snow contributed to rising water levels on area rivers and streams. In some instances the rising waters displaced ice...causing the ice to move and jam. An ice jam developed on the Kingsbury Stream causing the water to spill on to Route 16 near Abbot Village. Water levels fluctuated in the vicinity of the jam...with up to 3 feet of water covering the road at times causing the road to be closed. The ice jam stabilized and water levels then declined during the 20th

MAINE, South

MEZ013>014 — **Southern Franklin - Southern Somerset**

15 — **0800EST** — **0** — **0** — **0** — **0** — **Flood**
16 — **0200EST**

Mild weather and 1 to 2 inches of rainfall caused ice to move and then jam on the Sandy River. Only minor flooding was reported with no damage. The Sandy River at Mercer (flood stage 12.0 ft) crested at 13.5 ft.

Storm Data and Unusual Weather Phenomena

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

MAINE, South

MEZ008-013>014 — **Northern Franklin - Southern Franklin - Southern Somerset**

18	**1933EST**	**0**	**0**	**18K**	**0**	**Flood**	
19	**1700EST**						

Temperatures in the 50s combined with 2 inches of rain to cause ice jams and flooding. Several businesses at the intersection of Front Street and Route 4 in Farmington were flooded due to an ice jam. The Sandy River at Mercer (flood stage 12.0 ft) crested at 14.3 ft. The Swift River at Roxbury (flood stage 7.0 ft) crested at 7.9 ft.

MEZ019>020-025 — **Interior Cumberland - Androscoggin - Sagadahoc**

23	**1700EST**	**0**	**0**			**Heavy Snow**	
	1900EST						

On Monday, January 23, low pressure along the southern New Jersey coast tracked northeast through the Gulf of Maine. Snow developed across southern Maine by late morning and lasted till the early evening with light to moderate accumulations reported. Amounts reported were generally in the 4 to 7 inch range across much of coastal and interior sections of western and mid-coast Maine.

MEZ024 — **Coastal Cumberland**

30	**1050EST**	**0**	**0**	**1K**		**Storm Surge**	
	1142EST						

Low pressure moved slowly up the mid Atlantic coast late in the day on the 30th and strengthened as it moved into the Gulf of Maine on the 31st. The storm continued to intensify before moving out to sea on February 1st. Minor flooding occurred along the Portland wharfs.

MEZ023>024 — **Coastal York - Coastal Cumberland**

31	**1107EST**	**0**	**0**	**82K**		**Storm Surge**	
	1313EST						

Low pressure moved slowly up the mid Atlantic coast late in the day on the 30th and strengthened as it moved into the Gulf of Maine on the 31st. The storm continued to intensify before moving out to sea on February 1st.

Tidal water reached the top of Portland Pier (Portland Tide Gage). Traffic was stopped due to flooding on Marginal Way in Portland. Long beach in York was flooded. Debris was reported at York Beach. Fifty feet of seawall was damaged in Kennebunk and damage was reported to a seawall at Gooches Beach. One hundred feet of Surf Street in Saco was eroded.

MARYLAND, Central

MDZ003>004-009>010-013>014-016>018 — **Washington - Frederick - Montgomery - Howard - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

12	**0300EST**	**0**	**0**			**Dense Fog**	
	0730EST						

Areas of dense fog occurred early in the morning of January 12 across the region.

MDZ004>007-009>011-013>014-016>018 — **Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

13	**0430EST**	**0**	**0**			**Dense Fog**	
	1200EST						

Areas of dense fog occurred early in the morning of January 13 across the region.

MDZ002>007-009>011-013>014-016>018 — **Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

14	**1715EST**	**0**	**0**	**1.6M**		**High Wind (G52)**	
	2050EST						

Numerous trees and powerlines down.
Very strong winds developed on the 14th due to a strengthening low pressure system off the Mid Atlantic Coast and a fast moving cold front that passed through the region early in the day. Widespread damages and power outages occurred during this event, with newspaper reports indicating tens of thousands without power for an extended period of time.

MDZ014 — **Anne Arundel**

15	**1100EST**	**0**	**0**	**25K**		**Storm Surge/Tide**	
	1200EST						

A major coastal storm system, containing very strong winds, caused tidal levels to fall significantly below normal levels. Several marinas near the city of Annapolis, MD noted numerous boats stuck in place or tipped on their sides due to the very low water levels.

MDZ004 — **Frederick**

18	**0830EST**	**0**	**0**	**30K**		**Strong Wind**	

Strong winds estimated up to 50 mph caused a tree branch to fall onto powerlines on Catoctin Furnace Road, in Thurmont, MD. Power was knocked out to thousands of people for much of the area due to the incident

Storm Data and Unusual Weather Phenomena

January 2006

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

MARYLAND, Central

MDZ009-013 **Montgomery - Prince Georges**

18 1200EST 0 0 45K Strong Wind

Scattered power outages occurred due to downed trees from high winds. The winds were estimated between 40 to 50 mph by local official and non-official reporting stations.

MDZ002 **Allegany**

23 0430EST 0 0 75K Ice Storm
0810EST

Ice accumulations totaled around one-quarter inch across portions of Western Maryland, including parts of Allegany County. Newspaper reports indicated that several thousand people were without power due to downed ice-covered trees and powerlines. The freezing rain conditions occurred due to warm southerly winds and abundant moisture over-riding the cold air near the ground

MDZ002 **Allegany**

24 0400EST 0 0 Dense Fog
0900EST

Areas of dense fog occurred early in the morning of January 24.

MDZ007 **Harford**

25 0400EST 0 0 Winter Weather
1000EST

Morning commuters faced hazardous road conditions, since overnight snow showers had only minor accumulations, but caused a glaze of ice to form on area roadways. Newspaper reports indicated numerous traffic crashes occurred due to the glaze conditions

MDZ002 **Allegany**

25 0800EST 0 0 Heavy Snow
1000EST

Weather conditions were favorable for considerable mountain snows on the 25th. Northwest winds combined with a substantial amount of moisture to cause prolonged snow showers, which were heavy at times early in the day. Total accumulations up to about a foot occurred, with the highest totals in the higher elevations, such as at Keysers Ridge in Allegany County, and Skyline in Mineral County.

MARYLAND, Northeast

MDZ008-015-019>020 **Cecil - Queen Annes - Talbot - Caroline**

14 1600EST 0 0 5K Strong Wind
15 1500EST

MDZ012 **Kent**

14 1600EST 0 0 5K High Wind (G52)
15 1500EST

A slow moving and intense low pressure system combined with a high pressure ridge across the Mississippi Valley to produce a prolonged period of strong to high winds across the Maryland Eastern shore from the late afternoon on the 14th through the late afternoon on the 15th. The strongest wind gusts occurred overnight on the 14th. The persistent strong winds combined with ground that was wet and not frozen caused more tree damage than normally would be the case. Downed trees and tree limbs consequently helped snap poles and caused power outages. The worst reported outages on the Eastern Shore were in Cecil County where about 4,000 homes and businesses lost power with the greatest concentration in the Elkton area. All power was restored by the afternoon of the 16th. Specific wind gusts included 60 mph in Tolchester Beach (Kent County), 59 mph in Cambridge (Dorchester County) and 46 mph at the Baltimore-Washington International Airport.

The intense low pressure system that was responsible for the winds moved from the Delaware Valley during the early afternoon on the 14th, to the New Jersey Coast at 7 p.m. EST on the 14th, onto Long Island at 10 p.m. EST on the 14th, in the New England coastal waters east of Massachusetts at 7 a.m. EST on the 15th and into Nova Scotia by early in the afternoon on the 15th. As the low pressure system exited Nova Scotia and the high pressure system built east into the Ohio Valley, winds started diminishing during the late afternoon on the 15th.

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

18 0400EST 0 0 10K Strong Wind
1600EST

Strong south winds during the early morning and west winds during the afternoon buffeted the Eastern Shore. Peak wind gusts averaged 45 mph and included 47 mph in Salisbury (Dorchester County) and 39 mph at the Baltimore-Washington International Airport. The strong winds were caused by an increasing southeasterly low level jet preceding a cold front during the early morning of the 18th. This feature intensified further and caused more damage in Delaware. the cold front moved through the Eastern Shore between 7 a.m. EST and 10 a.m. EST on the 18th and strong west winds occurred behind the front through most of the afternoon before they diminished at night.

MARYLAND, South

NONE REPORTED.

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

MARYLAND, West

MDZ001 **Garrett**

25	**2300EST**	**0**	**0**			**Heavy Snow**
26	**0400EST**					

Snow began just after midnight on the 25th. The first 6 inches accumulated by 11 PM on 25th. By the time it ended, Accident had 7 inches, McHenry 9.

MASSACHUSETTS, Central and East

MAZ011-013-017 **Eastern Hampden - Western Norfolk - Northern Bristol**

03	**0500EST**	**0**	**0**	**20K**	**Winter Weather**
	1130EST				

MAZ010>012 **Eastern Hampshire - Eastern Hampden - Southern Worcester**

03	**1000EST**	**0**	**0**	**80K**	**Heavy Snow**
	1300EST				

A weakening area of low pressure centered over the Ohio Valley redeveloped into a coastal low off the Delmarva Coast during the early morning hours of 3 January. This coastal low rapidly intensified as it moved well south of New England, bringing a mixture of heavy, wet snow, rain and gusty northeast winds to Massachusetts. The heavy, wet snow combined with gusty winds brought down limbs, trees, and power lines, and produced power outages across the state.

The hardest hit areas were across western and central Massachusetts, where generally between 6 and 14 inches of snow, combined with gusty northeast winds, brought down numerous trees, limbs, and wires. In Shrewsbury, the heavy snow brought a tree down on a house, causing partial roof collapse.

No known injuries directly resulted from this noreaster.

MAZ003-007-011-013-015-019-022-022-024 **Eastern Franklin - Eastern Essex - Eastern Hampden - Western Norfolk - Suffolk - Eastern Plymouth - Barnstable - Nantucket**

15	**0450EST**	**0**	**0**	**65K**	**Strong Wind**
	1709EST				

MAZ012-016-024 **Southern Worcester - Eastern Norfolk - Nantucket**

15	**0719EST**	**0**	**0**	**15K**	**High Wind (G35)**
	1317EST				

MAZ011 **Eastern Hampden**

15	**0730EST**	**0**	**0**	**10K**	**Winter Storm**
	1130EST				

MAZ005-010 **Western Middlesex - Eastern Hampshire**

15	**0930EST**	**0**	**0**	**15K**	**Winter Weather**
	1200EST				

An intensifying area of low pressure passing south of New England and into the Gulf of Maine produced a wintry mix of precipitation and gusty northeast winds across Massachusetts during the morning of 15 January 2006. The most snow fell across western Massachusetts, where generally between 5 and 9 inches were reported. Further east, less than 2 inches of snow fell. The strongest winds were produced across eastern and southeastern Massachusetts.

The Orange and Westfield airports measured a sustained wind speed of 32 mph at 11:03 AM, and 11:32 AM, respectively. Further east, 31 mph sustained wind speeds were reported at the Provincetown and Beverly airports. 32 mph sustained wind speeds were reported at the Hyannis and Boston Logan airports. High sustained winds of 35 mph were reported at Nantucket, Blue Hill Observatory, and the Worcester airport at 8:53 AM, 1:17 PM, and 8:19 PM, respectively. In addition, the Nantucket ASOS measured a wind gust of 46 mph at 10:53 AM.

The heavy, wet snow, combined with gusty northeast winds, brought down tree limbs and power lines in Hadley and in Wilbraham. In Pepperell, a 10 inch diameter tree was snapped in two. A tree down in Hingham blocked portions of Route 3A at Route 228, and another tree down in Sharon landed on a house, causing damage to that house.

No known injuries directly related from this storm.

MAZ005-005-005>007-007>008-011>012-012>014-014>016-016>018-018>020-020>021-021>022-022-024-024 **Western Middlesex - Western Essex - Eastern Essex - Western Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Nantucke**

18	**0700EST**	**1**	**0**	**1.6M**	**High Wind (G85)**
	1800EST				

F80VE

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

MASSACHUSETTS, Central and East

MAZ004>005-007-011-013-017-017-019-019-022-022>023 — **Northern Worcester - Western Middlesex - Eastern Essex - Eastern Hampden - Western Norfolk - Northern Bristol - Eastern Plymouth - Barnstable - Dukes**

18	**1058EST** **1704EST**	**0**	**0**	**60K**		**Strong Wind**

An intensifying low pressure system moved across the Great Lakes and into Quebec, producing strong damaging winds across Massachusetts on 18 January 2006. These strong winds were accompanied with heavy rain showers. The most widespread wind damage occurred across eastern and southeastern Massachusetts, where numerous trees, limbs and wires were reported down.

Sustained wind reports generally ranged between 30 and 49 MPH, with gusts between 58 and 68 MPH. However, some higher wind speeds were observed. For example, Blue Hill Observatory measured a sustained wind speed of 61 MPH with a wind gust speed of 85 MPH during this storm.

Trees were reported down in towns across the state, including in Worthington, Hudson, Groton, Southborough, Bedford, Newton, Danvers, Peobody, Topsfield, Foxboro, Taunton, Brockton, Marshfield, Middleboro, Swansea, and in North Scituate. Trees fell down on houses in Springfield, Westford, Framingham, Haverhill, and in Carver. These downed trees closed roads and caused numerous power outages across the state. Siding was torn off of a building on Elm Street in Walpole. In addition, a 50-ft section of tin roofing came off a hanger, with at least 3 doors blown off their mounts, and the office trailer blown onto its side, at the Mansfield airport.

There was one known fatality from this storm. An 80-year old woman died when the Chevy Malibu car she was in at the time was crushed by a large tree that fell across the intersection of Church Street and Route 6A in Yarmouthport shortly after 2 PM.

MAZ010>011-013>015 — **Eastern Hampshire - Eastern Hampden - Western Norfolk - Southeast Middlesex - Suffolł**

21	**1620EST** **1830EST**	**0**	**0**	**70K**		**High Wind (G58)**

An intensifying low pressure system moved east across Quebec, swinging a cold front across southern New England during the mid to late afternoon of 21 January 2006. This cold frontal passage produced strong gusty winds that knocked down trees, limbs, and wires across Massachusetts.

Trees, limbs, and wires were reported down in Ware, Brookline, Waltham, Boston, Chicopee, Ludlow, and in Marion

No known injuries directly resulted from this cold frontal passage

MAZ006 — **Western Essex**

23	**1045EST** **1145EST**	**0**	**0**	**20K**		**Heavy Snow**

MAZ007-019 — **Eastern Essex - Eastern Plymouth**

23	**1050EST** **1245EST**	**0**	**0**	**20K**		**Winter Weather**

A snowstorm brought heavy, wet snow to portions of Massachusetts, especially interior eastern Massachusetts on 23 January 2006. Interior eastern Massachusetts received about 7 inches of snow. The heavy, wet snow downed trees, numerous branches, and wires across Eastern Massachusetts. For example, in Andover, a tree and wires came down on Concord Street. Wires came down in Methuen and Danvers, and numerous large branches is Hingham, were brought down from the weight of the snow. No known injuries directly resulted from this snowstorm.

MAZ007-015-019-022-024 — **Eastern Essex - Suffolk - Eastern Plymouth - Barnstable - Nantucket**

31	**1210EST** **1453EST**	**0**	**0**	**155K**		**Coastal Flood**

A low pressure system developed off the mid Atlantic coast and then intensified as it passed southeast of Nantucket on 31 January 2006. Gale force winds combined with an already high astronomical tide produced widespread minor to moderate coastal flooding along the Eastern Massachusetts coastline. No known injuries directly resulted from this coastal flood event.

MASSACHUSETTS, West

MAZ025 — **Southern Berkshire**

03	**0000EST** **1600EST**	**0**	**0**			**Heavy Snow**

On January 3, 10 to 13 inches of snow accumulated in southern Berkshire County.
From January 2 through January 3, low pressure moved eastward from the central Mississippi Valley to the northern Atlantic coast, then out to sea. The air mass over eastern New York and adjacent western New England was maginally cold enough for snow to occur. Some locations had heavy snowfall, others had the snow accumulation cut down when the snow mixed with, or changed to rain.

Storm Data and Unusual Weather Phenomena

January 2006

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

MASSACHUSETTS, West

MAZ001 **Northern Berkshire**

14 2100EST 0 0 Heavy Snow
15 0900EST

Four to 11 inches of snow accumulated over northern Berkshire County

MAZ025 **Southern Berkshire**

14 2100EST 0 0 Heavy Snow
15 0900EST

Four to 10 inches of snow accumulated over southern Berkshire County.

Low pressure was over southeastern Pennsylvania at daybreak on January 14. The system intensified and moved northeast across eastern New England. subfreezing air circulated southward from Canada. As it arrived in western Massachusetts on the evening of January 14, rain changed to snow. A heavy snowfall occurred in the Berkshires from the evening of January 14 through the mid morning hours of January 15.

MAZ025 **Southern Berkshire**

18 0830EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Richmond.

MAZ001 **Northern Berkshire**

18 0845EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Pittsfield.

MAZ001 **Northern Berkshire**

18 2045EST 0 0 Flood
19 0245EST

Flooding occurred on the Hoosic River in Williamstown on January 18 and January 19. Flood stage is 9.0 feet. A flood crest of 9.59 feet occurred on January 18, at 11:30 PM.

On January 18, a strengthening cyclone moved across southern Quebec Province, Canada. An occluded front over western New York at daybreak, moved eastward, while the warm front associated with the cyclone moved into southwestern New England early in the morning. A strong pressure gradient was over western New England preceding the passage of the occluded front. In addition to high wind, this storm left 1 to 2 inches of rain across eastern New York and adjacent western New England. The rain combined with melting snow and saturated soil conditions from a heavy precipitation event on January 14, produced widespread flooding.

MICHIGAN, East

MIZ061>062 **Genesee - Lapeer**

20 2300EST 0 0 Winter Storm
21 0800EST

A fast moving storm system moved out of the Texas Panhandle on Friday and moved northeast across the Detroit metro area early on the 21st. This brought a wintry mix of precipitation including rain, freezing rain, sleet, and snow to the area. At 2000 EST on the 20th, the temperature dropped to 32 degrees and the rain transitioned to sleet, freezing rain, and snow. By 2300 EST, up to a tenth of an inch of freezing rain and an inch of sleet had fallen across Genesee and Lapeer Counties. At 0230 EST on the 21st, the mix became all snow. A total of 3 to 5 inches of snow fell on top of the ice and sleet accumulations before ending at 0800 EST.

MIZ047>049-053>054 **Midland - Bay - Huron - Saginaw - Tuscola**

21 0500EST 0 0 Heavy Snow
0800EST

A fast moving storm system moved out of the Texas Panhandle on Friday and moved northeast across the Detroit metro area early on the 21st. Heavy snow accumulated 6 to 7 inches north of a line from northern Shiawassee County to Northern Sanilac County. The snow began at 2000 EST on the 20th and reached 6 inches by 0500 EST on the 21st. The heaviest snowfall occurred during the early morning hours of the 21st during which time snowfall rates equaled one inch per hour. By 0800 EST, the snow had ended. Locations just south of this area received a mixture of precipitation including rain, freezing rain, sleet, and snow.

Here are some of the higher snowfall reports received from each county:

Midland (Midland) 7.0 inches
Pinconning (Bay) 7.1 inches
Caseville (Huron) 6.0 inches
Hemlock (Saginaw) 6.5 inches
Vassar (Tuscola) 6.5 inches

MIZ055-060 **Sanilac - Shiawassee**

21 0500EST 0 0 Winter Storm
0800EST

A fast moving storm system moved out of the Texas Panhandle on Friday and moved northeast across the Detroit metro area early on the 21st. This brought a wintry mix of precipitation including rain, freezing rain, sleet, and snow to the area. The wintry mix began at 2000 EST on the 20th, and changed to all snow by Midnight. At 0500 EST on the 21st, 6 inches of snow had fallen across the northern portions of Shiawassee and Sanilac Counties. The southern portions of these counties received more sleet and freezing rain, holding total snow accumulations to 3 to 6 inches.

Here are some of the higher snowfall reports received from each county:

New Lothrop (Shiawassee) 6.0 inches

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

MICHIGAN, East

Deckerville (Sanilac) 6.0 inches

MICHIGAN, Extreme Southwest

MIZ077 **Berrien**

21 0400EST 0 0 Heavy Snow
0600EST

An area of low pressure moved through central and northern Indiana and brought accumulating wet snow to a small portion of southwest lower Michigan. Temperatures were marginally cold for snow, which kept accumulations to a minimum in most locations. The only exception was across northern Berrien County Michigan where around 6 inches of heavy wet snow accumulated in towns such as Coloma, Watervliet, and Paw Paw Lake.

MICHIGAN, North

MIZ020-025 **Leelanau - Benzie**

17 1600EST 0 0 Heavy Snow
2030EST

An area of low pressure moved northeast across southeast Lower Michigan on the 17th. This system spread wintry precipitation across all of northern Michigan. Most places saw a transition from light freezing rain, to sleet, to snow, without heavy accumulations of either snow or ice. There was enough ice on area roads and power lines to contribute to some accidents and power outages. An indirect fatality occurred when a car slid off an Alpena County road, striking a tree and claiming the life of the driver.
Along the northwest edge of the precipitation shield, the event produced mostly snow. Six to eight inches of snow fell from around Honor, northward across most of Leelanau County.

MIZ023>024-028>036-041>042 **Montmorency - Alpena - Crawford - Oscoda - Alcona - Manistee - Wexford - Missaukee - Roscommon - Ogemaw - Iosco - Gladwin - Arenac**

20 2330EST 0 0 Heavy Snow
21 0500EST

A low pressure system moved through the far southern Great Lakes region during the nighttime hours of the 20th into the 21st. Heavy snow north of the system was focused into a relatively narrow band across central and northern Lower Michigan. Thunder and lightning were briefly observed at Houghton Lake. By dawn on the 21st, snowfall amounts of 6 inches or more were found south of a line from Onekama, to Grayling, to Atlanta, to Presque Isle Light. The heaviest snow, 8 to 12 inches, fell along an axis from Manistee, to Houghton Lake, to Harrisville, as well as in Arenac County.

MIZ021>022 **Antrim - Otsego**

24 2230EST 0 0 Winter Storm
25 0230EST

A strong clipper system moved in from the northwest, bringing windy conditions and significant snowfall to some areas. The heaviest snow occurred during the night of the 24th, when colder air moved in and allowed Lake Michigan to enhance snowfall. Six to seven inches of snow fell in Mancelona, Elmira, and Otsego Lake. The winds produced considerable blowing and drifting snow. An indirect fatality occurred when an elderly man was killed in an auto accident on US-131 near Mancelona on the 24th. At about 4 pm (before the heavier snow arrived), his car spun out and was struck by an oncoming minivan.

MICHIGAN, Upper

MIZ002-004>006-009-084>085 **Ontonagon - Baraga - Marquette - Alger - Gogebic - Southern Houghton - Northern Schoolcraft**

24 0500EST 0 0 Winter Storm
25 0100EST

An intense Alberta Clipper system dropped across northern Lake Superior bringing heavy lake effect snow to portions of west and central Upper Michigan on the 24th. Strong northwest wind gusts to 30 mph or more also caused considerable blowing of snow and near whiteout conditions at times. 24-hour snowfall totals of 10 to 12 inches were reported by spotters in Bergland, Bessemer and Champion while 12-hour totals of 9 to 10 inches were reported just west of Pelkie in southern Houghton County and in the town of Baraga.

MICHIGAN, West

MIZ037>040-043>046-050>052-056>059-064-071 **Mason - Lake - Osceola - Clare - Oceana - Newaygo - Mecosta - Isabella - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Van Buren**

20 1900EST 0 0 Heavy Snow
21 0700EST

A synoptic scale snowstorm brought a large swath of six to ten inches of snow across most of north central and central lower Michigan as well as the lakeshore counties of western Michigan. The heaviest snow accumulations occurred north of I-96 where an axis of eight to eleven inches of snow set up from near Muskegon to just south of Big Rapids to Clare.

MINNESOTA, Central and South Central

MNZ043>045-049>050 **Morrison - Mille Lacs - Kanabec - Stearns - Benton**

19 0700CST 0 0 Heavy Snow
1400CST

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

MINNESOTA, Central and South Central

A low pressure system which developed over Kansas and Nebraska during the late afternoon on the 18th, moved into eastern Iowa by the late evening hours on the 19th. A narrow 10 to 20 mile wide band of heavy snow in the 6 to 7 inch category blanketed the region. The axis of the heavy snow extended from Belgrade (Stearns County) to 10 miles east of Woodland (Kanabec County). Amounts include 5.0 inches in Albany, 5.5 inches in Little Falls, 6.0 inches in Page, 6.5 inches in Belgrade, and 7.0 inches 5 miles east of Woodland.

MINNESOTA, Northeast

MNZ038 **Pine**

19 0900CST 0 0 Heavy Snow
1400CST

:00 A narrow band of six to eight inches of snow fell in nearly four hours in the north half of Pine County. Snow began between 9 and 10:00 AM and lasted through most of the day. However the accumulating snow ended around 2:00 PM.

MINNESOTA, Northwest

MNZ004 **Kittson**

24 0600CST 0 0 Blizzard
1200CST

A fairly strong surface low tracked from near Winnipeg in the early evening of the 23rd to northern Lake Superior by the next morning. This track only brought a dusting or so of snow to the area. However, as the surface low moved past, wind speeds became very gusty. When combined with the light falling snow and the snow already on the ground, visibilities quickly dropped in the morning hours of the 24th. Whiteout conditions developed along the Canadian border from Sarles, ND, to Hallock, MN.

MNZ002>003-027-029>030-040 **Norman - Clay - West Becker - Wilkin - West Otter Tail - Grant**

24 0900CST 0 0 Blizzard
1300CST

A burst of strong northwest winds worked up the Red River Valley, causing a four hour period of ground blizzard conditions. Wind speeds peaked between 50 and 60 mph and occurred with just a little light snow. However, the strong winds were also able to lift some snow that was already on the ground. The Minnesota State Patrol closed Interstate 94 between Moorhead and Fergus Falls. A six vehicle accident occurred on Interstate 94 at exit 54 (in Fergus Falls), which left three people injured.

MNZ004 **Kittson**

28 2053CST 0 0 Heavy Snow
29 1500CST

6 to 12 inches of snow fell in a heavy band from Lancaster, MN, to Park River, ND, to McVille, ND. Most of the heavy snow fell by early Sunday morning (of the 29th), but some light snow did linger later into the day. In Minnesota, Lancaster reported 12.5 inches o snow and Hallock reported around 9 inches. In North Dakota, Park River reported around 10 inches, Drayton and Lankin around 8 inches, and McVille between 6 and 8 inches. With this system, an inverted trough set up over the northern Red River Valley from a surface low that tracked from Kansas to Wisconsin.

MINNESOTA, Southeast

NONE REPORTED.

MINNESOTA, Southwest

MNZ089>090-097>098 **Nobles - Jackson - Pipestone - Rock**

01 1800CST 0 0 Winter Weather
02 0000CST

Freezing rain caused icy travel conditions. A power outage in Jackson was attributed to icing of an insulator at an electrical substation.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

NONE REPORTED.

MISSISSIPPI, Central

Marion County

4 ENE Sandy Hook to 5 ENE Sandy Hook **01 1525CST 1 50 0 0 100K Tornado (F1)**
1527CST

This weak tornado briefly touched down just northeast of Sandy Hook on Will Alexander Road and damaged one home taking a small portion of the roof off and downing several trees. An eye witness saw the funnel just above the tree tops, then shortly after it crossed Highway 43 debris began flying in the air. That was the time the funnel became a tornado and when damage occurred on Will Alexander Road.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
MISSISSIPPI, Central									
Carroll County									
4 SE Black Hawk	**13**	**0410CST**			**0**	**0**			**Thunderstorm Wind (G50)**
A few trees were blown down and power was knocked out.									
Lauderdale County									
2 NE Collinsville to Meridian Nas	**13**	**0700CST** **0715CST**			**0**	**0**			**Hail (0.88)**
Dime to nickel sized hail fell from just northeast of Collinsville to Meridian Naval Air Station.									
MSZ018	**Bolivar**								
	22	**0600CST** **1900CST**			**0**	**0**	**300K**		**Flood**
Locally heavy rain, 7.75 inches measured, occurred across a large portion of Bolivar county during a 36 hour period from late Saturday night (Jan 21) to Sunday night (Jan 22). This heavy rain resulted in numerous roads being flooded Sunday afternoon with water getting into a few homes and threatening several others.									
Copiah County									
4 WNW Crystal Spgs t 3 NE Crystal Spgs	**30**	**0623CST** **0633CST**			**0**	**0**			**Hail (0.88)**
A swath of dime to nickel sized hail fell across North-Central Copiah county around sunrise January 30th. The swath of hail mainly effected areas just north of Crystal Springs.									
Rankin County									
5 W Johns to 2 E Johns	**30**	**0647CST** **0658CST**			**0**	**0**			**Hail (0.88)**
A swath of dime to nickel sized hail fell across Southern Rankin county near the Cato and Johns Communities.									
MISSISSIPPI, North									
De Soto County									
Eudora	**13**	**0310CST** **0315CST**			**0**	**0**	**0.10K**		**Hail (1.00)**
Calhoun County									
Bruce to Calhoun City	**13**	**0530CST** **0545CST**			**0**	**0**	**15K**		**Thunderstorm Wind (G50)**
The roof of a storage building was destroyed at Helena Chemical near Bruce. A shop building was also damaged. The roof to a hay barn and some trees were blown down in Calhoun City.									
Union County									
New Albany	**22**	**0550CST** **0555CST**			**0**	**0**	**0.05K**		**Hail (0.88)**
Lafayette County									
10 W Oxford	**22**	**0630CST** **0635CST**			**0**	**0**	**10K**		**Lightning**
A house was damaged by a fire started by lightning.									
MISSISSIPPI, South									
NONE REPORTED.									
MISSISSIPPI, Southeast									
MSZ078	**Stone**								
	12	**0330CST** **0345CST**			**0**	**0**			**Dense Fog**
A group on mostly teenagers in a pickup truck were struck broadside by a tractor trailer truck. The accident happened on Highway 26 near Wiggins in dense fog. The pick up truck with the kids was stopped in the middle of the road. Visibilities were down to less than a half a mile in dense fog in many locations across south Mississippi. Six of the eight people in the pickup were killed in the wreck. A dense fog advisory was in effect at the time.									
MISSOURI, East									
Franklin County									
2 W Gerald	**02**	**0215CST**			**0**	**0**			**Hail (1.75)**
Emergency management officials reported golfball size hail just west of Gerald.									
Franklin County									
4 SW Washington	**02**	**0230CST**			**0**	**0**			**Hail (1.00)**
A storm spotter reported 1 inch hail southwest of Washington.									
Lincoln County									
Troy	**02**	**0245CST**			**0**	**0**			**Hail (1.00)**
A NWS cooperative observer reported 1 inch hail.									

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
MISSOURI, East									
St. Charles County									
3 SW New Melle to 2 SW New Melle	**02**	**0300CST 0301CST**	**0.5**	**40**	**0**	**0**			**Tornado (F0)**
A small tornado downed trees and damaged an outbuilding southwest of New Melle.									
Franklin County									
2 N Union	**02**	**0345CST**			**0**	**0**			**Hail (0.75)**
Storm spotters reported 3/4 inch hail north of Union.									
Lincoln County									
2 NW Troy	**02**	**0355CST**			**0**	**0**			**Hail (1.00)**
Emergency management personnel reported 1 inch hail northwest of Troy.									
St. Charles County									
5 NE Lake St Louis	**02**	**0432CST**			**0**	**0**			**Hail (0.88)**
A storm spotter reported nickel size hail northeast of Lake St. Louis.									
Reynolds County									
2 SW Reynolds to 1 SW Reynolds	**02**	**0445CST**	**0.5**	**50**	**0**	**0**			**Tornado (F0)**
A small brief tornado caused damage along Highway B southwest of Reynolds. One home suffered minor roof damage, one outbuilding was destroyed, a couple of camper trailers were overturned, and trees damaged.									
Iron County									
4 SE Belleview	**02**	**0455CST**			**0**	**0**			**Hail (0.88)**
A NWS cooperative observer reported nickel size hail.									
St. Charles County									
Weldon Spg	**02**	**0501CST**			**0**	**0**			**Hail (0.75)**
St. Charles County									
Harvester	**02**	**0510CST**			**0**	**0**			**Hail (0.75)**
Emergency management personnel reported 3/4 inch hail in Harvester area and 3/4 inch hail also fell at the National Weather Service office in Weldon Spring.									
Jefferson County									
Hillsboro	**02**	**0511CST**			**0**	**0**			**Hail (0.75)**
The public reported 3/4 inch hail in Hillsboro.									
St. Louis County									
Vly Park	**02**	**0515CST**			**0**	**0**			**Thunderstorm Wind (G52)**
Thunderstorm wind gusts caused some minor damage in the Highland Village subdivision just west of Highway 141. A couple of homes lost some roof shingles and had siding damage and several trees were uprooted.									
St. Louis County									
Creve Coeur	**02**	**0525CST**	**1**	**50**	**0**	**0**			**Tornado (F1)**
A small tornado first caused damage about 5:25 am in Creve Coeur west of Warson Road and south of Olive Boulevard. One home suffered minor roof damage while another had windows blown in. The remainder of the 1 mile path consisted of tree and power line damage.									
St. Louis County									
2 SE Berkeley	**02**	**0530CST**			**0**	**0**			**Thunderstorm Wind (G52)**
The public reported a carport blown over in Woodson Terrace.									
MISSOURI, Lower									
Dunklin County									
Holcomb	**13**	**0245CST 0250CST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
Some power lines were blown down.									
MISSOURI, Northeast									
MOZ009>010	**Scotland - Clark**								
	20	**1600CST 2000CST**			**0**	**0**	**10K**		**Ice Storm**
A major winter storm moved from the southern Plains into the eastern Great Lakes from 20 January to 21 January 2006. Temperatures were critical during the event with some areas remaining all snow while others began as rain and transitioned to snow. During the transition, ice in the form of sleet or freezing rain occurred. Significant amounts of ice occurred in thunderstorms across far northeast Missouri, parts of west central, northwest, and north central Illinois. The last of the thunderstorms ended across Bureau and Henry counties of Illinois at 1900 CST.									
Radar data showed five distinct bands of heavier precipitation across the WFO DVN county warning area. These mesoscale bands of precipitation lead to snowfall and ice amounts varying greatly over small distances. Due to temperatures right around freezing, Lee and Des Moines counties in southeast Iowa and Henderson County in west central Illinois never received more than 0.20 inch of ice									

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

MISSOURI, Northeast

accumulation at any one time. Although not substantiated by ground truth reports, it is believed that extreme southern Warren county in west central Illinois received 0.25 inch of ice accumulation since it was in a heavier band of precipitation.

Scotland and Clark counties in northeast Missouri along with McDonough and Hancock counties in west central Illinois received 0.25 inch ice accumulation followed by snowfall ranging from 0.5 to 3 inches. In Illinois, southeast Henry county and most of Bureau county received 0.25 inch ice accumulation with some areas up to 0.5 inch accumulation under the thunderstorms. Once the transition to snow was completed, co-operative observers in Bureau county received 6-8 inches of snowfall on top of the ice.

Another mesoscale band of snow deposited 4 to 6 inches of snow in a band running from Fairfield Iowa in Jefferson County to Apple River Illinois in Jo Daviess County. A co-op observer in Lowden, Iowa (Cedar County) received 7 inches of snow in just under 9 hours.

According to law enforcement, traffice accidents were most numerous in the areas that received significant ice accumulation whereas areas that received only snow reported no more than the usual amount of traffic accidents. Many schools either cancelled outright or had early dismissal before the worst of the ice accumulation began. Many trees were downed in areas that received significant ice accumulation.

MISSOURI, Northwest

Randolph County									
Moberly	**02**	**0120CST**			**0**	**0**			**Hail (0.75)**
Cooper County									
Boonville	**02**	**0235CST**			**0**	**0**			**Hail (0.88)**
MOZ037-043-053	**Jackson - Cass - Bates**								
	10	**0600CST**			**0**	**0**			**Winter Weather**
		1800CST							
	A winter storm passing by to the south, caused up to 2 inches of snow across the area.								
MOZ001>008-011>017-020-023>025	**Atchison - Nodaway - Worth - Gentry - Harrison - Mercer - Putnam - Schuyler - Holt - Andrew - De Kalb - Daviess - Grundy - Sullivan - Adair - Buchanan - Livingston - Linn - Macon**								
	20	**1400CST**			**0**	**0**			**Winter Weather**
		2100CST							
	A winter weather system brought a wintry mix of sleet, freezing rain, and snow to the area. Snow amounts were from 2 to 4 inches								

MISSOURI, Southeast

MOZ076-086>087-100-107>112-114	**Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid**								
	08	**1000CST**			**0**	**0**	**11K**		**Strong Wind**
		1700CST							
	Strong southwest winds were sustained from 35 to 39 MPH during the peak of this wind event. Measured wind gusts were as high as 47 MPH at the Cape Girardeau airport and 44 MPH at the Poplar Bluff airport.								
MOZ076-086>087-100-107>112-114	**Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid**								
	19	**1000CST**			**0**	**0**	**11K**		**Strong Wind**
		1900CST							
	Strong southwest winds were sustained around 30 MPH. Peak gusts were clocked at 43 MPH at Poplar Bluff and 40 MPH at Cape Girardeau.								

MISSOURI, Southwest

MOZ066>068-077>080-088>091-093>096-101>105	**Vernon - St. Clair - Hickory - Barton - Cedar - Polk - Dallas - Jasper - Dade - Greene - Webster - Newton - Lawrence - Christian - Douglas - Mcdonald - Barry - Stone - Taney - Ozark**								
	01	**0001CST**			**0**	**0**			**Drought**
	31	**2359CST**							
	Rainfall remained scarce for most of the Ozarks, as only areas of south central and central Missouri recieved normal rainfall. Otherwise very dry conditions persisted across southwest Missouri and extreme southeast Kansas, receiving less than two inches of precipitation for the entire month. The United States Drought Monitor had analyzed severe drought conditions over most of southwest Missouri and southeast Kansas by the end of January. Extreme drought was analyzed over two counties over southwest Missouri by the end of January, including McDonald and Newton counties.								
MOZ093	**Newton**								
	07	**1100CST**			**0**	**0**			**Wildfire**
		1700CST							
	Several Newton County fire departments and other local agencies battled several timber and grass fires throughout rural sections of the county on a day typical of red flag conditions.								

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
MISSOURI, Southwest									
MOZ088	**Jasper**								
	07	**1100CST**			**0**	**0**			**Wildfire**
		1700CST							
	Several wildfires were ignited across rural sections of Jasper County. Weather conditions were conducive to wildfire behavior including strong winds, drought impacted vegetation, and a dry airmass.								
Barry County									
Cassville	**10**	**0400CST**			**0**	**0**			**Hail (0.75)**
Barry County									
Cassville	**10**	**0400CST**			**0**	**0**			**Hail (0.75)**
Barry County									
Monett	**10**	**0420CST**			**0**	**0**			**Hail (0.75)**
Barry County									
Monett	**10**	**0420CST**			**0**	**0**			**Hail (0.75)**
Lawrence County									
Mt Vernon	**10**	**0430CST**			**0**	**0**			**Hail (0.88)**
Lawrence County									
Mt Vernon	**10**	**0430CST**			**0**	**0**			**Hail (0.88)**
Barry County									
Eagle Rock	**12**	**2045CST**			**0**	**0**			**Hail (1.00)**
Barry County									
Eagle Rock	**12**	**2045CST**			**0**	**0**			**Hail (1.00)**
Stone County									
Kimberling City	**12**	**2055CST**			**0**	**0**			**Hail (0.88)**
Stone County									
Kimberling City	**12**	**2055CST**			**0**	**0**			**Hail (0.88)**
Howell County									
South Fork	**12**	**2350CST**			**0**	**0**			**Hail (0.88)**
Howell County									
South Fork	**12**	**2350CST**			**0**	**0**			**Hail (0.88)**
MONTANA, Central									
MTZ011	**Hill**								
	01	**0800MST**			**0**	**0**			**Ice Storm**
	Freezing rain fell over portions of Northern Montana early on New Year's Day. The Montana Department of Transportation reported over 167 miles of roads that were ice covered and used 49 trucks to spread de-icer and sand over the area. The icy roads contributed to numerous traffic accidents and damaged signs but no serious injuries were reported.								
MTZ009	**North Rocky Mountain Front**								
	06	**1930MST**			**0**	**0**			**High Wind (G51)**
	A high wind event occurred along the Northern Rocky Mountain Front during the evening of the 6th. Reported wind speeds include a gust to 59 mph at Browning.								
MTZ009	**North Rocky Mountain Front**								
	09	**0555MST**			**0**	**0**			**High Wind (G55)**
	A high wind event occurred along the Northern Rocky Mountain Front during the afternoon and early evening hours of the 9th. Reported wind speeds include a gust to 63 mph at the Two Medicine Department of Transportation site.								
MTZ012>013	**Cascade - Chouteau**								
	10	**1131MST**			**0**	**0**			**High Wind (G58)**
		1554MST							
	A high wind event occurred on the 10th. Reported wind speeds include a gust to 67 mph at Cascade 5S and a gust to 58 mph at Highwood.								
MTZ015-055	**Madison - Gallatin**								
	15	**1700MST**			**0**	**0**			**Heavy Snow**
	A winter storm brought heavy snows to the high country of Southwest Montana on the 15th. Reported snow fall amounts include: 8 inches at West Yellowstone 8SSW and 8 inches at West Yellowstone 7SW.								
MTZ009-048	**North Rocky Mountain Front - Southern Rocky Mountain Front**								
	17	**0436MST**			**0**	**0**			**High Wind (G58)**
		0815MST							
	A high wind event occurred during the early morning hours of the 17th. Reported wind speeds include a gust to 67 mph at Heart Butte, a gust to 63 mph at the Two Medicine Department of Transportation site, a gust to 61 mph at Highwood and a gust to 56 mph at Browning.								

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

MONTANA, Central

MTZ009>010-048 — **North Rocky Mountain Front - Eastern Glacier - Southern Rocky Mountain Front**

23	**0053MST**	**0**	**0**		**High Wind (G58)**
	1400MST				

A high wind event occurred during the early morning hours of the 23rd. Reported wind speeds include a gust to 85 mph at East Glacier Park 8SE, a gust to 67 mph at Cut Bank 3SW, a gust to 66 mph at Sweet Grass, a gust to 61 mph Browning and Cascade 5S, a gust to 60 mph at Choteau and a gust to 54 mph at Rudyard 16SW.

MTZ015-055 — **Madison - Gallatin**

31	**0800MST**	**0**	**0**		**Heavy Snow**

A winter storm brought heavy snows to portions of Southwest Montana on the 31st. Reported snow fall amounts include: 9 inches at Big Sky 7WNW and 9 inches at Big Sky Ski Resort.

MONTANA, East

MTZ016>017-022 — **Central And Se Phillips - Central And Southern Valley - Garfield**

01	**0800MST**	**0**	**1**		**Winter Weather/Mix**
	1400MST				

A period of freezing rain occured across Phillips, Valley, and Garfield Counties during the morning and early afternoon. Roads and untreated surfaces became icy across the area, and across Phillips County roads were open for emergency travel only. One person slipped and fell on the ice and injured his shoulder in Glasgow (Valley County).

MTZ017-020 — **Central And Southern Valley - Western Roosevelt**

11	**0530MST**	**0**	**2**		**Winter Weather/Mix**
	0900MST				

An area of freezing rain fell in the Milk and Missouri River Valleys from about 20 miles west of Glasgow in Valley County to just west of Poplar in Roosevelt County. Rainfall amounts of two to five hundredths of an inch caused roads to become icy and led to two bad vehicle accidents on Highway 2, west of Poplar. Two people suffered broken bones in the accidents. An accident occurred approximately 6 miles north of Glasgow on the St. Marie Highway. A vehicle slid off the road due to the slippery conditions, but no injuries were reported. There was another vehicle accident due to the icy roads north of Nashua. A Montana Department of Transportation vehicle towing a trailer hit ice and the trailer swing around and hit the towing vehicle. There were no injuries reported. A school bus in Glasgow slid off the road and into a ravine, but there were no injuries reported.

MTZ018-061 — **Daniels - Northern Valley**

21	**0200MST**	**0**	**0**		**Winter Weather/Mix**
	0800MST				

A band of snow fell across northern Valley county and northern Daniels county early on the morning of the 21st. 3 to 5 inches of snow fell across the area, with local amounts of up to 6 inches at Opheim and Scobey.

MONTANA, South

NONE REPORTED.

MONTANA, West

MTZ001>002-004-006-043 — **Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region - Bitterroot / Sapphire Mountains - Potomac / Seeley Lake Region**

09	**1700MST**	**0**	**0**		**Winter Storm**
11	**0500MST**				

A strong winter storm brought combination of heavy snow and strong southerly winds to much of the Northern Rockies. Widespread accumulations of 4 to 8 inches fell in the valleys with 12 to 18 inches falling over the mountains. Southerly winds at 15 to 30 mph, with gusts as high as 41 mph were measured with the storm. Newspapers reported wind damage to trees and signs in the Lower Clark Fork Region causing power outages.

MTZ002 — **West Glacier Region**

14	**1400MST**	**0**	**0**		**Heavy Snow**
15	**1100MST**				

4 to 8 inches of snow fell over the West Glacier Region.

MTZ002 — **West Glacier Region**

14	**1500MST**	**2**	**0**		**Avalanche**

Three snowmobilers were caught in a massive avalanche at Red Meadow Lake near Olney. One person survived, while two others perished. One of the fatalities was the result of injuries sustained in the incident. The other was caused by suffocation, a result of being buried. F22OU, M21OU

MTZ002-004-006-043 — **West Glacier Region - Lower Clark Fork Region - Bitterroot / Sapphire Mountains - Potomac / Seeley Lake Region**

16	**1730MST**	**0**	**0**		**Heavy Snow**
17	**1730MST**				

8 to 12 inches of snow fell across portions of Western Montana. Local southwest winds blew at 15 to 25 mph causing some blowing and drifting of snow.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
MONTANA, West									
MTZ002-004	**West Glacier Region - Lower Clark Fork Region**								
	20	**0300MST**			**0**	**0**			**Heavy Snow**
	21	**1500MST**							
	4 to 8 inches of snow fell in the valleys over portions of Northwest Montana, with up to 13 inches reported in the mountains								
MTZ004-006	**Lower Clark Fork Region - Bitterroot / Sapphire Mountains**								
	28	**0300MST**			**0**	**0**			**Heavy Snow**
		1945MST							
	Convective snow bands brought localized snow accumulations of 5 to 14 inches to portions of West Central Montana.								
MTZ001>002-004	**Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region**								
	29	**1000MST**			**0**	**0**			**Heavy Snow**
	30	**1000MST**							
	Heavy snow event brought 5 to 9 inches of new snow to portions of Northwest Montana.								
NEBRASKA, Central									
	NONE REPORTED.								
NEBRASKA, East									
Jefferson County									
4 SW Fairbury to	**28**	**1521CST**			**0**	**0**			**Hail (1.00)**
5 S Fairbury		**1533CST**							
	Dime to Quarter size hail covered the ground south through southwest of Fairbury. Smaller hail fell into and just east of Fairbury around this time as well, and 1 to 2 inch hail accumulation on a highway east of town caused an accident which resulted in an injury (non-direct) around 400 pm cst.								
NEBRASKA, Extreme Northeast									
	NONE REPORTED.								
NEBRASKA, Extreme Southwest									
	NONE REPORTED.								
NEBRASKA, South Central									
	NONE REPORTED.								
NEBRASKA, West									
	NONE REPORTED.								
NEVADA, North									
NVZ034	**Ruby Mountains/E Humboldt Range**								
	18	**2000PST**			**0**	**0**			**Heavy Snow**
	19	**0300PST**							
	8 to 12 inches of new snow was reported.								
NEVADA, South									
NVZ014	**Esmeraldo/Central Nye**								
	01	**1700PST**			**1**	**6**			**Winter Storm**
	02	**2000PST**							
	Dyer received 8 inches of snow. During the early morning hours of January 3rd, icy roads contributed to three separate car crashes on Highways 95 and 6 in Esmeralda County, resulting in one fatality (indirect) and six injuries. M30VE								
NEVADA, West									
Carson City (C)									
Stewart to	**01**	**0000PST**			**0**	**0**	**1.2M**		**Flood**
Carson City	**02**	**1400PST**							
Douglas County									
10 S Minden to	**01**	**0000PST**			**0**	**0**	**524K**		**Flood**
5 N Minden		**0300PST**							
Lyon County									
Wellington to	**01**	**0000PST**			**0**	**0**	**165K**		**Flood**
Fernley	**03**	**0600PST**							
Storey County									
Countywide	**01**	**0000PST**			**0**	**0**	**243K**		**Flood**
		1200PST							

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

NEVADA, West

Washoe County

Verdi to Wadsworth — **01** — **0000PST – 1800PST** — Killed **0** — Injured **0** — Property **623K** — **Flood**

Flooding continued across western Nevada into early January. However, rivers and streams reached flood stage and then started to recede on January 1st. The entire Truckee River was below flood stage by the evening of the 1st. The entire Carson River was below flood stage by early on the 3rd.

NVZ003 **Greater Reno/Carson City/Minden Area**
07 **1930PST** — **0** — **0** — **High Wind (G59)**

A 59 kt (68 mph) wind gust was reported by a wind sensor 5 miles south of Washoe City.

NVZ003 **Greater Reno/Carson City/Minden Area**
07 **2000PST** — **0** — **0** — **50K** — **High Wind (G85)**

An 85 kt (98 mph) wind gust was recorded by the wind gauge on the roof of the KPTL radio station. The high wind affected a two-block area in south Carson City. The roof overhang of Silver State Fitness was damaged. Debris from the building became projectiles that damaged automobiles and windows of businesses nearby. Several houses along Industrial Park Road suffered minor damage. Downed power lines caused a loss of power to the area for a couple of hours.

NVZ003 **Greater Reno/Carson City/Minden Area**
11 **1255PST** — **0** — **0** — **High Wind (G50)**

A 50 kt (58 mph) wind gust was reported by a trained spotter 5 miles WSW of Gardnerville.

NVZ002 **Greater Lake Tahoe Area**
14 **0200PST – 1800PST** — **0** — **0** — **Heavy Snow**

A winter storm dumped 2 to 3 feet of snow in the Sierra.

Storm total snowfall amounts:

Diamond Peak Ski Resort	22 inches

NVZ003 **Greater Reno/Carson City/Minden Area**
14 **0405PST** — **0** — **0** — **High Wind (G63)**

A 63 kt (72 mph) wind gust was reported by a trained spotter 6 miles ESE of Gardnerville.

NVZ003 **Greater Reno/Carson City/Minden Area**
17 **1100PST** — **0** — **0** — **High Wind (G52)**

A 52 kt (60 mph) wind gust recorded at the NDOT sensor at Washoe Valley.

NVZ003 **Greater Reno/Carson City/Minden Area**
17 **1520PST** — **0** — **0** — **High Wind (G57)**

A 57 kt (66 mph) wind gust recorded at the DRI sensor at Wolf Run Golf Course in south Reno.

NVZ003 **Greater Reno/Carson City/Minden Area**
17 **1530PST** — **0** — **0** — **High Wind (G56)**

A 56 kt (64 mph) wind gust recorded by the wind sensor at Pleasant Valley School 10 miles south of Reno

NVZ003 **Greater Reno/Carson City/Minden Area**
17 **1615PST** — **0** — **0** — **High Wind (G55)**

A 55 kt (63 mph) wind gust recorded at the NDOT sensor at Black Springs 6 miles NNW of Reno.

NVZ002 **Greater Lake Tahoe Area**
17 **1800PST** – **18** **2000PST** — **0** — **0** — **Heavy Snow**

A winter storm brought strong winds and heavy snow to the Sierra and western Nevada. Up to 3 feet of snow fell in the higher elevations of the Sierra Nevada and Carson Range.

Storm total snowfall amounts:

Diamond Peak Ski Resort	34 inches
Mt. Rose Ski Resort (8200 ft)	23 inches
1 NE Incline Village	16 inches

NVZ004 **Western Nevada Basin And Range**
17 **1815PST** — **0** — **0** — **High Wind (G53)**

A 53 kt (61 mph) wind gust recorded by the DRI sensor at Pyramid Lake Fishery at Sutcliffe.

NVZ003 **Greater Reno/Carson City/Minden Area**
17 **1820PST** — **0** — **0** — **High Wind (G50)**

A 52 kt (60 mph) wind gust reported by a trained spotter 5 miles WSW of Gardnerville.

NVZ003 **Greater Reno/Carson City/Minden Area**
28 **1132PST** — **0** — **0** — **High Wind (G53)**

A 53 kt (61 mph) wind gust reported by a trained spotter (at 4780 ft elevation) 5 miles WSW of Gardnerville.

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

NEVADA, West

NVZ003 **Greater Reno/Carson City/Minden Area**

28 1310PST 0 0 High Wind (G57)

A 57 kt (66 mph) wind gust recorded at the NWS forecast office in Reno.

NVZ003 **Greater Reno/Carson City/Minden Area**

28 1330PST 0 0 High Wind (G53)

A 53 kt (61 mph) wind gust reported 5 miles north of Reno.

NVZ003 **Greater Reno/Carson City/Minden Area**

28 1340PST 0 0 High Wind (G60)

A 60 kt (69 mph) wind gust reported in Washoe City.

NVZ002 **Greater Lake Tahoe Area**

30 1000PST 0 0 Heavy Snow
2000PST

A fast-moving winter storm brought 1 to 2 feet of snow to the Sierra Nevada and the Carson Range.

Storm total snowfall amounts:

Mt. Rose Ski Resort	14 inches
Diamond Peak Ski Resort (8500 ft)	12 inches

NVZ003 **Greater Reno/Carson City/Minden Area**

30 1110PST 0 0 High Wind (G54)

A 54 kt (62 mph) wind gust was recorded by the NDOT sensor at Wolf Run Golf Course in south Reno.

NVZ003 **Greater Reno/Carson City/Minden Area**

30 1130PST 0 0 High Wind (G56)

A 56 kt (64 mph) wind gust was recorded by a sensor at the DRI Sage Building at Stead.

NVZ003 **Greater Reno/Carson City/Minden Area**

30 1130PST 0 0 High Wind (G54)

A 54 kt (62 mph) wind gust was recorded at the NWS forecast office in Reno.

NEW HAMPSHIRE, North and Central

NHZ003>005 **Northern Grafton - Northern Carroll - Southern Grafton**

18 1912EST 0 0 0 0 Flood
19 1242EST

Temperatures in the 50s combined with 1 to 2 inches of rain causing minor flooding in portions of New Hampshire. The Pemigewasset River at Woodstock (flood stage 9.0 ft) crested at 9.7 ft, and at Plymouth (flood stage 13.0 ft) crested at 14.2 ft. The Saco River at Conway (flood stage 9.0 ft) crested at 10.0 ft. There were no reports of damage.

NHZ013>014 **Interior Rockingham - Coastal Rockingham**

23 1500EST 0 0 Heavy Snow
1800EST

On Monday, January 23, low pressure along the southern New Jersey coast tracked northeast through the Gulf of Maine. Snow developed across southern New Hampshire and Maine by late morning and lasted till early evening with light to moderate accumulations reported. Amounts reported were generally in the 4 to 7 inch range across central and southeastern New Hampshire

NHZ014 **Coastal Rockingham**

31 1101EST 0 0 5K Storm Surge
1313EST

Low pressure moved slowly up the mid Atlantic coast late in the day on the 30th and strengthened as it moved into the Gulf of Maine on the 31st. The storm continued to intensify before moving out to sea on February 1st. The parking lot of a local restaurant in Portsmouth was reported flooded.

NEW HAMPSHIRE, Southern

NHZ011 **Cheshire**

15 0800EST 0 0 5K Strong Wind
0900EST

NHZ011 **Cheshire**

15 0800EST 0 0 10K Winter Storm
1100EST

An intensifying area of low pressure passing south of New England and into the Gulf of Maine produced a wintry mix of precipitation that changed to snow, and gusty northeast winds across southwest New Hampshire during the morning of 15 January 2006. Generally, between 3 and 8 inches of snow fell. This heavy, wet snow, combined with gusty northeast winds, brought down tree limbs and power lines across the region.

The hardest hit by this winter storm was Cheshire county, where wind gusts up to 47 mph were reported in Spofford at 8:30 AM. No known injuries directly related from this storm.

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

NEW JERSEY, Northeast

NJZ003-005>006-011 **Bergen - Essex - Hudson - Union**

18 0735EST 0 0 High Wind (G50)
0800EST

High winds developed after 6 AM on the morning of Wednesday, January 18th, and lasted until around noon as a cold front approached the region. Wind gusts up to 70 mph (61 kt) downed many trees and power lines, which caused widespread power outages.

NEW JERSEY, South and Northwest

NJZ008 **Morris**

02 1700EST 0 0 Winter Weather
03 1400EST

NJZ001-007 **Sussex - Warren**

03 0200EST 0 0 Winter Storm
1400EST

A winter storm brought a mix of freezing rain, sleet and snow to northwestern New Jersey affecting Sussex County the most. Snow accumulations reached around eight inches in the higher terrain of Sussex County and ice accretions reached one-quarter of an inch in Sussex and Warren Counties. Untreated roads were hazardous. Precipitation actually started as light rain during the afternoon on the 2nd. But as its intensity increased and colder air filtered south, it changed over to sleet and snow during the late afternoon. Precipitation then changed back to rain in the valleys and freezing rain in the higher terrain of Sussex and Warren Counties. Precipitation by that point was mainly rain in Morris County. Precipitation then changed back to snow during the early morning of the 3rd and ended during the afternoon of the 3rd. Accumulations included 8.5 inches at High Point State Park (Sussex County), 8.0 inches in Wantage (Sussex County), 7.8 inches in Highland Lakes (Sussex County), 5.5 inches in Montague (Sussex County), 4.0 inches in Newton (Sussex County), 3.0 inches in Blairstown (Warren County), 2.3 inches in Marcella (Morris County) and 2.0 inches in Belvidere (Warren County) and Butler (Morris County).

The wintry weather was caused by a low pressure system that moved west to east across the central part of the United States. In tandem, a high pressure system skirted across southeastern Canada and kept a fresh supply of cold air near the surface. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City.

Camden County

Haddonfield 03 0437EST 0 0 Flood
0815EST

Heavy rain that fell during the afternoon and evening of the 2nd produced minor flooding along the Cooper River in Camden County during the morning of the 3rd. The rain began during the morning of the second and tapered off to drizzle during the late morning on the 3rd. The Cooper River at Haddonfield was above its 2.8 foot flood stage from 437 a.m. EST through 815 a.m. EST on the 3rd. It crested at 2.85 feet at 645 a.m. EST on the 3rd. Storm totals included 1.99 inches in Somerdale and 1.84 inches in Pennsauken. The heavy rain was caused by a low pressure system that moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved offshore that day. By 7 p.m. EST on the 3rd the low pressure system was about 400 miles east of Atlantic City.

Somerset County

Griggstown to 03 0518EST 0 0 Flood
South Branch 05 0403EST

Heavy rain that fell from the late afternoon of the 2nd into the morning of the 3rd produced minor flooding along sections of the North Branch of the Raritan River and the Millstone River in Somerset County. The rain began during the late morning of the second and tapered off to drizzle during the late morning on the 3rd. The North Branch of the Raritan River at the village of South Branch was above its 7 foot flood stage from 625 a.m. EST through Noon EST on the 3rd. It crested at 7.35 feet at 845 a.m. EST. The Millstone River at Griggstown was above its 10 foot flood stage from 518 a.m. EST on the 3rd through 403 a.m. EST on the 5th. It crested at 12.7 feet at 10 p.m. EST on the 3rd. Storm totals included 2.03 inches in Blackwells Mills, 1.47 inches in Somerville and 1.45 inches in Pottersville. The heavy rain was caused by a low pressure system that moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved offshore that day. By 7 p.m. EST on the 3rd the low pressure system was about 400 miles east of Atlantic City.

NJZ012-014-023>026 **Middlesex - Eastern Monmouth - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

03 0800EST 0 0 0 Coastal Flood
1300EST

The combination of a high pressure system over Canada and a low pressure system exiting the Delaware coast produced widespread minor tidal flooding during the daytime high tide on the 3rd as well as some minor to moderate beach eroision. It also produced pockets of minor tidal flooding with the daytime high tide on the 4th. Ongoing rain on the 3rd also contributed to the flooding. In Cape May County, a few streets in Wildwood were flooded at high tide. In Atlantic County, in Atlantic City, students in pre-school programs at Fairmount and Texas Avenues were dismissed early because of the flooding. U.S. Route 40 (The Black Horse Pike) was

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

NEW JERSEY, South and Northwest

closed in Pleasantville. In Ocean County, many beaches were submerged at high tide and minor tidal flooding was reported on the Barnegat Bay side on Long Beach Island. In Monmouth County, offshore waves reached fourteen feet and caused some moderate beach erosion. In Manasquan Borough, the high tide caused flooded basements. In Belmar Borough, southbound New Jersey State Route 35 flooded. In Ocean Township, flooding along Deal Lake reached the foundation of one home. Flooding also reached the Poplar Village parking lot. On the Raritan Bay side of Monmouth County, coastal and roadway flooding was reported in Highlands Borough, Middletown Township, Union Beach Borough, Keyport Borough and Aberdeen Township. The high tide caused flooding to spread inland along tidal sections of the Matawan Creek between Keyport and Aberdeen and flooded one roadway.

Highest tides included 7.61 feet above mean lower low water in Sandy Hook (Monmouth County) and 7.32 feet above mean lower low water in Cape May (Cape May County). Minor tidal flooding starts at 6.7 feet above mean lower low water and moderate tidal flooding starts at 7.7 feet above mean lower low water. The coastal flooding was caused by the east to northeast flow between a low pressure system that moved west to east across the central part of the United States and a high pressure system that skirted across southeastern Canada. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City. While the low pressure system moved well offshore by the morning of the 4th, the high pressure system built south into northern New England and maintained a weaker, but still onshore flow and helped cause pockets (lesser) of minor tidal flooding with the daytime high tide cycle on the fourth

NJZ016>019-021 **Salem - Gloucester - Camden - Northwestern Burlington - Cumberland**

04	**1400EST**	**0**	**0**	**0**	**Coastal Flood**
	1800EST				

The combination of a high pressure system over Canada, a low pressure system that exited the Delaware coast on the 3rd and runoff from the heavy rain produced some minor tidal flooding during the daytime high tide on the 4th in Upper Delaware Bay and along the Delaware River as well as along tidal sections of its tributaries. The high tide at Reedy Island (New Castle County in Delaware) reached 7.29 feet above mean lower low water. Minor tidal flooding begins at 7.2 feet above mean lower low water. The high tide in Phialdelphia reached 8.44 feet above mean lwoer low water. Minor tidal flooding begins at 8.2 feet above mean lower low water. The tidal flooding was caused by the east to northeast flow between a low pressure system that moved west to east across the central part of the United States and a high pressure system that skirted across southeastern Canada. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City. While the low pressure system moved well offshore by the morning of the 4th, the high pressure system built south into northern New England. This maintained a weaker, (but still) up the bay flow and helped cause pockets of minor tidal flooding with the daytime high tide cycle.

NJZ001 **Sussex**

04	**2300EST**	**0**	**0**		**Winter Weather**
05	**0500EST**				

A weakening occluded front caused a light mixture of snow, sleet and freezing rain across Sussex County for several hours overnight on the 4th. Snow and sleet accumulations were less than half an inch and ice accretions were only a few hundredths. Nevertheless, untreated roads became slippery. The occluded front moved slowly east from Pittsburgh, Pennsylvania at 7 p.m. EST on the 4th to the Delaware River Valley at 7 a.m. EST on the 5th and was off the New Jersey coast by 10 a.m. EST on the 5th. Precipitation preceded the occluded front by a couple of hours.

Cape May County

Cape May	**14**	**0526EST**	**0**	**0**	**Thunderstorm Wind (G50)**

A severe thunderstorm produced wind gusts to 55 to 60 mph in Cape May City.

Warren County

Belvidere	**14**	**0558EST**	**0**	**0**	**Thunderstorm Wind (G50)**

A severe thunderstorm knocked down a couple of trees and wires in Belvidere.

NJZ001-013>014-023>025 **Sussex - Western Monmouth - Eastern Monmouth - Western Cape May - Eastern Cape May - Eastern Atlantic**

14	**1800EST**	**0**	**0**	**250K**	**High Wind (G59)**
15	**1600EST**				

NJZ007>010-012-015>022-026>027 **Warren - Morris - Hunterdon - Somerset - Middlesex - Mercer - Salem - Gloucester - Camden - Northwestern Burlington - Western Ocean - Cumberland - Western Atlantic - Eastern Ocean - Southeastern Burlington**

14	**1800EST**	**0**	**0**	**200K**	**Strong Wind**
15	**1600EST**				

A slow moving and intense low pressure system combined with a high pressure ridge across the Mississippi Valley to produce a prolonged period of strong to high winds across New Jersey from the evening on the 14th through the late afternoon on the 15th. The strongest wind gusts occurred between 5 a.m. and 8 a.m. EST on the 15th. The persistent strong winds combined with ground that was wet and not frozen caused more tree damage than normally would be the case. Downed trees and tree limbs consequently helped snap poles and caused scattered power outages. Jersey Central Power and Light reported about 21,000 of its customers lost power in northern New Jersey, Conectiv Energy reported about 18,000 of its customers lost power in southern New Jersey and Public Service Electric and Gas reported about 1,300 of its customers lost power. All power was restored by the 16th. In Morris County, Boonton

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

NEW JERSEY, South and Northwest

Township reported about a dozen weather related calls. Several schools in Rockaway Borough cancelled classes on the 16th because power was not restored in time.

Specific wind gusts included 68 mph in Cape May (Cape May County), 65 mph in Atlantic City (Atlantic County), 63 mph at Cape May Harbor (Cape May County), 61 mph in Keansburg (Monmouth County), 58 mph in Wantage (Sussex County), 56 mph in Lawrenceville (Mercer County), 54 mph in Tabernacle (Burlington County) and Barnegat Light (Ocean County), 48 mph at the Atlantic City International Airport and Hillsborough (Somerset County), 41 mph in Millville (Cumberland County) and Trenton (Mercer County).

The intense low pressure system that was responsible for the winds moved from the Delaware Valley during the early afternoon on the 14th, to the New Jersey coast at 7 p.m. EST on the 14th, onto Long Island at 10 p.m. EST on the 14th, in the New England coastal waters east of Massachusetts at 7 a.m. EST on the 15th and into Nova Scotia by early in the afternoon on the 15th. As the low pressure system exited Nova Scotia and the high pressure system built east into the Ohio Valley, winds started diminishing during the late afternoon on the 15th.

NJZ001-008>010-012>018-021 **Sussex - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Cumberland**

14	**1900EST**	**0**	**0**		**Winter Weather**
15	**0900EST**				

NJZ019>020-022>027 **Northwestern Burlington - Western Ocean - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean - Southeastern Burlington**

15	**0100EST**	**0**	**0**		**Winter Storm**
	0900EST				

A very intense low pressure system produced bands of heavier snow across New Jersey and affected the northwestern and southeastern part of the state the most. As the system closed in the mid levels, some embedded thunderstorms within the bands formed across southern New Jersey. The strong winds combined with the heavy snow to produce near blizzard conditions during the one to two hour period when the heaviest snow fell. Accumulations along the Sussex and Morris County border averaged 3 to 6 inches. Similar accumulations occurred from Burlington and Ocean Counties southeast through Cape May County. Lesser accumulations occurred elsewhere in the state. Rain began falling during the afternoon of the 14th. As the low pressure system intensified and moved offshore, the precipitation changed to snow during the evening. The change to snow occurred fairly uniformly across the state from around 7 p.m. EST in Sussex County, to around 8 p.m. EST in Mercer County and between 9 p.m. and 10 p.m. EST in Cumberland and Cape May Counties. The snow fell at its heaviest between 10 p.m. EST on the 14th and 2 a.m. EST on the 15th. The snow ended between 3 a.m. EST and 6 a.m. EST across most of the area, except for Monmouth and Ocean Counties where a last band persisted for a few more hours. Because the heavy snow occurred late on a Saturday night (the 14th into the 15th) and was over by Sunday morning the 15th, very few accidents were reported. Most of the reported accidents were minor: mainly spinouts and fender-benders.

Specific accumulations included 6.5 inches in Hamilton Township (Atlantic County), 6.2 inches in Highland Lakes (Sussex County), 5.7 inches in Mount Laurel (Burlington County), 5.5 inches in Florence (Burlington County) and Jefferson Township (Morris County), 4.7 inches at the Atlantic City International Airport, 4.0 inches in Ocean City (Cape May County), Flemington (Hunterdon County), Marcella (Morris County), Pottersville (Somerset County) and Lawrenceville (Mercer County), 3.7 inches in Sussex (Sussex County), 3.5 inches in Pennsauken (Camden County) and Malaga (Gloucester County), 3.4 inches in Cream Ridge (Monmouth County), 3.0 inches in Lindenwold (Camden County) and Trenton (Mercer County), 2.2 inches in Hillsborough (Somerset County), 1.5 inches in Metuchen (Middlesex County) and 1.0 inch in Belvidere (Warren County). A cold front moved through the Delaware Valley during the late afternoon on the 14th. An intense low pressure system formed on the front and moved slowly east through New Jersey during the first half of the evening and was off the coast by 10 p.m. EST on the 15th. This permitted the rain to change to snow across the state.

NJZ001 **Sussex**

17	**2100EST**	**0**	**0**		**Winter Weather**
18	**0000EST**				

A mixture of sleet and light freezing rain fell across Sussex County during the second half of the evening on the 17th. A strong southeasterly flow changed the freezing rain to rain by Midnight EST on the 18th. Ice accretions were generally less than one tenth of an inch and caused slippery travel on untreated roadways. The wintry mix of precipitation occurred in advance of a strong warm front that was moving north from the Tennessee Valley on the morning of the 17th. The increasing intense southeast winds scoured the cold air near the surface and changed the freezing rain to plain rain overnight on the 17th.

NJZ008-012>013-015>023-025-027 **Morris - Middlesex - Western Monmouth - Mercer - Salem - Gloucester - Camden - Northwestern Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Atlantic - Southeastern Burlington**

18	**0430EST**	**0**	**0**	**5.3M**	**High Wind (G60)**
	0900EST				

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

NEW JERSEY, South and Northwest

NJZ001-007>010-012>027

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

18 0500EST 0 0 200K Strong Wind
1700EST

Strong to high southeast winds during the early morning and strong west winds during the late morning and afternoon buffeted New Jersey. Peak wind gusts nearly reached 70 mph during the early morning and averaged around 45 mph during the westerly flow in the late morning and afternoon. The morning high winds downed numerous trees and power lines and caused traveling delays during the morning rush due to closed roads. Garbage and recycling pails were strewn. Several roofs were torn away. More roofs and homes were damaged by downed trees. Vehicles were also damaged by downed trees. Throughout the state about 150,000 homes and businesses lost power. It took until the afternoon of the 19th to have power fully restored. Hardest hit were Camden, Gloucester and Middlesex Counties. No serious injuries were reported. Similar to the strong to high winds on the 14th and 15th the wet ground and in this case a different wind direction (southeast) during the early morning made it easier for trees to be uprooted.

In Cumberland County, several roads were closed in Bridgeton, Greenwich, Millville and Vineland. Trees up to 4.5 feet in diameter were snapped in Millville. In Atlantic County, downed trees and wires forced traffic to be routed onto the White Horse Pike (U.S. Route 30) and the Atlantic City Expressway. A piece of a large sign at the Trump Plaza Hotel and Casino fell down and caused a road closure. No injuries at street level occurred.

Gloucester County Emergency Services was rocked with 415 weather related calls. One downed tree fell into a home in Franklin Township. Trees fell onto roofs in Monroe Township and Pitman Borough. a downed tree destroyed a porch in the city of Woodbury. The high winds also destroyed an advertising sign in the city. Power outages forced school cancellations in East Greenwich Township, Franklin Township, Logan Township, Newfield Borough and South Harrison Township. In Camden County, downed trees crashed through the roofs of homes in Audubon and Berlin Boroughs. About 5 other homes in Berlin had large pine trees on their roofs. Two roofs in Gloucester City were damaged by downed trees. A large billboard just off of Admiral Wilson Boulevard in Camden was knocked down. Shingles were ripped from homes in Pennsauken Township. A downed tree severely backed up traffic on Camden County Route 561 in Cherry Hill Township. Large power outages affected Cherry Hill and Pennsauken Townships. The power outages caused a delay opening for Camden County College.

In Burlington County, a county salt silo in Delran Township lost its roof and one wall collapsed. In Moorestown Township, a roof of one home was damaged by a downed tree. Downed trees blocked Camden Avenue. In Willingboro Township, sheds were tossed over fences. A downed pole on new Jersey State Route 73 and Ramblewood Parkway in Mount Laurel Township caused large traffic disruptions. In Mercer County, the tin roof of a home was peeled away by the high winds. In Morris County, downed wires caused the complete closure of Eastbound New Jersey State Route 10 in Parsippany Township and diverted traffic onto New Jersey State Route 53. One third of Boonton Township lost power. All Mendham Township schools were closed.

In Middlesex County, a large portion (50 feet by 60 feet) of the Highland Park Borough Department of Public Works building was peeled away. Shingles and insulation was also blown away. The roof landed onto and damaged two unoccupied vehicles. In Sayreville Borough, one tree damaged the roof of a home. Vehicles were damaged by downed trees in New Brunswick. Road closures occurred in Highland Park Borough, Spottswood Borough, Monroe Township, Sayreville Borough and Woodbridge Township. In Woodbridge Township, the ramp from U.S. Route 1 to New Jersey State Route 35 was closed. Large outages occurred in Edison and Old Bridge Townships. In Monmouth County, in Raritan Bay a passenger ferry en route to Manhattan from Belford (Middletown Township) was struck by waves that crashed over its bough. All passengers put on life jackets. The ferry arrived safely, but subsequent service was postponed for several hours. In Middletown Township, a school bus struck a downed tree, but no injuries occurred. Vehicles were damaged by downed trees in Colts Neck Township and Englishtown Borough. Freehold Township emergency services responded to 75 weather related calls.

Peak wind gusts included 68 mph in Keansburg (Monmouth County), 63 mph in Morristown (Morris County), 60 mph in Turnersville (Gloucester County), Lindenwold (Camden County) and Lakehurst (Ocean County), 59 mph in Hammonton (Atlantic County), 58 mph in Elmer (Salem County), 57 mph in Cape May (Cape May County), 49 mph in Harvey Cedars (Ocean County), 48 mph at the Atlantic City International Airport, 44 mph in Trenton (Mercer County), 41 mph in Mount Holly (Burlington County) and 36 mph in Sussex (Sussex County) and Somerville (Somerset County).

The strong and high winds were caused by an increasing southeasterly low level jet preceding a cold front during the early morning of the 18th. This feature peaked at about 100 mph about 2,000 feet above the ground. The cold front moved through New Jersey between 9 a.m. EST and 11 a.m. EST on the 18th and strong west winds occurred behind the front from late in the morning through most of the afternoon before they diminished at night.

Somerset County

Griggstown to South Branch **18 1352EST 0 0 Flood**
19 2119EST

The combination of rain through the morning and afternoon of the 18th and melting snow produced flooding along sections of the

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

NEW JERSEY, South and Northwest

North Branch of the Raritan River and the Millstone River from the afternon of the 18th into the evening of the 19th. Storm totals averaged between 1.0 and 1.5 inches and with the additional water from the melting snow caused poor drainage and river flooding. The North Branch of the Raritan River at the village of South Branch was above its 7 foot flood stage from 152 p.m. EST through 1011 p.m. EST on the 18th. It crested at 8.02 feet at 630 p.m. EST. The Millstone River at Griggstown was above its 10 foot flood stage from 245 p.m. EST on the 18th through 919 p.m. EST on the 19th. It crested at 11.41 feet at 8 a.m. EST on the 19th. Storm totals included 1.33 inches in Blackwells Mills, 1.24 inches in Pottersville, 1.14 inches in Somerville, 1.12 inches in Far Hills and Martinsville. The heavy rain was caused by the same deep southeast flow that brought the strong winds to Somerset County. The heaviest rain fell along and just prior to the cold frontal passage during the morning of the 18th.

Sussex County

Flatbrookville	**18**	**2141EST**			**0**	**0**			**Flood**
	19	**0226EST**							

The combination of rain through the morning and afternoon of the 18th and melting snow produced flooding along sections of the Flat Brook during the night of the 18th. Storm totals averaged between one and two inches and with the additional water from the melting snow caused poor drainage and river flooding. The Flat Brook at Flatbrookville was above its 6 foot flood stage from 941 p.m. EST on the 18th through 226 a.m. EST on the 19th. It crested at 6.19 feet at 1115 p.m. EST. Storm totals included 1.16 inches in Sussex. The heavy rain was caused by the same deep southeast flow that brought the strong winds to Sussex County. The heaviest rain fell along and just prior to the cold frontal passage during the morning of the 18th

Morris County

Countywide	**18**	**2145EST**			**0**	**0**			**Flood**
	21	**1615EST**							

The combination of rain through the morning and afternoon of the 18th and melting snow produced flooding along sections of some of the larger rivers in Morris County. Storm totals averaged between one and two inches and with the additional water from the melting snow caused poor drainage and river flooding. The Pequannock River at the Macopin Dam was above its 5.5 flood stage from 945 p.m. EST on the 18th through 630 p.m. EST on the 19th. It crested at 5.65 feet at 645 a.m. EST on the 19th. The Rockaway River below the Boonton Reservoir was above its 5 foot flood stage from 3 a.m. EST through 6 p.m. EST on the 19th. It crested at 5.15 feet at 945 a.m. EST. The Passaic River at Two Bridges was above its 9 foot flood stage from 415 p.m. EST on the 19th through 415 p.m. EST on the 21st. It crested at 9.47 feet at 230 p.m. EST on the 20th. Storm totals included 1.80 inches in Boonton, 1.72 inches in Pequannock, 1.60 inches in Ironia and 1.12 inches in Chatham. The heavy rain was caused by the same deep southeast flow that brought the high winds to Morris County. The heaviest rain fell along and just prior to the cold frontal passage during the morning of the 18th.

Camden County

Collingswood	**23**	**0000EST**			**0**	**0**			**Heavy Rain**
		0800EST							

Heavy rain that fell during the first half of the day on the 23rd led to poor drainage flooding on Cattell Avenue and other roadways off of U.S. Route 130 near the Collingswood Circle in Collingswood Borough. One car became stuck in the flooding and garbage cans were bobbing in the water. Precipitation totals were 1.07 inches at the Philadelphia International Airport and 0.76 inches in Pennsauken. The heavy rain was caused by a low pressure system that moved from near Houston, Texas at 7 p.m. EST on the 22nd northeast to eastern Kentucky on the morning of the 23rd. A secondary low pressure system formed on its warm front over Delaware and during the course of the morning became the main low pressure system. By 1 p.m. EST it was approaching Cape Cod, Massachusetts.

NJZ008	**Morris**								
	23	**0100EST**			**0**	**0**			**Winter Weather**
		0700EST							
NJZ001-007	**Sussex - Warren**								
	23	**0600EST**			**0**	**0**			**Winter Storm**
		0800EST							

A winter storm that produced a mixture of snow, sleet and freezing rain affected the higher terrain of Sussex and Warren Counties and to a lesser extent Morris County. Accumulations averaged 1 to 3 inches and ice accretions averaged around one-quarter of an inch. Precipitation started as snow around Midnight EST on the 23rd. Precipitation changed to freezing rain between 3 a.m. and 6 a.m. EST on the 23rd and was in the process of changing to plain rain by 6 a.m. EST in the lower terrain locations and throughout most of Morris County. The change to plain rain spread throughout the area by the middle of the morning. The rain ended during the afternoon. Prior to the changeover, untreated roads were slippery.

Specific accumulations included 2.6 inches in Wantage (Sussex County), 2.5 inches in Butler (Morris County) and 2.0 inches in Highland Lake (Sussex County) and Blairstown (Warren County). Ice accretions generally averaged around one-quarter of an inch in the higher terrain locations of Warren and Sussex Counties.

The winter storm was caused by a fast moving low pressure system that developed over the Gulf of Mexico. The high pressure system was over the region on the 22nd and moved east into the New England coastal waters by the morning of the 23rd. This is normally not a favorable position for freezing rain. In this instance precipitation moved into the region so quickly and overnight, that the cold air near the surface could not get scoured. The low pressure system itself moved from near Houston, Texas at 7 p.m. EST on the 22nd northeast to northern Alabama at 1 a.m. EST on the 23rd and then into eastern Kentucky at 7 a.m. EST on the 23rd. A

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

NEW JERSEY, South and Northwest

secondary low pressure system formed on its warm front over Delaware and during the course of the morning became the main low pressure system. By 1 p.m. EST it was approaching Cape Cod, Massachusetts and was well east of the Cape by 7 p.m. EST that evening.

Burlington County

Lumberton — **24** — **2303EST** — **0** — **0** — **0** — **Hail (0.75)**

A severe thunderstorm dropped large hail (penny size) in Lumberton. The same thunderstorm dropped pea size hail in Maple Shade and Mount Laurel Townships. Some snow also mixed in with the rain and hail during the thunderstorm. Temperatures dropped below freezing under clear skies overnight and caused slippery traveling conditions the next morning.

NJZ016>017 — **Salem - Gloucester**

25 — **0530EST** — **0** — **0** — **Winter Weather**
0930EST

Rain and wet snow showers occurred during the late evening of the 24th and skies cleared toward morning with light winds. This permitted black ice to form on roadways. The icy roads led to about 25 weather related accidents in Salem and Cumberland Counties through the morning rush. No serious injuries were reported.

NJZ012>014-020>026 — **Middlesex - Western Monmouth - Eastern Monmouth - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

31 — **0730EST** — **0** — **0** — **0** — **Coastal Flood**
1200EST

The combination of spring tides coming off the recent new moon and a rapidly intensifying low pressure system that passed east of Delaware on the 31st produced a strong onshore flow and widespread minor with pockets of moderate tidal flooding during the daytime high tide along the ocean as well as in Raritan and Delaware Bays. In Monmouth County in Monmouth Beach, three roads in the borough were closed at high tide. In Middlesex County, in Woodbridge, the higher than normal tides backed water into the Woodbridge River. The river flooded several streets (including Vesper and Port Reading Avenues) in the township as flood waters reached up to several homes.

The high tide reached 8.52 feet above mean lower low water at South Amboy (Middlesex County), 8.43 feet above mean lower low water at Keansburg (Monmouth County), 8.08 feet above mean lower low water at Sandy Hook (Monmouth County), 7.92 feet above mean lower low water in Cape May Ferry Terminal (Cape May County), 7.26 feet above mean lower low water at Cape May Harbor (Cape May County), 7.15 feet above mean lower low water in Atlantic City (Atlantic County), 6.84 feet above mean lower low water at Point Pleasant (Ocean County). Minor tidal flooding begins at 6.7 feet above mean lower low water and moderate tidal flooding begins at 7.7 feet above mean lower low water. In Delaware Bay, the tide reached 7.44 feet above mean lower low water at Reedy Island (New Castle County). Minor tidal flooding starts at 7.2 feet above mean lower low water. The low pressure system that caused the minor tidal flooding formed along the Virginia coast during the early morning on the 31st. By 7 a.m. EST on the 31st it had deepened to a 995 millibar low pressure system. It then moved slowly northeast as it intensified. At 1 p.m. EST that afternoon it had deepened to 990 millibars and was located about 200 miles east of the Delaware coast and at 7 p.m. EST that evening, it had deepened to 976 millibars, but was already about 200 miles east of Cape Cod, Massachusetts. This made it only a one high tide cycle event for widespread minor to moderate tidal flooding. because of the spring tides, pockets of minor tidal flooding occurred with the afternoon high tide on the 30th along the ocean.

NJZ016>019 — **Salem - Gloucester - Camden - Northwestern Burlington**

31 — **1100EST** — **0** — **0** — **0** — **Coastal Flood**
1600EST

The combination of spring tides coming off the recent new moon and a rapidly intensifying low pressure system that passed east of Delaware on the 31st produced a strong up the bay flow and widespread minor tidal flooding during the daytime high tide along the Delaware River and tidal sections of its tributaries during the late morning and afternoon. The high tide reached 8.32 feet above mean lower low water in Philadelphia. Minor tidal flooding begins at 8.2 feet above mean lower low water. The high tide reached 7.44 feet above mean lower low water at Reedy Island (New Castle County, Delaware). Minor tidal flooding starts at 7.2 feet above mean lower low water. The low pressure system that caused the minor tidal flooding formed along the Virginia coast during the early morning on the 31st. By 7a.m. EST on the 31st it had deepened to a 995 millibar low pressure system. It then moved slowly northeast as it intensified. At 1 p.m. EST that afternoon it had deepened to 990 millibars and was located about 200 miles east of the Delaware coast and at 7 p.m. EST that evening, it had deepened to 976 millibars, but was already about 200 miles east of Cape Cod, Massachusetts. This made it only a one high tide cycle event.

NEW MEXICO, Central and North

NMZ005-011>013-018-020>021 — **Northeast Highlands - Central High Plains/Estancia Valley County - Conchas Lake/Guadalupe - Quay - De Baca - Roosevelt - Curry**

01 — **0600MST** — **0** — **0** — **High Wind (G55)**
1700MST

Gusty winds whipped central and east central New Mexico downing several power lines across Curry County and causing damage to a number of school district maintenance buildings in Clovis.

NEW MEXICO, South Central and Southwest

NONE REPORTED.

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

NEW MEXICO, Southeast

NMZ033 — **Central Lea County**

01	**0900MST**		**0**	**3**	**700K**	**10K**	**Wildfire**
02	**0900MST**						

Record high temperatures (in the mid to upper 70s), very low relative humidities, high winds, and two and a half months without measurable precipitation combined to produce a very active fire weather day. SPC issued a critical fire weather area for west Texas and southeastern New Mexico in their Day 1 Fire Weather Outlook issued early on January 1st.

A grass fire driven by wind burned 50,000 acres west of Hobbs on New Year's Day. The western side of Hobbs had to be evacuated, including the community college, a casino, and several neighborhoods. Three firefighters sustained minor injuries, but no one was seriously injured. Four families were provided shelter by the Red Cross, though eleven homes were destroyed. Two businesses and 10 vehicles also were destroyed by the fire.

In addition to the wildfire west of Hobbs, two fires burned near Tatum in northern Lea county. No structures were damaged in these fires, however, U.S. Highway 380 was closed from Roswell to the Texas state line during the day because of the fires. According to local authorities, one fire near Tatum was caused by fireworks and the other was sparked by a car crash.

NMZ029 — **Northern Lea County**

01	**1038MST**	**0**	**0**	**0**	**0**	**High Wind (G62)**
	1552MST					

High winds affected west Texas and southeastern New Mexico as a deep low pressure system tracked across the area on New Year's Day. These winds combined with very low relative humidities to produce conditions that aided in the rapid growth and spread of wildfires. No wind damage was reported.

NEW YORK, Central

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**

01	**0000EST**	**0**	**0**			**Heat**
31	**2359EST**					

Central New York and Northeast Pennsylvania experienced one of the warmest Januarys on record since reliable records have been kept. January, 2006 was the warmest January on record in Syracuse, New York. The average monthly temperature recorded at Hancock Field was 33.4 degrees, breaking the old record of 33.2 degrees set in 1990. There was also a lack of snow for the month in Syracuse, with only 12.1 inches recorded. This was the third lowest on record. Meanwhile, January was the second warmest on record in Binghamton, NY. The average temperature of 30.8 degrees fell short of the 31.5 degree record set in 1990. Wilkes-Barre Scranton International Airport recorded the second warmest January on record with an average temperature of 34.9 degrees. The warmest January on record remains 35.2 degrees in 1990.

NYZ046-057-062 — **Otsego - Delaware - Sullivan**

03	**0900EST**	**0**	**0**			**Winter Storm**
	1300EST					

A low pressure system tracked into the Ohio Valley Monday night on the 2nd and weakened, while a secondary low formed off the Mid-Atlantic Coast Tuesday the 3rd while tracking out to sea. The storm system brought a mix of snow, sleet and freezing rain to upstate New York and northeast Pennsylvania Monday night and Tuesday morning. The snow and mixed precipitation tapered off by Tuesday afternoon. While snow accumulations were generally less than 6 inches across the area, some locations received higher amounts. In Sullivan County, snowfall amounts ranged from 10 to 14 inches with Bloomingburg measuring 13.5 inches, while Liberty had 11.5 inches. In Otsego County, Laurens received 8.0 inches with the rest of the county seeing less than 4 inches. Pleasant Mount in Wayne County, Pennsylvania measured 7.0 inches of new snow.

Broome County

Conklin	**18**	**1207EST**	**0**	**0**	**20K**		**Flood**
	20	**1419EST**					

Minor flooding occurred at Conklin on the Susquehanna River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of New York Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of south central New York. The rainfall brought the Conklin gauge on the Susquehanna River above the flood stage of 11 feet at 1207 pm on the 18th. The Susquehanna River at Conklin crested at 12.37 feet at 500 pm on the 18th before falling below the flood stage at 219 pm on the 20th.

Delaware County

Cooks Falls	**18**	**1219EST**	**0**	**0**	**10K**		**Flood**
		2205EST					

Minor flooding occurred at Cook Falls on the Beaver Kill Creek from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Delaware River Basin of New York Tuesday night and Wednesday morning on the 18th. The rain tapered off Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of the Catskills in New York. The rainfall brought the Beaver Kill Creek at Cook Falls above the flood stage of 10 feet at 1219 pm on the

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

NEW YORK, Central

18th. The Beaver Kill Creek at Cook Falls crested at 12.41 feet at 400 pm on the 18th, before falling below the flood stage at 1005 pm on the 18th.

Chenango County

Sherburne **18 1512EST** **0** **0** **10K** **Flood**
19 0035EST

Minor flooding occurred at Sherburne on the Chenango River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna Region of New York Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most areas of the upper Susquehanna River Basin in New York. The rainfall brought the Chenango River at Sherburne above the flood stage of 8 feet at 312 pm on the 18th. The Chenango River at Sherburne crested at 8.48 feet at 735 pm on the 18th before falling below the flood stage at 1235 am on the 19th.

Tioga County

Barton **18 1824EST** **0** **0** **10K** **Flood**
20 1245EST

Minor flooding occurred at the Waverly/Sayre gauge on the Susquehanna River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of New York and Pennsylvania Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of south central New York and northeast Pennsylvania. The rainfall brought the Waverly/Sayre gauge on the Susquehanna River above the flood stage of 11 feet at 624 pm on the 18th. The Susquehanna River at Waverly/Sayre crested at 13.12 feet at 545 am on the 19th before falling below the flood stage at 1245 pm on the 20th.

Broome County

Vestal **18 2000EST** **0** **0** **10K** **Flood**
19 0600EST

Minor flooding occurred at Vestal on the Susquehanna River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of New York Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of south central New York. The rainfall brought the Vestal gauge on the Susquehanna River above the flood stage of 18 feet at about 8 pm on the 18th. The Susquehanna River at Vestal crested at 18.42 feet at about 1230 am on the 19th before falling below the flood stage at about 600 am on the 19th.

Chenango County

Bainbridge **19 0433EST** **0** **0** **10K** **Flood**
20 0100EST

Minor flooding occurred at Bainbridge on the Susquehanna River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna Region of New York Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most areas of the upper Susquehanna River Basin in New York. The rainfall brought the Susquehanna River at Bainbridge above the flood stage of 13 feet at 433 am on the 19th. The Susquehanna River at Bainbridge crested at 13.64 feet at 445 pm on the 19th before falling below the flood stage at 100 am on the 20th.

NYZ025-036-044-055 **Tompkins - Madison - Cortland - Tioga**

26 0900EST **0** **0** **Lake-Effect Snow**
1400EST

Lake effect snow developed behind an arctic cold front that passed through upstate New York on the afternoon of the 25th. Snow showers that fell during the afternoon of January 25th became more organized southeast of Lake Ontario, becoming heavier during the early morning of the 26th. The heavier lake effect snow fell well south and east of Lake Ontario into the southern tier of central New York. The snow tapered off early in the afternoon. Snowfall amounts ranged generally between 4 and 8 inches with locally over 10 inches. Some of the higher amounts include 11.0 inches in Cazenovia in Madison County, and at Berkshire in Tioga County. Cortland in Cortland County received 10.5 inches.

NEW YORK, Coastal

NYZ067>068 **Orange - Putnam**

03 0800EST **0** **0** **Heavy Snow**
0900EST

A low pressure system tracked across the midwest on Monday, January 2nd, and then weakened overnight in the Ohio Valley. A secondary low formed south of Long Island early Tuesday morning, January 3rd, and then tracked well east of southern New England by evening. Rain developed on Monday and changed over to a mix of snow, sleet, and freezing rain late at night before changing over to all snow Tuesday morning. The snow ended by early evening.

Here are selected snowfall amounts:

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

NEW YORK, Coastal

Mount Hope - 12.8 inches
Chester - 11.3 inches
Harriman - 7.5 inches
Fahnestock State Park - 10.0 inches

NYZ077 **Nassau**

03 1030EST 0 0 Coastal Flood

A strong low pressure system over the midwest on Monday, January 2nd, tracked east and dissipated over the Ohio Valley later that night. A secondary low developed to the south of Long Island early Tuesday morning, January 3rd, tracking well east of New England by evening. The combination of a large dome of high pressure across eastern Canada and the development of the secondary low to the south produced a strong easterly flow. This resulted in widspread minor coastal flooding across western Long Island Sound and the back bays of the south shore of Long Island.

Moderate coastal flooding was reported at Freeport, New York at 10:30 AM, Tuesday, Janaury 3rd.

NYZ071-076 **Southern Westchester - Queens**

15 0122EST 0 1 High Wind (G55)
1235EST

A strong frontal wave developed over the northern Middle Atlantic States during the morning of Saturday, January 14. The system continued to deepen as it tracked over the New York City Metro area to just east of Long Island during the evening hours. By Sunday evening, Janaury 15, the deep low center was located near Nova Scotia.

Strong winds developed on the backside of the deepening low with winds meeting high wind warning criteria during the early morning hours Sunday. Strong winds continued through much of the day.

An AWS site at Jamaica High School in Jamaica, Queens, reported a wind gust to 63 mph (55 kt) at 12:35 AM. There was also an injury as a tree and live wires came down on a car.

The ASOS at the White Plains Airport in Westchester County reported a wind gust to 62 mph (54 kt) at 1:22 AM.

NYZ067>068 **Orange - Putnam**

15 0730EST 0 0 Heavy Snow

A strong frontal wave developed over the northern Middle Atlantic States during the morning of Saturday, January 14. The system continued to deepen as it tracked over the New York City Metro area to just east of Long Island during the evening hours. By Sunday evening, Janaury 15, the deep low center was located near Nova Scotia.

Rain at the onset of the event mixed with sleet and snow Saturday evening and then went over to all snow during the early morning hours on Sunday. The snow fell heavy at times before ending in the mid to late morning.

Here are selected snowfall amounts for Orange and Putnam Counties:

Highland Mills - 7.0 inches
Goshen - 5.8 inches
New Windsor - 5.7 inches
Carmel - 6 inches

NYZ067>070 **Orange - Putnam - Rockland - Northern Westchester**

18 0730EST 0 0 High Wind (G50)

High winds developed after 6 AM on the morning of Wednesday, January 18th, and lasted until around noon as a cold front approached the region. Wind gusts approaching 70 mph (61 kt) downed many trees and power lines, which caused widespread power outages.

NYZ071>074 **Southern Westchester - New York (Manhattan) - Bronx - Richmond (Staten Is.)**

18 0730EST 0 0 High Wind (G59)
0743EST

High winds developed after 6 AM on the morning of Wednesday, January 18th, and lasted until around noon as a cold front approached the region. Wind gusts approaching 70 mph (61 kt) downed many trees and power lines, which caused widespread power outages.

There was one fatality in New Rochelle in Westchester County. A 52-year-old man died when a tree fell on his car as he was pulling out of his driveway. There were also 2 injuries on the Bronx River Parkway as a falling tree went through the roof of a minivan

NYZ075>078 **Kings (Brooklyn) - Queens - Nassau - Northwest Suffolk**

18 0730EST 0 0 High Wind (G50)
0800EST

High winds developed after 6 AM on the morning of Wednesday, January 18th, and lasted until around noon as a cold front approached the region. Wind gusts approaching 70 mph (61 kt) downed many trees and power lines, which caused widespread power outages.

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

NEW YORK, East

NYZ058 **Western Greene**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 7 to 10 inches of snow accumulated in western Greene County

NYZ048 **Western Schenectady**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 7 to 9 inches of snow accumulated in western Schenectady County

NYZ047 **Schoharie**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 6 to 12 inches of snow accumulated in Schoharie County

NYZ063 **Western Ulster**

03 0000EST 0 0 Heavy Snow
1600EST

On January 3, 8 to 9 inches of snow accumulated in Western Ulster County

From January 2 through January 3, low pressure moved eastward from the central Mississippi Valley to the northern Atlantic coast, then out to sea. The air mass over eastern New York and adjacent western New England was maginally cold enough for snow to occur. Some locations had heavy snowfall, others had the snow accumulation cut down when the snow mixed with, or changed to rain.

NYZ063 **Western Ulster**

14 0654EST 0 0 High Wind (G60)

On January 14, high winds brought down tree limbs and power lines onto Reservoir Road near the intersections of Route 28 and Route 28A, 2 miles southeast of Glenford in Ulster County.

NYZ053 **Western Rensselaer**

14 2100EST 0 0 Heavy Snow
15 0800EST

Six to 12 inches of snow accumulated over western Rensselaer County.

NYZ040 **Montgomery**

14 2300EST 0 0 Flood
15 0130EST

Flooding occurred on the Canajoharie Creek at Canajoharie on January 14 and 15. Flood stage is 6.0 feet. The creek crested at 6.12 feet on January 15 at 12:15 AM EST.

Low pressure was over southeastern Pennsylvania at daybreak on January 14. The system intensified and moved northeast across eastern New England. subfreezing air circulated southward from Canada. As it arrived in eastern New York on the evening of January 14, rain changed to snow. A heavy snowfall occurred in the higher terrain east of Albany from the evening of January 14 through the mid morning hours of January 15.

NYZ063 **Western Ulster**

15 0000EST 0 0 Flood
2100EST

Flooding occurred on the Esopus Creek at the west gage of the Ashokan Reservoir on January 15. Flood stage is 591.0 feet. A flood crest of 591.28 feet occurred on January 15, at 12:00 PM.

NYZ032 **Northern Herkimer**

18 0430EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Old Forge.

NYZ066 **Eastern Dutchess**

18 0600EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Dover Plains.

NYZ060 **Western Columbia**

18 0600EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Kinderhook.

NYZ061 **Eastern Columbia**

18 0600EST 0 0 High Wind (G60)

On January 18, high winds brought down trees and power lines in Copake.

NYZ065 **Western Dutchess**

18 0630EST 0 0 High Wind (G60)
0830EST

On January 18, county government officials had numerous reports of high winds bringing down trees and power lines in western Dutchess County. There was a report of a tree down on a house in New Hackensack.

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

NEW YORK, East

NYZ066 **Eastern Dutchess**

	18	**0630EST**			**0**	**0**			**High Wind (G60)**
		0830EST							

On January 18, county government officials had numerous reports of high winds bringing down trees and power lines across eastern Dutchess County.

NYZ058 **Western Greene**

	18	**0700EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines 5 miles west of Palenville.

NYZ059 **Eastern Greene**

	18	**0700EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Cairo.

NYZ054 **Eastern Rensselaer**

	18	**0800EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Grafton.

NYZ048 **Western Schenectady**

	18	**0800EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Duanesburg.

NYZ038 **Southern Herkimer**

	18	**0830EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Middleville.

NYZ038 **Southern Herkimer**

	18	**0830EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought a tree down across Route 28, in Middleville.

NYZ083 **Southeast Warren**

	18	**0900EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Queensbury.

NYZ084 **Southern Washington**

	18	**0900EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Fort Edward.

NYZ042 **Northern Warren**

	18	**0900EST**			**0**	**0**			**High Wind (G60)**

On January 18, high winds brought down trees and power lines in Johnsburg.
On January 18, a strengthening cyclone moved across southern Quebec Province, Canada. An occluded front over western New York at daybreak, moved eastward, while the warm front associated with the cyclone moved across the lower Hudson Valley and into southwestern New England during the morning. A strong pressure gradient was over eastern New York and adjacent western New England preceding the passage of the occluded front.

NYZ063 **Western Ulster**

	18	**1430EST**			**0**	**0**			**Flood**
	19	**0100EST**							

Flooding occurred on the Esopus Creek at Cold Brook on January 18 and January 19. Flood stage is 11.0 feet. A flood crest of 13.43 feet occurred on January 18, at 7:30 PM.

NYZ063 **Western Ulster**

	18	**1500EST**			**0**	**0**			**Flood**
	19	**0500EST**							

Flooding occurred on the Esopus Creek at Allaben on January 18 and January 19. Flood stage is 7.0 feet. A flood crest of 8.87 feet occurred on January 18, at 7:45 PM.

NYZ063 **Western Ulster**

	18	**1515EST**			**0**	**0**			**Flood**
		2235EST							

Flooding occurred on the Esopus Creek at the west gage of the Ashokan Reservoir on January 18. Flood stage is 591.0 feet. A flood crest of 592.47 feet occurred on January 18, at 10:45 PM.

NYZ065 **Western Dutchess**

	18	**1715EST**			**0**	**0**			**Flood**
		2100EST							

Tidal flooding occurred at Poughkeepsie on January 18. Flood stage is 5.0 feet. A flood crest of 5.96 feet occurred on January 18 at 7:00 PM EST.

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

NEW YORK, East

NYZ064 **Eastern Ulster**

18	**1730EST**			**0**	**0**		**Flood**
20	**1931EST**						

Flooding occurred on the Esopus Creek at Mount Marion from January 18 into January 20. Flood stage is 20.0 feet. A flood crest of 21.89 feet occurred on January 19, at 6:45 PM.

NYZ047 **Schoharie**

18	**1730EST**			**0**	**0**		**Flood**
19	**0200EST**						

Flooding occurred on the Schoharie Creek at Gilboa on January 18 and 19. Flood stage is 1132.0 feet. The creek crested at 1132.95 feet on January 18 at 9:15 PM EST.

NYZ058 **Western Greene**

18	**1745EST**			**0**	**0**		**Flood**
	2115EST						

Flooding occurred on the Schoharie Creek at Prattsville on January 18. Flood stage is 12.0 feet. The creek crested at 12.45 feet on January 18 at 7:45 PM EST.

NYZ058 **Western Greene**

18	**1900EST**			**0**	**0**		**Flood**
	2200EST						

Flooding occurred on the Batavia Kill at Red Falls on January 18. Flood stage is 5.0 feet. The waterway crested at 5.29 feet on January 18 at 10:00 PM EST.

NYZ043 **Northern Washington**

18	**1915EST**			**0**	**0**		**Flood**
19	**1800EST**						

Flooding occurred on the Metawee River at Granville on January 18 and January 19. Flood stage is 7.0 feet. A flood crest of 10.85 feet occurred on January 19 at 4:31 AM EST.

NYZ047 **Schoharie**

18	**2015EST**			**0**	**0**		**Flood**
	2215EST						

Flooding occurred on the Schoharie Creek at Gilboa Bridge on January 18. Flood stage is 20.0 feet. The creek crested at 20.22 feet on January 18 at 10:30 PM EST.

NYZ047 **Schoharie**

18	**2100EST**			**0**	**0**		**Flood**
19	**0216EST**						

Flooding occurred on the Schoharie Creek at Breakabeen on January 18 and 19. Flood stage is 11.00 feet. The creek crested at 11.75 feet on January 19 at 12:15 AM EST.

NYZ041 **Northern Saratoga**

18	**2153EST**			**0**	**0**		**Flood**
21	**1400EST**						

Flooding occurred on the Hudson River at Schuylerville from January 18 into January 21. Flood stage is 90.0 feet. A flood crest of 93.0 feet occurred on January 19, at 12:00 PM.

NYZ054 **Eastern Rensselaer**

18	**2215EST**			**0**	**0**		**Flood**
19	**1130EST**						

Flooding occurred on the Hoosic River at Eagle Bridge on January 18 and January 19. Flood stage is 11.0 feet. A flood crest of 12.84 feet occurred on January 19, at 3:30 AM.

NYZ033 **Hamilton**

18	**2315EST**			**0**	**0**		**Flood**
19	**0300EST**						

Flooding occurred on the Sacandaga River at Hope on January 18 and January 19. Flood stage is 7.00 feet. The river crested at 7.21 feet on January 19 at 12:15 AM EST.

NYZ063 **Western Ulster**

18	**2355EST**			**0**	**0**		**Flood**
19	**1435EST**						

Flooding occurred on the Esopus Creek at the east gage of the Ashokan Reservoir on January 18 and 19. Flood stage is 589.0 feet. A flood crest of 589.23 feet occurred on January 19, at 3:55 AM.

NYZ064 **Eastern Ulster**

19	**0030EST**			**0**	**0**		**Flood**
	0100EST						

Flooding occurred on the Roundout Creek at Rosendale on January 19. Flood stage is 18.00 feet. The river crested at flood stage on January 19 at 12:45 AM EST.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
NEW YORK, East									
NYZ050	**Southern Saratoga**								
	19	**0130EST**			**0**	**0**			**Flood**
	20	**1130EST**							
	Flooding occurred on the Hudson River at Mechanicville on January 19 and January 20. Flood stage is 53.0 feet. A flood crest of 54.9 feet occurred on January 19, at 12:00 PM.								
NYZ063	**Western Ulster**								
	19	**1120EST**			**0**	**0**			**Flood**
	26	**0105EST**							
	Flooding occurred on the Roundout Creek at Roundout Reservoir from January 19 into January 26. Flood stage is 840.0 feet. A flood crest of 840.42 feet occurred on January 20 at 12:00 PM EST.								
NYZ047	**Schoharie**								
	19	**1200EST**			**0**	**0**			**Flood**
		1331EST							
	Flooding occurred on the Schoharie Creek at Burtonsville on January 19. Flood stage is 6.00 feet. The creek crested at 7.25 feet on January 19 at 7:15 AM EST.								
NYZ038	**Southern Herkimer**								
	21	**1330EST**			**0**	**0**			**High Wind (G60)**
	On January 21, trees were blown down in Dolgeville.								
NYZ040	**Montgomery**								
	21	**1350EST**			**0**	**0**			**High Wind (G60)**
	On January 21, trees were blown down, not only in Amsterdam, but in Johnsville and Palentine too.								
NYZ051	**Western Albany**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and power lines in Berne.								
NYZ053-053-053	**Western Rensselaer**								
	21	**1400EST**			**0**	**0**	**0.50K**		**High Wind (G60)**
		1405EST							
	On January 21, high winds blew down power lines in Brunswick.								
NYZ033-033	**Hamilton**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and power lines at Arietta.								
NYZ049	**Eastern Schenectady**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down a stop sign in Rotterdam.								
NYZ052	**Eastern Albany**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down many trees and wires in Latham. A tree fell onto a house along Route 7. At least 6,000 people were without power.								
NYZ047	**Schoharie**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees in Middleburgh.								
NYZ050	**Southern Saratoga**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and wires onto houses in Galway.								
NYZ050-050	**Southern Saratoga**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and wires onto houses in Clifton Park.								
NYZ082	**Northern Fulton**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and power lines in Mayfield.								
NYZ039	**Southern Fulton**								
	21	**1400EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and power lines in Broadalbin.								
NYZ049	**Eastern Schenectady**								
	21	**1403EST**			**0**	**0**			**High Wind (G60)**
	On January 21, high winds blew down trees and power lines in Schenectady.								
NYZ058	**Western Greene**								
	21	**1410EST**			**0**	**0**			**High Wind (G60)**
	On January 21, trees and wires were blown down in Durham.								

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

NEW YORK, East

NYZ059 **Eastern Greene**

21	**1415EST**			**0**	**0**		**High Wind (G60)**

On January 21, trees and wires were blown down in Catskill.

NYZ041 **Northern Saratoga**

21	**1415EST**			**0**	**0**		**High Wind (G60)**

On January 21, trees and wires were blown down in Saratoga Springs.

NYZ061 **Eastern Columbia**

21	**1430EST**			**0**	**0**		**High Wind (G60)**

On January 21, trees and wires were blown down countywide. Including the towns of Chatham, Ghent, New Lebanon, Stockport, Stuyvesant, as well as Hillsdale.

NYZ060 **Western Columbia**

21	**1430EST**			**0**	**0**		**High Wind (G60)**

On January 21, trees and wires were blown down countywide. Including the towns of Chatham, Ghent, New Lebanon, Stockport, Stuyvesant, as well as Hillsdale.

NYZ063 **Western Ulster**

21	**1445EST**			**0**	**0**		**High Wind (G60)**

On January 21, wires were blown down in Ulster Heights.

On January 21, an intensifying cyclone over Lake Ontario at daybreak moved rapidly down the St Lawrence Valley. A trailing cold front moved quickly across eastern New York State and adjacent western New England during the early afternoon. A rapidly building high pressure over the Mississippi Valley augmented a strengthening pressure gradient to the west of the cold front. The low levels of the atmosphere were quite unstable as the cold front moved across the region, which allowed strong wind aloft to mix to the surface at the time of the frontal passage.

NEW YORK, North

NYZ026>031-034>035-087 **Northern St. Lawrence - Northern Franklin - Eastern Clinton - Southeastern St. Lawrence - Southern Franklin - Western Clinton - Western Essex - Eastern Essex - Southwestern St. Lawrence**

14	**2200EST**			**0**	**0**	**50K**	**Winter Weather/Mix**
15	**0600EST**						

An arctic cold front moved across northern New York during the night of the 14th. Record warm temperatures in the 40s and 50s on Saturday (14th), were replaced with temperatures in the single numbers Sunday. Low pressure moved along this arctic front and across eastern New England with rain changing to snow across the region late Saturday night through Sunday morning. Snowfall amounts of 1 to 3 inches were common in northern New York with locally higher amounts in the Adirondacks. It was quite blustery Sunday with Northwest winds 20 to 30 mph and gusts to 40 mph causing blowing and drifting snow.

NYZ026>031-034>035-087 **Northern St. Lawrence - Northern Franklin - Eastern Clinton - Southeastern St. Lawrence - Southern Franklin - Western Clinton - Western Essex - Eastern Essex - Southwestern St. Lawrence**

15	**0400EST**			**0**	**0**		**Extreme Cold/Wind Chill**
	2200EST						

An arctic cold front moved across northern New York during the night of the 14th. Record warm temperatures in the 40s and 50s on Saturday (14th), were replaced with temperatures zero to 10 above on Sunday. Blustery northwest winds 20 to 30 mph with gusts to 40 mph created wind chills of 15 to 30 degrees below zero and an apparent temperature change from Saturday (14th) of 60 to 75 degrees colder.

NYZ029>031-034 **Southeastern St. Lawrence - Southern Franklin - Western Clinton - Western Essex**

18	**0100EST**			**0**	**0**	**10K**	**Strong Wind**
	1400EST						

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Preceding this storm, during the morning of the 18th, brisk south to southeast winds of 20 to 30 mph with gusts exceeding 40 mph were common across much of the region. After the cold frontal passage during midday, west to southwest winds of equal speeds continued. Saranac Lake reported a wind gust of 40 mph.

NYZ028-035 **Eastern Clinton - Eastern Essex**

18	**0400EST**			**0**	**0**	**15K**	**Strong Wind**
	0800EST						

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Ahead of this storm, during the morning of the 18th, brisk south to southeast winds of 20 to 30 mph with gusts exceeding 40 mph were common across the Champlain Valley of New York. An isolated report of a partially torn roof occurred in Mooers (Clinton).

NYZ026>027-087 **Northern St. Lawrence - Northern Franklin - Southwestern St. Lawrence**

18	**0430EST**			**0**	**0**	**10K**	**Strong Wind**
	1300EST						

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Preceding this storm during the morning of the 18th, brisk south to southeast winds of 20 to 30 mph with gusts exceeding 40 mph were common across much of the region. After cold frontal passage by midday on the 18th, southwest winds of 20 to 30 mph

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

NEW YORK, North

with gusts exceeding 40 mph funneled across the St. Lawrence River valley. Massena reported a wind gust of 47 mph and Potsdam at 43 mph.

NYZ087 **Southwestern St. Lawrence**

18 1400EST 0 0 2K Flood
2000EST

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1 to 1.5 inches on the night of the 17th through midday on the 18th, ahead of a cold front, increased run-off into area watersheds. Widespread minor flooding of fields was observed as well as a few flooded roads near Canton.

NYZ034>035 **Western Essex - Eastern Essex**

18 1400EST 0 0 25K Flood
2200EST

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1 to 2 inches on the night of the 17th through early afternoon on the 18th, ahead of a cold front, increased run-off into area watersheds. Widespread minor flooding of fields was observed and several road closures in Schroon, Minerva, Elba, Chesterfield, Port Henry, Crown Point and Ticonderoga including State routes 9N and 22. Putnam Creek at Port Henry went above flood stage on the afternoon of the 18th.

NYZ034>035 **Western Essex - Eastern Essex**

18 1800EST 0 0 2K Flood
19 1800EST

Substantial snow melt on the 17th and widespread rainfall of 1 to 2 inches on the night of the 17th through early afternoon of the 18th caused considerable run-off into area watersheds. Increased waterflow into the AuSable river on the 18th caused it to exceed flood stage (7 feet) at Ausable Forks by late afternoon, reaching a crest of 7.58 feet at 8 pm on the 18th before receding below flood stage on the morning of the 19th. Minor flooding of low lying areas resulted.

NYZ028 **Eastern Clinton**

19 1500EST 0 0 5K Flood
20 1000EST

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1 to 2 inches on the 18th accounted for additional run-off into area watersheds. Increased high water flows within the Great Chazy River caused ice jams and flooding between Perry Mills and Champlain.

NYZ026>027-087 **Northern St. Lawrence - Northern Franklin - Southwestern St. Lawrence**

25 1600EST 0 0 15K Winter Weather/Mix
26 0200EST

An Alberta Clipper moved across northern New York during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls late in the day and continued until early morning on the 26th. Total snowfall was a widespread 2 to 5 inches across the Saint Lawrence River Valley with Canton reporting 5 inches

NYZ029>031-034 **Southeastern St. Lawrence - Southern Franklin - Western Clinton - Western Essex**

25 1600EST 0 0 20K Winter Weather/Mix
26 0400EST

An Alberta Clipper moved across northern New York during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls late in the day and continued until early morning on the 26th. Total snowfall was a widespread 3 to 6 inches across the Adirondacks with Tupper Lake at 3 inches, Newcomb at 5 inches and Ellenburg Depot with 6 inches.

NYZ028-035 **Eastern Clinton - Eastern Essex**

25 1800EST 0 0 10K Winter Weather/Mix
26 0600EST

An Alberta Clipper moved across northern New York during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls during the evening and continued until early morning on the 26th. Total snowfall was 2 to 4 inches across the Champlain Valley of New York.

NEW YORK, West

NYZ008 **Lewis**

18 2100EST 0 0 10K Heavy Snow
19 0500EST

A brief lake effect snow event occurred late on the 18th and early on the 19th. After a month of mild winter weather, cold air deepened enough over the area to produce lake effect snow off Lake Ontario overnight from the 18th to the 19th. Totals reported included 11" at Hooker; 9" at North Osceola; and 8" at Lowville and Highmarket.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
NEW YORK, West									
NYZ006-012-019>020-085	**Oswego - Wyoming - Chautauqua - Cattaraugus - Southern Erie**								
	25	**1010EST**			**0**	**0**	**100K**		**Heavy Snow**
	26	**0700EST**							
	Low pressure moved across southern Ontario bringing a general snowfall to the area. Snowfall amounts were enhanced over the higher elevations of the western southern tier and parts of the Tug Hill region. In addition, strong westerly winds produced considerable blowing and drifting snow, making travel hazardous. Specific snow totals included: 20" at Ellicottville; 16" at South Dayton; 12" at Perrysburg, Warsaw, and Jamestown; 11" at Cherry Hill and Chaffee; and 8" at South Wales and Hannibal.								
NORTH CAROLINA, Central									
Cumberland County									
Hope Mills	**02**	**2202EST**			**0**	**0**			**Hail (0.75)**
Scotland County									
Laurinburg	**03**	**0932EST**			**0**	**0**			**Hail (0.88)**
Scotland County									
7 N Laurinburg to Laurinburg	**03**	**0935EST**			**0**	**0**			**Hail (0.88)**
Moore County									
Robbins	**11**	**1535EST**			**0**	**0**			**Hail (0.88)**
Lee County									
Sanford	**11**	**1610EST**			**0**	**0**			**Hail (1.00)**
Harnett County									
Seminole	**11**	**1625EST**			**0**	**0**			**Hail (0.75)**
Anson County									
3 SSW Wadesboro	**13**	**2206EST**			**0**	**0**			**Thunderstorm Wind (G60)**
	One large tree down across HWY 109 SOUTH.								
Chatham County									
Siler City	**13**	**2245EST**			**0**	**0**			**Thunderstorm Wind (G60)**
	Tree fell on house causing damge to roof.								
Alamance County									
6 S Saxapahaw to Saxapahaw	**13**	**2300EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Three chicken houses were destroyed.								
Chatham County									
Pittsboro	**13**	**2300EST**			**0**	**0**			**Thunderstorm Wind (G60)**
	Several trees down near Pittsboro at 1100 pm on River road and Hamlets Chapel Road.								
Harnett County									
4 S Dunn	**14**	**0015EST**			**0**	**0**			**Thunderstorm Wind (G60)**
	Trees and power lines reported down near intersection of Wood Road and Paradise Lane								
Sampson County									
6 S Clinton	**14**	**0050EST**			**0**	**0**			**Thunderstorm Wind (G60)**
	2 Trees down on Old US HWY 701.								
Wayne County									
4 S Mt Olive	**14**	**0115EST**			**0**	**0**			**Hail (0.88)**
NORTH CAROLINA, Central Coastal									
Duplin County									
Rose Hill	**02**	**2319EST**			**0**	**0**			**Hail (0.75)**
Lenoir County									
Kinston	**02**	**2340EST**			**0**	**0**			**Hail (0.75)**
Duplin County									
Magnolia	**14**	**0111EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Law enforcement reported trees down near Magnolia.								
Lenoir County									
1 W La Grange	**14**	**0130EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Law enforcement reported trees down west of Lagrange.								

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
NORTH CAROLINA, Central Coastal									
Greene County									
4 W Snow Hill	**14**	**0139EST**	**0.7**	**75**	**0**	**0**	**250K**		**Tornado (F1)**
		0140EST							
	Tornado moved northeast across Highway 33, four miles west of Snowhill, ravaging a turkey farm. Six turkey houses were completely destroyed. Fifteen hundred turkeys were killed								
Greene County									
2 SE Snow Hill	**14**	**0148EST**	**1.5**	**75**	**0**	**0**	**750K**		**Tornado (F1)**
		0150EST							
	Tornado moved northeast across Highway 58 just southeast of Snowhill. Sixteen structures were damaged. Two structures were completely destroyed. There were no injuries or fatalities.								
Pitt County									
Greenville	**14**	**0155EST**			**0**	**0**			**Thunderstorm Wind (G52)**
Beaufort County									
Chocowinity	**14**	**0215EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Channel 7 News reported trees blown down near Chocowinity.								
Craven County									
Bridgeton	**14**	**0228EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Channel 7 News reported large tree limbs blown out of trees near Bridgeton.								
Hyde County									
Engelhard	**14**	**0400EST**			**0**	**0**			**Thunderstorm Wind (G50)**
	Channel 7 News reported 50-60 mph winds in Engelhard.								
NCZ095	**Carteret**								
	17	**1900EST**			**0**	**0**			**High Wind (G52)**
		2100EST							
	Cape Lookout National Seashore reported 60 mph wind gusts at Cape Lookout, in downeast Carteret county, during the evening of the 17th.								
NORTH CAROLINA, Extreme Southwest									
	NONE REPORTED.								
NORTH CAROLINA, North Coastal									
Bertie County									
3 SE Aulander	**14**	**0225EST**			**0**	**0**	**4K**		**Thunderstorm Wind (G50)**
	Trees down on Hexlena, County Woods, and Early Station Roads.								
Perquimans County									
3 SE Hertford	**14**	**0312EST**	**0.3**	**50**	**0**	**0**	**25K**		**Tornado (F1)**
		0313EST							
	Numerous trees down on Whitehat Road, just off the Perquimans River. Four to five houses and a few vehicles sustained damage, mainly from the downed trees. One house split in half by a tree.								
Pasquotank County									
Elizabeth City	**14**	**0328EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G60)**
	Several 50 foot trees blown down onto residences on Jones Avenue. Small aluminum boats blown into road.								
Camden County									
Camden	**14**	**0331EST**			**0**	**0**	**3K**		**Thunderstorm Wind (G50)**
	Numerous trees down along intersection of Routes 158 and 343.								
NORTH CAROLINA, Northwest and North Central									
Stokes County									
8 SW Danbury	**13**	**2000EST**			**0**	**0**			**Thunderstorm Wind (G65)**
	Trees were blown down. Some blocked roadways, others damaged a home at Sauratown Mountain.								
Stokes County									
5 N Danbury	**13**	**2000EST**			**0**	**0**			**Thunderstorm Wind (G65)**
	An out building was blown into a roadway								
Yadkin County									
7 NNW Yadkinville	**13**	**2100EST**			**0**	**0**			**Thunderstorm Wind (G65)**
	Two trees were blown down over Highway 67 east of Boonville.								
NCZ001>003-005-018>019	**Ashe - Alleghany - Surry - Rockingham - Watauga - Wilkes**								
	14	**0800EST**			**0**	**0**			**High Wind (G51)**
		1500EST							
	A cold front passed across North Carolina in the early morning hours of the 14th. After sunrise, winds increased and very strong gusts								

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

during the day resulted in numerous reports of trees down, many power lines down, and power outages. In Blocking Rock, NC (Ashe Co.) the canopy over gas pumps at a convience store blew over and was damaged.

NCZ001-018 **Ashe - Watauga**

24 2130EST 0 0 High Wind (G71)
2230EST

In the wake of an exiting cold front, winds increased significantly in the evening hours on the 24th. There were many reports of trees down in Ashe County due to the strong winds, with a lesser extent of trees being felled in Watauga County.

NORTH CAROLINA, South Coastal

Bladen County
Clarkton 02 2230EST 0 0 Hail (0.75)

Penny size hail fell for 30 seconds.

Bladen County
Tar Heel 02 2235EST 0 0 Hail (1.00)

Quarter size hail was reported.

Columbus County
5 W Lake Waccamaw 02 2255EST 0 0 Hail (1.00)

911 center relayed report from law enforcement of quarter size hail.

New Hanover County
Wilmington 02 2332EST 0 0 Hail (0.75)

Hail covered the ground on Greenville Loop Rd.

Bladen County
2 NE White Lake 14 0044EST 0 0 Hail (0.88)

Nickel size hail was reported.

Bladen County
Clarkton 14 0045EST 0 0 2K Thunderstorm Wind (G55)

Wind blew down a billboard at the intersection of N.C. 211 and U.S. 701 bypass.

Pender County
2 SW Watha 31 0215EST 0 0 Hail (1.00)

Rocky Point fire department reported quarter size hail.

Pender County
Burgaw 31 0500EST 0 0 5K Lightning

Lightning struck a house, damaging the roof and exterior of the home. The lightning also damaged many electrical outlets within the home, and a telephone box.

NORTH CAROLINA, Southwest

Gaston County
4 WNW Gastonia 13 2006EST 0.5 100 0 0 350K Tornado (F1)
2007EST

This small, weak tornado touched down just west of the highway 274/275 intersection in Bessemer City, just north of highway 274 near the Barkers Ridge subdivision. The tornado skirted a mobile home park, where it moved a trailer about 3 feet before moving across Barkers Ridge. The roof was blown off of one unoccupied, newly constructed home. 5 additional homes in the small subdivision received significant exterior damage, and were condemned. Several other homes received minor damage. After leaving the subdivision the tornado appeared to lift briefly as it moved into a wooded area. However, additional damage occurred near the intersection of Jim Clark and JK Road, where most of the tin roof was removed from a barn. In addition, shingles were removed from the roof of a home, and several trees were blown down, one of which fell on an outbuilding. The tornado then blew over a travel trailer before lifting.

NCZ033-048>055-059-062>063 **Avery - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Mcdowell - Burke - Northern Jackson - Macon - Southern Jackson**

14 0400EST 0 0 Winter Weather
2100EST

Snow developed across the mountains during the early morning hours, and was periodically heavy before tapering off to flurries and light snow showers later in the morning and during the afternoon. Total accumulations generally ranged from a trace to 3 inches, although there were some locally heavier amounts in the higher elevations. Accumulating snow extended into the higher elevations of the foothills, with around 3 inches reported at Little Switzerland.

NCZ052>055-062>067 **Haywood - Buncombe - Mcdowell - Burke - Macon - Southern Jackson - Transylvania - Henderson - Polk - Rutherford**

14 0800EST 0 0 10K High Wind (G60)
15 0200EST

Strong winds developed behind a cold front across the mountains and foothills of North Carolina during the late morning, and continued through the remainder of the day. There was widespread damage to trees and power lines, with quite a few power outages. The hardest hit areas were along and near the Blue Ridge south of I-40. There were tens of thousands of power outages, 14,000 in

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

NORTH CAROLINA, Southwest

Henderson County alone . The area around Lake Lure was especially hard hit, with numerous trees and lines down.

NCZ058 **Graham**

14	**0900EST**		**0**	**0**		**Heavy Snow**
	1200EST					

By mid-morning, snow had accumulated to 2-4 inches across much of the county. However, there were reports of up to a foot of snow in the higher elevations.

NCZ033-048 **Avery - Madison**

14	**1200EST**		**0**	**0**		**Heavy Snow**
	1500EST					

As snow showers continued across the western mountains, accumulations reached 2-5 inches across the area by early afternoon. There were locally heavier amounts in the higher elevations.

NCZ034>035 **Caldwell - Alexander**

14	**1900EST**		**0**	**0**		**High Wind (G55)**
15	**0000EST**					

Although winds gusted strongly throughout the daylight hours on the 13th, damaging winds did not develop until after sunset across portions of the North Carolina foothills north of Interstate 40. Scattered power outages were reported

NCZ034 **Caldwell**

18	**1300EST**		**0**	**0**	**5K**	**Strong Wind**

A tree, uprooted in gusty winds, fell on a home and caused some damage.

NCZ033-049>051-053>054-059-063 **Avery - Yancey - Mitchell - Swain - Buncombe - Mcdowell - Northern Jackson - Southern Jackson**

25	**0200EST**		**0**	**0**	**20K**	**High Wind (G55)**
	0900EST					

High winds developed across the mountains and the foothills during the overnight hours, and continued through about mid morning. The hardest hit areas were locations along and near the Blue Ridge from I-40 north, and Jackson county in North Carolina. In Avery County, a steeple was blown off of a church. Scattered to widespread tree damage occurred, with quite a few power outages, mainly concentrated along the I-40 corridor from Black Mountain to Old Fort.

NCZ033-048>053-058>059 **Avery - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Graham - Northern Jackson**

30	**1900EST**		**0**	**0**		**Winter Weather**
	2100EST					

Rain changed to snow or a rain and snow mixture across the mountains of North Carolina for a brief period during the evening. In some locations, snow quickly accumulated to 1 to 2 inches before ending, mainly in areas above 3000 feet.

NORTH DAKOTA, Central and West

NDZ034>035 **Morton - Burleigh**

20	**0700CST**		**0**	**0**	**465K**	**Winter Weather**
	1130CST					

Around two inches of snow fell over Morton and Burleigh counties this morning. It was enough to cause slippery roads and traffic induced snow fog. Numerous accidents were reported in the two counties. The worst accidents were on Interstate 94 in Morton County, between Mandan and New Salem. There were 5 injuries (indirect) and significant damage to many vehicles. One of the accidents involved four tractor trailers and a tanker. The tanker, with an estimated value of $250,000, was a total loss.

NORTH DAKOTA, East

NDZ006>008-015>016-054 **Towner - Cavalier - Pembina - Ramsey - Eastern Walsh - Western Walsh**

24	**0400CST**		**0**	**0**		**Blizzard**
	1100CST					

A fairly strong surface low tracked from near Winnipeg in the early evening of the 23rd to northern Lake Superior by the next morning. This track only brought a dusting or so of snow to the area. However, as the surface low moved past, wind speeds became very gusty. When combined with the light falling snow and the snow already on the ground, visibilities quickly dropped in the morning hours of the 24th. Whiteout conditions developed along the Canadian border from Sarles, ND, to Hallock, MN. No travel was recommended on Interstate 29 north of Grand Forks and along ND Highway 5 in northeast ND.

NDZ038 **Barnes**

24	**0630CST**		**0**	**0**		**High Wind (G50)**
	0730CST					

A gust of 58 mph was measured at the Dazey NDAWN site in northern Barnes county.

NDZ030-039-053 **Traill - Cass - Richland**

24	**0900CST**		**0**	**0**		**Blizzard**
	1300CST					

A burst of strong northwest winds worked up the Red River Valley, causing a four hour period of ground blizzard conditions. Wind speeds peaked between 50 and 60 mph and occurred with just a little light snow. However, the strong winds were also able to lift

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

NORTH DAKOTA, East

some snow that was already on the ground.

NDZ008-016-026-028-054 **Pembina - Eastern Walsh - Nelson - Griggs - Western Walsh**

	28	**2053CST**	**0**	**0**			**Heavy Snow**
	29	**1500CST**					

6 to 12 inches of snow fell in a heavy band from Lancaster, MN, to Park River, ND, to McVille, ND. Most of the heavy snow fell by early Sunday morning (of the 29th), but some light snow did linger later into the day. In Minnesota, Lancaster reported 12.5 inches o snow and Hallock reported around 9 inches. In North Dakota, Park River reported around 10 inches, Drayton and Lankin around 8 inches, and McVille between 6 and 8 inches. With this system, an inverted trough set up over the northern Red River Valley from a surface low that tracked from Kansas to Wisconsin.

OHIO, East

Belmont County

Shadyside	**02**	**1608EST**	**0**	**0**			**Flash Flood**
		1800EST					

Pipe Creek flooded County Rd 54, at 408 PM. By 445 PM, there was a mud slide.

Noble County

Batesville	**02**	**1630EST**	**0**	**0**			**Flash Flood**
		1745EST					

One road flooded in northeast Noble County, somewhere near Batesville.

Guernsey County

3 SW Senecaville	**02**	**1700EST**	**0**	**0**			**Flash Flood**
		1830EST					

One road flooded in Buffalo.

Harrison County

Bowerston	**02**	**2037EST**	**0**	**0**			**Flash Flood**
		2245EST					

Route 151 flooded.

Harrison County

1 E Jewett	**02**	**2300EST**	**0**	**0**			**Flash Flood**
	03	**0100EST**					

Conotton Creek flooded Rte 151, just east of Jewett.

OHIO, North

Medina County

2 N Lodi	**02**	**1900EST**	**0**	**0**			**Hail (0.75)**

Penny size hail was observed.

Geauga County

Newbury	**02**	**2006EST**	**0**	**0**			**Hail (0.75)**

Penny size hail was observed.

OHIO, Northwest

NONE REPORTED.

OHIO, Southeast

OHZ087 **Lawrence**

	23	**0315EST**	**0**	**0**			**Flood**
		0645EST					

A 12 to 24 rain event started during the late afternoon on the 22nd, then diminished to drizzle during the morning on the 23rd. Rains amounts on either side of 2 inches were common across the county. South Point measured 2.22 inches, while Waterloo had 1.94 inches.

Streams flooded roads and surrounded a few homes and trailers. No significant damage occurred. Route 141 was closed around Arabia and Route 49 around Pedro. The Rock Hill School District did not open for the day, while some others were on a 2 hour delay.

OHIO, Southwest

Clark County

Springfield	**02**	**1654EST**	**0**	**0**			**Hail (1.00)**
		1658EST					

Montgomery County

Trotwood	**13**	**0648EST**	**0**	**0**			**Hail (0.75)**
		0651EST					

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

OKLAHOMA, Eastern

OKZ049-053>076 **Pushmataha - Choctaw - Osage - Washington - Nowata - Craig - Ottawa - Pawnee - Tulsa - Rogers - Mayes - Delaware - Creek - Okfuskee - Okmulgee - Wagoner - Cherokee - Adair - Muskogee - Mcintosh - Sequoyah - Pittsburg - Haskell - Latimer - Le Flore**

01 0000CST **0** **0** **Drought**
31 2359CST

Several rainfall events during the month brought near normal to above normal precipitation to portions of southeastern Oklahoma while northeastern Oklahoma received another month of below normal precipitation for January. Rainfall amounts in some locations in southeastern Oklahoma reached three to four inches for the month. A widespread rainfall event on the 28th and 29th produced 24-hour rainfall amounts of one to two inches, which was the first time in about five months that more than an inch of rain was observed in southeastern Oklahoma. Despite this needed rainfall, northeastern Oklahoma remained in severe drought (D2) to extreme drought (D3) conditions and southeastern Oklahoma remained in exceptional drought (D4) conditions during the month due to the rainfall deficits that the area experienced in the long-term. Reservoirs in eastern Oklahoma remained below 70 percent of their normal pools during January. A burn ban that was issued for the region in mid November remained in effect through the month.

OKZ073 **Pittsburg**

01 0300CST **0** **0** **Wildfire**
1500CST

A wildfire in rural Pittsburg County to the northeast of McAlester near Bugtussle Road and Two Mile Lane burned hundreds of acres.

OKZ074 **Haskell**

01 0900CST **0** **0** **Wildfire**
1900CST

A wildfire in the Garland Corner area northeast of Stigler burned 200 acres.

OKZ064 **Creek**

01 1200CST **0** **0** **200K** **Wildfire**
2000CST

Three fast moving wildfires broke out in the Bristow area burning thousands of acres and many structures including two mobile homes.

Another fire occurred from near the old Shamrock Highway to the northeast near Joseph's Fine Foods and across Highway 16. The fire charred 10,000 acres but did not damage any homes.

OKZ070 **Muskogee**

01 1500CST **0** **0** **500K** **Wildfire**
2300CST

Grass fires fueled by high winds raced across an estimated 16,000 acres southwest of Muskogee destroying four homes, several barns and a lot of hay.

OKZ060 **Tulsa**

01 1500CST **0** **0** **Wildfire**
2200CST

A large grass fire occurred near 111th Street South and Highway 75. A neighborhood had to be evacuated, but no homes were damaged.

OKZ065 **Okfuskee**

01 1800CST **0** **0** **Wildfire**
2300CST

A large wildfire burned about three miles north of Okemah Lake Road. The fire threatened homes and several fire departments responded.

OKZ064 **Creek**

03 1100CST **0** **0** **100K** **Wildfire**
1800CST

A grass fire that swept across Shamrock in southwest Creek county destroyed an abandoned school, a vacant home and damaged two other residences.

OKZ071 **Mcintosh**

08 0030CST **0** **0** **50K** **Wildfire**
2345CST

A fire occurred along McAnally Road and spread to the east to behind the Pixie Woods area. The fire consumed almost 7,000 acres and four barns were destroyed.

Adair County
Westville **09 2224CST** **0** **0** **Hail (0.88)**

OKZ054>055 **Osage - Washington**

10 0015CST **0** **0** **Heavy Snow**
1200CST

Snow began falling across Osage and Washington Counties shortly after midnight. The snow was heavy at times during the overnight and morning hours before ending around noon. Four to five inches of snow were reported 4 miles north of Hominy in Osage County

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
OKLAHOMA, Eastern									
and 6 miles north northwest of Copan in Washington County.									
Pittsburg County									
8 ENE Canadian	**12**	**1920CST**			**0**	**0**			**Hail (0.75)**
Muskogee County									
Warner	**12**	**1931CST**			**0**	**0**			**Hail (0.75)**
Haskell County									
Stigler	**12**	**1954CST**			**0**	**0**			**Hail (0.75)**
Adair County									
Westville	**12**	**2008CST**			**0**	**0**			**Hail (0.88)**
Latimer County									
8 S Wilburton	**12**	**2008CST**			**0**	**0**			**Hail (0.88)**
Haskell County									
Cartersville	**12**	**2016CST**			**0**	**0**			**Hail (1.00)**
Pushmataha County									
4 SE Clayton	**12**	**2020CST**			**0**	**0**			**Hail (0.75)**
Sequoyah County									
Sallisaw	**12**	**2022CST**			**0**	**0**			**Hail (0.75)**
Choctaw County									
Messer	**12**	**2030CST**			**0**	**0**			**Hail (0.75)**
Choctaw County									
Messer	**12**	**2030CST**			**0**	**0**			**Thunderstorm Wind (G52)**
Le Flore County									
Rock Is	**12**	**2050CST**			**0**	**0**			**Hail (0.75)**
Le Flore County									
Pocola	**12**	**2054CST**			**0**	**0**			**Hail (1.75)**
Le Flore County									
Octavia	**12**	**2116CST**			**0**	**0**			**Hail (0.88)**
OKZ064	**Creek**								
	15	**1200CST**			**0**	**0**			**Wildfire**
		1800CST							
A large grass fire near Kellyville burned 800 acres.									
OKZ060	**Tulsa**								
	15	**1400CST**			**0**	**0**	**100K**		**Wildfire**
		1800CST							
A large grass fire occurred in the Owasso area near 116th Street North between Sheridan and Memorial. As many as ten structures were destroyed by the fire; none were homes.									
OKZ060	**Tulsa**								
	15	**2100CST**			**0**	**0**			**Wildfire**
	16	**1500CST**							
A large grass fire burned 250 acres in the vicinity of Sperry from the afternoon of the 15th into the 16th.									
OKZ064	**Creek**								
	16	**1200CST**			**0**	**0**			**Wildfire**
		1800CST							
A large grass fire threatened the Never Sweat Ranch near Kellyville.									
OKZ067	**Wagoner**								
	16	**1600CST**			**0**	**0**			**Wildfire**
		1800CST							
The Wagoner fire department fought a grass fire near Elevator Road at the Verdigris River.									
OKZ058	**Ottawa**								
	18	**1100CST**			**0**	**0**	**100K**		**Wildfire**
	19	**0800CST**							
A fire burned 75 acres on the afternoon of the 18th near Wyandotte. The fire destroyed Jake's Flea Market on a rural part of Highway 10. Another grass fire in the area consumed 320 acres while a third wildfire burned 700 acres near the Delaware County line during the early morning hours of the next day.									
OKLAHOMA, Extreme Southeast									
Mccurtain County									
5 W Hochatown	**09**	**2125CST**			**0**	**0**			**Hail (1.00)**

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
OKLAHOMA, Extreme Southeast									
Mccurtain County									
Battiest	**12**	**2100CST**			**0**	**0**			**Hail (0.88)**
	Hail fell northwest of Bethel.								
Mccurtain County									
Valliant	**12**	**2120CST**			**0**	**0**			**Hail (0.75)**
Mccurtain County									
Idabel	**12**	**2150CST**			**0**	**0**			**Hail (0.75)**
OKLAHOMA, Panhandle									
OKZ003	**Beaver**								
	03	**1300CST**			**0**	**0**			**Wildfire**
	04	**0300CST**							
	Strong winds...low relative humidities and very dry fuels combined to produce two wildfires in the eastern Oklahoma panhandle during the early afternoon hours and continued until after midnight. The first wildfire was reported three and one-quarter miles west of Clearlake and the second wildfire occurred near the Beaver River or six miles east of Beaver. Several structures were threatened at the Clearlake fire. A total of around fourteen thousand acres were burned.								
OKLAHOMA, Western, Central and Southeast									
OKZ004>048-050>052	**Harper - Woods - Alfalfa - Grant - Kay - Ellis - Woodward - Major - Garfield - Noble - Roger Mills - Dewey - Custer - Blaine - Kingfisher - Logan - Payne - Beckham - Washita - Caddo - Canadian - Oklahoma - Lincoln - Grady - Mcclain - Cleveland - Pottawatomie - Seminole - Hughes - Harmon - Greer - Kiowa - Jackson - Tillman - Comanche - Stephens - Garvin - Murray - Pontotoc - Coal - Cotton - Jefferson - Carter - Johnston - Atoka - Love - Marshall - Bryan**								
	01	**0000CST**			**0**	**0**	**15M**	**750K**	**Drought**
	31	**2359CST**							
	Drought conditions persisted and expanded across the area into the first month of the new year. Drought levels ranged from severe to exceptional (D2-D4), with the driest conditions in southeast Oklahoma. Some precipitation did fall during the month, mainly in the form of snow, which did not do much to alleviate the dry conditions over the area. The new year started off with a bang with a major wildfire event occurring across the area on New Year's Day due to strong winds, some gusting over 50 mph, and low humidities. The biggest fire occurred in Kingfisher county where more than 31,360 across were burned. Another large fire occurred on January 1st in the Arbuckle Mountains of Murray county where 18,000 acres were scorched. Many federal, state, tribal, and local assets along with assistance from other states were used to fight the fires. The metropolitan area of Oklahoma City was not immune to the wildfires. Several fires ignited across the city. The largest urban wildfire affected the northeastern parts of the metro, where several neighborhoods were threatened and many residents were evacuated. Numerous structures were burned, but no injuries occurred. Overall, the wildfires across the western half of Oklahoma injured several firefighters due to smoke inhalation and minor burns, but no fatalities were reported. In all, over 55,000 acres were scorched across western and central Oklahoma on New Year's Day. Numerous structures, including many homes, were burned along with many large round hay bales which were desperately needed to sustain livestock through the drought. A Federal Emergency Declaration was declared for many of the affected counties. January 12 was another day of many wildfires across the area. Strong winds exacerbated already dry conditions. One of the largest wildfires occurred near Ratliff City in Carter county where 23,380 acres of land were scorched. The fire burned an area about 9 miles long and was at times 4.5 miles wide. Twenty homes and 3 mobile homes were destroyed. Two oil field offices, 9 garages, and 10 outbuildings were also destroyed. Two hundred round bales of hay were burned. Thirty-five head of cattle were also killed. One tank battery also caught fire which caused a hazmat incident. Four towns of approximately 800 homes were evacuated due to this fire. Many other days saw wildfires in the area. More than 110,000 acres were scorched during the month of January destroying many structures, including homes. The drought also continued to affect farm ponds and livestock across the area, with many ranchers and farmers selling their entire herd due to scorched pasture and hay, and lack of water.								
OKZ014-022	**Roger Mills - Washita**								
	01	**1550CST**			**0**	**0**			**High Wind (G56)**
		1640CST							
	Winds gusted above 50 mph in several locations across western and central Oklahoma due to a strong surface low pressure. A dry line moved through portions of the area causing winds to shift to the west. These west winds measured wind gusts as high as 50-56 knots (58-64 mph) in three locations. The highest wind gust measured was 56 knots (64 mph) at the KCSM ASOS station 2 miles west of Burns Flat in Washita County. The other two stations were Oklahoma mesonet sites at 4 WNW of Bessie in Washita County and 6 SW of Cheyenne in Roger Mills county. These high winds made fighting wildfires difficult and allowed the fires to spread quickly across the area.								

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

OKLAHOMA, Western, Central and Southeast

OKZ007>008-012>013-018>019 — **Grant - Kay - Garfield - Noble - Kingfisher - Logan**

09 2000CST — **0** — **0** — **Heavy Snow**
10 0730CST

Widespread snow occurred across parts of western, central, and northern Oklahoma beginning the evening of January 9th and ending during the morning hours of January 10th. Within this wide area of snow, a band of heavy snow dropped 6 to near 12 inches from Braman to Lamont to Billings to Marshall and Crescent. The largest amount measured occurred in Lamont in Grant County. The snow caused difficult travel conditions along with closures of schools and businesses. Due to warm air and ground temperatures before and after the event, the widespread snow melted in a day with the heavier amounts linger for a couple of days.

OKZ038 — **Comanche**

12 1810CST — **0** — **0** — **High Wind (G51)**

Most wind gusts across the area this evening were not high. However, one Oklahoma mesonet station did record a wind gust of 51 knots (59 mph) 3 miles west of Medicine Park in Comanche county. This site usually gusts higher than those stations surrounding it due to higher elevation. These gusty conditions increased the wildfire potential across the area on January 12th.

OREGON, Central and East

Wasco County

Moody — **01 0000PST** — **0** — **0** — **Flood**
0700PST

Deschutes River at Moody fell below flood stage at 0700.

ORZ501 — **Foothills Of The Blue Mountains**

10 2114PST — **0** — **0** — **High Wind (G51)**
2327PST

Peak wind 50 knots at Pilot Rock 2S and 51 knots at NWS Pendleton.

ORZ043 — **Central Oregon**

16 1239PST — **0** — **0** — **Heavy Snow**
1500PST

6-7 inches of snow 4WSW of LaPine.

ORZ502 — **Northern Blue Mountains**

20 1230PST — **0** — **0** — **Heavy Snow**
2200PST

9 inches in 12 hours at Meacham 4NNW.

ORZ049 — **Grand Ronde Valley**

24 1030PST — **0** — **0** — **High Wind (G52)**
1915PST

Winds at the base of Ladd Canyon and LaGrande Airport gusted to around 60 mph. Sustained winds of 40 to 47 mph occurred at LaGrande Airport from 1755-1915 PST.

ORZ043 — **Central Oregon**

28 0905PST — **0** — **0** — **Heavy Snow**
0957PST

6 inches overnight at Sunriver 1NNE.

ORZ043 — **Central Oregon**

29 1614PST — **0** — **0** — **Heavy Snow**
1634PST

8 inches of snow in 8 hours at Sunriver 2SSW.

ORZ043 — **Central Oregon**

31 2100PST — **0** — **0** — **Heavy Snow**
2359PST

12 inches in 8 hours at Sunriver.

OREGON, Northwest

ORZ001>003 — **Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon**

01 0800PST — **1** — **1** — **High Wind (G56)**
1800PST

A strong low pressure system moving northward just off the Oregon Coast caused high winds. Clatsop Spit recorded sustained winds of 48 mph with a gust to 64 mph; Garibaldi had 46 gusting to 58 mph; Yaquina Bay bridge reported 43 gusting to 55 mph; and Sea Lion Cave had a gust to 59 mph. Numerous reports of downed trees were received, and power outages were reported near Garibaldi. On Highway 26 west of Banks at milepost 38 winds toppled a 50 to 75 foot tall tree onto the passenger side of a pickup truck driven by 27 year old Cory James O'Neill of Vancouver Washington, killing passenger 25 year old Joshua Hojnacki from Vancouver, WA at the scene. O'Neill was treated for minor injuries. M25VE

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
OREGON, Northwest									
ORZ006>007	**Greater Portland Metro Area - Central Willamette Valley**								
	01	**1100PST**			**0**	**0**	**500K**		**High Wind (G50)**
		1800PST							
	A strong low pressure area off the Coast caused high winds in the Willamette Valley. McMinnville airport reported 44 mph sustained winds with a gust to 49 mph. Trees were reportedly blown down near Linfield College in Salem, including an 80 foot tall Cypress tree. A house in Aloha was destroyed by a falling tree. Nearly 22,000 customers were without power due to power lines downed by falling trees.								
ORZ001>004-006	**Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon - Central Coast Range Of W Oregon - Greater Portland Metro Area**								
	09	**2100PST**			**0**	**0**			**High Wind (G72)**
	10	**1300PST**							
	A strong Pacific storm brought strong winds to the coast and coast range, with damage reported as far inland as Portland. Some winds reported wit this system were: Yaquina Bay Bridge: 40 mph gusts to 50 mph Garibaldi: 48 mph gusts to 55 mph Clatsop Spit: gusts to 62 mph Florence: 40 mph gusts to 60 mph Lincoln City: gusts to 64 mph Newport Airport: 41 mph Rockhouse RAWS: gusts to 72 mph Various reports were received of trees blown down by high winds. In Beaverton, trees fell on power lines, cutting off power to residents, and in Portland, two cars were destroyed by fallen trees. In Long Beach, a house was apparently blown off its supports, moving the entire house a few feet away. And in the Canby and Aurora areas, approximately 14,000 customers were without power at some point during the storm.								
Benton County									
Monroe	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Benton County									
Philomath	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Clackamas County									
Estacada	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Clackamas County									
Oregon City	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Lane County									
Mapleton	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Lane County									
Springfield	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Lincoln County									
Siletz	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Marion County									
Aurora	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Polk County									
Suver	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Tillamook County									
Nehalem	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Tillamook County									
Tillamook	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Washington County									
Dilley	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
OREGON, Northwest									
Washington County									
Farmington	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
Yamhill County									
Mc Minnville	**10**	**0000PST**			**0**	**0**			**Flood**
	14	**2200PST**							
ORZ003	**Coast Range Of Nw Oregon**								
	11	**0900PST**			**0**	**0**			**Landslide**
		1200PST							
	A series of wet Pacific storms brought heavy rains to the area, causing flooding and damage. Here is a list of rivers that flooded during this event: Pudding River at Aurora, Clackamas River near Estacada, and near Oregon City, Tualatin River near Dilley and at Farmington, Nehalem River near Foss, Willamette River below the Falls at Oregon City, South Yamhill River at McMinnville, Long Tom River at Monroe, Siuslaw River at Mapleton, Marys River near Philomath, Siletz River at Siletz, Mohawk River near Springfield, Luckiamute River near Suver, Wilson River near Tillamook, and Trask River near Tillamook. Flooding also brought widespread damage to northwest Oregon. Low-lying areas and agricultural lands saw the most damage, while multiple road closures were due to flooding over local roads. Heavy rains and flooding on the coast caused a landslide in Seaside, which washed away part of Lewis and Clark Road. Also during this event, Oregon Governor Ted Kulongoski declared a state of emergency in 24 of Oregon's 36 counties.								
Benton County									
Corvallis	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Benton County									
Monroe	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Benton County									
Philomath	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Lane County									
Springfield	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Linn County									
Albany	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Linn County									
Harrisburg	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Marion County									
Jefferson	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
Polk County									
Suver	**17**	**0000PST**			**0**	**0**			**Flood**
	21	**2200PST**							
	A strong, moisture-laden storm brought heavy rains and flooding to northwest Oregon. Here is a list of rivers that flooded during this event: Willamette River at Albany, at Corvallis, and at Harrisburg; Santiam River near Jefferson; Long Tom River at Monroe; Siuslaw River at Mapleton; Marys River near Philomath; Mohawk River near Springfield; Luckiamute River near Suver. Flooding affected widespread low-lying areas and agricultural lands. Flooding was also the cause of multiple road closures around the area.								
ORZ011-013	**Northern Oregon Cascades - Cascades In Lane County**								
	19	**2200PST**			**0**	**0**			**Winter Storm**
	20	**1400PST**							
	A moisture-laden Pacific storm brought heavy rainfall to the Cascades of northwest Oregon. Some snow totals reported with this storm are: Santiam Pass: 21" Mt. Hood Meadows: 16" Timberline: 12"								
ORZ001>002	**Northern Oregon Coast - Central Oregon Coast**								
	27	**2000PST**			**0**	**0**	**200K**		**High Wind (G75)**
	28	**0400PST**							
ORZ003>004	**Coast Range Of Nw Oregon - Central Coast Range Of W Oregon**								
	27	**2000PST**			**0**	**0**	**100K**		**Strong Wind**
	28	**0400PST**							

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

OREGON, Northwest

A strong low pressure system moving northward just off the Oregon Coast brough high winds to the Oregon Coast and Coast Range. Here are some winds reported with this storm:
Newport Jetty reported 55 gusting to 75 mph; Garibaldi had 61 gusting to 69 mph; Yaquina Bay bridge reported 43 gusting to 55 mph; Desdemona Lighthouse had a gust to 64 mph; Florence reported 55 gusting to 75 mph; Seaside had gusts to 63 mph; Yaquina Bay Bridge reported 50 gusting to 67 mph; Lincoln City reported gusts to 74 mph; and Newport Airport reported 40 gusting to 61 mph. In the coast range, Mt. Hebo reported gusts to 45 mph.

ORZ011-013 **Northern Oregon Cascades - Cascades In Lane County**

	28	0400PST	0	0			Winter Storm
		1800PST					

A relatively strong, moisture-laden storm brought heavy snow the northwest Oregon Cascades. Some snow accumulations with this storm are: Timberline at 16"; Mt. Hood Meadows at 15"; Government Camp at 15"; and Santiam Pass at 14".

Tillamook County

Nehalem	29	0000PST	0	0			Flood
	31	2359PST					

Tillamook County

Tillamook	29	0000PST	0	0			Flood
	31	2359PST					

Washington County

Dilley	29	0000PST	0	0			Flood
	31	2359PST					

Washington County

Farmington	29	0000PST	0	0			Flood
	31	2359PST					

A strong, moisture-laden Pacific storm brought heavy rains to the area, causing flooding and damage. Here is a list of rivers that flooded during this event: Tualatin River near Dilley and at Farmington, Nehalem River near Foss, and Wilson River near Tillamook. Flooding also brought widespread damage to northwest Oregon. Low-lying areas and agricultural lands saw the most damage, while multiple road closures were due to flooding over local roads.

ORZ001>002 **Northern Oregon Coast - Central Oregon Coast**

	29	0200PST	0	0	100K		High Wind (G90)
	30	0400PST					

ORZ003>004 **Coast Range Of Nw Oregon - Central Coast Range Of W Oregon**

	29	0200PST	0	0	100K		Strong Wind
	30	0400PST					

A strong system brought high winds to the Oregon Coast and Coast Range. Here is a list of some wind reports received during this event:
Tillamook: gusts to 90 mph
Cannon Beach: 42 mph with gusts to 63 mph
Clatsop: 44 mph with gusts to 60 mph
Florence: 53 mph with gusts to 63 mph
Lincoln City: gusts to 86 mph
Newport Jetty: 55 mph with gusts to 70 mph
Newport Airport: 46 mph with gusts to 63 mph
Garibaldi: 63 mph with gusts to 89 mph
Seaside: gusts to 63 mph
Yaquina Bay Bridge: 53 mph with gusts to 70 mph
Mt. Hebo: gusts to 48 mph
The storm caused high winds which brought several trees down around the area. Some trees knocked down power lines, which left 45% of Tillamook county residents without power. Trees that had been blown down over roads caused several highway closures, including portions of Hwy. 101, Hwy. 34, and Hwy. 53.

ORZ011-013 **Northern Oregon Cascades - Cascades In Lane County**

	31	0700PST	0	0			Winter Storm
		2200PST					

A moisture-laden Pacific storm brought heavy snow to the northwest Oregon Cascades. Some snow accumulations for this event are listed as follows:
Mt. Hood Meadows at 21"
Bennet Pass at 23"
Timberline Ski Resort at 15"

ORZ001>004 **Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon - Central Coast Range Of W Oregon**

	31	1400PST	0	0			High Wind (G74)
		2000PST					

A strong Pacific system brought high winds to the Oregon Coast and Coast Range. Strong winds reported with this event include:

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

OREGON, Northwest

Garibaldi: 48 mph with gusts to 61 mph
Clatsop Spit: 47 mph with gusts to 74 mph
Lincoln City: 42 mph with gusts to 74 mph
Desdemona Lighthouse: 53 mph with gusts to 64 mph
Yaquina Bay Bridge: 53 mph with gusts to 64 mph
Newport Jetty: 54 mph with gusts to 71 mph
Cannon Beach: 52 mph with gusts to 64 mph
Newport Airport: 48 mph with gusts to 66 mph
Mt. Hebo: 45 mph with gusts to 58 mph
High winds caused power outages in Cannon Beach, as well as minimal damage to a building under construction in Tillamook. There were also reports of trees blown down in the Van Duzer corridor of Hwy. 18, closing portions of the highway.

OREGON, Southeast

ORZ062 **Baker**

17	**1200PST**	**0**	**0**		**Heavy Snow**
	2300PST				

ORZ062 **Baker**

28	**0700PST**	**0**	**0**		**Heavy Snow**
	1900PST				

OREGON, Southwest

ORZ023 **Central Douglas County**

01	**0000PST**	**0**	**0**		**Flood**
	0430PST				

Umpqua River at Elkton.
The Umpqua River at Elkton exceeded flood stage (33.0 feet) at 30/2200 PST, crested at 39.54 feet at 31/0600 PST, and fell below flood stage at 01/0430 PST in January 2006. A Flood Warning was issued for the area at 30/1215 PST, and cancelled at 01/1103 in January 2006.

ORZ021 **South Central Oregon Coast**

01	**0000PST**	**0**	**0**		**Flood**
02	**1600PST**				

Rogue River at Agness 2N.
The Rogue River at Agness 2N exceeded flood stage (17.0 feet) at 30/1230 PST, crested at 31.29 feet at 31/0530 PST, and fell below flood stage at 02/1600 PST in January 2006. A Flood Warning was issued for the area at 27/0917 PST, and cancelled at 02/1543 PST in January 2006.

ORZ021 **South Central Oregon Coast**

01	**0000PST**	**0**	**0**		**Flood**
	0400PST				

South Fork of the Coquille River at Myrtle Point.
The South Fork of the Coquille River at Myrtle Point exceeded flood stage (38.0 feet) at 30/1745 PST, crested at 42.12 feet at 31/0030 PST, and fell below flood stage at 01/1200 PST in January 2006. A Flood Warning was issued for the area at 27/0919 PST, and cancelled at 01/1400 PST in January 2006.

ORZ021 **South Central Oregon Coast**

01	**0000PST**	**0**	**0**		**Flood**
03	**0430PST**				

Coquille River at Coquille
The Coquille River at Coquille exceeded flood stage (21.0 feet) at 28/2115 PST, crested at 22.85 feet at 31/1000 PST, and fell below flood stage at 03/1230 PST in January 2006. A Flood Warning was issued for the area at 29/1845 PST, and cancelled at 03/1520 PST in January 2006.

ORZ030 **Northern & Eastern Klamath County & Western Lake County**

01	**0000PST**	**0**	**0**		**Flood**
02	**0830PST**				

Sprague River at Beatty.
The Sprague River at Beatty exceeded flood stage (8.5 feet) at 31/2300 PST, crested at 9.35 feet at 01/1200 PST in January 2006, and fell below flood stage at 02/0830 PST in January 2006. A Flood Warning was issued for the area at 30/1215 PST, and cancelled at 02/1543 PST in January 2006.

ORZ021-021-021-021-021>022-022-022-022-022-022 **South Central Oregon Coast - Curry County Coast**

01	**0100PST**	**0**	**0**		**High Wind (G83)**
	0800PST				

Port Orford sustained winds exceeded High Wind Warning criteria during this interval. The peak sustained wind was 43 mph at 01/0300 and 01/0400 PST.

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

OREGON, Southwest

A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 31/1127 PST in 2005, effective from 01/0400 to 01/1600 PST. It was cancelled at 01/1216 PST. The above observations verified the warning.

ORZ030 **Northern & Eastern Klamath County & Western Lake County**

01	**0800PST**	**0**	**0**		**Heavy Snow**
02	**0800PST**				

The cooperative observer at Chemult reported 13 inches of snow in 24 hours.
A Snow Advisory was issued for ORZ029/030 at 01/0425 PST, effective from 01/2200 to 02/0800 PST. It was shortened to end at 02/0400 PST at 01/1230, and it was cancelled at 02/0343 PST. The above observation was the only one that met Heavy Snow Warning criteria, and this particular station is known to get heavy snow compared to surrounding areas. So...it is likely that most areas in these zones only got Snow Advisory snow amounts.

ORZ022 **Curry County Coast**

03	**0510PST**	**0**	**0**		**High Wind (G60)**

Recorded at Gold Beach.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 02/1356 PST, effective from 03/0400 to 03/1600 PST. It was cancelled at 03/1507 PST. The above observation verified the warning

ORZ021-021-021-021-021-021-021-021-021>022-022-022-022 **South Central Oregon Coast - Curry County Coast**

09	**1700PST**	**0**	**0**		**High Wind (G74)**
10	**1800PST**				

Recorded at Cape Arago.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 09/0249 PST, effective from 09/1500 to 10/0400 PST. The warning for ORZ021 was extended to 10/0600 PST at 10/0312 PST. The ORZ022 warning was cancelled at 10/0312 PST and the ORZ021 warning was cancelled at 10/0600 PST . The above observations verified the warning

ORZ021-021-021-021-021-021-021-021-021 **South Central Oregon Coast**

10	**1500PST**	**0**	**0**		**High Wind (G69)**
	2000PST				

Recorded at Cape Arago.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 10/1612 PST, effective from 10/1612 to 10/2000 PST. It was extended to 10/2300 PST at 10/2001 PST. It was cancelled at 10/2301 PST. The above observations verified the warning

ORZ021 **South Central Oregon Coast**

11	**1615PST**	**0**	**0**		**Flood**
13	**0130PST**				

The Coquille River at Coquille exceeded flood stage (21.0 feet) during this interval. It crested at 21.68 feet at 2045 and 2245 PST on 1/11/06.
A Flood Warning was issued for the Coquille River at Coquille at 11/1717 PST and cancelled at 13/0346 PST. Lead time on the warning was -1:02 hours.

ORZ031 **Central & Eastern Lake County**

13	**1318PST**	**0**	**0**		**High Wind (G72)**

Reported by a spotter 1N Summer Lake in Lake County.
No warnings or advisories were in effect for this event. The high winds were likely isolated in coverage

ORZ021-021-021-021>022-022-022-022-022-022-022-022-022-022 **South Central Oregon Coast - Curry County Coast**

16	**1900PST**	**0**	**0**		**High Wind (G67)**
17	**1200PST**				

Recorded at Cape Arago.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 15/2100 PST, effective from 16/1000 to 17/0400 PST. The warning for ORZ021 was cancelled at 17/0406 PST. The warning for ORZ022 was extended to 17/1200 PST at 16/2244 PST, and extended again to 17/1400 PST at 17/1202 PST. The warning for ORZ021 was cancelled at 17/0406 PST, and the warning for ORZ022 was cancelled at 17/1410 PST. The above observations verified the warning.

ORZ023 **Central Douglas County**

17	**1938PST**	**0**	**0**		**Flood**
18	**0437PST**				

Elk Creek exceeded flood stage (16.0 feet) during this time interval. It crested at 17.44 feet at 17/2238 PST.
A Flood Warning was issued for Umpqua Basin rivers at Drain, including Elk Creek, at 17/1954 PST, effective until 18/0600 PST. The warning was cancelled at 18/0956 PST. The lead time on this warning was -0:16 hours.

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

OREGON, Southwest

ORZ021-021-021-021 **South Central Oregon Coast**

28 0300PST 0 0 High Wind (G88)
0450PST

Recorded at Port Orford.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 27/0121 PST, effective from 27/1900 to 28/0700 PST. It was expired at 28/0700 PST. The above observations verified the warning.

ORZ021-021 **South Central Oregon Coast**

29 0625PST 0 0 High Wind (G74)
2000PST

Recorded at Port Orford.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 28/1313 PST, effective from 29/0600 to 30/0400 PST. It was extended to 30/0700 PST at 30/0404 PST, and it was cancelled at 30/0646 PST. The above observations verified the warning.

ORZ021-021-021-021 **South Central Oregon Coast**

31 1500PST 0 0 High Wind (G69)
2300PST

Recorded at Cape Arago.
A High Wind Warning was issued for Oregon coastal zones ORZ021/022 at 30/2151 PST, effective from 31/1200 to 31/2300 PST. It was shortened to 31/2200 PST at 31/0329 PST, then extended to 01/0400 PST at 31/2146 PST. It was expired at 01/0400 PST. The above observations verified the warning.

PACIFIC

NONE REPORTED.

PACIFIC OCEAN

San Mateo Pt To Mexican Bdr Out 30Nm

Point Loma to 2 E Point Loma **02 0930PST 0 0 5K Marine Strong Wind**

A squall line with gusty winds to 45 mph caused many boats to break loose from their moorings in San Diego Bay.

PENNSYLVANIA, Central

PAZ006-042 **Potter - Sullivan**

03 0200EST 0 0 Winter Storm
0600EST

A low pressure system moved into the Ohio Valley by Monday evening on January 2nd, before redeveloping along the mid Atlantic Coast and moving northeast early Tuesday, January 3rd. With a shallow layer of cold air holding in place, precipitation in the form of mainly freezing rain and sleet affected the region from Monday afternoon into early Tuesday morning. Ice accretion from freezing rain of between one-quarter and one-third of an inch occurred, mainly across the higher elevations above 1800 feet, before the precipitation tapered off Tuesday morning.

PAZ024-033 **Cambria - Somerset**

23 0400EST 0 0 Winter Storm
1000EST

Low pressure developed along the Gulf Coast on Sunday, January 22nd, and traveled northeast to the mid Atlantic Coast by Monday, January 23rd. This spread a swath of sleet and freezing rain across the Laurel Highlands from late Sunday into Monday morning. Ice accretion from freezing rain of between one-quarter to one-half inch affected the region, with the most significant ice accumulations across the higher ridgetops. The precipitation changed to plain rain by the mid morning hours of Monday.

PAZ057 **Dauphin**

24 2000EST 0 0 10K Strong Wind
2020EST

Showers of rain and snow developed well ahead of a cold front approaching from the west during the evening hours on Tuesday January 24th. A few of these showers developed into thunderstorms, and produced locally strong wind gusts of up to 54 mph. These strong wind gusts ripped a roof off of a barn east of Halifax, and propelled it 100 feet into a chicken coop. In addition, a wind gust of 54 mph was recorded at Harrisburg International Airport as this squall moved through.

PAZ004-033 **Warren - Somerset**

25 1300EST 0 0 Winter Storm
26 0400EST

Cold air passing across the unusually warm Great Lakes, combined with orographic lift to produce locally heavy snow squalls across the higher elevations of Warren and Somerset Counties from Wednesday afternoon on January 25th, into the early morning hours of Thursday January 26th. Localized snowfall accumulations of 6 to 10 inches occurred across the higher, west facing ridgetops of Somerset County, and up to 11 inches over the northwest portions of Warren County by the time the snow squalls tapered off early Thursday morning.

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

PENNSYLVANIA, East

PAZ054>055 — **Carbon - Monroe**

03	**0200EST**			**0**	**0**			**Winter Storm**
	1700EST							

A winter storm brought a mix of freezing rain, sleet and snow to the Poconos from the afternoon of the 2nd into the afternoon of the 3rd. Snow accumulations reached around six inches in the higher terrain and ice accretions were around one-quarter of an inch. Numerous minor accidents occurred. The greatest concentration was on a three mile stretch of Interstate 380 in Monroe County from the Interstate 80 split to just beyond the Pocono Exit. Precipitation actually started as light rain around noon EST on the 2nd. But as its intensity increased and colder air filtered south, it changed over to freezing rain during the early afternoon on the Pocono Plateau and then spread into the valleys. Snow was mixed with the freezing and sleet at times on the plateau during the second half of the afternoon before it went back to just freezing around around 6 p.m. EST. Precipitation fell as freezing rain through the evening and changed over to snow during the eaerly morning of the 3rd. Snow then fell throughout the day on the 3rd and ended just before evening. Accumulations included 6.5 inches in Tobyhanna (Monroe County), 4.0 inches in Pocono Summit (Monroe County), 2.5 inches in Beaver Meadow (Carbon County), 2.0 inches in Tannersville (Monroe County) and 1.7 inches in Lehighton (Carbon County). Ice accretions included 0.30 of an inch in Tobyhanna (Monroe County).

The wintry weather was caused by a low pressure system that moved west to east across the central part of the United States. In tandem, a high pressure system skirted across southeastern Canada and kept a fresh supply of cold air near the surface. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City.

PAZ070>071 — **Delaware - Philadelphia**

04	**1600EST**			**0**	**0**		**0**	**Coastal Flood**
	1800EST							

The combination of a high pressure system over Canada and a low pressure system that exited the Delaware coast on the 3rd and runoff from the heavy rain produced some minor tidal flooding during the daytime high tide along the Delaware River as well as along tidal sections of its tributaries. The high tide in Philadelphia reached 8.44 feet above mean lower low water. Minor tidal flooding begins at 8.2 feet above mean lower low water. The tidal flooding was caused by the east to northeast flow between a low pressure system that moved west to east across the central part of the United States and a high pressure system that skirted across southeastern Canada. The low pressure system moved from northeastern Missouri around sunrise on the 2nd into Indiana during the evening of the 2nd and Ohio around daybreak on the 3rd. A secondary low pressure system formed along its warm frontal boundary on the Delmarva Peninsula early in the morning on the 3rd and moved east fairly rapidly. By 7 p.m. EST on the 3rd it was already about 400 miles east of Atlantic City. While the low pressure system moved well offshore by the morning of the 4th, the high pressure system built south into northern New England. This maintained a weaker, (but still) up the bay flow and helped cause pockets of minor tidal flooding with the daytime high tide cycle.

PAZ054>055 — **Carbon - Monroe**

04	**2300EST**			**0**	**0**			**Winter Weather**
05	**0400EST**							

A weakening occluded front caused a light mixture of snow and freezing rain across the Poconos for several hours overnight on the 4th. Snow accumulations were half an inch or less and ice accretions were only a few hundredths. Nevertheless, untreated roads became slippery. The occluded front moved slowly east from Pittsburgh, Pennsylvania at 7 p.m. EST on the 4th to the Delaware River Valley at 7 a.m. EST on the 5th. Precipitation preceded the occluded front by a couple of hours.

Lehigh County

5 N Schnecksville	**14**	**0520EST**		**0**	**0**			**Thunderstorm Wind (G56)**

A severe thunderstorm knocked down numerous trees and peeled part of a roof off of one home in Washington Township. About a dozen homes were damaged by the downed trees. Patio furniture was destroyed at one home and green house windows were broken at another home.

Northampton County

1 E Bath	**14**	**0530EST**		**0**	**0**	**50K**	**0**	**Lightning**

Lightning struck the roof of an Upper Nazareth Township home and left a gaping hole in a bedroom wall, melted the home's electrical switch boxes and melted the house's siding. Some neighboring homes also had their electrical service affected. The lightning also broke the padlock on a shed.

Northampton County

Nazareth	**14**	**0535EST**		**0**	**0**			**Thunderstorm Wind (G50)**

A severe thunderstorm knocked down a few trees and wires in Nazareth Borough. The toppled poles and wires blocked several roads.

PAZ054>055-060-067-070 — **Carbon - Monroe - Berks - Chester - Delaware**

14	**1500EST**			**0**	**0**	**600K**		**High Wind (G53)**
15	**1600EST**							

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

PENNSYLVANIA, East

PAZ061>062-068>069-071 — **Lehigh - Northampton - Montgomery - Bucks - Philadelphia**

14	**1500EST**	**0**	**0**	**180K**		**Strong Wind**
15	**1600EST**					

A slow moving and intense low pressure system combined with a high pressure ridge across the Mississippi Valley to produce a prolonged period of strong to high winds across Eastern Pennsylvania from the second half of the afternoon on the 14th through the late afternoon on the 15th. The strongest wind gusts occurred between 3 a.m. and 7 a.m. EST on the 15th. The persistent strong winds combined with ground that was wet and not frozen ground caused more tree damage than normally would be the case. Numerous downed trees and limbs consequently helped snap poles, bring lines down and caused numerous power outages. Pennsylvania Power and Light, Metropolitan Edison and PECO Energy reported about 205,000 of their customers throughout Eastern Pennsylvania lost power. It took until the 17th for all power to be restored. The high and strong winds also peeled roofs and gutters from several structures. Several homes and businesses were also damaged by downed trees. Roads were closed by downed trees. No serious injuries were reported.

In Carbon County, in Lansdale three roofs were peeled from connected homes. In Lehighton, siding, pieces of roofs and gutters were stripped from a few homes. A playhouse was totally leveled by a downed tree. About 8,000 homes and businesses lost power. In Monroe County, four trees fell on one home in Stroud Township. About 28,000 homes and businesses lost power. In Northampton County, there were about 175 reports of downed trees. Large outages were reported in Bath, Bangor, Upper Mount Bethel and Nazareth. A Red Cross shelter was opened in Upper Mount Bethel to help several families. Pennsylvania Power and Light and Metropolitan Edison reported about 67,000 homes and businesses lost power in the Lehigh Valley. In Berks County, the 12 foot spire atop the Albright College Chapel in Reading was toppled. In Hamburg, the winds blew off a section of a warehouse roof. It also knocked the bricks from the facade of another building. In Windsor Township, the light standard of a vehicle dealership fell on and damaged four vehicles. In Marion Township, the wind knocked over a portable heater in a barn which ignited the straw. The barn was destroyed. In Delaware County, in Marple Township, a seven year old boy narrowly escaped serious injury when an uprooted 125 foot oak tree fell into his bedroom. In Ridley Township, the roof of Our Lady Queen of Peace Elementary School was pushed upward to form a peak. Debris was scattered on the playground. In Upper Providence Township, the Media bypass was closed by a downed tree. In Bucks County, a woman was trapped in her vehicle in Bensalem Township by downed wires. A couple of roads were closed in Bucks and Montgomery Counties by downed trees. PECO Energy reported about 45,000 homes and businesses lost power in the local Philadelphia area.

Specific wind gusts included 61 mph in Tobyhanna (Monroe County) and Downingtown (Chester County), 55 mph in Mount Pocono (Monroe County), 53 mph at the Philadelphia International Airport, 51 mph in Reading (Berks County), 49 mph at the Lehigh Valley International Airport, 46 mph in West Chester (Chester County) and 45 mph in Pottstown (Montgomery County).

The intense low pressure system that was responsible for the winds moved from the Delaware Valley during the early afternoon on the 14th, to the New Jersey coast at 7 p.m. EST on the 14th, onto Long Island at 10 p.m. EST on the 14th, in the New England coastal waters east of Massachusetts at 7 a.m. EST on the 15th and into Nova Scotia by early in the afternoon on the 15th. As the low pressure system exited Nova Scotia and the high pressure system built east into the Ohio Valley, winds started diminishing during the late afternoon on the 15th.

PAZ069 — **Bucks**

14	**2100EST**	**0**	**0**			**Winter Weather**
15	**0400EST**					

A very intense low pressure system produced bands of heavier snow across Bucks County. These bands had a greater affect in New Jersey. Accumulations ranged from less than one inch in the northern part of the county to nearly 5 inches along the Delaware River. Rain began falling during the afternoon of the 14th. As the low pressure system intensified and moved offshore, the precipitation changed to snow during the middle of the evening. It fell at its heaviest around 1 a.m. EST on the 15th and ended by 5 a.m. EST on the 15th. Because the heavy snow occurred late on a Saturday night (the 14th into the 15th) and was over by Sunday morning the 15th, very few accidents were reported. Specific accumulations included 4.8 inches in Fairless Hills, 4.0 inches in Neshaminy Falls and Levittown, 3.3 inches in Furlong and 0.2 inches in Springtown. A cold front moved through the Delaware Valley during the late afternoon on the 14th. An intense low pressure system formed on the front and moved slowly east of the New Jersey coast the night of the 14th. This permitted the rain to change to snow across Bucks County.

PAZ054>055 — **Carbon - Monroe**

17	**1200EST**	**0**	**0**			**Winter Weather**
18	**0000EST**					

A mixture of sleet and light freezing rain fell across the Poconos during the second half of the day on the 17th. A strong southeasterly flow changed the freezing rain to rain by Midnight EST on the 18th. Ice accretions were generally less than one tenth of an inch and caused slippery travel on untreated roadways. The wintry mix of precipitation occurred in advance of a strong warm front that was moving north from the Tennessee Valley on the morning of the 17th. The increasing intense southeast winds scoured the cold air near the surface and changed the freezing rain to plain rain overnight on the 17th.

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

PENNSYLVANIA, East

PAZ054>055-060>062-067>071 **Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia**

	18	**0600EST**		**0**	**0**	**40K**		**Strong Wind**
		1700EST						

PAZ068>069-071 **Montgomery - Bucks - Philadelphia**

	18	**0600EST**		**0**	**1**	**200K**		**High Wind (G56)**
		0800EST						

Strong to high southeast winds during the early morning and strong west winds during the late morning and afternoon buffeted Eastern Pennsylvania. Peak wind gusts averaged near 60 mph during the early morning in the local Philadelphia area and around 50 mph elsewhere during the early morning and in all places during the westerly flow in the late morning and afternoon. The morning winds downed trees and power lines and caused traveling delays during the morning rush due to closed roads. Garbage and recycling pails were strewn. Like the strong to high winds on the 14th and 15th the wet ground and in this case a different wind direction (southeast) during the early morning made it easier for trees to be uprooted. About 120,000 homes and businesses lost power in Eastern Pennsylvania with the greatest concentration (95,000) in the PECO Energy service area in and around Philadelphia. The downed trees caused major delays and disruptions on the commuter rail lines in Suburban Philadelphia. The SEPTA R-5 line between Thorndale (Delaware County) and Doylestown (Bucks County), the R-2 line in Willow Grove (Montgomery County) and the R-3 West Trenton Line (in Bucks County) all had fallen tree problems.

In Bucks County, in Perkasie one person was injured by a downed tree. Two trees fell onto a home. U.S. Route 202 was closed near Solebury. Schools in Bensalem and Warminster Townships were closed due to power failures. In Montgomery County, the roof was lifted from a home in Norristown. The siding was also stripped from the home. Two adults and three children were displaced. The Marlborough Township School district cancelled classes. Half of the PECO Energy outages occurred in Montgomery County. In the Lehigh Valley, about 18,250 homes and businesses lost power. Downed trees caused road closures in Upper Saucon Township (Lehigh County) and in Lower Nazareth and Lower Mount Bethel Townships. Measured wind gusts included 53 mph in Mount Pocono (Monroe County) and the Lehigh Valley International Airport, 49 mph at the Philadelphia International Airport and 39 mph in Reading (Berks County).

The strong and high winds were caused by an increasing southeasterly low level jet preceding a cold front during the early morning of the 18th. This feature intensified further east and caused the most damage once it reached New Jersey. The cold front moved through Eastern Pennsylvania between 7 a.m. EST and 10 a.m. EST on the 18th and strong west winds occurred behind the front from late in the morning through most of the afternoon before they diminished at night.

Monroe County

Countywide	**18**	**0600EST**		**0**	**0**			**Flood**
		0900EST						

The combination of rain through the morning and afternoon of the 18th and melting snow produced flooding along some of the smaller streams in Monroe County during the morning of the 18th. Storm totals averaged between two and three inches and with the additional water from the melting snow caused poor drainage and stream flooding. A few roads were closed that morning because of flooding. Storm totals included 2.49 inches in Tannersville and 2.45 inches in Mount Pocono. The heavy rain was caused by the same deep southeast flow that brought the strong winds to Monroe County. The heaviest rain fell along and just prior to the cold frontal passage during the morning of the 18th.

PAZ060 **Berks**

	22	**2300EST**		**0**	**0**			**Winter Weather**
	23	**0600EST**						

PAZ054>055-061>062 **Carbon - Monroe - Lehigh - Northampton**

	23	**0500EST**		**0**	**0**			**Winter Storm**
		1000EST						

A winter storm that produced a mixture of snow, sleet and freezing rain affected the Poconos and the higher terrain of the Lehigh Valley from the late evening on the 22nd into the morning of the 23rd. Accumulations averaged 1 to 3 inches and ice accretions averaged around one-quarter of an inch. A wintry mix of snow, sleet and freezing rain also occurred in Berks County, but amounts were less and had less of an impact. Precipitation started as snow between 10 p.m. EST on the 22nd and Midnight EST on the 23rd. In the Lehigh Valley and Berks County precipitation changed to freezing rain around 1 a.m. EST on the 23rd and the change to freezing rain occurred as late as 5 a.m. EST on the Pocono Plateau. The change to plain rain occurred in Berks County and the Lehigh Valley by 7 a.m. EST, but took until the late morning to occur on the Pocono Plateau. The rain ended during the afternoon. Most schools in the Poconos were closed. Most schools in the Lehigh Valley had delayed openings. Untreated roads were slippery. Most of the reported weather related accidents occurred in the Poconos. The most serious was a vehicle that struck a tree in Towamensing Township (Carbon County) and entrapped the occupants.

Specific accumulations included 3.0 inches in Pocono Summit (Monroe County), 2.4 inches in Lehighton (Carbon County), 1.6 inches in Tannersville (Monroe County), 1.4 inches in Williams Township (Northampton County), 0.8 inches at the Lehigh Valley International Airport and 0.5 inches in Pricetown (Berks County). Ice accretions generally averaged around one-quarter of an inch in the higher terrain locations throughout the Poconos and Lehigh Valley.

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

PENNSYLVANIA, East

The winter storm was caused by a fast moving low pressure system that developed over the Gulf of Mexico. The high pressure system was over the region on the 22nd and moved east into the New England coastal waters by the morning of the 23rd. This is normally not a favorable position for freezing rain. In this instance precipitation moved into the region so quickly and overnight, that the cold air near the surface could not get scoured. The low pressure system itself moved from near Houston, Texas at 7 p.m. EST on the 22nd northeast to northern Alabama at 1 a.m. EST on the 23rd and then into eastern Kentucky at 7 a.m. EST on the 23rd. A secondary low pressure system formed on its warm front over Delaware and during the course of the morning became the main low pressure system. By 1 p.m. EST it was approaching Cape Cod, Massachusetts and was well east of the Cape by 7 p.m. EST that evening.

PAZ054>055 — **Carbon - Monroe**

24	**2100EST**	**0**	**0**				**Winter Weather**
	2300EST						

Thunderstorms with snow dropped one to two inches of snow across the southern Poconos during the evening of the 24th. In Pocono Summit (Pocono Summit), 1.8 inches of snow accumulated in about an hour. In Tobyhanna (Monroe County), 1.5 inches of snow accumulated in 30 minutes. The heavy burst of snow caused a rapid deterioration of roadways. Interstate 80 was shut down because of the snow burst. Thundersnows also occurred in Berks County and the Lehigh Valley, but accumulations were less. Only a trace of snow accumulated at the Lehigh Valley International Airport

Philadelphia County

Philadelphia	**24**	**2238EST**	**0**	**0**		**0**	**Hail (1.00)**
		2243EST					

A severe thunderstorm with large hail moved across southern Philadelphia. The thunderstorm dropped quarter size hail from the International Airport northeast to the Walt Whitman Bridge. Some snow also mixed in with the rain and hail during the thunderstorm. Temperatures dropped below freezing under clear skies overnight and caused slippery traveling conditions the next morning.

PAZ070>071 — **Delaware - Philadelphia**

31	**1300EST**	**0**	**0**			**0**	**Coastal Flood**
	1600EST						

The combination of spring tides coming off the recent new moon and a rapidly intensifying low pressure system that passed east of Delaware on the 31st produced a strong up the bay flow and widespread minor tidal flooding during the daytime high tide along the Delaware River and tidal sections of its tributaries during the afternoon. The high tide reached 8.32 feet above mean lower low water in Philadelphia. Minor tidal flooding begins at 8.2 feet above mean lower low water. The low pressure system that caused the minor tidal flooding formed along the Virginia coast during the early morning on the 31st. By 7 a.m. EST on the 31st it had deepened to a 995 millibar low pressure system. it then moved slowly northeast as it intensified. At 1 p.m. EST that afternoon it had deepened to 990 millibars and was located about 200 miles east of the Delaware coast and at 7 p.m. EST that evening, it had deepened to 976 millibars, but was already about 200 miles east of Cape Cod, Massachusetts. This made it only a one high tide cycle event.

PENNSYLVANIA, Northeast

PAZ038>040-043>044-047>048-072 — **Bradford - Susquehanna - Northern Wayne - Wyoming - Lackawanna - Luzerne - Pike - Southern Wayne**

01	**0000EST**	**0**	**0**				**Heat**
31	**2359EST**						

Central New York and Northeast Pennsylvania experienced one of the warmest Januarys on record since reliable records have been kept. January, 2006 was the warmest January on record in Syracuse, New York. The average monthly temperature recorded at Hancock Field was 33.4 degrees, breaking the old record of 33.2 degrees set in 1990. There was also a lack of snow for the month, with only 12.1 inches recorded. This was the third lowest on record. Meanwhile, January was the second warmest on record in Binghamton, NY. The average temperature of 30.8 degrees fell short of the 31.5 degree record set in 1990. Wilkes-Barre Scranton International Airport recorded the second warmest January on record with an average temperature of 34.9 degrees. The warmest January on record remains 35.2 degrees in 1990.

PAZ040-072 — **Northern Wayne - Southern Wayne**

03	**1000EST**	**0**	**0**				**Winter Storm**
	1300EST						

A low pressure system tracked into the Ohio Valley Monday night on the 2nd and weakened while a secondary low formed off the Mid-Atlantic Coast Tuesday the 3rd while tracking out to sea. The storm system brought a mix of snow, sleet and freezing rain to upstate New York and northeast Pennsylvania Monday night and Tuesday morning. The snow and mixed precipitation tapered off by Tuesday afternoon. While snow accumulations were generally less than 6 inches across the area, some locations received higher amounts. In Sullivan County, snowfall amounts ranged from 10 to 14 inches with Bloomingburg measuring 13.5 inches, while Liberty had 11.5 inches. In Otsego County, Laurens received 8.0 inches with the rest of the county seeing less than 4 inches. Pleasant Mount in Wayne County, Pennsylvania measured 7.0 inches of new snow.

Bradford County

Burlington	**18**	**0645EST**	**0**	**0**	**10K**		**Flash Flood**
		1200EST					

Heavy rainfall spread into northern Pennsylvania as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. The heaviest rain occurred in northern Pennsylvania Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranging from 1 to 2 inches fell across most of northeast Pennsylvania. The rainfall brought Sugar Creek

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

PENNSYLVANIA, Northeast

in Burlington Township out of its banks and flooded Route 6. The Towanda Creek also flooded Route 414 in LeRoy Township.

Bradford County

Monroeton **18** **0928EST** **1319EST** **0** **0** **Flood**

Minor flooding occurred at Monroeton on the Towanda Creek from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th, to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of Pennsylvania Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches across most of northeast Pennsylvania. The rainfall brought the Monroeton gauge on the Towanda Creek above the flood stage of 14 feet at 928 am on the 18th. The Towanda Creek at Monroeton crested at 14.31 feet at 1130 am before falling below the flood stage at 119 pm on the 18th.

Susquehanna County

Great Bend **18** **1000EST** **1300EST** **0** **0** **50K** **Flash Flood**

Heavy rainfall spread into northern Pennsylvania as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. The heaviest rain occurred in northern Pennsylvania Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranging from 1 to 2 inches fell across most of northeast Pennsylvania. The rainfall brought Salt Lick Creek in Great Bend out of its banks, flooding a couple of trailer homes. The trailer park had to be evacuated due to the high waters.

Wyoming County

Forkston **18** **1000EST** **1300EST** **0** **0** **25K** **Flash Flood**

Heavy rainfall spread into northern Pennsylvania as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. The heaviest rain occurred in northern Pennsylvania Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranging from 1 to 2 inches fell in most of northeast Pennsylvania. The rainfall brought Mehoopany Creek in Forkston out of its banks, flooding State Route 3001.

Wyoming County

Tunkhannock **18** **1723EST** **2051EST** **0** **0** **Flood**

Minor flooding occurred at Tunkhannock on the Tunkhannock Creek from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of Pennsylvania Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of northeast Pennsylvania. The rainfall brought the Tunkhannock gauge on the Tunkhannock Creek above the flood stage of 11 feet at 523 pm on the 18th. The Tunkhannock Creek at Tunkhannock crested at 11.31 feet at 715 pm before falling below the flood stage at 851pm on the 18th.

Bradford County

Sayre **18** **1824EST** **20** **1245EST** **0** **0** **10K** **Flood**

Minor flooding occurred at the Waverly/Sayre gauge on the Susquehanna River from heavy rainfall as an intense area of low pressure tracked from southern Indiana Tuesday morning on the 17th to northeast of Lake Huron on the morning of the 18th and through eastern Canada Wednesday afternoon and evening. Rain spread into the upper Susquehanna River Basin of New York and Pennsylvania Tuesday night and Wednesday morning on the 18th. The rain tapered off by Wednesday afternoon. Rainfall amounts ranged from about 1 to 2 inches in most of south central New York and northeast Pennsylvania. The rainfall brought the Waverly/Sayre gauge on the Susquehanna River above the flood stage of 11 feet at 624 pm on the 18th. The Susquehanna River at Waverly/Sayre crested at 13.12 feet at 545 am on the 19th before falling below the flood stage at 1245 pm on the 20th.

PENNSYLVANIA, Northwest

PAZ002>003 **Southern Erie - Crawford**

24 **2100EST** **25** **1900EST** **0** **0** **300K** **Heavy Snow**

An Alberta Clipper passed to the north of Lake Erie on January 24th. A cold front trailing this low swept east across the region. Westerly flow behind this front caused lake effect snow showers to develop during the late evening hours of the 24th. This activity spread into southern Erie and northern Crawford counties early on the 25th as winds became northwesterly. The heaviest snow fell during the morning hours of the 25th with snowfall rates in excess of an inch per hour. Winds gusting to as high as 30 mph accompanied the snow and caused considerable blowing and drifting. Snowfall totals for the event ranged from 6 to 12 inches over the southern half of Erie County and northern half of Crawford County. A peak of 15.2 inches was measured at Corry (Erie County) with 11.0 inches at Meadville (Crawford County).

PENNSYLVANIA, West

NONE REPORTED.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
PUERTO RICO									
San Juan And Vicinity									
Trujillo Alto	**15**	**1643AST** **1943AST**			**0**	**0**			**Flash Flood**
	Heavy showers associated to a strong cold front produced rainfall accumulations of two to six inches. These showers flooded parts of Encantada Community and a road at Barrio Matienzo.								
Eastern Interior									
Caguas	**15**	**1701AST** **2103AST**			**0**	**0**			**Flash Flood**
	Barrio Canas was reported flooded.								
Northeast									
Naguabo	**15**	**1701AST** **2103AST**			**0**	**0**			**Flash Flood**
	Road 31 at exit 22 near River Rio Blanco and Highway 53 flooded.								
San Juan And Vicinity									
San Juan	**15**	**1701AST** **2101AST**			**0**	**0**	**30K**		**Flash Flood**
	Ten apartments were reported flooded at the Monte Hatillo Housing Complex								
PRZ008	**Northwest**								
	16	**0400AST**			**0**	**0**	**35K**		**Coastal Flood**
	19	**0000AST**							
	Coastal areas of the Aguadilla municipality were flooded by 12 to 15 feet swells that flooded roads and forced several schools to close. Several fishermen boats were damaged as well as boat ramps and platforms at Barrio Higuey. Forty-five feet of the boardwalk were damaged by the heavy seas and debris was accumulated along Yumet Avenue.								
PRZ010	**Mayaguez And Vicinity**								
	17	**0400AST** **1500AST**			**0**	**0**			**Coastal Flood**
	Coastal flooding was reported along low lying areas of Highway 102 in Mayaguez. High swells pushed debris into the road in an area were the water breaker wall was damaged.								
PRZ001-005-008	**San Juan And Vicinity - North Central - Northwest**								
	17	**1000AST** **1500AST**			**0**	**0**			**Heavy Surf/High Surf**
	Breaking waves and resultant high surf caused flooding of the Loiza Headstart in the Colobo sector...road 187 in Vacia Talega sector and streets of the Parcelas Suarez sector. Strong low pressure system over the Atlantic generated moderate to large long period northwest swells that combined with breezy east to northeast winds which affected the coastal waters of Puerto Rico.								
RHODE ISLAND									
RIZ004-006>007	**Eastern Kent - Washington - Newport**								
	15	**0908EST** **1446EST**			**0**	**0**	**15K**		**Strong Wind**
	An intensifying area of low pressure passing south of New England and into the Gulf of Maine produced a wintry mix of precipitation and gusty northeast winds across Rhode Island during the morning and afternoon of 15 January 2006. Generally, less than 2 inches of snow fell across the state. Strong gusty northeast winds were strongest across the south coast. A sustained wind speed of 31 mph was reported at T.F. Green airport in Warwick at 2:46 PM and at the Newport airport at 12:53 PM. The Westerly airport experienced a sustained wind speed of 33 mph at 9:12 AM. No known injuries directly related from this winter storm.								
RIZ001-001-003>004	**Northwest Providence - Western Kent - Eastern Kent**								
	18	**1030EST** **1500EST**			**0**	**0**	**110K**		**High Wind (G58)**
	An intensifying low pressure system moved across the Great Lakes and into Quebec, producing strong damaging winds across Rhode Island on 18 January 2006. Sustained winds of 33 MPH at 1:14 PM and 36 MPH at 1:04 PM were measured at the Newport and Manchester airports, respectively. In addition, winds gusted to as high as 59 MPH at 11:45 AM in North Foster. Wind gusts downed a tree on a house on Cathedral Street in Cumberland. Two large trees and limbs were blown down in Coventry. In Warwick, winds knocked a utility pole and a transformer down. No known injuries directly resulted from this storm.								
RIZ001	**Northwest Providence**								
	21	**1745EST** **1845EST**			**0**	**2**	**50K**		**High Wind (G58)**
	An intensifying low pressure system moved east across Quebec, swinging a cold front across southern New England during the mid								

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

RHODE ISLAND

to late afternoon of 21 January 2006. This cold frontal passage produced strong gusty winds that knocked down trees, limbs, and wires across Rhode Island. Trees and wires were reported blown down in Glocester. In Cumberland, a drive through roof was blown down onto a car. In Foster, a tree was blown down onto a car, causing two minor injuries to the people inside.

SOUTH CAROLINA, Central

Aiken County

North Augusta 02 2020EST 0 0 0 **Thunderstorm Wind (G50)**

Police reported several trees down.

Aiken County

Windsor 02 2045EST 0 0 0 **Thunderstorm Wind (G50)**

Emergency Manager reported that a metal gazebo was blown onto the roof of a home.

Lexington County

4.5 NW Irmo to 13 1718EST 0.1 40 0 0 0 0 **Tornado (F0)**
4.4 NW Irmo 1719EST

A waterspout came onshore near Old Forge Point and took down a few trees before dissipating.

Richland County

1.7 SW Ballentine to 13 1719EST 0.1 40 0 0 0 0 **Tornado (F0)**
1.6 SW Ballentine 1720EST

A waterspout came onshore near Old Forge Point briefly taking down some trees, then moved across the bay to Marina Road Point and took down a few more trees before dissipating.

Bamberg County

Bamberg 13 2000EST 0.1 40 0 0 0 0 **Tornado (F0)**
2001EST

Sheriff reported a small tornado touched down on Jay Street and took down a grove of trees.

Orangeburg County

2 SSW Cordova 13 2025EST 0.3 50 0 0 0 **Tornado (F0)**
2026EST

An F0 touched down along Calvery Rd. taking out some trees and doing minor damage to an outbuilding.

Orangeburg County

5 NW Bowman 13 2102EST 0.3 50 0 0 5K 0 **Tornado (F0)**
2103EST

An F0 touched down along SC4108 and took out some trees. Neighbors said it hit around 9pm. The roof of a mobile home was peeled back with minor damage to the sides as well.

Clarendon County

4.5 WNW Manning to 13 2135EST 6 440 0 18 500K 0 **Tornado (F1)**
1 N Alcolu 2143EST

A strong F1 tornado touched down just west of Manning and continued NNE to Alcolu. Six mobile homes were completely destroyed, 9 had moderate damage, 16 had minor damage, 2 framed homes had minor damage and many trees and powerlines were down. There were 18 injuries, 9 of which were sent to the hospital,4 of which were kept for a few days and released.

SOUTH CAROLINA, North Coastal

NONE REPORTED.

SOUTH CAROLINA, Northwest

Spartanburg County

4 S Pauline 02 2031EST 0 0 **Hail (0.75)**

Union County

Jonesville 02 2045EST 0 0 **Hail (0.75)**

SCZ007 **Spartanburg**

14 0800EST 0 0 5K **High Wind (G60)**
15 0200EST

Strong winds developed behind a cold front across the north part of the upstate during the late morning and continued through the remainder of the day. There was widespread damage to trees and power lines, with quite a few power outages. A building near the intersection of highways 14 and 176 in Landrum sustained some damage to the siding.

SCZ001>003 **Oconee Mountains - Pickens Mountains - Greenville Mountains**

14 1900EST 0 0 **High Wind (G55)**
15 0000EST

Although winds gusted strongly throughout the daylight hours on the 13th, damaging winds did not develop until after sunset across the South Carolina mountains. Numerous trees and power lines were blown down in areas along and north of highway 11, and there were quite a few power outages.

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

SOUTH CAROLINA, Northwest

Laurens County

11 SSE Laurens | **17** | **1940EST** | **0.1** | **20** | **0** | **0** | **1K** | | **Tornado (F0)**

This very small, weak tornado touched down at the Mountville post office, tearing the aluminum roof off of a loading dock and scattering the debris about 100 feet.

SOUTH CAROLINA, South Coastal

Jasper County

Levy | **02** | **1350EST** | | | **0** | **0** | **3K** | | **Thunderstorm Wind (G50)**
1355EST

Thunderstorm winds knocked down trees.

Beaufort County

2 NE Beaufort to | **02** | **1405EST** | | | **0** | **0** | | | **Hail (0.88)**
5 SW Beaufort | | **1410EST**

Hail up to the size of nickels was widespread across the Beaufort area.

Colleton County

Edisto Beach | **02** | **1422EST** | | | **0** | **0** | | | **Hail (0.75)**
1425EST

Charleston County

2 SE Rockville | **02** | **1433EST** | | | **0** | **0** | | | **Hail (0.88)**
1435EST

Nickel size hail occurred in the River Road area of Seabrook Island

Jasper County

1 W Switzerland to | **02** | **1740EST** | | | **0** | **2** | **5K** | | **Thunderstorm Wind (G50)**
Ridgeland | | **1745EST**

Thunderstorm winds knocked down several trees just west of Switzerland. Also, a large limb broke off a tree and landed on a car in Ridgeland. Two occupants in the car received minor cuts and bruises.

Charleston County

Charleston to | **30** | **2258EST** | | | **0** | **0** | **3K** | | **Thunderstorm Wind (G50)**
Sullivans Is | | **2310EST**

Thunderstorm winds knocked down trees on Chadwick Drive and Windermere Blvd. in the West Ashley section of Charleston. Two trees were also blown down on Sullivan's Island.

SOUTH DAKOTA, Central and North

NONE REPORTED.

SOUTH DAKOTA, Southeast

SDZ055>056-059>062-065>070 | **Lake - Moody - Davison - Hanson - Mccook - Minnehaha - Hutchinson - Turner - Lincoln - Bon Homme - Yankton - Clay**

01 | **1700CST** | | | **0** | **0** | | | **Winter Weather**
2300CST

Light freezing rain caused icy travel conditions.

SOUTH DAKOTA, West

SDZ001>002-012>014-032 | **Harding - Perkins - Butte - Northern Meade Co Plains - Ziebach - Haakon**

01 | **1000MST** | | | **0** | **0** | **100K** | **0** | **Ice Storm**
2100MST

A strong upper level system moved across the Central Plains, bringing widespread precipitation to western South Dakota. Rain fell across southwest South Dakota, while a mix of precipitation developed across northwest South Dakota. Freezing rain fell during much of the afternoon and early evening across northwest South Dakota before precipitation changed to snow and ended overnight. The heaviest amounts of freezing rain were reported across portions of Perkins, northern Meade, and Ziebach Counties, where a quarter to one-half inch of ice accumulated. Grand Electric Cooperative reported the most damage along and north of U.S. Highway 212 in northern Meade and southern Perkins Counties, where 68 telephone poles were downed by the ice and 800 customers lost power, some for several days. Damage was estimated at approximately 100,000 dollars

TENNESSEE, Central

Grundy County

2.9 NNE Palmer | **02** | **1140CST** | | | **0** | **0** | **2K** | | **Thunderstorm Wind (G55)**

Trailer rolled over. Tin roof was taken off a barn. Barn was on a farm off Highway 399 on Brown Cemetery Road on the property of Mr. Lonnie Stockwell.

Fentress County

6 SW Allardt | **02** | **1615CST** | | | **0** | **0** | | | **Hail (0.75)**

Trained spotter observed penny size hail.

Storm Data and Unusual Weather Phenomena

January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
TENNESSEE, Central									
Benton County									
12 S Camden	**22**	**1915CST**			**0**	**0**	**1K**		**Flash Flood**
		2015CST							
One and a half feet of water was over Hately Rd. Road was impassable. By 0740 PM CST, several roads were flooded in the southern part of the county. One lady had to be rescued from her vehicle.									
Davidson County									
Goodlettsville	**22**	**2130CST**			**0**	**0**	**1K**		**Flash Flood**
		2200CST							
Low water bridge at Hix Road was covered with water.									
Lawrence County									
South Portion	**22**	**2130CST**			**0**	**0**	**1K**		**Flash Flood**
	23	**0300CST**							
Streams and creeks came out of their banks about 3 miles southeast of Lawrenceburg. There was flooding of low water crossings around the southern part of the county.									
Sumner County									
Countywide	**22**	**2130CST**			**0**	**0**	**1K**		**Flash Flood**
	23	**2200CST**							
There was flooding of roadways around the county including State Route 174.									
Giles County									
Countywide	**22**	**2145CST**			**0**	**0**	**1K**		**Flash Flood**
	23	**0300CST**							
Several roads were impassable due to high water throughout the county. As many as 40 roads were closed due to high water. As many as 100 "Road Closed" signs were put out overnight.									
Macon County									
Countywide	**22**	**2200CST**			**0**	**0**	**1K**		**Flash Flood**
	23	**0100CST**							
Several roads were flooded in Macon County. Debris blocked a tile causing water to flow over Epperson Springs Road and washing it out. Other roads closed were King Hill Road, Phillips Hollow Road, and part of Bradley Hollow Rd. Macon County schools were delayed for an hour on Monday, January 23, while bus drivers waited for waters to recede. Long Creek was reported to have been the worst creek to flood the banks causing problems in the Shiloh area. A family had to be rescued from rising water on Bradley Hollow Road at about 11 PM CST Sunday. The family was able to drive to a nearby sewer plant, even though their driveway was blocked by high water.								
Jackson County									
East Portion	**22**	**2300CST**			**0**	**0**	**1K**		**Flash Flood**
	23	**0200CST**							
High water was along Blackburn Fork Road. Jackson County schools were closed Monday, January 23 due to the wet weather.									
Bedford County									
Shelbyville	**23**	**0115CST**			**0**	**0**	**2K**		**Flash Flood**
		0500CST							
Water flooded several homes in the area. Low water crossings were under water									
Rutherford County									
South Portion	**23**	**0130CST**			**0**	**0**	**1K**		**Flash Flood**
		0500CST							
Newspaper story about several roads closed in southern Rutherford County due to high water. This included Armstorng Valley Road off New Salem Highway. Goochie Ford Road and Elam Mill Road had their slab bridges closed. High water signs were posted on New Salem Highway at Mount Vernon Road and on Shoemaker Road near Eagleville									
TENNESSEE, East									
Anderson County									
Andersonville	**02**	**1800EST**			**0**	**0**	**3K**		**Thunderstorm Wind (G60)**
One tree was reported down on Sequoyah Lane.									
Anderson County									
Marlow	**02**	**1805EST**			**0**	**0**	**3K**		**Thunderstorm Wind (G60)**
One tree was downed on a railroad track in the Marlow vicinity.									
Roane County									
Oak Ridge	**02**	**1807EST**			**0**	**0**	**7K**		**Thunderstorm Wind (G45)**
One tree fell on power lines and brought them down in the Oak Ridge portion of Northeast Roane county.									
Knox County									
3 W Maloneyville	**02**	**1830EST**			**0**	**0**	**12K**		**Thunderstorm Wind (G60)**
Several trees were reported down three miles west of Maloneyville.									

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
TENNESSEE, East									
Union County									
Maynardville	**02**	**1845EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G60)**
A few trees were reported down across the south half of the county.									
Grainger County									
Blaine	**02**	**1850EST**			**0**	**0**	**15K**		**Thunderstorm Wind (G60)**
Several trees and some power lines were reported down in Blaine.									
Claiborne County									
2 SE Harrogate	**02**	**1900EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G60)**
A few trees were reported down on power lines.									
Blount County									
Maryville	**02**	**1930EST**			**0**	**0**	**12K**		**Thunderstorm Wind (G60)**
Several trees as well as power lines were reported down in Maryville.									
TNZ018-041-043-045-047-047-072-074-087	**Johnson - Cocke/Smoky Mountains - Southeast Greene - Unicoi - Southeast Carter - Blount/Smoky Mountains - Sevier/Smoky Mountains - Southeast Monroe**								
	14	**0500EST 1400EST**			**0**	**0**			**Winter Storm**
A storm system produced four to five inches of snow across the higher terrain in far East Tennessee near the North Carolina border.									
TENNESSEE, South Central									
Franklin County									
Sewanee	**23**	**0100CST**			**0**	**0**	**10K**		**Lightning**
Lightning struck a satellite dish which travelled along wiring into electronic equipment in a house which sparked a fire producing considerable damage to the interior of the home.									
TENNESSEE, West									
Haywood County									
Brownsville	**13**	**0043CST**			**0**	**1**	**0**		**Lightning**
One man was injured by lightning while standing on his porch.									
TEXAS, Central									
TXZ064-071	**Sterling - Irion**								
	01	**1113CST**			**0**	**1**			**Wildfire**
	02	**2300CST**							
The Cole Fire started in southern Sterling County along highway 163 and spread quickly to the east for 15 to 20 miles in winds gusting upwards of 50 mph and humidities of 5 to 10 percent. This fire spread into Tom Green and extreme southwest Coke County. The fire did threaten the community of Water Valley, however was contained. The fire consumed around 40 thousand acres									
TXZ078	**Sutton**								
	18	**1530CST**			**0**	**0**			**Wildfire**
		1730CST							
The Old Cemetary fire just to the north of Sonora burned around 1 thousand acres.									
TXZ072	**Tom Green**								
	19	**1400CST**			**0**	**0**	**60K**		**Wildfire**
		2000CST							
A 325 acre fire occured on a ranch just to the east of Grape Creek. The fire destroyed 60 thousand dollars worth of water testing equipment.									
TEXAS, Central Southeast									
TXZ213	**Harris**								
	17	**1430CST**			**1**	**1**	**40K**		**Strong Wind**
Wind collapsed the side of an oil storage tank in Deer Park. As a result, a scaffolding within the interior of this tank holding two men toppled killing one of these men. M?BU									
Matagorda County									
3 SW Markham	**21**	**1705CST**			**0**	**0**	**5K**		**Hail (1.75)**
Golf ball size hail between Bay City and Blessing									
Trinity County									
10 NE Groveton	**21**	**2235CST**			**0**	**0**	**2K**		**Hail (0.88)**
Nickel size hail.									
TEXAS, Extreme West									
NONE REPORTED.									

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

TEXAS, Mid - South

TXZ229>234-239>247 **La Salle - Mcmullen - Live Oak - Bee - Goliad - Victoria - Webb - Duval - Jim Wells - Kleberg - Nueces - San Patricio - Aransas - Refugio - Calhoun**

01 0000CST 0 0 Drought
31 2359CST

Drought conditions intensified across all of South Texas during January 2006. Extreme drought conditions (per the U.S. Drought Monitor) developed across the Rio Grande Plains and Western Coastal Bend, while severe drought conditions developed across the remainder of the Coastal Bend and moderate drought conditions over the Victoria area

January 2006 was the 14th driest on record (out of 119 years) at the Corpus Christi International Airport, with only 0.26 inches of rainfall, which was only 16% of normal. Victoria received only 0.61 inches of rainfall, which was only 30% of normal. Doppler radar estimated many areas across the Rio Grande Plains receiving less than 10% of normal rainfall for January.

The lack of any significant rainfall resulted in exceptionally dry soils across all of South Texas. The fire danger also intensified due to the extremely dry fuels, resulting in sporadic, small wildfires breaking out across portions of South Texas during January. Reservoir levels at Choke Canyon and Lake Corpus Christi also continued to fall slowly through the month.

The drought conditions and wildfires throughout the state forced the Governor of Texas to declare Drought Disaster for all 254 counties in Texas on January 19th.

TEXAS, North

TXZ091>095-100>107-115>123-129>135-141>148-156>162-174>175 **Montague - Cooke - Grayson - Fannin - Lamar - Young - Jack - Wise - Denton - Collin - Hunt - Delta - Hopkins - Stephens - Palo Pinto - Parker - Tarrant - Dallas - Rockwall - Kaufman - Van Zandt - Rains - Eastland - Erath - Hood - Somervell - Johnson - Ellis - Henderson - Comanche - Mills - Hamilton - Bosque - Hill - Navarro - Freestone - Anderson - Lampasas - Coryell - Bell - Mclennan - Falls - Limestone - Leon - Milam - Robertson**

01 0000CST 0 0 1B Drought
31 2359CST

Drought conditions continued across north Texas as precipitation deficits increased. This month, all of north Texas was classified in either extreme drought (D3) or exceptional drought (D4) as classified by the U.S. Drought Monitor. Every county in north Texas was eligible for federal disaster relief due to the drought. The weather continued to be unseasonable warm. The average high temperature this January was 68.3 degrees, a full 14.2 degrees above normal. This figure broke an 83-year-old record.

Wildfires continued to be a major problem in January, with a burn ban in place in every county. A quarter of a million acres burned across Texas in the first half of the month, more than during all of 2005. The ongoing drought combined with strong winds and low humidities to create a volatile fire situation in Texas. On New Year's Day, several devastating wildfires erupted across north Texas. Forty homes were destroyed in Montague County as a 17-mile long fire burned between Ringgold and Nocona. Another grass fire in Johnson County burned 13 buildings and charred 1,800 acres. In Eastland County, a fire encompassing more than 35,000 acres forced the evacuations of several communities and destroyed the city of Kokomo. Thirty-six buildings were lost in the fire. Several firefighters and civilians suffered burns, smoke inhalation, and heat exhaustion due to the fires.

Hydrological and agricultural impacts worsened over the past month due to the lack of rainfall. Most water reservoirs across north Texas were 60% to 85% of normal capacity. Several lakes across the region were 10 to 15 feet below normal pool elevation. The North Texas Municipal Water District implemented watering restrictions earlier than normal this year due to the lowering lake levels. Watering restrictions were also in effect on a voluntary basis in some cities.

The Texas Cooperative Extension estimated agricultural losses for north Texas to be close to $1 billion in January. Only half of the state's hay crop was fit for harvesting, and hay prices were three to four times their normal price. Many other crops failed to grow at all. Agricultural groups appealed for federal grants to aid the cattle industry. One emergency measure considered by the federal government included providing cash to ranchers to offset high feed costs and losses due to the drought and wildfires. A drought summit was held in San Antonio to discuss the crisis.

The drought was also affecting wildlife in north Texas. The Texas Department of Parks and Wildlife reported an overall decline in habitat conditions, and noted that the lack of green plants would affect the survival rate of certain animals

TXZ091-116-129 **Montague - Palo Pinto - Eastland**

01 1500CST 0 6 10.8M Wildfire
02 1200CST

Several devastating wild fires erupted across north Texas due to low humidities, strong winds, and the ongoing drought. In Montague County, a 17-mile long fire burned between Ringgold and Nocona, destroying forty homes. Two firefighters and two civilians were injured. A grass fire which began in Johnson County near the Mineral Wells Airport burned 13 structures, including 5 homes. The fire grew to cover 1,800 acres. One firefighter suffered second-degree burns and another smoke inhalation. A grass fire burned more than 35,000 acres in the southeastern part of Eastland county and forced evacuations of the nearby towns of Carbon, Gorman, and Desdemona. The community of Kokomo essentially burned to the ground. Thirty-six buildings, including homes, were destroyed. Numerous livestock were lost in the fire. The fire was 35 miles long.

Storm Data and Unusual Weather Phenomena

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

TEXAS, North

TXZ130 **Erath**

02 **1400CST** **1800CST** **0** **0** **750K** **Wildfire**

A grass fire destroyed 6 houses in the town of Huckabay.

TXZ102 **Wise**

03 **1600CST** **2330CST** **0** **0** **80K** **Wildfire**

A grass fire started near Boonsville, burning 5,000 acres and 6 non-residential structures.

TXZ105-117 **Hunt - Parker**

05 **1600CST** **2300CST** **0** **0** **138K** **Wildfire**

A grass fire in Hunt County destroyed one home and burned 300 acres.

TXZ101 **Jack**

13 **0830CST** **1300CST** **0** **0** **Wildfire**

At least four thousand acres burned in Jack county due to a grass fire. No buildings were reportedly damaged.

TXZ107 **Hopkins**

19 **0930CST** **0** **0** **10K** **Strong Wind**

A carport and a roof were blown off two buildings in Como.

TXZ129 **Eastland**

27 **1345CST** **1530CST** **0** **0** **50K** **Wildfire**

Two grass fires broke out on State Highway 6 south of Eastland. 75 acres were burned, and a vacant house was damaged in the fires.

TEXAS, North Panhandle

TXZ011>014-016>019 **Oldham - Potter - Carson - Gray - Deaf Smith - Randall - Armstrong - Donley**

01 **1042CST** **1800CST** **1** **3** **87K** **High Wind (G56)**

A deepening low pressure system over the central Plains states resulted in a tight pressure gradient across the Texas panhandle during the late morning into the afternoon hours. Sixty to sixty-five mile an hour gusts were measured at Vega...Amarillo...and Claude. Forty-four mile an hour sustained winds were measured at Panhandle...fifty-eight mile an hour gusts were measured at McLean...forty-six mile an hour sustained winds were measured at Hereford...and sixty mile an hour gusts were measured at Clarendon. The high winds in Randall county caused visibilities from smoke from grass fires and blowing dust to be reduced to near zero and contributed to a seven-vehicle accident about seven miles south of Canyon on Interstate 27. One person was killed and three others were injured in the accident. The reduced visibilities also led the Department of Public Safety to close both lanes of Interstate 27 between Canyon and Happy and also U.S. Highway 60 east of Hereford. F50VE

TXZ007 **Moore**

01 **1042CST** **1800CST** **1** **0** **36K** **Strong Wind**

A deepening low pressure system over the central Plains states resulted in a tight pressure gradient across the Texas panhandle during the late morning into the afternoon hours. Thirty-nine mile an hour sustained winds at Dumas contributed to a fatality two miles south of Dumas on U.S. Highway 287 when a tractor-trailer rolled over and burst into flames. M42VE

TXZ015-019 **Wheeler - Donley**

01 **1100CST** **0** **0** **Wildfire**
04 **1700CST**

A deepening low pressure system over Kansas...low relative humidities...and dry fuels combined to produce extreme fire danger conditions. A wildfire burned nearly twenty-three thousand acres in the southeast Texas panhandle between Interstate 40 and Clarendon. Several houses were threatened outside Clarendon...however the fire was diverted around them. Another wildfire burned nearly thirty-one hundred acres just northeast of Shamrock. About one hundred people were evacuated by authorities and about ten structures and one motel were threatened by the wildfire.

TXZ015 **Wheeler**

09 **2000CST** **2100CST** **0** **0** **Heavy Snow**

A trough of low pressure in the upper atmosphere combined with a cold airmass and low level moisture to produce heavy snow over the eastern Texas panhandle during the evening hours. Four inches of snow was reported at Shamrock and eight miles west of Allison.

TEXAS, Northeast

Franklin County

2 SW Mt Vernon **12** **2205CST** **0** **0** **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

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

TEXAS, Northeast

Cass County

Atlanta **12** **2330CST** **0** **0** **Thunderstorm Wind (G54)**

Trees were downed.

TEXAS, South

NOT RECEIVED.

TEXAS, South Central

NONE REPORTED.

TEXAS, South Panhandle

TXZ021>044 **Parmer - Castro - Swisher - Briscoe - Hall - Childress - Bailey - Lamb - Hale - Floyd - Motley - Cottle - Cochran - Hockley - Lubbock - Crosby - Dickens - King - Yoakum - Terry - Lynn - Garza - Kent - Stonewall**

01 **0000CST** **0** **0** **0** **0** **Drought**

31 **2359CST**

Drought conditions intensified over the South Plains of west Texas and the extreme southern Texas Panhandle during the month of January. An abnormally long dry period commenced over the region in late October 2005. This followed widespread copious rains that set local climate records during the winter of 2004 and 2005. The onset of exceptionally dry conditions was accompanied by unseasonably warm temperatures. The average temperature during January at Lubbock was 47.3 degrees, 9.2 degrees warmer than the thirty year average (1971 to 2000) January temperature of 38.1 degrees. The warmth accounted for a combined six daily record high temperatures at Childress and Lubbock. With the last measurable rainfall at Lubbock International Airport occurring on October 27, 2005, the thirty-one dry days of January contributed to what would become a record setting stretch of consecutive days without measurable precipitation for the city.

The U.S. Drought Monitor officially indicated D2 (severe) drought conditions over an expanding area that encompassed the extreme southeastern Texas Panhandle and the northeastern portions of the South Plains by January 24th. The intense short-term drought conditions that persisted over the area since late autumn resulted in the curing of abundant rangeland vegetation that grew following the previous year's record rains. With extremely dry fuel moisture levels, record warm temperatures, and persistently breezy southwest to westerly winds that advected very dry low level air (observed dewpoints as low as -20 degrees F) into the area, the threat for wildfires was very high over all of west Texas.

Most crops across the region had been harvested by the time the drought commenced, and the dry weather actually helped farmers extract cotton from the fields during the late fall. The drought, however, is expected to have long-term adverse effects as fields are prepared and planting begins during the upcoming growing season. Thus agricultural losses resulting from the drought will likely be realized at future dates according to local extension agents.

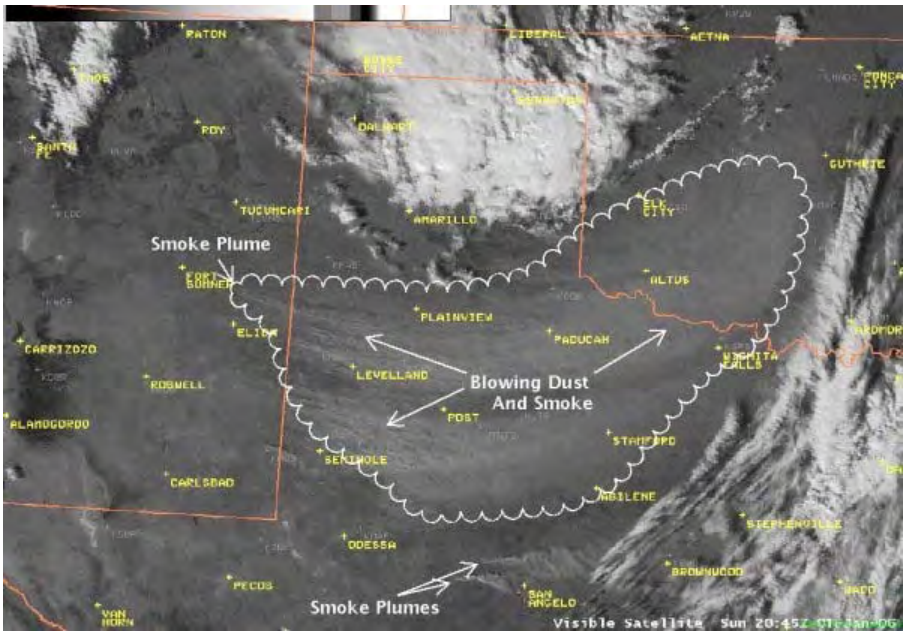
Storm Data and Unusual Weather Phenomena

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

TEXAS, South Panhandle

TXZ021>024-026-028>036-039-041 **Parmer - Castro - Swisher - Briscoe - Childress - Lamb - Hale - Floyd - Motley - Cottle - Cochran - Hockley - Lubbock - Crosby - Yoakum - Lynn**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
TEXAS, South Panhandle									
	01	**1040CST 1540CST**			**0**	**1**	**35K**	**0**	**High Wind (G58)**



Visible satellite imagery at 14:45 CST showing widespread blowing dust over the South Plains. Smoke plumes from numerous ongoing wildfires are embedded within the dust. Imagery - NWS Lubbock, Texas.

High winds affected much of the South Plains of west Texas on New Year's Day. The Texas Tech West Texas Mesonet recorded numerous severe wind gusts up to 67 MPH. The strong westerly winds caused blowing dust and resulted in dangerous driving conditions for holiday travelers. A tractor-trailer was blown over on Interstate 27 five miles south of Hale Center (Hale County). The driver sustained minor injuries. A summary of recorded severe gusts in order of magnitude follows:

2 NE Friona (Parmer).....67MPH
7 E Silverton (Briscoe).....67MPH
3 N Hart (Castro).....67MPH
2 NE Dimmitt (Castro).....67MPH
2 NE Tulia (Swisher).....65MPH
2 S Muleshoe(Bailey).....65MPH
Lubbock Int. Airport (Lubbock).....64MPH
6 S Anton (Hockley).....64MPH
1 NE Amherst (Lamb).....64MPH
4 S Levelland (Hockley).....64MPH
6 S Olton (Lamb).....62MPH
2 NE Floydada (Floyd).....62MPH
7 W Denver City (Yoakum).....62MPH
Reese Center (Lubbock).....61MPH
1 S Plainview (Hale).....61MPH
3 NE Tahoka (Lynn).....61MPH
10 SW Paducah (Cottle).....60MPH
3 N Roaring Springs (Motley).....60MPH
1 NE Morton (Cochran).....60MPH
3 W Lubbock (Lubbock).....60MPH
Childress (Childress).....59MPH
5 NE Abernathy (Hale).....59MPH
6 SW Wolfforth (Hockley).....59MPH
8 SW Sundown (Yoakum).....58MPH
6 NW White RIver Lake (Crosby)...58MPH

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
TEXAS, South Panhandle									
TXZ023-034>035-039	**Swisher - Hockley - Lubbock - Yoakum**								
	01	**1055CST 1630CST**			**0**	**3**	**325K**	**0**	**Wildfire**

The above photograph shows a wildfire that burned out of control near a rural residence just north of Lubbock on New Year's Day. The fire destroyed horse stables and injured a fire fighter. Photo courtesy - Jason McLaughlin.

A wildfire near the rural community of Claytonville (Swisher County) destroyed two homes. No injuries were reported.

A second wildfire ignited near the intersection of Regis and Interstate 27, one mile southwest of Lubbock International Airport. The fire destroyed horse stables, and one fire fighter was hospitalized for smoke inhalation related injuries

Another large wildfire near Levelland burned two mobile homes and injured fire fighters. Two firemen were hospitalized due to minor burn injuries and smoke inhalation.

A wildfire that initiated near Tatum, New Mexico, burned several thousand acres of rangeland and threatened structures as it spread across the Texas/New Mexico state-line into Yoakum County near Bronco. The fire was contained before doing significant damage in Yoakum County, but one rural residence was evacuated.
January 1 Wind and Wildfire Event Summary - A potent upper level trough affected much of the Southern Plains on New Year's Day. The trough resulted in widespread high winds over the region, where intense short-term drought conditions existed. The wind combined with the exceptionally dry conditions to result in a historic outbreak of wildfires over eastern New Mexico, Texas, and Oklahoma.

High and frequently severe winds began to blow over the west Texas South Plains by late morning. These winds persisted through the mid afternoon hours, and resulted in widespread blowing dust and one injury. At least a dozen wind-driven wildfires were sparked over the South Plains. Four of the wildfires were significant, and resulted in the loss of property and three injuries. The winds and fires on the 1st combined to result in four injuries and estimated property losses that exceeded $350,000 .

Storm Data and Unusual Weather Phenomena

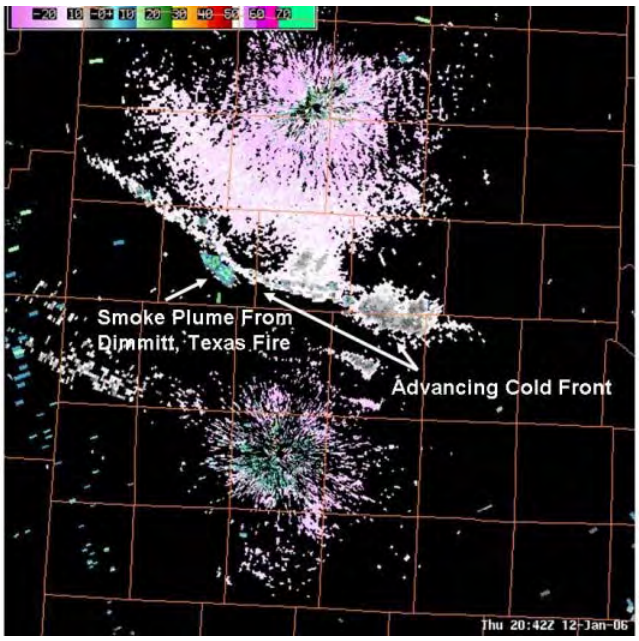
January 2006

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

TEXAS, South Panhandle

TXZ022-031 — **Castro - Motley**

12	**1430CST**	**0**	**0**	**200K**	**0**	**Wildfire**
	1630CST					



KLBB WSR-88D reflectivity imagery showing the smoke plume associated with the Dimmitt, Texas, wildfire and the advancing frontal boundary that shifted the fire's propagation. Imagery - NWS Lubbock, Texas.

A large wildfire ignited near U.S. Highway 385 just north of Dimmitt on the afternoon of the 12th. A frontal passage caused a westerly to northerly wind shift that rapidly changed the fire's direction of growth and spread. The fire destroyed three abandoned structures on the northwest side of the city. Resources from surrounding counties as well as the Texas Forest Service were utilized to battle the blaze. Two forest service air tankers provided airdrops and managed to contain the fire before it spread into the city. This undoubtedly averted extensive damage to homes and businesses.

A second large wildfire was reported to be burning out of control just west of Matador around 15:00 CST on the 12th. This fire destroyed at least one structure. No injuries were reported.
A series of at least six wildfires charred portions of the extreme southern Texas Panhandle and the South Plains of west Texas on the 12th. Strong westerly winds and extremely low relative humidity values combined with parched fuels and the ongoing short-term drought to result in a very high fire danger. In addition, an advancing cold front interacted with several of the fires, changing the direction of fire propagation and spread. Two wildfires became significant and destroyed property, including one fire that threatened the city of Dimmitt (Castro County). Total losses were estimated at $200,000.

TEXAS, Southeast

NONE REPORTED.

TEXAS, West

TXZ074-074 — **Davis / Apache Mountains Area**

01	**0840CST**	**0**	**0**	**0**	**0**	**High Wind (G68)**
02	**0215CST**					

A deep low pressure system tracked across west Texas and southeastern New Mexico on New Year's Day resulting in high winds across much of the area. These winds combined with very low relative humidities to produce conditions that aided in the rapid growth and spread of wildfires. No wind damage was reported.

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

TEXAS, West

TXZ070 **Reagan**

01	**1045CST**	**0**	**1**	**15K**	**1.3M**	**Wildfire**	
05	**1900CST**						

Record high temperatures (in the mid to upper 70s), very low relative humidities, high winds, and two and a half months without measurable precipitation combined to produce a very active fire weather day. SPC issued a critical fire weather area for west Texas and southeastern New Mexico in their Day 1 Fire Weather Outlook issued early on January 1st.

A grassfire spread to over 40,000 acres in Reagan and Irion counties on New Year's Day. Newspapers originally reported the cause as sparks from a transformer. Later, a fire department official in Big Lake reported that a hawk landed on power lines and burst into flames, starting the fire. Because of high winds, record high temperatures, and very low relative humidities, it took firefighters 3 days to contain the wildfire. It was extinguished a couple of days later. One firefighter sustained 2nd degree burns to his face while fighting the fire but was treated and released from a regional burn center. The fire was in mostly open country and thus only a hunting cabin was destroyed.

In addition to the major fire in Reagan and Irion counties, several other small fires scorched west Texas. Both Ector and Midland counties had fire and fireworks bans in effect for the period between New Year's Eve and January 6, 2006. Several other counties also had fireworks bans in effect for the New Year's holiday.

January was a dry month overall. Several other minor fires occurred throughout west Texas, including two along Interstate 20 in Stanton. Smoke from one of these fires reduced visibility on Interstate 20, causing a five car pile-up that resulted in two injuries. Another fire in Scurry county, near the Inadale Cotton Gin, burned 415 modules of cotton, each worth around $3,000. Each of the modules contains about 10 bales of cotton.

Damage estimates in the above entry include all fires that burned in Texas during the month of January.

TEXAS, Western North

TXZ083>090 **Hardeman - Foard - Wilbarger - Wichita - Knox - Baylor - Archer - Clay**

01	**0000CST**	**0**	**0**			**Drought**	
31	**2359CST**						

Drought conditions persisted into January 2006, with severe to extreme (D2-D3) levels across western north Texas. The weather station at Wichita Falls was 0.49 inches below normal at the end of January. However, this was in addition to the already well below normal values from the previous months. The drought conditions across Texas had become bad enough that the governor issued a drought disaster declaration for Texas in late January. The drought conditions exacerbated already critical fire weather conditions on several days during the month. Several wildfires occurred during the month with one large fire beginning in Clay County and moved east into the neighboring county of Montague affecting a nearby town.

UTAH, East

UTZ028 **La Sal & Abajo Mountains**

01	**0000MST**	**0**	**0**			**Winter Weather/Mix**	
	1300MST						

This storm began the morning of December 30, 2005. A moist southwest flow over the area produced 6 to 9 inches of snow across the mountains of southeast Utah. Wind gusts of 20 to 30 mph created blowing and drifting snow.

UTZ022>025-027>029 **Southeast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaputs Plateau - Grand Flat And Arches - La Sal & Abajo Mountains - Canyonlands / Natural Bridges**

01	**0000MST**	**0**	**0**			**Drought**	
31	**2359MST**						

The storm track favored northeast Utah with respect to snowfall and increased snowpack, while cold season precipitation and the mountain snowpack remained well below normal across southeast Utah. Little change was noted across eastern Utah, with abnormally dry conditions persisting across southeast and east central Utah. Although most of northeast Utah was no longer listed as having any abnormal dryness or drought, the water supply remained a concern following years of below normal precipitation and drought. For a continuation on this drought situation please see the February 2006 Storm Data publication

UTZ028 **La Sal & Abajo Mountains**

15	**1000MST**	**0**	**0**			**Winter Weather/Mix**	
16	**1200MST**						

A Pacific storm brought 7 to 14 inches of snow to the mountains of southeast Utah. Wind gusts of 20 to 35 mph created blowing and drifting of snow.

UTZ023-028 **Eastern Uinta Mountains - La Sal & Abajo Mountains**

18	**1200MST**	**0**	**0**			**Winter Weather/Mix**	
20	**0000MST**						

A vigorous upper level trough brought 5 to 9 inches of snow to the mountains of extreme eastern Utah, along with frequent wind gusts of 20 to 30 mph.

Storm Data and Unusual Weather Phenomena

January 2006

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

UTAH, East

UTZ024 **Eastern Uinta Basin**

19 0100MST **0** **0** **Winter Weather/Mix**
1100MST

An area of moderate to heavy snow developed across the Eastern Uinta Basin as the core of an upper level trough moved over the area. Widespread snowfall amounts of 3 to 6 inches were measured, except around Ballard where 9 inches accumulated.

UTZ028 **La Sal & Abajo Mountains**

25 0400MST **0** **0** **Winter Storm**
26 1300MST

A Pacific storm moved across the Four Corners area and produced 8 to 16 inches of snow across the mountains of southeast Utah. Gusty winds of 25 to 40 mph caused areas of blowing and drifting snow.

UTZ023-025 **Eastern Uinta Mountains - Tavaputs Plateau**

25 0800MST **0** **0** **Winter Weather/Mix**
26 1300MST

A Pacific storm produced 5 to 6 inches of snow across the plateau and mountain areas of east central and northeast Utah. Wind gusts of 25 to 40 mph created areas of blowing and drifting snow.

UTZ022-024 **Southeast Utah - Eastern Uinta Basin**

25 1600MST **0** **0** **Winter Weather/Mix**
26 0500MST

A Pacific storm produced 3 to 4 inches of snow across some lower elevation areas of eastern Utah.

UTZ028 **La Sal & Abajo Mountains**

27 1300MST **0** **0** **Winter Weather/Mix**
28 0100MST

A Pacific storm produced 5 to 11 inches of snow across the mountains of southeast Utah. Frequent wind gusts of 20 to 35 mph created blowing and drifting snow.

UTAH, West and Central

Cache County

Petersboro Siding **01 2200MST** **0** **0** **Flash Flood**
02 1000MST

Newspaper reports of flooding in homes in Petersboro, UT in Cache Valley. Number of homes not given

UTZ006 **Wasatch Mountain Valleys/Huntsville/Park City/Heber**

01 2200MST **0** **0** **Heavy Snow**
03 1000MST

9" at Kamas and PArk City, including 3" in 1 hr 1/3 am.

UTZ007>008-017 **Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Central And Southwest Mountains**

01 2200MST **1** **0** **Winter Storm**
03 1000MST

Otter Creek RAWS. 36" storm total on Ben Lomond Peak M50OT

UTZ003-005 **Salt Lake And Toole Valleys - Great Salt Lake Desert And Mountains/Wendover/Snowville**

02 1700MST **0** **0** **High Wind (G62)**
1930MST

Olympus Cove weather station
A strong winter storm system brought high winds and heavy snow to the mountains. One person died when their small private plane crashed into the side of a mountain near Jordanelle dam in heavy snow. Rain and snow melt resulted in flooding in the cache valley at Petersboro. Standing water closed main street and water filled several homes basements. Strong wind gusts blew over signs and ripped off shingles in cedar city.

Peak Wind Gusts (mph)

Otter Creek Raws (RichCo)	90	Wasatch Ridgeline	79
Signal Peak (Sevier Co)	74	Lost Creek (Sevier Co)	64
Olympus Cove	62	Tooele	60
Dugway	59		

Snowfall Amounts (inches)

Ben Lomond Peak	32	Snowbird	27	Alta Udot	24
Solitude	22	Timp Divide	22	Tony Grove Lake	20
Alta Lifts	20	Brighton	19	Monte Cristo	18
Park City Ridge	17	Farmington Cyn	15	High Uintas	14
Daniels Pass	14	Trial Lake	13	Kolob-Zion NP	12
Cedar Breaks	12	The Canyons	12	Chalk Creek	11

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

UTAH, West and Central

Spruces	11	Wasatch Plateau	10	Jordanelle Res	9		
Kamas	9	Park City	8	Brian Head	8		
Kimball Junction	4	Heber City	4				

UTZ007>008 **Wasatch Mountains I80 North - Wasatch Mountains South Of I80**

07 1200MST 0 0 Heavy Snow
08 2300MST

16" storm total at Tony Grove Lake
Jan 7th-8th.. A couple of fast moving storms affected northern Utah. Snow dusted the Wasatch front on the 8th and resulted in icy roadways. Dozens of slide off accidents were reported.

Snowfall Amounts (inches)

Tony Grove Lake	16	Brighton	15	Alta Udot	13
Snowbird	12	Monte Cristo	11	Snowbasin	10
Spruces	10	Farmington Cyn	9	Solitude	9
Snowbird	7	The Canyons	7	Ben Lomond Peak	6
Chalk Creek	6	Daniels Pass	5	Trial Lake	5
Timp Divide	3	Upper Millcreek	2	Sundance	2

UTZ006>008 **Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80**

11 0900MST 0 0 Heavy Snow
2100MST

9" snowfall in 12hrs in Liberty

UTZ002>003-005-007>009-017 **Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Unita Mountains - Central And Southwest Mountains**

15 0600MST 0 0 Heavy Snow
16 1000MST

6" along the Bountiful bench
A winter storm brought heavy snow to much of the state, with significant snow in the populated valleys.

Snowfall Totals (inches)

Alta Udot	20	Alta Lifts	18	Snowbird	18
Farmington Cyn	15	Solitude	15	Oquirrh Mts.	14
Wasatch Plateau	14	Ben Lomond Peak	13	Spruces	13
Brian Head	13	The Canyons	12	Brighton	12
Kolob-Zion NP	12	Park City Ridge	10	Chalk Creek	10
Tony Grove Lake	9	Tushar Mts	9	Strawberry Res	8
Trial Lake	8	Farnsworth Lake	8	Pine Valley Mts	8
Cedar Breaks	8	Snowbasin	7	Monte Cristo	7
North SLC Bench	7	Bountiful Bench	6	Upper Millcreek	6
Cottonwood Hts.	6	Eden	6	Timp Divide	6
Upper SLC Avenues	5	Suncrest-Draper	5	Payson	5
Taylorsville	5	Sandy	5	Cove Fort	5
Pinto Junction	5	New Harmony	4	Cottonwood	3
West Jordan	3	West Valley City	3	Santaquin	3
Layton Bench	3	Alpine	3	South Ogden	3
Sundance	3	Pleasant Grove	2	West Haven	2
East Layton	2	SCL Airport	2	Ogden NE Bench	2
Spanish Fork	2	Logan Airport	2	Tooele	2
South Jordan	2	Cedar City	2	Kamas	2
Coalville	2	Morgan	2	Randolph	2

VERMONT, North and Central

VTZ003>004-007 **Orleans - Essex - Caledonia**

11 0700EST 0 0 20K Winter Weather/Mix
0900EST

An area of low pressure moving through the Great Lakes on the morning of January 11th allowed mild, moist air to override a shallow cold layer at the surface. This resulted in a period of light freezing rain during the morning commute across northeast Vermont. Roads were slippery and several accidents were reported. School buses with students on-board slid off the road in Woodbury and Barton, but no reported injurues with these incidents

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

VERMONT, North and Central

VTZ001>002-005-009-011-018 **Grand Isle - Western Franklin - Western Chittenden - Western Addison - Western Rutland - Eastern Addison**

15	**0200EST 0800EST**	**0**	**0**	**40K**		**Winter Weather/Mix**

An arctic cold front moved across Vermont during the night of the 14th and early morning of the 15th. Record warm temperatures in the 40s and 50s on Saturday (14th), were replaced with temperatures in the single numbers and teens Sunday. Low pressure moved along this arctic front and across eastern New England with rain changing to snow across the region late Saturday night through Sunday morning. It was quite blustery with Northwest winds 20 to 30 mph and gusts to 40 mph causing blowing and drifting snow. Snowfall amounts of 1 to 3 inches were common across western Vermont.

VTZ003>004-006-016 **Orleans - Essex - Lamoille - Eastern Franklin**

15	**0300EST 0900EST**	**0**	**0**	**20K**		**Winter Weather/Mix**

An arctic cold front moved across Vermont during the night of the 14th and early morning of the 15th. Record warm temperatures in the 40s and 50s on Saturday (14th), were replaced with temperatures in the single numbers and teens Sunday. Low pressure moved along this arctic front and across eastern New England with rain changing to snow across the region late Saturday night through Sunday morning. It was quite blustery with Northwest winds 20 to 30 mph and gusts to 40 mph causing blowing and drifting snow. Snowfall amounts of 2 to 4 inches were common across northern Vermont.

VTZ007-010-012-019 **Caledonia - Orange - Windsor - Eastern Rutland**

15	**0400EST 1100EST**	**0**	**0**	**40K**		**Winter Storm**

An arctic cold front moved across northern Vermont during the night of the 14th and early morning of the 15th. Record warm temperatures in the 40s and 50s on Saturday (14th), were replaced with temperatures in the single numbers and teens Sunday. Low pressure moved along this arctic front and across eastern New England with rain changing to snow across the region late Saturday night through Sunday morning. It was quite blustery with Northwest winds 20 to 30 mph and gusts to 40 mph causing blowing and drifting snow. Snowfall accumulations were 5 to 8 inches with isolated higher amounts. Snowfall reports included Woodstock with 7 inches and 11 inches in Springfield.

VTZ008-017 **Washington - Eastern Chittenden**

15	**0400EST 1100EST**	**0**	**0**	**15K**		**Winter Storm**

An arctic cold front moved across northern New York and Vermont during the night of the 14th and early morning of the 15th. Record warm temperatures in the 50s on Saturday the 14th, were replaced with temperatures in the single numbers and teens Sunday afternoon. Low pressure moved along this arctic front and across eastern New England with rain changing to snow across the region late Saturday night through Sunday morning. It was quite blustery with Northwest winds 20 to 30 mph and gusts to 40 mph causing blowing and drifting snow. Snowfall accumulations were 5 to 8 inches with isolated higher amounts. Snowfall reports included Jericho with 7 inches and Waitsfield with 7 inches.

VTZ001>009-016>018 **Grand Isle - Western Franklin - Orleans - Essex - Western Chittenden - Lamoille - Caledonia - Washington - Western Addison - Eastern Franklin - Eastern Chittenden - Eastern Addisor**

15	**0600EST 2200EST**	**0**	**0**			**Extreme Cold/Wind Chill**

An arctic cold front moved across northern Vermont during the early morning of 15th. Record warm temperatures in the 50s on Saturday the 14th, were replaced with temperatures 5 to 15 above on Sunday. Blustery northwest winds 20 to 30 mph with gusts to 40 mph created wind chills of 10 to 25 degrees below zero and an apparent temperature change from Saturday (14th) of 50 to 70 degrees colder.

VTZ018 **Eastern Addison**

18	**0400EST 0600EST**	**0**	**0**	**30K**		**High Wind (G55)**

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Ahead of this storm, in the early morning hours of the 18th, winds were especially strong with localized channeling that caused some structural damage at Middlebury State Airport in East Middlebury with a measured wind gust of 63 mph. Thereafter, brisk south to southeast winds of 25 to 35 mph with gusts exceeding 50 mph were common across much of the region and continued until early afternoon. Scattered power outages occurred in the higher elevations and including the communities along the western slopes of Vermont's Green mountains.

VTZ005-009-011 **Western Chittenden - Western Addison - Western Rutland**

18	**0700EST 1300EST**	**0**	**0**	**13K**		**Strong Wind**

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Ahead of this storm, during the morning of the 18th, brisk south to southeast winds of 20 to 30 mph with gusts exceeding 40 mph were common across much of the region. Some measured wind gusts included Colchester Reef at 46 mph and Burlington at 40 mph.

VTZ017-019 **Eastern Chittenden - Eastern Rutland**

18	**0700EST 1300EST**	**0**	**0**	**15K**		**Strong Wind**

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

VERMONT, North and Central

A powerful storm tracked northeast across the northern Great Lakes on the 17th and across Ontario and Quebec provinces on the 18th. Ahead of this storm, during the morning of the 18th, brisk south to southeast winds of 25 to 35 mph with gusts exceeding 45 mph were common across much of the region. Scattered power outages occurred in the higher elevations and amongst the communities along the western slopes of Vermont's Green mountains. Some reported wind gusts include Jericho at 52 mph and North Clarendon (Rutland State Airport) at 44 mph.

VTZ011-019 **Western Rutland - Eastern Rutland**

18	**1400EST**	**0**	**0**	**55K**		**Flood**
	2100EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. Some small creeks and streams became rushing torrents with ice and debris blocking culverts, causing road washouts and evacuations in Castleton. Several other communities, including West Rutland, Clarendon and Benson witnessed similar flooding and additional evacuations. In Benson, a local State of Emergency was declared.

VTZ005-017 **Western Chittenden - Eastern Chittenden**

18	**1400EST**	**0**	**0**	**40K**		**Flood**
	2100EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. Some small creeks and streams became rushing torrents with ice and debris blocking culverts and causing road washouts and flooded basements in Hinesburg forcing evacuations and a local State of Emergency to be declared. Other scattered communities witnessed minor road flooding as well as numerous ponding of water due to clogged storm drains.

VTZ009-018 **Western Addison - Eastern Addison**

18	**1400EST**	**0**	**0**	**25K**		**Flood**
	2300EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. Streams and small rivers easily overflowed their banks causing flooded roads as well as depositing large chunks of ice in New Haven and Orwell. A local State of Emergency was declared in Orwell.

VTZ012 **Windsor**

18	**1500EST**	**0**	**0**	**3K**		**Flood**
	2000EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. In addition to field flooding and ponding of water on area roadways, there was some flooding along Route 12 in Hartland.

VTZ002-016 **Western Franklin - Eastern Franklin**

18	**1600EST**	**0**	**0**	**10K**		**Flood**
19	**0600EST**					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. Widespread field flooding and ponding of water on area roadways, including in St. Albans. Localized ice jams along the Missisquoi caused flooding and left large ice chunks along Route 78 in Highgate and Route 105 between Enosburg and Berkshire.

VTZ007 **Caledonia**

18	**1600EST**	**0**	**0**	**25K**		**Flood**
19	**1200EST**					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. In addition, widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. There was widespread field flooding and ponding of water on area roadways. There was a minor mudslide in St. Johnsbury on the afternoon of the 18th as well as localized ice jams along the headwater regions of the Passumpsic in Wheelock and Lyndonville causing evacuations in a trailer park along Route 114. During the night of the 18th through midday on the 19th, a series of ice jams along the Passumpsic river caused considerable flooding between Lyndonville and Saint Johnsbury Center and forced more evacuations.

VTZ008 **Washington**

18	**1630EST**	**0**	**0**	**15K**		**Flood**
	2200EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. The Winooski river and some of its tributaries experienced flooding due

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

VERMONT, North and Central

to high water caused by run-off and frequent ice jams, including the Dog River at Berlin and Roxbury...the Mad River in Warren and Waitsfield as well as the Winooski at Middlesex and Moretown.

VTZ003 **Orleans**

18	**1630EST**	**0**	**0**	**2K**		**Flood**
	2100EST					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. In addition to field flooding and ponding of water on area roadways, there was some flooding along Route 5A in West Charleston. Flood Stage (9 feet) was nearly reached at North Troy along the Missisquoi with a level of 8.98 feet.

VTZ006 **Lamoille**

18	**1700EST**	**0**	**0**	**2K**		**Flood**
19	**0400EST**					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. In addition to field flooding and ponding of water on area roadways, the Lamoille river flooded Route 15 in Cambridge at the Wrong Way bridge during the evening of the 18th.

VTZ010 **Orange**

18	**1800EST**	**0**	**0**	**2K**		**Flood**
19	**2200EST**					

A powerful storm tracked northeast across Ontario and Quebec provinces on the 18th. Ahead of this storm, brisk south winds caused temperatures to rise into the 40s creating snow melt. Widespread rainfall of 1.5 to 2.5 inches on the night of the 17th through early afternoon of the 18th increased run-off into area watersheds. In addition to field flooding and ponding of water on area roadways, there was some flooding along Route 5 between Wells River and Newbury as well as Route 12A in Randolph.

VTZ009-011 **Western Addison - Western Rutland**

25	**1900EST**	**0**	**0**	**8K**		**Winter Weather/Mix**
26	**0900EST**					

An Alberta Clipper moved across northern Vermont during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls during the evening and continued until early morning on the 26th. Total snowfall was 2 to 4 inches across the southern Champlain Valley of Vermont. Snowfall amounts include: Rutland with 2 inches and Danby Four Corners with 4 inches

VTZ001>002-005 **Grand Isle - Western Franklin - Western Chittenden**

25	**1900EST**	**0**	**0**	**20K**		**Winter Weather/Mix**
26	**0900EST**					

An Alberta Clipper moved across northern Vermont during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls during the evening and continued until early morning on the 26th. Total snowfall was 3 to 6 inches across the northern Champlain Valley of Vermont. Snowfall amounts include: Milton and Saint Albans with 4 inches and South Burlington with 6 inches

VTZ016>018 **Eastern Franklin - Eastern Chittenden - Eastern Addison**

25	**1900EST**	**0**	**0**	**20K**		**Winter Weather/Mix**
26	**1200EST**					

An Alberta Clipper moved across northern Vermont during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls during the evening and continued until midday on the 26th across the western slopes of the northern Green Mountains. Total snowfall was 5 to 8 inches across the western slopes. Snowfall amounts included: Jericho and Underhill with 7 inches.

VTZ003>004-006>008 **Orleans - Essex - Lamoille - Caledonia - Washington**

25	**2000EST**	**0**	**0**	**22K**		**Winter Weather/Mix**
26	**1200EST**					

An Alberta Clipper moved across northern Vermont during the early morning hours of the 25th depositing a dusting to locally up to 2 inches of snow. A significant upper level disturbance and cold, unstable air aloft redeveloped snow showers and localized snow squalls during the evening and continued until midday on the 26th across the northern Green Mountains,north central and northeast Vermont. Total snowfall was 2 to 4 inches across much of the area with localized amounts exceeding 6 inches along the immediate eastern slopes of the Green Mountains. Snowfall amounts included: Montpelier with 2 inches, Eden...Marshfield and Sutton with 3 inches, Jeffersonville and Newport with 4 inches, Waitsfield with 6 inches and Jay Peak with 9 inches.

VTZ003>004-006>008-010 **Orleans - Essex - Lamoille - Caledonia - Washington - Orange**

29	**1800EST**	**0**	**0**	**45K**		**Winter Weather/Mix**
30	**0600EST**					

A stationary front was draped across southern New England on the 29th and slowly moved to the Canadian border during the 30th. At the same time, low pressure across the Great Lakes primarily stayed stationary, delivering rounds of light mixed wintry precipitation on the 29th and 30th. On Sunday night (29th) slick roads caused numerous accidents across the region including Interstate 89 in Middlesex (Washington county). Snowfall amounts were generally 1 to 3 inches in the valley with 2 to 4 inches in the higher

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

VERMONT, North and Central

elevations with some light freezing rain early Monday morning (30th) before changing to rain. Some snowfall reports include: 1 inch at Waitsfield, Northfield and East Haven...2 inches at Eden, Worcester and St. Johnsbury...3 inches in Sutton and Chelsea and 4 inches in Brookfield.

VERMONT, South

VTZ014 **Western Windham**

14 2100EST 0 0 Heavy Snow
15 0900EST

Seven to 9 inches of snow accumulated over western Windham County.
Low pressure was over southeastern Pennsylvania at daybreak on January 14. The system intensified and moved northeast across eastern New England. subfreezing air circulated southward from Canada. As it arrived in southern Vermont on the evening of January 14, rain changed to snow. A heavy snowfall occurred in a portion of the southern Green Mountains from the evening of January 14 through the mid morning hours of January 15.

VTZ013 **Bennington**

18 0914EST 0 0 High Wind (G62)

On January 18, the ASOS station at Bennington measured wind gusts of 62 MPH.

VTZ015 **Eastern Windham**

18 2100EST 0 0 Flood
19 0115EST

During January 18 and 19, flooding occurred on the Williams River at Rockingham. Flood stage is 8.0 feet. A flood crest of 9.12 feet occurred on January 18, at 10:50 PM.

VTZ013 **Bennington**

18 2130EST 0 0 Flood
19 0200EST

Flooding occurred on the Wallomsac River at Bennington on January 18 and January 19. Flood stage is 7.0 feet. The river crested at 8.00 feet on January 18 at 11:00 PM EST.
A strengthening cyclone moved across southern Quebec Province, Canada. An occluded front over western New York at daybreak, moved eastward, while the warm front associated with the cyclone moved into southwestern New England early in the morning. A strong pressure gradient was over western New England preceding the passage of the occluded front. In addition to high wind, this storm left 1 to 2 inches of rain across eastern New York and adjacent western New England. The rain combined with melting snow and saturated soil conditions from a heavy precipitation event on January 14, produced widespread flooding

VTZ015 **Eastern Windham**

21 1700EST 0 0 High Wind (G60)

On January 21, trees and wires were blown down in Brattleboro.
On January 21, an intensifying cyclone over Lake Ontario at daybreak moved rapidly down the St Lawrence Valley. A trailing cold front moved quickly into western New England during the middle of the afternoon. A rapidly building high pressure over the Mississippi Valley augmented a strengthening pressure gradient to the west of the cold front. The low levels of the atmosphere were quite unstable as the cold front moved across the region, which allowed strong wind aloft to mix to the surface at the time of the frontal passage.

VIRGIN ISLANDS

NONE REPORTED.

VIRGINIA, East

Sussex County

1 NE Booker to 4 NE Booker **11 1720EST 1725EST 3.5 200 0 0 20K Tornado (F1)**

F1 tornado caused intermittent minor roof damage to several residences in its path. A trailer was overturned which caused damage to a vehicle next to it. Pine tree limbs of up to a foot in diameter were snapped off.

James City County

2 NW Jamestown **11 1823EST 1825EST 0.8 25 0 2 20K Tornado (F1)**

F1 tornado caused intermittent damage at the Jamestown Beach Campground and Foxfield subdivision. One trailer and a pop-up camper were destroyed at the campground and caused minor injuries to two occupants. Two townhomes suffered minor roof and siding damage in the subdivision. Many trees were damaged along Jamestown Road.

Brunswick County

Cochran **14 0100EST 0 0 2K Thunderstorm Wind (G50)**

Trees down on Route 1.

Dinwiddie County

Carson **14 0142EST 0 0 Hail (0.88)**

Nickel size hail fell.Wind gusts were estimated at 50 mph.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
VIRGINIA, East									
New Kent County									
New Kent	**14**	**0155EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Trees down on Old Church Road.									
Sussex County									
Jarratt	**14**	**0159EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Trees down along Route 619.									
King William County									
West Pt	**14**	**0205EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G50)**
Large tree down on car on Route 30.									
Prince George County									
Prince George	**14**	**0209EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Trees down at Route 10 and Ruffin Road and on Lone Oak Road at Route 614.									
King And Queen County									
5 SE Millers Tavern	**14**	**0215EST**	**0.3**	**50**	**0**	**0**	**15K**		**Tornado (F0)**
		0216EST							
F0 tornado demolished 2 sheds at residence. Some minor roof damage also occurred. Numerous trees blown down or snapped off.									
Richmond County									
Tidewater	**14**	**0230EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G60)**
Damage to two outbuildings. Several trees blown down. Small hail also reported.									
Suffolk (C)									
Elephant Fork	**14**	**0324EST**			**0**	**0**	**25K**		**Thunderstorm Wind (G50)**
Large pine tree snapped and fell on two homes on Kristen Lane. One received major structural damage.									
Newport News (C)									
2 SW (Phf)Newport Ne	**14**	**0330EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Trees down along Colony Road.									
Portsmouth (C)									
Portsmouth	**14**	**0340EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Large tree down at 200 block of Mayflower Avenue.									
Norfolk (C)									
Norfolk	**14**	**0342EST**			**0**	**0**	**2K**		**Thunderstorm Wind (G50)**
Large tree blown down near downtown.									
Virginia Beach (C)									
2 E Sigma	**14**	**0345EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G50)**
Vinyl carport flipped at Sandbridge Beach.									
VIRGINIA, Extreme Southwest									
Lee County									
Smiley	**02**	**1900EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G60)**
A few trees were reported down on power lines.									
VAZ001>002-005>006-008	**Lee - Wise - Scott - Russell - Washington**								
	14	**1100EST**			**0**	**0**			**Heavy Snow**
Heavy snow began overnight on the 13th and continued into the 14th. Snowfall of 3 to 4 inches with isolated 5 inch amounts reported over Southwest Virginia.									
VIRGINIA, North									
VAZ025>031-036>042-050>057	**Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George**								
	12	**0300EST**			**0**	**0**			**Dense Fog**
		0730EST							
Areas of dense fog occurred early in the morning of January 12 across the region.									
VAZ052>055-057	**Prince William - Fairfax - Arlington - Stafford - King George**								
	13	**0430EST**			**0**	**0**			**Dense Fog**
		1200EST							
Areas of dense fog occurred early in the morning of January 13 across the region.									
Albemarle County									
Southwest Portion	**13**	**1153EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**
	14	**1153EST**							
Tree down on Plank Road.									

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

VIRGINIA, North

Orange County

Barboursville **14** **0032EST** **0** **0** **5K** **Thunderstorm Wind (G50)**

Tree down near Spotswood Trail.

Culpeper County

Rixeyville **14** **0055EST** **0** **0** **10K** **Thunderstorm Wind (G50)**
0100EST

Tree down near Rixeyville.

Fauquier County

Warrenton **14** **0110EST** **0** **0** **250K** **Thunderstorm Wind (G70)**

Numerous trees down mainly in downtown Warrenton. All damages indicate straight-line winds. Several large older trees downed. Some minor structural damage with one report of major roof damage to the city police building.

A major low pressure system moved from the Middle Ohio Valley on the afternoon of January 13 to the Mid Atlantic during the overnight. This system pushed a strong cold front through the region overnight. The cold front produced scattered thunderstorms with a few of those thunderstorms reaching severe limits across areas of Northern Virginia.

VAZ021-025>030-036>042-051>053-055>057 **Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Culpeper - Prince William - Fairfax - Stafford - Spotsylvania - King George**

14 **1305EST** **0** **0** **1.6M** **High Wind (G55)**
2125EST

Trees down countywide.

Very strong winds developed on the 14th due to a strengthening low pressure system off the Mid Atlantic Coast and a fast moving cold front that passed through the region early in the day. Widespread damages and power outages occurred, with newspaper reports indicating tens of thousands without power for an extended period of time.

VAZ025 **Augusta**

18 **1200EST** **0** **0** **10K** **Strong Wind**

A fast moving cold front swept across the area on January 18. Strong winds caused a large pine tree to come down across Binford Avenue in Waynesboro. The winds were estimated between 35 to 50 mph by regional airports and cooperative stations. Some isolated power outages were also reported.

VAZ021-025>027-029>030-036>040-050>051-056 **Highland - Augusta - Rockingham - Shenandoah - Page - Warren - Nelson - Albemarle - Greene - Madison - Rappahannock - Orange - Culpeper - Spotsylvania**

24 **0400EST** **0** **0** **Dense Fog**
0900EST

Areas of dense fog occurred during the early morning of January 24.

VIRGINIA, Northwest

NONE REPORTED.

VIRGINIA, Southwest

VAZ007-009>020-022>024-032>035-043>045 **Tazewell - Smyth - Bland - Giles - Wythe - Pulaski - Montgomery - Grayson - Carroll - Floyd - Craig - Alleghany - Bath - Roanoke - Botetourt - Rockbridge - Patrick - Franklin - Bedford - Amherst - Henry - Pittsylvania - Campbell**

14 **0800EST** **0** **0** **High Wind (G53)**
1500EST

A cold front passed across Virginia in the early morning hours of the 14th. After sunrise, winds increased and very strong gusts during the day resulted in numerous reports of trees down, many power lines down, power outages, signs blown down or bent, and some structural damage from trees falling on buildings, and shingles being blown off roofs.

VAZ058 **Halifax**

15 **0700EST** **0** **0** **Flood**
1630EST

Heavy 24 hour rainfall totals in Patrick County Virginia on the 13th into the 14th of January ranged from roughly 2.5 to 3.75 inches. This amount of rain drained into the Dan River and brief minor flooding occurred downstream at South Boston in Halifax County. The Dan River at South Boston has a flood stage of 19 feet. The river crested at 19.48 feet at 13:00 EST on the 15th.

VAZ013 **Pulaski**

25 **0240EST** **0** **0** **High Wind (G50)**

In the wake of an exiting cold front, winds increased significantly in the early morning hours of the 25th.

WASHINGTON, Northeast

WAZ042 **East Slopes Northern Cascades**

05 **2000PST** **0** **0** **Landslide**

A debris flow on Highway 2, 8 miles east of Leavenworth, Washington blocked traffic for several hours. A two car, non-injury,

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

WASHINGTON, Northeast

accident occurred at the slide.

WAZ037>038 **Northeast Mountains - Okanogan Highlands**

	08	**1500PST**	**0**	**0**		**Winter Storm**
	11	**0400PST**				

A powerful Pacific storm brought heavy snow and wind to northeast Washington during the afternoon of the 8th through the early morning hours of the 11th. Many valley locations received 4 to 6 inches of new snow while the mountain locations received 10 to 20 inches. The strong winds caused many trees to fall with a few power outages being reported

Spokane County

Colbert to	**10**	**1800PST**	**0**	**0**		**Flood**
Nine Mile Falls	**12**	**1200PST**				

Whitman County

Oakesdale to	**10**	**1800PST**	**0**	**0**		**Flood**
Tekoa	**12**	**1200PST**				

A powerful Pacific storm brought heavy rain and snow melt to Whitman and Spokane Counties in Washington from the 10th through the 12th of January. Estimated basin rainfall of 0.75 to 1.50 inches caused Pine Creek to flood and close Highway 27 between Tekoa and Oakesdale in Whitman County. The Little Deep Creek near Colbert in Spokane County flooded and closed Dunn Road. The Little Spokane River in Spokane County flooded and caused some homes and parks along the river to become partially inundated

WAZ037>038 **Northeast Mountains - Okanogan Highlands**

	12	**1300PST**	**0**	**0**		**Winter Storm**
	14	**0400PST**				

WAZ043 **Okanogan Valley**

	13	**0400PST**	**0**	**0**		**Heavy Snow**
		1600PST				

A strong Pacific storm system brought heavy snow and strong winds to eastern Washington during the afternoon hours of the 12th through the early morning hours of the 14th. New snow of 7 to 12 inches was common across the mountains of eastern Okanogan, Ferry, Stevens and Pend Oreille Counties while 4 to 6 inches was reported in many valley locations. In the Okanogan Valley, 4 to 6 inches was mostly reported with the town of Okanogan receiving 7 inches of new snow

WAZ031-037>038-043>044 **Northeast Blue Mountains - Northeast Mountains - Okanogan Highlands - Okanogan Valley - Waterville Plateau**

	16	**0400PST**	**0**	**0**		**Heavy Snow**
	17	**1800PST**				

A Pacific storm system moved through the northern portions of eastern Washington during the morning hours of the 16th and into the daytime of the 17th. The storm brought heavy snow to the valleys and mountain areas with 4 inches being common to valley locations. Over the Waterville Plateau, 4 inches was also common with this storm. The northern mountains of Washington received 8 to 12 inches during the event while the northern Blue mountains received up to 15 inches of new snow.

Stevens County

Chewelah	**17**	**0600PST**	**0**	**0**	**20K**	**Flood**
	19	**1700PST**				

Heavy rains over the past week flooded all of the classrooms and the school library on the east end of the Chewelah High School causing 20,000 dollars worth of damage.

WAZ037 **Northeast Mountains**

	19	**1500PST**	**0**	**0**		**Heavy Snow**
	20	**1600PST**				

A Pacific storm system moved through the northeast portions of eastern Washington during the afternoon of the 19th and into the day of the 20th. The storm brought 4 to 8 inches of new snow to the valley locations with 4 inches being reported at Diamond Lake while Clayton received 8 inches. The mountain locations received 8 to 12 inches of new snow with this storm.

WAZ037>038-042>044 **Northeast Mountains - Okanogan Highlands - East Slopes Northern Cascades - Okanogan Valley - Waterville Plateau**

	27	**1600PST**	**0**	**0**		**Winter Storm**
	30	**1600PST**				

A series of powerful Pacific storm systems moved through eastern Washington from the afternoon of the 27th through the day of the 30th. The mountain locations along the east slopes of the Cascades received 15 to 30 inches of new snow, while the Okanogan Highlands and Northeast Washington mountains received 12 to 20 inches. The east slopes of the Cascade valleys received 12 to 20 inches of new snow, while the Okanogan Highland and Northeast Washington valleys received 5 to 8 inches of new snow. The Okanogan Valley and the Waterville Plateau received 4 to 7 inches of new snow with these storms.

WAZ042>043 **East Slopes Northern Cascades - Okanogan Valley**

	31	**0400PST**	**0**	**0**		**Winter Storm**
		2359PST				

A winter storm system moved through the east slopes of the Cascades and the Okanogan Valley during the day of the 31st and into the early morning hours of February 1st. For the valleys along the east slopes of the Cascades, at least 6 to 12 inches of new snow fell with this storm with the town of Mazama receiving 12 inches. The Okanogan Valley received 4 to 6 inches of new snow.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
WASHINGTON, Northwest									
WAZ016	**Central Coast**								
	01	**1000PST**			**0**	**0**	**20K**		**High Wind (G52)**
		1400PST							
	About 2500 people lost power in Grays Harbor County								
Clallam County									
Countywide	**05**	**0000PST**			**0**	**0**	**600K**		**Heavy Rain**
	14	**0000PST**							
Grays Harbor County									
Countywide	**05**	**0000PST**			**0**	**0**	**2.9M**		**Heavy Rain**
	14	**0000PST**							
Jefferson County									
Countywide	**05**	**0000PST**			**0**	**0**	**700K**		**Heavy Rain**
	14	**0000PST**							
King County									
Countywide	**05**	**0000PST**			**0**	**0**	**800K**		**Heavy Rain**
	14	**0000PST**							
Kitsap County									
Countywide	**05**	**0000PST**			**0**	**0**	**700K**		**Heavy Rain**
	14	**0000PST**							
Lewis County									
Countywide	**05**	**0000PST**			**0**	**0**	**50K**		**Heavy Rain**
	14	**0000PST**							
Mason County									
Countywide	**05**	**0000PST**			**0**	**0**	**700K**		**Heavy Rain**
	14	**0000PST**							
Pierce County									
Countywide	**05**	**0000PST**			**0**	**0**	**100K**		**Heavy Rain**
	14	**0000PST**							
Skagit County									
Countywide	**05**	**0000PST**			**0**	**0**	**20K**		**Heavy Rain**
	14	**0000PST**							
Thurston County									
Countywide	**05**	**0000PST**			**0**	**0**	**200K**		**Heavy Rain**
	14	**0000PST**							
	The Governor declared a state of emergency after rain, at times heavy, over a period of about 10 days, caused over 7 million in damage, mainly to transportation infrastructure throughout western Washington. Mudslides closed parts of I-5 near the Pierce-Thurston county line, part of Highway 20 about a half mile east of Concrete, Highway 107 near Raymond, and Highway 166 near Port Orchard - where 3 cars crashed in the mud. In Bremerton, they totaled 16.2 inches of rainfall in 3 weeks, an amount which normally falls in 2 months. Mudslides halted Amtrak passenger train service between Everett and Olympia. In King County, there were 19 road closures from water over the roadway. Many homes had flooded basements or crawlspaces								
WAZ002	**Western Whatcom**								
	07	**1430PST**			**1**	**0**			**Strong Wind**
		1530PST							
	A 5 year old girl died while hiking near Lake Whatcom, when a tree branch fell on her. F5OU								
Clallam County									
Countywide	**28**	**0600PST**			**0**	**0**	**300K**		**Heavy Rain**
	30	**0600PST**							
Thurston County									
Olympia	**28**	**0600PST**			**0**	**0**	**30K**		**Heavy Rain**
	30	**0600PST**							
	Highway 112 in west Clallam county, had damage to 8 different locations on the roadway. Port Angeles's Harbor Town Mall was also damaged by up to two feet of water in their downstairs offices. About a half dozen homes in the Olympia area had flooded basements after weekend rains of nearly 3 inches.								
Thurston County									
5 SE Lacey	**28**	**1430PST**	**0.5**	**90**	**0**	**0**			**Tornado (F0)**
		1432PST							
	On the ground for less than 2 minutes.								
WAZ002-015	**Western Whatcom - North Coast**								
	31	**1500PST**			**0**	**0**	**40K**		**High Wind (G60)**
		2100PST							

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

WASHINGTON, Northwest

About 10,000 customers lost power around Forks and Bellingham. 3 cars were damaged when trees fell on them.

WASHINGTON, Southeast

WAZ028 **Lower Columbia Basin**

11 0015PST 0 0 High Wind (G57)
0330PST

Several stations on Hanford Mesonet reported wind gusts between 52 and 57 knots.

WAZ502 **East Slopes Of The Southern Cascades**

16 1355PST 0 0 Heavy Snow
17 0311PST

6 inches 18NW Appleton; 8 inches 1 NW Glenwood.

WAZ501 **East Slopes Of The Central Cascades**

17 0400PST 0 0 Heavy Snow
0800PST

10 inches in 24 hours at Roslyn 3WSW.

WAZ501 **East Slopes Of The Central Cascades**

20 0600PST 0 0 Heavy Snow
1200PST

10 inches in 18 hours at Roslyn 9NW.

WAZ502 **East Slopes Of The Southern Cascades**

28 0700PST 0 0 Heavy Snow
2000PST

10 inches overnight at Trout Lake.

WAZ502 **East Slopes Of The Southern Cascades**

29 1915PST 0 0 Heavy Snow
30 1500PST

9 inches snow in 4 hours at Roslyn 9NW. Storm total of 14 inches.

WAZ502 **East Slopes Of The Southern Cascades**

31 2145PST 0 0 Heavy Snow
2359PST

10 inches in 8 hours at Appleton 16N.

WASHINGTON, Southwest

WAZ021 **South Coast**

01 0800PST 0 0 High Wind (G51)
1800PST

A strong low pressure system moving northward just off the Washington Coast caused high winds. Cape Disappointment reported a gust to 59 mph.

Cowlitz County
Kelso **10 0000PST 0 0 Flood**
14 2200PST

Cowlitz County
Longview **10 0000PST 0 0 Flood**
14 2200PST

Pacific County
Willapa **10 0000PST 0 0 Flood**
14 2200PST

A series of wet Pacific storms brought heavy rains to the area, causing flooding and damage. Here is a list of rivers that flooded during this event: Cowlitz River at Kelso, Columbia River at Longview, and Willapa River near Willapa.
Flooding also brought widespread damage to southwest Washington. Low-lying areas and agricultural lands saw the most damage, while multiple road closures were due to flooding over local roads.
Also during this event, Washington Governor Christine Gregoire declared a state of emergency in 12 Washington counties.

WAZ019 **West Slopes Southern Cascades And Passes**

19 2200PST 0 0 Winter Storm
20 1400PST

A moisture-laden Pacific storm brought heavy snowfall to the Cascades of southwest Washington. Some snow totals reported with this storm are:
June Lake: 20"
Spencer Meadows: 17"
Sheep Canyon: 16"
Swift Creek: 16"

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

WASHINGTON, Southwest

WAZ019 — **West Slopes Southern Cascades And Passes**

	28	0400PST 1800PST		0	0		Winter Storm

A relatively strong, moisture-laden storm brought heavy snow the southwest Washington Cascades. Some snow accumulations with this storm are: Spencer Meadows at 19"; Lone Pine at 17"; and Swift Creek at 14".

Cowlitz County

Kelso	29 31	0000PST 2359PST		0	0		Flood

Cowlitz County

Longview	29 31	0000PST 2359PST		0	0		Flood

Pacific County

Willapa	29 31	0000PST 2359PST		0	0		Flood

WAZ021 — **South Coast**

	29 31	0000PST 1200PST		0	0		Coastal Flood

A strong, moisture-laden storm brought heavy rains to the area, causing flooding and damage. Here is a list of rivers that flooded during this event: Cowlitz River at Kelso, Columbia River at Longview, and Willapa River near Willapa.
Flooding also brought widespread damage to southwest Washington. Low-lying areas and agricultural lands saw the most damage, while multiple road closures were due to flooding over local roads.
This event also brought high surf and coastal flooding along the southwest Washington coastline. There was significant damage reported near North Cove, WA at Washaway Beach, where some homes and stretches of roads were washed out to sea.

WAZ019 — **West Slopes Southern Cascades And Passes**

	31	0700PST 2200PST		0	0		Winter Storm

A moisture-laden storm brought heavy snow to the Cascades of southwest Washington. During the event, anywhere between 10 and 16 inches of new snow accumulations were received in areas above 4500 feet.

WEST VIRGINIA, East

WVZ052>053 — **Berkeley - Jefferson**

	12	0300EST 0730EST		0	0		Dense Fog

Areas of dense fog occurred early in the morning of January 12 across the region.

Jefferson County

Kabletown	14	0115EST		0	0	100K	Thunderstorm Wind (G60)

Information gathered in local newspaper reports indicated that a farm sustained significant damage due to severe level thunderstorm winds overnight. Wooden foundation beams were destroyed and blown down with significant damages to farm equipment and outbuildings. The farm was located near Kabletown, WV.
A major low pressure system moved from the Middle Ohio Valley on the afternoon of January 13 to the Mid Atlantic during the overnight. A strong cold front passed through the region overnight and spawned scattered thunderstorms with a few of those reaching severe limits across areas of Northern Virginia. One report was also received from Jefferson County, WV, of damaging wind gusts causing property damage.

WVZ048>055 — **Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy**

	14	1800EST 2200EST		0	0	640K	High Wind (G50)

Very strong winds developed on the 14th due to a strengthening low pressure system off the Mid Atlantic Coast and a fast moving cold front that passed through the region early in the day. Widespread damages and power outages occurred during this event, with newspaper reports indicating tens of thousands without power for an extended period of time.

WVZ048>049-054>055 — **Grant - Mineral - Pendleton - Hardy**

	24	0400EST 0900EST		0	0		Dense Fog

WVZ048>049 — **Grant - Mineral**

	25	0800EST 1000EST		0	0		Heavy Snow

Weather conditions were favorable for considerable mountain snows on the 25th. Northwest winds combined with a substantial amount of moisture to cause prolonged snow showers, which were heavy at times early in the day. Total accumulations up to about a foot occurred, with the highest totals in the higher elevations, such as at Keysers Ridge in Allegany County, and Skyline in Mineral County.

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

WEST VIRGINIA, North

WVZ023-041 **Preston - Tucker**

25 1000EST 0 0 Heavy Snow
26 0400EST

Snow began just after midnight on the 25th. The first 6 inches accumulated by 10 AM on 25th. By the time it ended, Terra Alta and Horse Shoe Run received 10.5 inches of snow; Davis and Canaan Valley accumulated 16 to 20 inches.

WEST VIRGINIA, Southeast

WVZ045 **Greenbrier**

25 1800EST 0 0 Heavy Snow
26 1000EST

Heavy snow occurred across the western half of Greenbrier County in the preferred higher slopes of the county during the 16 hour period. Specific storm total amounts included 18 inches in Quinwood, 16 inches in Lile, 12 inches in Clearco, 12 inches in Duo, 10 inches in McRoss, 9 inches in Williamsburg, and 7 inches in Crawley.

WEST VIRGINIA, West

Upshur County

Sago **02 0625EST 0 0 Lightning**
0630EST

An underground explosion occurred at the Sago Coal Mine. A warm front was pushing through West Virginia at the time, triggering showers and rare early morning January thunderstorms. Predawn temperatures were in the 40s. Sensors from the National Lightning Detection Network indicated a few cloud to ground strikes in the vicinity. A strong positively charge bolt occurred around 0626E, followed a few seconds later by a minor seismic event. Local residents reported that their houses shook. The U.S. Geological Survey Advanced National Seismic System sensor at Mont Chateau along Cheat Lake near Morgantown, recorded the event most clearly.

The initial underground blast may have killed one coal miner. Twelve other miners were trapped in the mine after the explosion. Eleven of those miners were likely asphyxiated by carbon monoxide, as they waited to be rescued. One of the younger miners survived more than 36 hours in the mine, and was hospitalized.

Lightning was being investigated as the most likely cause of the initial ignition. If so, then 12 deaths can be indirectly attributed to lightning. However, as of early February, the investigation was still ongoing, and the final determination of the cause had not been determined.

There have been cases in the past, where lightning energy was transferred into underground coal mines, and caused seals from worked out areas to blow.

WVZ036>040-046>047 **Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph**

24 2200EST 0 0 Winter Weather/Mix
25 2200EST

A brief intrusion of cold air during a mild January, caused upslope snow showers. Accumulations of 2 to 6 inches were widespread, causing school delays and a few closures. Elkins had a 4 inch snow accumulation. However, across the highest elevations, around a foot of snow was deposited. Snowshoe had a 13 inch snow depth, while Kumbrabow State Forest measured 14 inches.

WISCONSIN, Northeast

NONE REPORTED.

WISCONSIN, Northwest

WIZ001 **Douglas**

19 0900CST 0 0 Heavy Snow
1400CST

In near four hours a narrow band of six to eight inches of snow fell in the north half of Pine County in Minnesota and across the south third of Douglas County in Wisconsin. Snow began between 9 and 10AM local time and lasted through most of the day, however the accumulating snow ended around 2PM.

WIZ004 **Iron**

24 0400CST 0 0 Lake-Effect Snow
25 0500CST

Six to fourteen inches of snow fell across the north half of Iron County with Gile and Montreal receiving 14", Hurley receiving 8", and Upson receiving 6.5. Snow began to fall around 4:00 AM on the 24th and lasted until 5:00 the next morning. Strong winds blowing at over 30 mph also occurred, creating white-out conditions

WISCONSIN, Southeast

WIZ065>066-070>072 **Waukesha - Milwaukee - Walworth - Racine - Kenosha**

03 2030CST 0 0 Dense Fog
2359CST

Dense fog developed over the southeast corner of Wisconsin during the evening hours, resulted in delays or cancellation of airline

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

WISCONSIN, Southeast

flights from Milwaukee's Mitchell Field (Milwaukee Co.), and other local airports. Visibilities were reduced to 1/8 to 1/4 mile. The dense fog was a result of a moist south-southeast flow off of Lake Michigan with air temperatures and dewpoints of 38 to 40 degrees F.

WIZ070>072 **Walworth - Racine - Kenosha**

20 1930CST 0 0 Heavy Snow
21 0300CST

Heavy snow fell over the southeast corner of Wisconsin during the evening and overnight hours. Maximum snow amounts were 8.5 inches in Genoa City (Walworth Co.), 7.0 inches in Kenosha (Kenosha Co.), and 6.1 to 6.5 inches over southern Racine County from Burlington to Union Grove to south of the city of Racine. Numerous vehicle accidents were reported and many vehicles slid into roadside ditches. Accumulating snow started about 1600CST on the 20th when visibilities fell below 2 miles, and around 1900CST on the 20th, visibilities briefly dropped to 1/4 to 1/2 mile in moderate to heavy snowfall intensity. Over the remainder of south-central and southeast Wisconsin, generally 3 to 5 inches fell. Greater snowfall totals were observed in the northern Chicago suburbs where 10 to 12 inches were measured. The responsible low pressure tracked east-northeast across central Illinois.

WIZ046>047-051>052-056>060-062>072 **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

24 0900CST 0 0 100K Strong Wind
2100CST

Strong post, cold-frontal northwest winds, gusting to 39 to 44 knots (45 to 51 mph), affected south-central and southeast Wisconsin. Scattered power outages were noted due to broken tree branches hitting power-lines. Some of the broken tree branches littered road surfaces, and the usual garbage cans across the street idea prevailed.

WISCONSIN, Southwest

NONE REPORTED.

WISCONSIN, West

NONE REPORTED.

WYOMING, Central and West

WYZ002-012>014-023>027 **Absaroka Mountains - Teton & Gros Ventre Mountains - Jackson Hole - Wind River Mountains West - Star Valley - Salt River & Wyoming Ranges - Upper Green River Basin Foothills - Upper Green River Basin - South Lincoln County**

02 0900MST 0 0 Winter Storm
03 1200MST

A strong storm system pushed into western Wyoming from the Great Basin during the morning of January 2nd and continued through noon on the 3rd. Snowfall amounts totaled 1 to 2 feet in elevations above 8000 feet. Western valley and basin locations received lighter amounts of 6 to 12 inches. Mountain-top winds approached 35 mph during the event reducing visibilities to near zero at times over mountain passes.

WYZ012 **Teton & Gros Ventre Mountains**

05 1320MST 1 1 Avalanche

An avalanche broke on a 40-degree slope of Taylor Mountain and ran for one mile down 2,000 vertical feet killing one skier and injuring another. The injured skier survived by swimming through the snow and keeping his hands above the snow as the avalanche carried him down the east slope of Taylor Mountain. The avalanche debris covered approximately 40 acres in the Taylor Mountain/Coal Creek Drainage. F1OU

Storm Data and Unusual Weather Phenomena

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

WYOMING, Central and West

WYZ003-019>020 **Cody Foothills - Green Mountains & Rattlesnake Range - Natrona County Lower Elevations**

09	**2100MST**	**0**	**0**	**50K**		**High Wind (G70)**
10	**2000MST**					

Wind gusts measuring 60 to 70 knots (70 to 80 mph) were recorded by Remote Automated Weather Stations and other automated equipment on the night of the 9th through the afternoon of the 10th. One mobile home was significantly damaged after it rolled while in transport along Highway 220 southwest of Casper.

WYZ003-019>020 **Cody Foothills - Green Mountains & Rattlesnake Range - Natrona County Lower Elevations**

11	**0203MST**	**0**	**0**			**High Wind (G93)**
	0400MST					

A mountain wave event produced extreme winds gusting to 93 knots (107 mph) across the Cody Foothills. A roof was ripped of a log home 5 miles west of the community of Clark. Additional damage approximately 7 miles west of Clark included a garage blown down, trees blown down, an empty horse trailer blown over, and shingles torn from the roof of a home.

Additional strong winds approaching 60 knots (69 mph) were experienced across the favored wind corridor from the Green Mountains through Casper. No damage was reported from these winds.

WYZ001-012>013-023>024 **Yellowstone National Park - Teton & Gros Ventre Mountains - Jackson Hole - Star Valley - Salt River & Wyoming Ranges**

30	**0000MST**	**0**	**0**			**Winter Storm**
31	**0400MST**					

A strong upper-level storm system pummelled extreme western Wyoming with significant snowfall accumulations. The western valleys generally received 4 to 7 inches. Meanwhile the mountains of western Wyoming received generally 12 to 22 inches of new snow accumulation. Strong westerly winds approaching 35 mph at mountain-top combined to make travel treacherous across mountain passes throughout the event.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

NONE REPORTED.

WYOMING, Southeast

NONE REPORTED.

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

Additions/Corrections

GEORGIA, North and Central

Harris County

Countywide 06 1545EST 1645EST 0 0 3K **Thunderstorm Wind (G50)**

The Harris County 911 Center reported that several trees were down scattered throughout the county, including one tree that was blown down in downtown Hamilton.

Troup County

Hogansville 06 1615EST 0 0 **Hail (0.75)**

The Troup County 911 Center reported penny-sized hail.

Heard County

Glenn to Aubrey 06 1630EST 1645EST 0 0 8K **Thunderstorm Wind (G50)**

The Heard County Emergency Management Director reported that several trees were down between Glenn and Aubrey, along Glenn Road, and along Georgia Highway 34 between Glenn Road and Georgia Highway 219. The West Georgia Beacon of Hogansville reported that a number of trees and power lines were down throughout the county, but the worst damage was along Georgia Highway 34 in the southern part of the county between Glenn and Franklin. The public reported that some of the worst damage was in the Hillabahatchee Creek area southwest of Franklin. In this area, there was also a carport that was destroyed when a tree fell on the structure.

Meriwether County

2 N Durand 06 1715EST 0 0 1K **Thunderstorm Wind (G50)**

The Meriwether County 911 Center reported several trees down along Harry Hardy Road. Funnel clouds were also sighted in Durand and Greenville.

Stewart County

Brooklyn 06 1715EST 0 0 1K **Thunderstorm Wind (G35)**

Georgia Power reported that a power line was down near Brooklyn.

Meriwether County

1 S Rocky Mt to .8 SSE Rocky Mt 06 1730EST 1731EST 0.3 100 0 0 25K **Tornado (F0)**

A National Weather Service damage survey team confirmed that a weak F0 tornado briefly touched down one mile south of Rocky Mount in northern Meriwether county. The tornado had a path length of one-quarter mile and a path width of 100 yards. The tornado blew down a number of trees in the area, causing damage to two homes and one vehicle. Several outbuildings were also damaged by the tornado.

Coweta County

Moreland to Senoia 06 1750EST 0 0 1K **Thunderstorm Wind (G35)**

The Coweta County 911 Center reported that around five trees were blown down scattered between Senoia and Moreland near U.S. Highway 29.

Harris County

Hamilton to 2 E Pine Mtn 06 1800EST 0 0 25K **Thunderstorm Wind (G50)**

A former National Weather Service employee reported that many trees were blown down two miles east of Pine Mountain. A home in this area was also damaged by the downed trees. The Harris county 911 center reported that several trees were down between Hamilton and Pine Mountain.

Fayette County

Peachtree City to Fayetteville 06 1815EST 1825EST 0 0 5K **Thunderstorm Wind (G50)**

The Fayette County 911 Center reported that about 9 trees were down between Peachtree City and Fayetteville.

Troup County

La Grange 06 1815EST 0 0 0.50K **Thunderstorm Wind (G39)**

The Troup County 911 Center reported that a couple of trees were blown down at a private residence. No damage was reported to the adjacent home.

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

Additions/Corrections

GEORGIA, North and Central

Meriwether County

Allie	**06**	**1846EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G50)**

The Meriwether County 911 Center reported that several, six to nine, trees were down five miles north of Greenville.

Clayton County

Countywide	**06**	**1900EST** **1930EST**			**0**	**0**	**1K**		**Thunderstorm Wind (G50)**

The Clayton County 911 Center reported that at least six trees were blown down in different areas scattered about the county. Some power lines were also down as a result.

Fulton County

Fairburn to Union City	**06**	**1955EST** **2005EST**			**0**	**0**	**5K**		**Thunderstorm Wind (G50)**

The Fulton County 911 Center reported that several power lines were down in the south end of the county. One tree was also down, but the main problem was downed power lines.

Pike County

Concord to Hollonville	**06**	**1955EST** **2000EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G56)**

The public and the Pike County 911 Center reported that strong thunderstorm winds blew down several trees, 10 or more, in the area between Concord and Hollonville on Pryer and River Roads. The public reported that two outbuildings were completely moved from their foundation.

Carroll County

Villa Rica	**06**	**2000EST** **2100EST**			**0**	**0**	**5K**		**Heavy Rain**

The Douglas Neighbor reported that torrential rainfall from thunderstorms associated with the remnants of Tropical Storm Cindy resulted in a sinkhole on Tyson Road in Villa Rica. A truck drove into the sinkhole and was trapped there for several hours before it was removed.

Coweta County

3 N Haralson	**06**	**2000EST**	**0.1**	**50**	**0**	**0**	**1K**		**Tornado (F0)**

A damage survey conducted by the National Weather Service of Peachtree City concluded that an F0 tornado had very briefly touched down along Georgia Highway 85, three miles north of Haralson. Damage was minor and consisted entirely of downed trees. The tornado path length was 100 yards and the path width was 50 yards.

Fayette County

3 NW Fayetteville	**06**	**2000EST**			**0**	**0**	**250K**		**Heavy Rain**

The Fayette County Emergency Management Director reported that heavy rain caused the roof of a rotunda on a home to collapse causing extensive damage to the structure. A gas station canopy on Georgia Highway 54 also collapsed because of the weight from heavy rain. Heavy rain also resulted in a sewage spill from a manhole in the Willowbend area near Peachtree City's city hall.

Fayette County

Peachtree City to 3 N Fayetteville	**06**	**2000EST** **2300EST**			**1**	**0**	**163K**		**Flash Flood**

The Fayette County Emergency Management Director reported that flash flooding occurred in some areas of Peachtree City in particular. Rainfall of five inches or more was common across much of the county between 7 pm and 10 pm EDT, especially the western and northern sections. Several homes were flooded in Peachtree City as well as in unincorporated rural areas of Fayette county between Peachtree City and Fayetteville. An 18-year old male was swept to his death in a flooded drainage ditch in Peachtree City near the Tinsley Mills apartments just east of the intersection of Georgia Highways 54 and 74. The Atlanta Journal-Constitution reported that several motorists became stranded on some streets in Peachtree City and Fayetteville as roads became flooded and impassable. M18IW

Spalding County

2 N Blantons Mill to 1 W Zetella	**06**	**2006EST**			**0**	**0**	**3K**		**Thunderstorm Wind (G50)**

An off duty National Weather Service employee from Peachtree City, Georgia observed that numerous trees were twisted off in the general area around the Flint River and Georgia Highway 16.

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

Additions/Corrections

GEORGIA, North and Central

Fayette County

2 SE Fayetteville to 2 ESE Fayetteville	**06**	**2010EST 2012EST**	**1**	**440**	**0**	**0**	**2.0M**		**Tornado (F0)**

A National Weather Service damage survey team determined that an F0 tornado touched down approximately two miles southeast of Fayetteville near Hilo Road and traveled on the ground approximately one mile to the north, terminating near Jeff Davis in southeast Fayetteville. Hundreds of trees were blown down, twisted, and uprooted along the path of the tornado, many causing damage to dozens of homes and vehicles. Trees fell through the roof of several homes. A couple of businesses in southeast Fayetteville reported extensive damage, with the roof blown off one building on Highway 85 Parkway. The tornado combined with other thunderstorm wind events in the county during the evening resulted in up to 50 percent of the county being without power for several hours during the evening. The tornado path length was determined to be one mile and the path width one-quarter mile.

Fayette County

Woolsey to Fayetteville	**06**	**2010EST**			**0**	**0**	**25K**		**Thunderstorm Wind (G50)**

The Fayette County Emergency Management Director, the public, and amateur radio operators reported that several trees were down in areas outside the confirmed tornado touchdown area. Trees were down near the Harp Nursery between Hilo Road and Woolsey and other trees were down on Georgia Highway 54, some on homes. In the Woolsey area, a chicken coop was destroyed and lawn furniture was tossed about.

Coweta County

East Portion	**06**	**2014EST 2145EST**			**0**	**0**	**25K**		**Flash Flood**

The Coweta County Public Works Department reported that a paved county road in the eastern portion of the county was significantly damaged by flash flooding associated with Tropical Storm Cindy. When Hurricane Dennis came along on the 11th, the road was then washed out. The Times/Herald of Newnan reported that Georgia Highway 16 was closed when water washed out a culvert on the road. Water rose to a 1 1/2 feet deep in some buildings in the eastern and southern portion of the county.

Clayton County

Countywide	**06**	**2023EST 2300EST**			**0**	**0**	**25K**		**Flash Flood**

The Rockdale Citizen reported that several roads were washed out in the county. Rainfall across the county ranged from two to four inches during the evening hours.

Fulton County

3 SW Atlanta to 7 NNE Atlanta	**06 07**	**2023EST 0100EST**			**0**	**0**	**5K**		**Flash Flood**

Rainfall of four to six inches fell across much of the Atlanta Metropolitan area between 6 pm and 11 pm EDT. Official National Weather Service river gages showed that Peachtree Creek in north Atlanta reached its flood stage of 17 feet at 1020 pm EDT and Proctor Creek in southwest Atlanta reached its flood stage of 11 feet at 923 pm EDT. Peachtree Creek crested at 19.1 feet, over two feet above flood stage, at 115 am EDT July 7th. Proctor creek also rose above its flood stage and crested at 13.4 feet at 1015 pm EDT, which is over two feet above flood stage. Flooding of nearby roads and property occurs when these stages are reached, especially the 19 foot flood stage on Peachtree Creek which impacts several roads, a golf course, and several homes in the area. Repeated rounds of thunderstorms between 7 pm and 10 pm resulted in additional flooding of several streets in the Atlanta area. Atlanta's Hartsfield-Jackson International Airport recorded 5.14 inches of rain for the day, the sixth largest one-day rainfall total recorded at the location.

Clayton County

Countywide	**06**	**2040EST 2140EST**			**0**	**0**	**25K**		**Thunderstorm Wind (G52)**

The Clayton County 911 Center reported that several trees, probably more than a dozen, were down across the county.

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

Additions/Corrections

GEORGIA, North and Central

Henry County

2 W Hampton to 3 NNW Hampton	**06**	**2045EST 2104EST**	**9**	**880**	**0**	**0**	**70M**		**Tornado (F2)**

A National Weather Service damage survey confirmed an F2 tornado, the strongest tornado of the evening associated with the remnants of Tropical Storm Cindy, touched down just a few hundred yards south of McDonough Street at the Atlanta Motor Speedway then traveled north-northwest passing just east of Lovejoy in Clayton county, then across the Edgar Blalock Raw Water Reservation, at which point it turned northwest and finally passed into Clayton county before lifting near Jodeco Road. The tornado center line crossed the western bank of the race track then across Tara Field just west of the race track. Damages to the Atlanta Motor Speedway, including several condominiums at the facility, and the Tara Field Airport just west of the Atlanta Motor Speedway were estimated at $40,000,000. Eleven planes and five vintage helicopters were heavily damaged at Tara Field. Nearby a Chevron auto service station was destroyed. Damage between these facilities and the Clayton county line was confined mainly to trees and power lines. The tornado had a path length of nine miles tracking across western Henry and a small portion of eastern Clayton county. The tornado initially had a path width of 1/2 mile, then narrowed as it moved north-northwest. It was determined that the tornado had winds of 120 mph. Electrical power was out in much of the county throughout the night as a result of the damage in the area. All together during the evening, 229 homes in the county had minor damage from thunderstorm winds and/or tornadoes, with 61 homes suffering major damage. In addition, the steeple at Kelly Chapel fell to the ground.

Henry County

1 W Mc Donough to .5 W Mc Donough	**06**	**2055EST**	**0.5**	**200**	**0**	**0**	**150K**		**Tornado (F0)**

A damage survey conducted by the National Weather Service in Peachtree City, Georgia concluded that another tornado had touched down in Henry county. This time, an F0 tornado touched down approximatly one mile west of McDonough near Interstate-75 and travelled north for approximately 1/2 mile causing moderate structural damage to a church and several homes in the area. A number of trees and power lines were also blown down in the area. The path width of the tornado was about 200 yards.

De Kalb County

Decatur	**06**	**2100EST 2315EST**			**0**	**0**	**5K**		**Flash Flood**

The DeKalb County 911 Center reported that several rounds of thunderstorms had dumped between four and six inches of rain across much of the county. Significant street flooding was reported in the Decatur area. Flooding was reported along both the north and south forks of Peachtree Creek in DeKalb county near the Fulton county border. The North Fork of Peachtree Creek crested at 13.4 feet at 1230 am EDT, which is 1.4 feet above flood stage. The South Fork of Peachtree Creek crested at 13.9 feet at 1230 am EDT, which is 1.9 feet above flood stage. Both branches of Peachtree Creek are in the western portion of the county as they flow into Peachtree Creek which continues into Fulton county. The main branch of Peachtree Creek rose to 19 feet at 115 am EDT, well above its flood stage of 17 feet. Several roadways, a golf course, and low lands along these creeks are flooded in these situations, but no serious damage resulted from this flooding.

Henry County

4 NE Mc Donough to 7 NE Blacksville	**06**	**2100EST**	**7**	**300**	**0**	**0**	**25K**		**Tornado (F1)**

A damage survey conducted by the National Weather Service in Peachtree City, Georgia confirmed a third tornado touch down in Henry county. This tornado was rated an F1. The tornado travelled on the ground for a distance of approximately seven miles terminating near the South River and the Rockdale county line. The tornado travelled largely through rural areas and as such damage was confined mainly to trees and power lines in the area. The path width for the tornado was approximately 300 yards wide.

Henry County

Stockbridge	**06**	**2103EST 2105EST**			**0**	**0**	**150K**		**Thunderstorm Wind (G52)**

The public reported that many trees were down, several causing damage to homes, along Walt Stevens Road. Amateur radio operators also reported damage to several cars from fallen trees at a Golden Corral at the intersection of Interstate-75 and Georgia Highway 138.

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

Additions/Corrections

GEORGIA, North and Central

Clayton County

4 NNE Lovejoy to 5 ESE Jonesboro | **06** | **2104EST** to **2107EST** | **1** | **100** | **0** | **0** | **1.5M** | **Tornado (F1)**

This tornado is a continuation of the F2 tornado that began near the Atlanta Motor Speedway just west of Hampton in Henry county, then continued north-northwest passing just east of Lovejoy in Clayton county, then across the Edgar Blalock Raw Water Reservation, at which point it turned northwest and finally entered Clayton county just west of the Edgar Blalock Raw Water Reservation. The tornado traveled approximately one mile to the north-northwest in Clayton county, finally lifting near Jodeco Road southeast of Lake Spivey. The tornado had weakened and narrowed by the time it entered Clayton county. However, it was still rated as an F1 with a path width of about 100 yards. The Clayton County Emergency Management Director reported that 50 homes in the Kade Cove subdivision of Lovejoy sustained damage, 20 of which had major structural damage. Many trees and power lines were down in the area. Power was also out to much of the county.

Cherokee County

Countywide | **06** | **2111EST** to **2127EST** | **0** | **0** | **2K** | **Thunderstorm Wind (G50)**

The Cherokee Tribune reported that several trees were blown down in scattered areas throughout the county.

Rockdale County

Conyers | **06** | **2117EST** to **2133EST** | **0** | **0** | **50K** | **Lightning**

The Rockdale Citizen of Conyers reported that two structures were struck and set on fire by lightning. Damage was minor to moderate.

Rockdale County

Countywide | **06** | **2117EST** to **2133EST** | **0** | **0** | **150K** | **Thunderstorm Wind (G56)**

The Rockdale County 911 Center reported that an extensive number of trees were down across the county. Several trees were down on homes in Conyers, causing damage to the structures. Much of the damage was done in the Lost Valley subdivision. The Rockdale Citizen of Conyers reported extensive wind damage throughout the county.

Newton County

Countywide | **06** | **2200EST** to **2225EST** | **0** | **0** | **250K** | **Thunderstorm Wind (G56)**

An amateur radio operator reported that numerous large trees were blown down around the Burt Adams Boy Scout Camp off Georgia Highway 36 about four miles south of Covington. Power was also out throughout the area. The Newton County 911 Center reported that a number of trees and power lines were down throughout the county, but the worst damage was also in the southern part of the county from just north of Stewart to the Boy Scout Camp south of Covington. The Newton Citizen reported that there was extensive damage to trees and at least a dozen homes around the county. The worst damage occurred on Flat Shoals Road where several homes sustained damage, with one home on the street sustaining extensive damage when a large tree fell on the home. At Little Springs Farm, extensive damage was reported with two vehicles destroyed, three others damaged, and damage to three homes and six barns on the property. At least 20,000 residents of the county were left without power during the storm.

Rockdale County

Countywide | **06** | **2244EST** to **07** | **0200EST** | **0** | **0** | **150K** | **Flash Flood**

The Rockdale Citizen reported that torrential rainfall resulted in at least two roads being washed out. Portions of Flat Shoals Road and McDaniel's Mill Road were washed out.

Gwinnett County

Lawrenceville | **06** | **2303EST** to **07** | **0200EST** | **0** | **0** | **5K** | **Heavy Rain**

The Gwinnett Daily-Post of Lawrenceville reported that heavy rain, associated with the remnants of Tropical Storm Cindy, caused a sinkhole to form under a driveway at a private residence. The driveway subsequently collapsed.

Madison County

Countywide | **07** | **0330EST** to **0730EST** | **0** | **0** | **150K** | **Flash Flood**

The Madison County 911 Center reported flash flooding in several parts of the county. Several roads were washed out, including Danielsville Road in Comer at Georgia Highway 98, Jay Davis Road in the eastern portion of the county, and Peach Orchard Road in the central portion of the county. Repeated rounds of very heavy tropical rain associated with the remnants of tropical storm Cindy tracked across the county starting just before midnight and ending around 7 am EDT. Rainfall averaged four to six inches across much of the county during this period.

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

Additions/Corrections

GEORGIA, North and Central

Oglethorpe County

Smithonia	**07**	**0333EST** **0339EST**			**0**	**0**	**10K**		**Thunderstorm Wind (G52)**

The Athens Banner-Herald and the public reported that thunderstorm winds blew down a large swath of trees in the Smithonia area and between there and Georgia Highway 22. Two barns were destroyed and two homes sustained minor, mostly roof, damage. Some of the downed trees were uprooted while others were twisted and sheared or snapped off.

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

Additions/Corrections

IDAHO, North

Idaho County

Grangeville to Fenn	**01**	**1630PST 1645PST**			**0**	**0**			**Hail (0.75)**

Idaho County

Grangeville	**01**	**1630PST**			**0**	**0**			**Thunderstorm Wind (G58)**

Idaho County

12 E Kooskia	**01**	**1635PST**			**0**	**0**			**Hail (1.25)**

Idaho County

Clearwater	**01**	**1638PST**			**0**	**0**			**Hail (1.00)**

Idaho County

Grangeville to Fenn	**01**	**1640PST**			**0**	**0**	**13K**		**Thunderstorm Wind (G80)**

Idaho County

Fenn	**01**	**1645PST**			**0**	**0**	**25K**		**Thunderstorm Wind (G70)**

Strong summer storm brought both severe winds and hail to Northwest Idaho County. Bulk of damage occurred from Grangeville to Fenn. Four power poles were knocked down with hail reported as large as 1.25 inches. Wind gusts measured to 70 mph caused a roof to be ripped off a barn, which then collapsed onto farm equipment. The roof was also ripped off of the Grangeville Public Works building. Extensive crop damage was also reported on the Camas Prairie.

Lemhi County

Salmon	**08**	**1552MST**			**0**	**0**			**Hail (1.50)**

Lemhi County

Salmon	**08**	**1604MST**			**0**	**0**			**Hail (0.75)**

MONTANA, West

Silver Bow County

Butte	**08**	**1537MST**			**0**	**0**			**Hail (0.88)**

Granite County

20 SW Philipsburg	**08**	**1725MST**			**0**	**0**			**Hail (1.25)**

The Frog Pond fire near Philipsburg reported 1.25" hail.

Flathead County

3 N Kalispell	**10**	**1457MST**			**0**	**0**			**Hail (0.75)**

Silver Bow County

Melrose	**10**	**1537MST**			**0**	**0**			**Hail (1.00)**

Lake County

6 NE Polson to 15 NE Polson	**10**	**1945MST**			**0**	**0**			**Thunderstorm Wind (G50)**

Strong summer storms brought hail and gusty winds to portions of Western Montana. Thunderstorm winds later in the evening caused two or more boats to be damaged on Flathead Lake.

WISCONSIN, Southeast

Iowa County

2.5 ESE Avoca	**18**	**1555CST**	**0.1**	**25**	**0**	**0**			**Tornado (F0)**

This tornado briefly spun up and dissipated at 1555CST about 2.5 miles east-northeast of Avoca, or about 0.6 mile west-northwest of the intersection of STH 130 and Leaches Crossing Road. Only some tree damage was noted on a storm survey. This tornado was rated a F0 with estimated wind speeds of 35-63 knots (40-72 mph).

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

Additions/Corrections

WISCONSIN, Southeast

Sauk County

2.7 SE Loganville	**18**	**1615CST**			**0**	**0**		**100K**	**Hail (1.75)**

Golf-ball sized hail caused extensive corn crop damage. This hail was associated with the supercell which spawned two tornadoes back in Vernon and Richland Counties, as well as the F2 tornado that passed through the old Badger Ammunition Plant in southeast Sauk County (south of the Baraboo Bluffs and Devils Lake State Park) and into Columbia County.

Iowa County

1.8 NNE Clyde to	**18**	**1618CST**	**3.2**	**100**	**0**	**0**	**15K**	**50K**	**Tornado (F1)**
4.5 NE Clyde		**1626CST**							

This tornado spun up at 1618CST about 1.8 miles north-northeast of Clyde, or about 0.3 mile northeast of the intersection of STH 130 and CTH C. The tornado headed northeast for 3.2 miles in Iowa County, and crossed into Sauk County, 4.5 miles northeast of Clyde at 1626CST, where CTH C makes its closest approach to the Wisconsin River. Only damage to trees, power-lines, and corn was noted by fire fighters and Emergency Managers. This tornado was rated a F1, and was extensively photographed when it was near the Wisconsin River. Average path width was about 75 yards.

Sauk County

4 WSW Spring Green t	**18**	**1626CST**	**3.3**	**100**	**0**	**0**	**5K**	**5K**	**Tornado (F1)**
2.3 NW Spring Green		**1633CST**							

This tornado in Sauk County was a continuation of the "Clyde" tornado from Iowa County. It crossed into Sauk County at 1626CST at a point 4 miles west-southwest of Spring Green, or 1.0 miles southwest of the intersection of Kennedy and Dyke Roads. The tornado continued northeast 3.3 miles and dissipated at 1633CST about 2.3 miles NW of Spring Green, or 0.7 mile north-northwest of the intersection of Pearl Rd. and STH 14/60, just short of CTH G. Only tree, power-line, and some crop damage was noted, resulting in a F1 rating, with estimated wind speeds of 64-97 knots (73-112 mph). This tornado was well photographed. Average path width was about 50 yards.

Sauk County

1.5 SSW Spring Green t	**18**	**1630CST**	**1.9**	**75**	**0**	**0**	**2K**		**Tornado (F1)**
.5 ENE Spring Green		**1633CST**							

This tornado spun up at 1630CST about 1.5 miles south-southwest of Spring Green, just inside the Sauk County line on the Wisconsin River. The tornado headed north-northeast for about 1.9 miles and dissipated at 1633CST about 0.5 mile east-northeast of Spring Green, on Rainbow Rd. just west STH 14. Minor roof damage in the village of Spring Green was noted on a couple buildings, and some large trees were uprooted, resulting in a rating of F1, and an estimated wind speed of 64-97 knots (73-112 mph). Average path width was about 50 yards.

Sauk County

3.6 NE Leland to	**18**	**1633CST**	**11.1**	**200**	**0**	**0**	**600K**	**20K**	**Tornado (F2)**
4.5 NNE Prairie Du Sac		**1655CST**							

This tornado spun up from the same supercell thunderstorm that spawned the "Viola" tornado earlier in Vernon and Richland counties. This Sauk County tornado spun up at 1633CST about 3.6 miles northeast of Leland, or about 1/4 mile south of the intersection of Ruff and Pine Hollow Roads. The tornado headed east-southeast for about 11.1 miles in Sauk County, and crossed the Columbia County line at 1655CST about 4.5 miles north-northeast of Prairie du Sac, between Wiegans Bay and a boat launch site. This tornado crossed CTH C about 0.5 mile west of Stones Pocket Road, and moved through old Badger Ammunition Plant just south of the greatest density of roads within the Plant grounds. This rain-wrapped tornado was video taped and photographed, and damaged many structures, trees, and power-lines. As for residential buildings, 10 received minor damage, 1 had major damage, and one was destroyed. One business building had minor damage. As for agricultural buildings, 5 received minor damage, and 6 were destroyed. This tornado was rated an F2 with estimated winds of 98-136 knots (113-157 mph). Average path width was about 150 yards.

Columbia County

5.4 W Okee to	**18**	**1655CST**	**3.4**	**200**	**0**	**0**	**10K**	**10K**	**Tornado (F2)**
3.2 SE Okee		**1703CST**							

This tornado was a continuation of the "Leland" F2 Sauk County tornado that passed through the Badger Ammunition Plant grounds. It crossed into Columbia County from Sauk County at 1655CST about 5.4 miles west of Okee, or 1.2 miles northwest of the intersection of Gastrow Road and STH 188. This tornado headed east-southeast for 3.4 miles, while weakening, and ended at 1703CST about 3.2 miles southeast of Okee, or 0.2 mile southeast of the intersection of CTH J and Occonor Road. Some tree, power-line, and crop damage was noted, resulting in a F1 damage rating in Columbia County. Average path width was about 125 yards.

Dane County

3 SE Mt Horeb	**18**	**1655CST**			**0**	**0**			**Funnel Cloud**

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

Additions/Corrections

WISCONSIN, Southeast

Sauk County

1.8 W Merrimac to	**18**	**1700CST**	**1**	**75**	**0**	**0**	**5K**		**Tornado (F0)**
1 WSW Merrimac		**1705CST**							

A tornado spun up 1.8 miles west of Merrimac at 1700CST, along STH 78/113. The tornado headed southeast and dissipated 1.0 mile WSW of Merrimac at 1705 CST just short of the Sauk-Columbia County line in the Wisconsin River. Damage was confined to trees and power-lines. This tornado was rated an F0 with estimated wind speeds of 35-63 knots (40-72 mph). Average path width was about 50 yards.

Dane County

2 NW Black Earth	**18**	**1703CST**			**0**	**0**			**Funnel Cloud**

Marquette County

1.7 NNE Westfield to	**18**	**1708CST**	**5.5**	**100**	**0**	**0**	**100K**	**1K**	**Tornado (F1)**
7.2 NNE Westfield		**1722CST**							

This tornado spun up at 1708CST about 1.7 miles north-northeast of Westfield, or about 0.4 miles north-northwest of the intersection of CTH E and 7th Court, just east of Interstate 39/STH 51. The tornado headed northeast and ended at 1722CST about 7.2 miles northeast of Westfield, or about 0.4 mile north of the intersection of CTH Z and 11th Rd. O one property, a residential home sustained minor roof damage, and there was minor damage to two out-buildings and farm equipment/machinery. On another property, minor damage to a silo was noted. Extensive tree and power-line damage was reported along the entire path of the tornado. Average path length was about 75 yards.

Columbia County

4.5 NNE Lodi	**18**	**1710CST**	**0.1**	**25**	**0**	**0**			**Tornado (F0)**

A brief tornado spun up and dissipated at 1710CST about 4.5 miles north-northeast of Lodi, or about 1 mile south of the intersection of CTH CS and Smith Rd., just west of Smith Rd. Only minor vegetative damage was noted by a severe weather spotter in the area at the time. This tornado was rated as F0 with estimated wind speeds of 35-63 knots (40-72 mph).

Dane County

Verona	**18**	**1710CST**			**0**	**0**			**Funnel Cloud**

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

Additions/Corrections

WISCONSIN, Southeast

Dane County

2.8 SE Fitchburg to 2.6 SSW Rockdale	**18**	**1715CST 1805CST**	**17**	**600**	**1**	**23**	**34.3M**	**750K**	**Tornado (F3)**

A strong and destructive tornado spun up at 1715CST about 2.8 miles southeast of the geographic center of Fitchburg (or 2.0 miles north of center of Oregon), about 400 yards southwest of the intersection of CTH MM and Schnieder Rd. It continued east-southeast to the southern edge of Lake Kegonsa and tore through residential neighborhoods about 1/3 to 1/2 mile north of CTH B (Civil Towns of Dunn and Pleasant Springs, and far-northern Stoughton). It moved over the crossing of CTH A with Interstate 90/39, and stayed close to CTH A to its exit point at 1905CST where CTH A crosses into Jefferson County, about 2.8 miles south-southwest of Rockdale. One person was crushed to death in their basement from fireplace and chimney bricks that crashed through the floor. Twenty-three (23) other people were directly injured. In addition, Emergency Management officials received reports of 2 other indirectly-related deaths associated with this strong tornado. In these two cases, the people were already very ill or suffering from a life-ending disease. Injuries they received during the tornado contributed (secondary) to their death, but were not the primary cause of death, based on medical examiner reports. Consequently, these additional two deaths do not appear in the official death tally in the header strip of this event. Numerous homes, businesses, farm buildings, vehicles, power-lines, trees, and other personal effects were either damaged or destroyed along its path that grew to a maximum width of about 600 yards north of Stoughton. As for residential structures, 220 sustained minor damage, 84 had major damage, and 69 were destroyed. As for business structures, 6 sustained minor damage, 1 had major damage, and 1 was destroyed. As for agricultural structures, 5 sustained minor damage, 5 had major damage, and 40 were destroyed. Total estimated damage amounts (directly-related) for private and public sectors combined was $35.06 M, broken down to $34.31 M in property damage and $750 K in crop losses, for the tornado segment in Dane County. This tornado was probably the 3rd most costly tornado in Wisconsin's recorded history (1996 Oakfield tornado and 1984 Barneveld tornadoes were more costly). The $34.31 M in property damage was broken down to private losses (total of 32.29 M) and public losses (total of $2.02 M), per Emergency Manager reports and NWS estimates. The private losses included a total of $25.45 M for residential structures, $1.29 M for businesses, $4.25 M for agricultural structures, $1.00 M for damage to vehicles, boats, and other personal effects, $200 K to agricultural machinery and tools, and $96 K in public road system damage. The public losses making up part of the $34.31 M consisted of $2.02 M in damage to public utility systems. The $750 K in damage attributed to crop losses occurred on an estimated 1,550 acres of land. Additional monetary costs incurred in the public sector (totaling $1.84 M) which are considered indirectly-related damage expenses, and not included in the "direct" totals listed in the header-strip of this event, include: $1.38 M in debris clearance, $308 K in protective measures, and miscellaneous damage/expenses of $144 K. Therefore, the grand total of direct and indirect damage amounts and expenses attributed to this tornado segment in Dane county totaled about $36.89 M.

Just south of the tornado, extending out another mile or so, tree and power-line damage resulted from rear-flank downdraft damage - in some cases south to STH 51. This damage is separate from tornado damage, and isn't included in the numbers in previous sentences. Debris from this tornado was lofted by the parent's updraft and carried downstream to scattered locations in the counties of Jefferson, Waukesha, Milwaukee, Walworth, Racine, and Kenosha. This tornado was extensively photographed and video-taped by storm spotters (amateur radio operators, etc.), storm chasers, and private citizens. On occasions, this tornado displayed multiple-vortex characteristics. Due to partial back-building (to the west-southwest) of the supercell's updraft tower, this tornado moved slowly, and was described by some eyewitnesses and spotters as being nearly stationary at times north of Stoughton. The overall slow movement (supercell moved at 12-17 knots, or 10-15 mph), coupled with structures that were not thoroughly reinforced (based on NWS damage survey), allowed the tornado's cyclonic winds to more severely damage buildings in its path. Consequently, although some of the worst damage resembled what would be left by a F4 tornado for well-built homes, this tornado was rated at the top of the F3 category with estimated winds near 174 knots (200 mph). The F3 category has estimated wind speeds of 137-179 knots (158-206 mph). A sampling of newspaper headlines and personal quotes included: "The Sky Just Exploded," "Hard to Believe There Weren't More Deaths," "New Technology Lowers Tornado Deaths," "Counting Losses, Blessings," "It Was Probably The Most Intense Storm In The Country This Year," "It's a Mess Out Here," and "I've Never Experienced Anything Like This." The tornado cut electrical power for 1700 customers in the Stoughton area. The estimated average path length was about 175 yards. M54PH

Dane County

2 WSW Dane to .8 N Dane	**18**	**1717CST 1721CST**	**2**	**30**	**0**	**0**		**2K**	**Tornado (F0)**

At 1717CST, a tornado developed 2.0 miles west-southwest of the village of Dane (Dane Co.) It traveled northeast and ended 0.8 miles north of Dane at 1721CST. Corn crop damage was noted and this tornado was rated an F0. The damage was noticeable from any of the local roads, but was seen only from an airplane flyover conducted by a severe weather spotter.

Dane County

2 NW Stoughton to 6.5 E Stoughton	**18**	**1725CST 1755CST**			**0**	**0**	**50K**		**Thunderstorm Wind (G65)**

Rear-flank downdraft (RFD) damage occurred south of the F3 tornado that plowed through the area just north of Stoughton (Dane Co.). Numerous large trees were uprooted or had broken large branches. Several power-lines were damaged.

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

Additions/Corrections

WISCONSIN, Southeast

Dane County

Madison	**18**	**1738CST**			**0**	**0**			**Funnel Cloud**

Dane County

8 SSE Cottage Grove	**18**	**1800CST**			**0**	**0**			**Hail (1.75)**

Jefferson County

Ft Atkinson	**18**	**1804CST**			**0**	**0**			**Hail (1.00)**

Jefferson County

2.8 NNW Busseyville to	**18**	**1805CST**	**1.6**	**100**	**0**	**0**		**2K**	**Tornado (F1)**
2.2 N Busseyville		**1808CST**							

This tornado was a continuation of the F3 tornado that tore through the area north of Stoughton (Dane Co.). It crossed into Jefferson County at 1805CST where CTH C starts, about 2.8 miles north-northwest of Busseyville (Jefferson Co.). It traveled east-southeast for about 1.6 miles and dissipated just south of the end of Hartwig Road, about 2.2 miles north-northwest of Busseyville, at 1805 CST. Damage to large tees was noted, as well as some minor crop damage. This portion of the tornado track was rated F1 with estimated wind speeds of 64-97 knots (73-112 mph). The average path width was 50 yards.

Dane County

1.6 SSW Rockdale to	**18**	**1810CST**	**1.6**	**100**	**0**	**0**	**75K**		**Tornado (F1)**
1.3 SSE Rockdale		**1815CST**							

This tornado developed just north of the F3 Stoughton tornado path, at 1810CST about 1.6 miles south-southwest of Rockdale, or 0.2 mile southwest of the intersection of Hoopen Rd. and East Church Rd. The tornado tracked east along or near Hooopen Rd., until it dissipated at a location 1.3 south-southeast of Rockdale at 1815CST, or about 0.2 miles northeast of the intersection of Hoopen Rd. and Pleasant Rd. Many large trees were uprooted or twisted, and minor damage was inflicted on 3 homes and one pole shed. In addition, power-lines were knocked down. This tornado was rated F1 with estimated winds of 64-97 knots (73-112 mph). Average path width was about 50 yards.

Jefferson County

5.5 W Ft Atkinson to	**18**	**1815CST**	**0.5**	**50**	**0**	**0**	**50K**	**2K**	**Tornado (F0)**
5.2 W Ft Atkinson		**1817CST**							

The first of five tornadoes in or around Fort Atkinson developed at 1815CST, 5.5 miles west of Fort Atkinson, or near the end of West Grove Rd. It headed southeast and dissipated 5.2 miles west of Fort Atkinson at 1817CST, or about 0.2 mile north-northeast of the intersection of STH 106 and Kreutz Rd. Two mobile homes minor damage, one residential home was damaged and its 3-car garage was destroyed, one farm shed was destroyed, many large trees were uprooted, and minor crop damage was noted. This tornado was rated F0 with estimated wind speeds of 35-63 knots (40-72 mph). Average path width was 20 yards.

Jefferson County

5 W Ft Atkinson	**18**	**1820CST**	**0.7**	**50**	**0**	**0**	**30K**	**2K**	**Tornado (F1)**
		1823CST							

The second of five tornadoes in or near Fort Atkinson developed at 1820CST just east of the first tornado, about 5 miles west of Fort Atkinson, or about 0.3 mile north of the end of East Grove Rd. It tracked cyclonically to the southwest, south, and then southeast where it dissipated about 0.4 mile northeast of the intersection of STH 106 and Kreutz Rd at 1823CST (about 5 miles west of Fort Atkinson). A trailer with a truck inside was tipped over, resulting to damage to both. One residential home sustained minor damage, many large large trees were uprooted or twisted, and minor crop damage was noted. This tornado was rated as F1 with estimated wind speeds of 64-97 knots (74-112 mph). Average path width was 25 yards.

Dane County

Oregon	**18**	**1825CST**			**0**	**0**	**1K**	**1K**	**Thunderstorm Wind (G52)**

Several large trees were uprooted.

Jefferson County

4.1 W Ft Atkinson to	**18**	**1827CST**	**1.2**	**50**	**0**	**0**	**30K**	**2K**	**Tornado (F1)**
2.7 WSW Ft Atkinson		**1832CST**							

The third of five tornadoes in or near Fort Atkinson developed at 1827CST, about 4.1 miles west of Fort Atkinson, or 1.0 mile west-northwest of the intersection of STH 106 and CTH J. It tracked southeast across Burnham Rd. After crossing North Shore Drive, it dissipated in a swamp about 0.4 mile southwest of the intersection of STH 106 and the STH 26 bypass at 1832CST, or about 2.7 miles west-southwest of Fort Atkinson. One residential home sustained minor damage, two shead used for horses sustained roof and siding damage, many large trees were uprooted or twisted, and minor crop damage was noted. This tornado was rated as F1 with estimated wind speeds of 64-97 knots (74-112 mph). The average path width was 30 yards.

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

Additions/Corrections

WISCONSIN, Southeast

Jefferson County

1.2 SW Ft Atkinson to 1.3 SE Ft Atkinson	**18**	**1837CST 1841CST**	**1.4**	**50**	**0**	**0**	**355K**		**Tornado (F1)**

The fourth of five tornadoes in or near Fort Atkinson developed at 1837CST about 1.1 mile southwest of Fort Atkinson in a grassy area west of The Fireside Dinner Theater which is on STH 26 Business. This tornado moved due east through the southern part of the city of Fort Atkinson, just missing The Fireside which had some 500 guests inside, and dissipated 1.3 southeast of the city center on STH 12/89 about 0.2 mile south of Fox Hill Rd. Twenty residential homes and 5 businesses sustained minor damage, one business was destroyed, numerous many large trees were uprooted or twisted, some power-lines were damaged, and minor crop damage was noted. As for business losses, a portion of the roof of the Rock River Lanes was peeled back, the Best Western Motel had minor sign and roofing damage, and the Fort Plaza Mini Warehouse was destroyed. This tornado was rated as F1 with estimated wind speeds of 64-97 knots (74-112 mph). The average path width was about 30 yards.

Jefferson County

5.6 SSW Ft Atkinson to 5.7 S Ft Atkinson	**18**	**1844CST 1853CST**	**3**	**75**	**0**	**0**	**20K**	**2K**	**Tornado (F1)**

This tornado spun up at 1844CST about 5.6 miles south-southwest of Fort Atkinson, where Grogan Rd. intersects with Vikerman Rd. It tracked east-southeast and damaged a couple farm sheds and damaged farm machinery on 3 farms. Tree damage and some minor crop damage was noted. It dissipated at 1853CST about 5.7 miles south of Fort Atkinson, or about 0.8 mile south-southeast of the intersection of CTH K and McMillen Rd. near a confluent spot on Allen Creek. This tornado was rated F1 with estimated wind speeds of 64-97 knots (74-112 mph). Average path width was 50 yards.

Jefferson County

3.2 SE Ft Atkinson to 3.4 SE Ft Atkinson	**18**	**1845CST 1846CST**	**0.2**	**50**	**0**	**0**	**7K**	**1K**	**Tornado (F0)**

The fifth of five tornadoes in or near Fort Atkinson developed at 1845CST about 3.2 miles southeast of Fort Atkinson near the intersection of CTH M and CTH N (0.3 mile northeast of this intersection). It moved east across CTH N and then quickly dissipated at 1846CST. Several large trees were uprooted, one corn bin was ripped apart, and two other corn bins were damaged. Minor crop damage was noted. This tornado was rated as F0 with estimated wind speeds of 35-63 knots (40-72 mph). Average path width was 30 yards.

Jefferson County

Ft Atkinson	**18**	**1848CST**			**0**	**0**	**1K**		**Thunderstorm Wind (G52)**

Several large trees were uprooted.

Walworth County

East Troy	**18**	**1939CST**			**0**	**0**			**Hail (1.00)**

Walworth County

1 W La Grange	**18**	**1958CST**			**0**	**0**	**1K**		**Thunderstorm Wind (G56)**

Several large trees were uprooted.

Racine County

2 W Waterford	**18**	**2002CST**			**0**	**0**			**Funnel Cloud**

Racine County

1.5 W Waterford	**18**	**2010CST**			**0**	**0**	**1K**		**Thunderstorm Wind (G61)**

Several large trees were uprooted.

Racine County

4 N Union Grove	**18**	**2034CST**			**0**	**0**			**Funnel Cloud**

Racine County

Racine	**18**	**2045CST**			**0**	**0**			**Hail (0.75)**

Racine County

Racine	**18**	**2045CST**			**0**	**0**			**Hail (1.00)**

The largest single-day tornado outbreak in Wisconsin recorded history for south-central and southeast Wisconsin occurred on August 18, 2005. Sixteen tornadoes were documented on this day in south-central and southeast Wisconsin, a new single-day record. A line of supercells developed and pushed across south-central Wisconsin during the afternoon hours, and then pushed east

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

Additions/Corrections

WISCONSIN, Southeast

across southeast Wisconsin during the evening hours. Most of the tornadoes were associated with two supercells. One main supercell tracked across Sauk County and then into Columbia, producing one F0 and one F2 tornado. The F2 tornado crossed into Columbia County. Another main supercell produced an F3 tornado that devastated the area north of city of Stoughton (Dane Co.), and a weaker F1 tornado just south of the city of Rockdale (Dane Co.). This supercell then tracked into southwestern Jefferson County a short time later, producing two F0 tornadoes and four F1 tornadoes. The sixteen (16) tornadoes contributed largely to both the new state record of 27 tornadoes on a single day, and 62 tornadoes for a calendar year. In additiion, there were scattered reports of funnel clouds, damaging straight-line, downburst winds, and large hail across south-central and southeast Wisconsin. The total direct damage estimate for the afternoon and evening tornado and severe weather outbreak in south-central and southeast Wisconsin on August 18th was about $36.6 M ($35.7 property and $948 K crop). Additional indirect costs totaled almost $1.9 M, resulting in a total direct and direct cost of about $38.5 M.

Synoptically, a surface low pressure system was located over extreme southeast Minnesota early in the afternoon. A warm front extended east southeast from the low with dew points pooling in the lower 70s along it. The surface low moved east into east central Wisconsin by 2100CST that evening. Favorable wind shear associated with the warm front, combined with the strong instability supplied by the heat and humidity, helped to produce numerous tornadic supercells.

MINNESOTA, Central and South Central

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
Stearns County									
St Cloud	**21**	**1630CST**			**0**	**0**			**Hail (1.00)**
Benton County									
Sauk Rapids	**21**	**1640CST**			**0**	**0**			**Hail (0.88)**
		1641CST							
Stearns County									
2 E Paynesville	**21**	**1645CST**			**0**	**0**			**Funnel Cloud**
Stearns County									
Richmond	**21**	**1654CST**			**0**	**0**			**Hail (2.00)**
		1656CST							
		Hail covered the ground.							
Kandiyohi County									
Willmar	**21**	**1656CST**			**0**	**0**			**Hail (1.00)**
Stearns County									
5 S Cold Spg	**21**	**1658CST**			**0**	**0**			**Hail (1.00)**
		1700CST							
Stearns County									
5 N Kimball	**21**	**1700CST**			**0**	**0**			**Thunderstorm Wind (G50)**
		Street signs knocked down.							
Stearns County									
3 E Cold Spg	**21**	**1703CST**			**0**	**0**			**Hail (1.00)**
Kandiyohi County									
Atwater	**21**	**1709CST**			**0**	**0**			**Funnel Cloud**
Kandiyohi County									
Atwater	**21**	**1716CST**			**0**	**0**			**Hail (1.00)**
Stearns County									
3 S Luxemburg	**21**	**1717CST**			**0**	**0**			**Hail (1.00)**
Kandiyohi County									
3 S Atwater	**21**	**1722CST**	**0.1**	**20**	**0**	**0**			**Tornado (F0)**
		Brief touchdown near the intersection of County Roads 23 and 2. No damage.							

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

Additions/Corrections

MINNESOTA, Central and South Central

Sherburne County
3 N Big Lake 21 1728CST 0 0 **Hail (0.75)**

Sherburne County
Big Lake 21 1730CST 0 0 **Thunderstorm Wind (G52)**

Many garage doors buckled in the strong wind. Numerous trees down.

Sherburne County
Becker 21 1732CST 0 0 **Hail (1.25)**

Roof damage to a number of houses. Two air conditioning units on a school were damaged by the hail.

Wright County
Enfield 21 1732CST 0 0 **Hail (2.00)**

Meeker County
Litchfield 21 1733CST 1740CST 0 0 **Hail (1.00)**

Sherburne County
Big Lake 21 1733CST 1746CST 0 0 25M **Hail (1.75)**

Roof damage reported to hundreds of homes, and golf ball size hail punched through some home siding. Numerous vehicles damaged. A newspaper reported that two insurance companies totaled over 1500 claims in this area. Property damage total is for all of Sherburne County on 9-21-05.

Wright County
Enfield 21 1734CST 0 0 **Thunderstorm Wind (G52)**

Few trees down, including one across a county road.

Sherburne County
Becker 21 1735CST 0 0 **Thunderstorm Wind (G52)**

Roof off shed. Highway signs down. Numerous trees down.

Wright County
3 W Monticello to Monticello 21 1736CST 0 0 **Thunderstorm Wind (G58)**

Siding ripped off some homes. Scattered trees and large branches down.

Wright County
Monticello 21 1738CST 1744CST 0 0 **Hail (2.00)**

Sherburne County
6 W Elk River 21 1746CST 0 0 **Hail (0.88)**

Sherburne County
Elk River 21 1746CST 0 0 **Thunderstorm Wind (G63)**

Hundreds of trees down, including some on houses and across roads. Section of roof off an apartment building, displacing 50 residents from 24 units. Gust of 72 mph measured at the fire station.

Wright County
Albertville to St Michael 21 1749CST 1753CST 0 0 **Hail (1.75)**

Hail dented siding and broke windows.

Wright County
Albertville to St Michael 21 1749CST 0 0 **Thunderstorm Wind (G50)**

Few trees down, some over roads.

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

Additions/Corrections

MINNESOTA, Central and South Central

Hennepin County

Countywide | **21** | **1750CST** / **1820CST** | | | **1** | **0** | **130M** | | **Thunderstorm Wind (G70)**

A large storm swept across most of northern Hennepin County, accompanied by large hail and a brief tornado. An NWS damage survey, spotter reports, video, and radar imagery indicate the storm had a very strong rear flank downdraft which was reported to have been sustained as long as 10 minutes in some locations. The wind and hail were responsible for virtually all damage (see separate reports for the hail), and a tornado was on the ground only briefly in Brooklyn Park (see separate tornado entry for Hennepin County). Tens of thousands of trees were downed, including some snapped a few feet off the ground. Many roads were blocked. Some neighborhoods were without power for more than one week, as power crews had a massive number of repairs to make. At the height of the storm, XCEL Energy estimated over 200,000 customers in the western half of the Twin Cities metropolitan area were without power. many cities declared a state of emergency. The property damage report of 130 Million dollars covers all wind and hail reports from this storm in Hennepin County on 9-21-05.

In Rogers, part of an apartment complex roof ripped off, and a roof from a nearby home was torn off and blown into another home, where it pushed a wall in. In Hassan Township, numerous trees were toppled, including some on houses, causing major damage. A garage was torn away from a house, and a construction trailer was destroyed. In Dayton, a barn was destroyed and numerous trees felled. Champlin also had many trees downed. A roof was blown off an apartment building in Osseo, and numerous trees were down on homes and businesses. In Maple Grove, many trees were toppled and windows blown out. A small transmission line went down along with 100 feeder lines.

New Hope and Golden Valley also had downed trees. Many trees in Robbinsdale and Crystal were also toppled, especially in the north and northeast parts of Robbinsdale and Crystal. Several hangars at the Crystal airport had metal siding and roofs off. A gust of 68 mph was measured at the Crystal airport at 1813 CST. Hundreds of trees were felled in Brooklyn Center, and tile from the roofs of a hotel and restaurant were blown off.

Perhaps the most severe damage occurred in Brooklyn Park. City officials estimated at least 10,000 trees were downed, and a local nursery owner estimated 20,000 trees. Hundreds of trees landed on houses and businesses. The roof was partially torn off Signature Design Center. Over 90% of the city lost power.

In Minneapolis, most trees were felled in the northern part of the city, namely the Camden, Shingle Creek, Lind-Bohanon, and Victory neighborhoods. A 45 year old man in the north part of Minneapolis died after getting out of his car. He was heading for shelter when a large branch landed on him. M45UT

Wright County

Otsego | **21** | **1752CST** | | | **0** | **0** | **25M** | | **Hail (1.50)**

Hail damaged roofs and siding of houses, as well as many vehicles. Property damage total includes damage from across all of Wright County from 9-21-05.

Meeker County

Dassel | **21** | **1753CST** / **1755CST** | | | **0** | **0** | **800K** | | **Hail (3.00)**

Hail dented cars, along with roofs and siding of many houses. Some windows broken. Property damage total is for the Dassel area on 9-21-05.

Meeker County

6 S Dassel | **21** | **1753CST** / **1755CST** | | | **0** | **0** | | | **Hail (2.40)**

Wright County

Otsego | **21** | **1755CST** | | | **0** | **0** | | | **Thunderstorm Wind (G52)**

Pole barn roof torn off.

Wright County

1 N Hanover | **21** | **1756CST** | | | **0** | **0** | | | **Hail (0.75)**

Anoka County

Ramsey | **21** | **1758CST** / **1808CST** | | | **0** | **0** | | | **Hail (2.00)**

An RV dealershp saw all 140 vehicles damaged by hail, including 12 that were totaled. Hail larger than golf balls went through grills and dented radiators.

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

Additions/Corrections

MINNESOTA, Central and South Central

Hennepin County

4 S Rogers	**21**	**1758CST**			**0**	**0**			**Hail (1.50)**

Hennepin County

Rogers	**21**	**1758CST**			**0**	**0**			**Hail (2.75)**

An insurance adjuster estimated 400 homes and 75 townhomes were damaged by hail as large as baseballs. Many windows were broken. Numerous businesses had roof and heating/cooling units damaged. See Hennepin County thunderstorm wind report for property damage total.

Mcleod County

4 NE Hutchinson	**21**	**1758CST**			**0**	**0**			**Funnel Cloud**

Hennepin County

Dayton	**21**	**1759CST** **1802CST**			**0**	**0**			**Hail (1.75)**

Hail damaged numerous homes.

Wright County

3 NW Monticello to St Michael	**21**	**1800CST** **2300CST**			**0**	**0**			**Flash Flood**

Torrential rain produced over four inches of rain in less than two hours. Two county roads northwest of Monticello were covered with water, and intersections in Monticello were flooded with water two feet deep. Streets and intersections flooded in Albertville and St. Michael.

Anoka County

Andover	**21**	**1803CST**			**0**	**0**			**Hail (2.25)**

Hennepin County

Maple Grove	**21**	**1804CST** **1806CST**			**0**	**0**			**Hail (1.00)**

Anoka County

Countywide	**21**	**1805CST** **1825CST**			**0**	**0**	**85M**		**Thunderstorm Wind (G85)**

Two destructive storms swept across Anoka County, knocking over tens of thousands of trees, blowing roofs off houses, and producing large hail and two tornadoes. See separate reports for the hail and tornadoes. One storm moved across northwestern and central Anoka County, and the other tracked across southern Anoka County. The property damage report of $85 Million dollars covers all damage from wind and hail in Anoka County on 9-21-05. Many cities declared a state of emergency.

The first storm knocked down three foot diameter trees in Ramsey and tipped over vehicles at an RV dealership. In Andover, several homes had roofs completely blown off, where the strongest downburst winds were estimated to have reached 85 knots. Numerous garages and sheds were blown apart. A portion of a gym roof was torn off at a school. About 10% of roads were blocked by fallen trees. The storm also moved across Coon Rapids, where 500 trees were felled at Bunker Hills Golf Course, the roof was blown off an office building, a fourplex had its roof partially blown off, and the Riverview neighborhood was "smothered" in downed trees. This storm was accompanied by two tornadoes, one in Andover and another tracking from Coon Rapids to Blaine (see separate tornado entries). The F0 tornado in Andover produced very little damage, but was accompanied by a very strong rear flank downdraft, which did the vast majority of the damage in Andover.

The second storm tracked across southern Anoka County, affecting Fridley the most. This was the storm that produced significant damage over Hennepin County, and later on, Ramsey County. In Fridley, several thousands of trees were toppled, causing structural damage to about 400 homes. Many roads were blocked and about 90% of the city lost power. Three people were injured when clearing fallen trees. A damage survey revealed both inflow and downburst damage as the mesocyclone tracked over Fridley. Spring Lake Park and Columbia Heights also saw hundreds of downed trees, some on houses and across roads.

Hennepin County

Brooklyn Park	**21**	**1808CST**	**0.1**	**30**	**0**	**0**			**Tornado (F0)**

A damage survey determined there was a brief tornado just north of widespread and significant wind damage in Brooklyn Park. The tornado touched down just west of the intersection of Oxbow Creek Drive and Kyle Avenue.

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

Additions/Corrections

MINNESOTA, Central and South Central

Hennepin County

Brooklyn Park	**21**	**1813CST**			**0**	**0**			**Hail (0.75)**

Hennepin County

North Portion	**21**	**1815CST** **2130CST**			**0**	**0**			**Flash Flood**

Torrential rain quickly flooded roads and intersections. Water was up to car windows at an intersection in Maple Grove, and one road in Brooklyn Park flooded to a depth of five feet. Single Creek in Brooklyn Park was reported out of its banks. High water caused stalled cars in Brooklyn Center, near Brookdale Shopping Center. There was an unofficial report of eight inches rain in Rogers, and street flooding was reported in Champlin.

Ramsey County

Countywide	**21**	**1815CST** **1835CST**			**0**	**1**	**25M**		**Thunderstorm Wind (G65)**

A severe storm moved out of Anoka County and across northern Ramsey County, from Moundsview and New Brighton to White Bear Lake and North St Paul, knocking down tens of thousands of trees in those cities, as well as in Little Canada, Arden Hills, Maplewood, Vadnais Heights, Roseville, and St. Anthony. An NWS damage survey indicated damage from both the inflow and the rear flank downdraft as the mesocyclone moved through New Brighton. The St. Paul ASOS (Holman Field) measured 62 mph at 1837 CST. Several cities declared a state of emergency. Numerous roads were blocked. One child was injured in New Brighton from a tree limb crashing down. One person died in Moundsview while clearing their property.

Many trees toppled onto houses, and one home in New Brighton was rendered uninhabitable. Two houses in Shoreview were damaged to the point of needing to be rebuilt. The roof of a mobile home in Moundsview was blown off. At one point, 90% of New Brighton was without power. The property damage report of $25 Million dollars covers all wind and hail reports from this storm in Ramsey County for 9-21-05.

Wright County

Buffalo	**21**	**1815CST**			**0**	**0**			**Hail (1.00)**

Anoka County

Andover	**21**	**1816CST** **1817CST**	**0.3**	**25**	**0**	**0**			**Tornado (F0)**

A damage survey determined there was a brief touchdown just to the north of significant rear flank downdraft damage in Andover (see separate entry for thunderstorm wind in Anoka County). The tornado traveled along 142nd Avenue, from just west of Tamarack Avenue, to just east of the intersection of 142nd and 143rd Avenues.

Anoka County

Coon Rapids to Blaine	**21**	**1816CST** **1821CST**	**2**	**50**	**0**	**1**	**5M**		**Tornado (F2)**

A damage survey determined that the tornado touched down in the east central portion of Coon Rapids, only a few blocks west of the border with Blaine. It traveled east-southeast causing mostly F0 to F1 damage at first, but strengthened to F2 status near the intersection of Jefferson Street and 104th Court. The tornado dissipated only 1/4 mile west of the National Sports Center complex. Ten homes were rendered uninhabitable, and thirty others were damaged to a lesser extent. A woman suffered minor injuries when she was blown from the upper story of her home into a tree.

Anoka County

Anoka	**21**	**1819CST**			**0**	**0**			**Hail (0.75)**

Anoka County

Blaine	**21**	**1820CST**			**0**	**0**			**Hail (1.25)**

Wright County

1 W Montrose	**21**	**1820CST**			**0**	**0**			**Hail (1.00)**

Ramsey County

Stanthony	**21**	**1822CST**			**0**	**0**			**Hail (1.00)**

Hennepin County

St Louis Park	**21**	**1826CST**			**0**	**0**			**Hail (1.00)**

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

Additions/Corrections

MINNESOTA, Central and South Central

Anoka County

Fridley 21 1827CST 0 0 **Hail (0.75)**

Washington County

Oakdale to Stillwater 21 1829CST 1845CST 0 0 5M **Thunderstorm Wind (G52)**

Numerous trees and power lines down, including some on vehicles.

Anoka County

South Portion 21 1830CST 2130CST 0 0 **Flash Flood**

Heavy rain of four to five inches fell in less than two hours in some locales. Flooding was reported in Blaine at the intersection of Highway 65 and Main Street. The intersection of University Avenue and 73rd in Fridley was impassable due to high water, and street flooding was reported elsewhere in Fridley. Street flooding was also reported in Coon Rapids and Spring Lake Park. The city manager in Coon Rapids measured 4.25 inches.

Washington County

Lake Elmo 21 1840CST 0 0 **Hail (0.75)**

Dakota County

West St Paul to South St Paul 21 1855CST 0 0 **Thunderstorm Wind (G50)**

Large branches downed.

Ramsey County

North Portion 21 1900CST 2130CST 0 0 **Flash Flood**

Four to five inches of rain fell in less than two hours, causing flooding of numerous streets and intersections. High water resulted in impassable conditions at Highway 96 and Lexington in Shoreview.

Wright County

Otsego 21 1915CST 0 0 **Hail (0.75)**

Sherburne County

Elk River 21 1920CST 0 0 **Hail (0.75)**

Anoka County

Andover 21 1930CST 0 0 **Hail (1.00)**

Anoka County

Coon Rapids 21 1937CST 1940CST 0 0 **Hail (1.00)**

Anoka County

Blaine 21 1940CST 0 0 **Hail (0.75)**

Anoka County

Lino Lakes 21 1940CST 1946CST 0 0 **Hail (1.25)**

Hennepin County

Champlin 21 1946CST 0 0 **Hail (1.00)**

Wright County

Monticello 21 1955CST 1957CST 0 0 **Hail (0.88)**

Sherburne County

Elk River 21 2000CST 0 0 **Lightning**

Lightning struck an empty home. The resulting fire destroyed a garage and two bedrooms.

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

Additions/Corrections

MINNESOTA, Central and South Central

Wright County
Otsego 21 2000CST 0 2 Lightning

Two people sustained minor injuries when lightning struck a nearby tree.

Hennepin County
5 NW Maple Plain 21 2023CST 0 0 Hail (1.00)

Meeker County
1 SW Cosmos 21 2058CST 0 0 Hail (0.75)

Mcleod County
Hutchinson 21 2115CST 0 0 Hail (0.75)

Mcleod County
Glencoe 21 2137CST 2140CST 0 0 Hail (0.88)

Hail damaged cars.

Carver County
Hamburg 21 2150CST 0 0 Hail (0.75)

Carver County
Norwood 21 2152CST 0 0 Hail (1.75)

Carver County
East Union 21 2210CST 0 0 Hail (0.75)

Scott County
Prior Lake 21 2225CST 2227CST 0 0 Hail (0.75)

Dakota County
Burnsville 21 2235CST 0 0 Hail (0.88)

MISSOURI, East

Callaway County
6.5 W Kingdom City to 6.4 W Kingdom City 19 1736CST 0.1 50 0 0 Tornado (F0)

A small tornado formed in a corn field and caused a distinct path of damage for about 0.1 of a mile.

WISCONSIN, West

Barron County
6 NW Rice Lake 21 1732CST 0 0 Hail (1.75)

Barron County
Rice Lake 21 1736CST 1744CST 0 0 30M Hail (3.00)

Hundreds of houses damaged from wind driven large hail. Numerous car windows shattered. The local newspaper reported that one auto glass replacement company estimated about 200 different jobs were required.

Barron County
Barronett 21 1740CST 0 0 Hail (1.75)

Barron County
Rice Lake 21 1740CST 0 0 Thunderstorm Wind (G56)

Numerous large trees toppled. Pine trees snapped.

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

Additions/Corrections

WISCONSIN, West

Barron County

Cameron **21** **1750CST** **0** **0** **Thunderstorm Wind (G50)**

Trees and power lines downed.

Barron County

Northeast Portion **21** **1800CST** **0** **0** **Flash Flood**
2130CST

Several inches of rain fell in less than two hours in Rice Lake and surrounding areas. Numerous vehicles were stalled in the streets of downtown Rice Lake, and some rural roads were impassable.

St. Croix County

Hudson **21** **2100CST** **0** **0** **Thunderstorm Wind (G52)**

Several trees down.

Pierce County

Elmwood **21** **2113CST** **0** **0** **Hail (0.75)**

Hail covered roads.

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

Additions/Corrections

IDAHO, North

IDZ007

Orofino / Grangeville Region

13	**0800PST** **1200PST**	**0**	**0**	**7.5K**		**High Wind (G59)**	

Vigorous winter storm brought strong southerly winds over the Grangeville area. Half the roof at the Grangeville Public Works building blew off causing $7500 in damages.

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

Additions/Corrections

CALIFORNIA, Western

CAZ510 **East Bay Interior Valleys**

31	**0300PST**	**0**	**0**			**High Wind (G58)**
	0305PST					

A wind gust measured 58 mph at Kregor Peak during a winter storm.

CAZ505 **Coastal North Bay Including Point Reyes National Seashore**

31	**0600PST**	**0**	**0**			**High Wind (G61)**
	0605PST					

A strong storm system brought a wind gust to 61 mph at the Golden Gate Bridge.

CAZ006 **San Francisco**

31	**0700PST**	**0**	**0**			**High Wind (G59)**
	0705PST					

A strong storm brought a wind gust to 59 mph at Ft.Funston in San Francisco.

Sonoma County

Countywide	**31**	**0700PST**	**0**	**0**	**104M**	**3M**	**Flood**
		2359PST					

Widespread low-land flooding occurred across Sonoma County with mainstem river gages along the Russian River remaining above flood stage for several days. Devastating flooding occurred near the Russian River in Healdsburg as well as Guerneville. The Petaluma River overflowed its banks as well, as did the Sonoma Creek. Approximately 66 structures were tagged by county officials as significantly damaged in the wake of the flooding. An average of 4 to 6 inches of rain fell over a 24 hour period, 2 days after 1 to 3 inches drenched the same area. The flood continued to affect the area into early January.

CAZ508 **San Francisco Bay Shoreline**

31	**0746PST**	**0**	**0**			**High Wind (G58)**
	0748PST					

A wind gust measured 58 mph at San Francisco Airport during a strong winter storm.

CAZ505 **Coastal North Bay Including Point Reyes National Seashore**

31	**0900PST**	**0**	**0**	**340K**		**Coastal Flood**
	2200PST					

The large Pacific storm brought coastal flooding to Bolinas, causing some significant property damage. The damage occurred at the time of high tide, exasperated by strong winds, large waves and periods of heavy rain.

Alameda County

Countywide	**31**	**1800PST**	**0**	**0**	**8.8M**		**Flood**
		2359PST					

Widespread flooding affected the county during the severe winter storm. Approximately 2 to 4 inches of rain fell in less than a 24 hour period, causing urban and small stream flooding. The most severe flooding occurred in San Leandro, Alameda, Oakland and Berkeley. Much of the damage was done to Public Property, mainly City and County facilities. An Oakland man was killed falling down his stairs during a storm related power outage. The flooding continued into the first few days of January 2006.
.

Santa Cruz County

Countywide	**31**	**1800PST**	**0**	**0**	**2.5M**		**Flood**
		2359PST					

Widespread flooding occurred across the county, with at least 13 road closures reported due to mudslides as well a fallen trees and utility poles. In Soquel, downed trees and flooding from Soquel Creek closed many roads. About 13 homes were damaged by flooding from the creek in Felton as the San Lorenzo River spilled out of its banks. Much of the damage reported was for needed road repairs due to flooding and debris clearance. At 10 pm on 12/31 a California Highway Patrol Officer was killed as he responded to a spun-out vehicle on Highway 17 in the Santa Cruz moutains during heavy rain. An oncoming vehicle accidentaly hit the officer as he was on the side of the road - killing him and the driver of that vehicle. Flooding continued into the first few days of January 2006.

San Mateo County

Countywide	**31**	**1900PST**	**0**	**0**	**5M**		**Flood**
		2359PST					

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

Additions/Corrections

CALIFORNIA, Western

Widespread flooding occurred in the county, due to small streams over-flowing and poor drainage problems. The bulk of the damage occurred in East Palo Alto, San Mateo, Daly City, Colma, Brisbane, San Bruno, South San Francisco and Pacifica. Around 2 to 3 inches of rain fell on the area in a 24 hour period. The flooding continued into the first few days of January 2006.

Napa County

Countywide	**31**	**1905PST 2359PST**	**0**	**0**	**115M**	**32.5M**	**Flood**

Severe Flooding occurred as the Napa River exceeded flood stage at both St.Helena and in the City of Napa. The Napa Creek in downtown Napa also flooded, damaging the entire business district. City and Parks Department in Napa was hit with $6 million in damage alone. The City of Napa had 600 homes with moderate damage, 150 damaged businesses with costs of at least $70 million. More than 5 inches of rain fell on Napa in less than 24 hours. The flooding continued into the first few days of January 2006.

Contra Costa County

Countywide	**31**	**2100PST 2359PST**	**0**	**0**	**22M**		**Flood**

Widespread county flooding occurred after 2 to 4 inches of rain fell on the area in about 24 hours. Urban flooding initiated landslides that contributed to the damage, and small streams and creeks overflowed their banks. Much of the damage was done in Walnut Creek, Richmond, San Pablo, Martinez and Orinda. Included in the damages were schools, park areas and several Government Agency structures. Approximately 165 personal assistance claims due to flooding were filed within the County. Flooding persisted into the first few days of January 2006.

Marin County

Countywide	**31**	**2200PST 2359PST**	**0**	**0**	**108M**		**Flood**

Widespread severe flooding affected many towns in Marin County including Fairfax, San Anselmo, Novato, Inverness, Ross and Mill Valley. Across the County, 1600 homes, 240 businesses and 225 government agencies were affected by the flood. San Anselmo was under 2 feet of water with an estimated 150 of its 250 businesses damaged and a price tag of around $40 million. Fairfax is looking at a $25 million tab and Ross around $13 million. An estimated 4 to 7 inches of rain fell on the County in a 24 hour period preceding the flood. The flooding continued into the first few days of January 2006.

GEORGIA, North and Central

GAZ007-013>016-021>025-027-034>037-045>048-057	**Gilmer - Pickens - Dawson - Lumpkin - White - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Gwinnett - Barrow - Clarke - Oconee - De Kalb - Rockdale - Walton - Newton - Henry**						
	15	**0000EST 1800EST**	**0**	**0**	**952.5K**		**Ice Storm**

A low pressure system moving out of the Gulf of Mexico and a strong upper-level trough pushed an area of rain across Georgia late on the 14th and early on the 15th. Meanwhile, a wedge of cold, dry air had slid down the east side of the Appalachians into north central and northeast Georgia. As the rain overspread the wedge of cold air, temperatures dropped to near or just below the freezing mark. Rainfall amounts across north and northeast Georgia averaged in the 0.50 to 0.80 inch range, resulting in substantial and damaging accumulations of ice. Ice accumulations on trees, power lines, and other elevated objects were mostly in the 0.25 to 0.33 inch range in an area bounded by Helen, Dahlonega, Ellijay, northeast Atlanta, Covington, and Athens. However, ice accumulations up to 0.50 inch were reported across Gwinnett, Hall, and White counties resulting in a number of downed trees and power lines. Only minor ice accumulations were reported immediately west and south of this area in the western and southern suburbs of Atlanta. Warm ground temperatures prevented significant ice accumulations on roads, although some minor ice accumulation was reported on the roads across Banks, Gwinnett, Hall, and White counties. Approximately 220,000 residents, mostly in northeast Georgia, were left without power during the morning hours. The power outages also left traffic signals out of service in many of these areas, resulting in a number of traffic backups. Nearly 100,000 were still without power in the late afternoon. Several roads were also blocked from downed trees, especially across Hall, White, and Gwinnett counties. The information below provides the specific ice accumulation and reports by county:

Banks: 1/4-1/2 inch - roads icy with widespread power outages.
Barrow: 1/4 inch - numerous power outages and trees down.
Clarke: 1/4 inch - ice on bridges with a few trees and power lines down.
Cherokee: 1/4-1/2 inch - numerous power outages and trees down with ~4500 residents without power.
Dawson: 1/4 inch - numerous trees and power lines down.
DeKalb: < 1/4 inch - several power outages.
Forsyth: 1/4 inch - numerous power outages and trees down.

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

Additions/Corrections

GEORGIA, North and Central

Fulton: < 1/4 inch - lots of trees and power outages down northeast side of county.
Gilmer: 1/4 inch - numerous trees and power lines down
Gwinnett: 1/4-1/2 inch - numerous power outages and trees down with ~76,000 residents without power.
Hall: 1/2 inch - bridges icy with approximately 400 trees down, 100 of them on Georgia Highway 400. Eight to ten roads closed. Widespread power outages.
Henry: 1/8 inch.
Jackson: 1/4 inch - numerous power outages and trees down with ice on bridges.
Lumpkin: 1/4 inch - numerous trees and power lines down. Schools closed for two days.
Madison: 1/4 inch - several trees and power lines down.
Newton: 1/4 inch - A number of trees and power lines down throughout the county. At least 600 residents left without power overnight.
Oconee: < 1/4 inch.
Oglethorpe: Several trees and large tree limbs were down. Some roads were blocked.
Pickens: < 1/4 inch - several trees and power lines down.
Rockdale: 1/4 inch - a few trees down.
Towns: trace of ice - no power outages and no road problems.
Walton: < 1/4 inch - icy bridges with no trees down.
White: 1/2 inch - ice on bridges and patchy on roads. Numerous trees and power lines down.
At least 2,500 residents in the county left without power.

GAZ007-012>016-020>021-021>025-027-030>032-032>039-041>062-066>071-071>076-078>079-082-082>084-089

Gilmer - Gordon - Pickens - Dawson - Lumpkin - White - 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 - Bibb - Twiggs - Wilkinson - Muscogee

16	**0500EST**	**0**	**0**		**Freezing Fog**
	0900EST				

Several counties across north and central Georgia experienced a problem with black ice and a heavy frost forming on the roads as clearing occurred the evening before following a rainy, foggy day and temperatures dropped into the mid 20s. A number of traffic accidents were reported. In Marietta in Cobb county, a 23 year-old man was killed when his pickup truck skidded off an icy road and into a tree. In Cherokee county two major accidents were reported on ice covered bridges. One of these accidents occurred on Georgia Highway 372 near Ball Ground resulting in serious injuries to a 5-year old. The other occurred on Bells Ferry Road in Woodstock near the Little River Marina when two vehicles collided on an ice-covered bridge. In Macon in Bibb county, a 64 year-old man was killed when his pickup truck veered off an icy road and into oncoming traffic. In Monroe county, a total of five accidents were reported, three on Interstate-75, one on U.S. Highway 41, and one on Georgia Highway 18. Two injuries were reported with these accidents.

GULF OF MEXICO

Apalachicola To Destin Fl Out 20Nm

5 W Panama City Beacl	**15**	**0935EST**	**0**	**0**	**Waterspout**

A waterspout was sighted by the US Coast Guard over West Bay.

ILLINOIS, Northeast

ILZ003>006-008-010>014-019>022-032

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

01	**0000CST**	**0**	**0**		**Drought**
31	**2359CST**				

Despite colder temperatures and snowfall, severe to extreme drought conditions continued across much of northern Illinois. Precipitation amounts were below normal at many locations. Some totals include Paw Paw in Lee County, 0.56 inches; Monee in Will County, 0.64 inches; Rochelle in Ogle County, 0.82 inches; Antioch in Lake County, 0.83 inches; Marengo in McHenry County, 0.91 inches; Mendota in LaSalle County, 0.97 inches; Mundelein in Lake County, 0.98 inches; Belvidere in Boone County, 1.06 inches; Aurora in Kane County, 1.07 inches and Dixon in Lee County, 1.10 inches. Chicago Ohare Airport measured 1.36 inches and Rockford Airport measured 1.00 inches.

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

Additions/Corrections

VIRGINIA, East

VAZ048-060>064-066>071-074>075 — **Fluvanna - Prince Edward - Cumberland - Goochland - Hanover - Caroline - Lunenburg - Nottoway - Amelia - Powhatan - Chesterfield - Henrico - Essex - Westmoreland**

15	**0800EST**	**0**	**0**		**Winter Weather**
	1300EST				

A winter storm produced a mixture of snow, sleet and freezing rain across portions of central Virginia and the Virginia northern neck. Ice accumulation between a trace and .15 inch, and up to one half inch of snow occurred. Roads were slippery due to the mixed precipitation.

WYOMING, Central and West

WYZ002-012>015-023>027 — **Absaroka Mountains - Teton & Gros Ventre Mountains - Jackson Hole - Wind River Mountains West - Wind River Mountains East - Star Valley - Salt River & Wyoming Ranges - Upper Green River Basin Foothills - Upper Green River Basin - South Lincoln County**

01	**0900MST**	**0**	**0**		**Winter Storm**
02	**1100MST**				

A strong Pacific Storm System dumped 15 to 25 inches of snow across the mountains of western Wyoming through the period. Western valley locations received 6 to 12 inches of snow by storms end. Snowfall combined with wind gusts to 40 mph at ridge-top, dropping surface visibilities to near zero in mountain passes creating treacherous traveling conditions.

Lincoln County

4 WSW Etna

15	**2000MST**	**0**	**0**		**Flash Flood**
16	**1600MST**				

Ice jamming caused stretches of the Salt River to flood on the evening of 12/15/2005 through the afternoon of 12/16/2005. The frozen section of the Salt River caused water flow to be diverted to its old channel, Archie's slough, threatening homes in the area. The potential flood areas were sandbagged to protect homes and buildings. No damage was reported.

WYZ015 — **Wind River Mountains East**

27	**1100MST**	**1**	**0**		**Avalanche**

An avalanche killed a 21 year-old man who was snowmobiling near Togwotee Pass. It took Search and Rescue two days to find the man, who was buried under 12 feet of snow, due to inclement weather and additional avalanches. A companion escaped injury because he was riding above where the snow broke free. M21OU

Reference Notes:

Storm Data Disclosure

Storm Data is an official publication of the National Oceanic and Atmospheric Administration (NOAA) which documents the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. In addition, it is a partial record of other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occurs in connection with another event.

Some of the information appearing in Storm Data may have been provided by or gathered from sources outside the National Weather Service (NWS), such as the media, law enforcement and/or other government agencies, private companies, individuals, etc. An effort is made to use the best available information, but because of time and resource constraints, information from these sources may be unverified by the NWS. Therefore, when using information from Storm Data, customers should be cautious as the NWS does not guarantee the accuracy or validity of the information. Further, when it is apparent information appearing in Storm Data originated from a source outside the National Weather Service (frequently credit is provided), Storm Data customers requiring additional information should contact that source directly. In most cases, NWS employees will not have the knowledge to respond to such requests. In cases of legal proceedings, under Department of Commerce regulations and/or rules of the court, NWS employees are not legally obligated to provide written or verbal testimony.

Fatality Codes: For events that include a fatality, there is a code containing the gender, age and fatality location at the end of the event narrative.
1st letter: Gender (M/F) – 2nd numbers: Age – 3rd letters Fatality location (see table below)
Example: M51IW – Male, 51 years of age, fatality occurred In Water.

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
WCM	- Warning Coordination Meteorologist – The meteorologist at each NWS Office responsible for reporting severe weather events
LST	- Local Standard Time Storm Data attempts to always use "Standard Time"
EST	- Eastern Standard Time
EDT	- Eastern Daylight Time

CST - Central Standard Time
CDT - Central Daylight Time
PST - Pacific Standard Time
PDT - Pacific Daylight Time

Other Notes:

An "Episode" is an entire storm system and can contain many different types of events.

An "Event" is an individual type of storm event.

When listing wind speed values under "Character of Storm", ex. High Wind (G81), the G indicates a "Gust" which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph. This number can be either E (estimated) by damage caused, or M (measured) by known calibrated anemometers. Ex. (M61) = measured 61 knots or E(75) = estimated at 75 knots.

All wind speeds listed are estimated by NWS personnel by the amount and type of damage unless otherwise noted with an "M" which represents an actual wind speed as measured by official NWS approved anemometer.

When listing hail size under "Character of Storm", ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The fatalities, injuries, and damage amounts appearing in tropical cyclone events are attributed only to wind damage experienced in the coastal counties/parishes listed. Other tropical cyclone related events such as tornadoes and flooding are listed within their separate event types.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large tress blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage (Suggested)
F0	Gale Tornado	40 - 72	Tree branches broken, chimneys damaged, shallow-rooted trees pushed over; sign boards damaged or destroyed, outbuildings and sheds destroyed
F1	Moderate	73 - 112	Roof surfaces peeled off, mobile homes pushed off foundations or overturned, moving autos pushed off the roads, garages may be destroyed. Category 1-2 hurricane wind speed
F2	Significant	113 - 157	Roofs blown off frame houses; mobile homes rolled and/or destroyed, train boxcars pushed over; large trees snapped or uprooted; airborn debris can cause damage. Category 3-4 hurricane wind speed
F3	Severe	158 - 206	Roofs and walls torn off well constructed houses; trains overturned; large trees uprooted, can knock down entire forest of trees. Category 5 hurricane wind speed
F4	Devastating	207 - 260	Well-constructed frame houses leveled; structures with weak foundations blown off some distance; automobiles thrown, large airborn objects can cause significant damage.
F5	Incredible	261 - 318	Brick, stone and cinderblock buildings destroyed, most debris is carried away by tornadic winds, large and heavy objects can be hurled in excess of 100 meters, trees debarked, asphalt peeled off of roads, steel reinforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the damage produced by F4 and F5 wind speeds that would surround the F6 winds.

Typical F0 Tornado Damage
Note the trees are stripped of leaves, but the trees remain standing. Only light roof damage and a few missing shingles.

Typical F1 Tornado Damage
Note the uprooted trees and missing shingles from the roof. There is significant roof damage.

Typical F2 Tornado Damage
This home is missing it's entire roof but the exterior walls remain intact. Some of the stronger hardwood trees remain standing.

Typical F3 Tornado Damage
This home is missing the entire roof as well as some of the exterior walls. Trees are blown over or snapped near the base and outbuildings are destroyed.

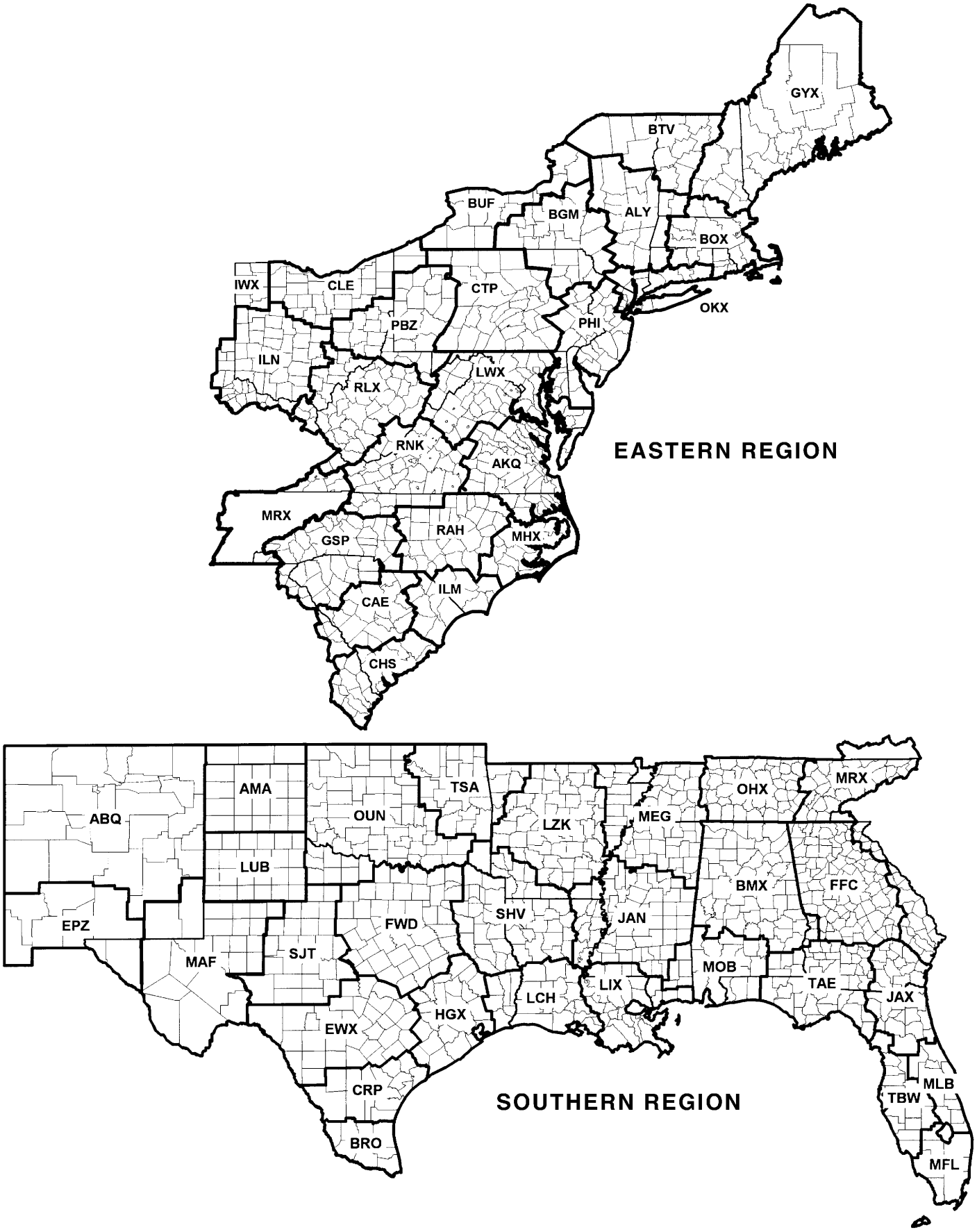
Typical F4 Tornado Damage
This home is almost completely obliterated, with no walls standing. The debris from the home is where the house once stood.

Typical F5 Tornado Damage
These homes have been completely removed from their original locations. The debris field has been scattered some distance from their foundation.

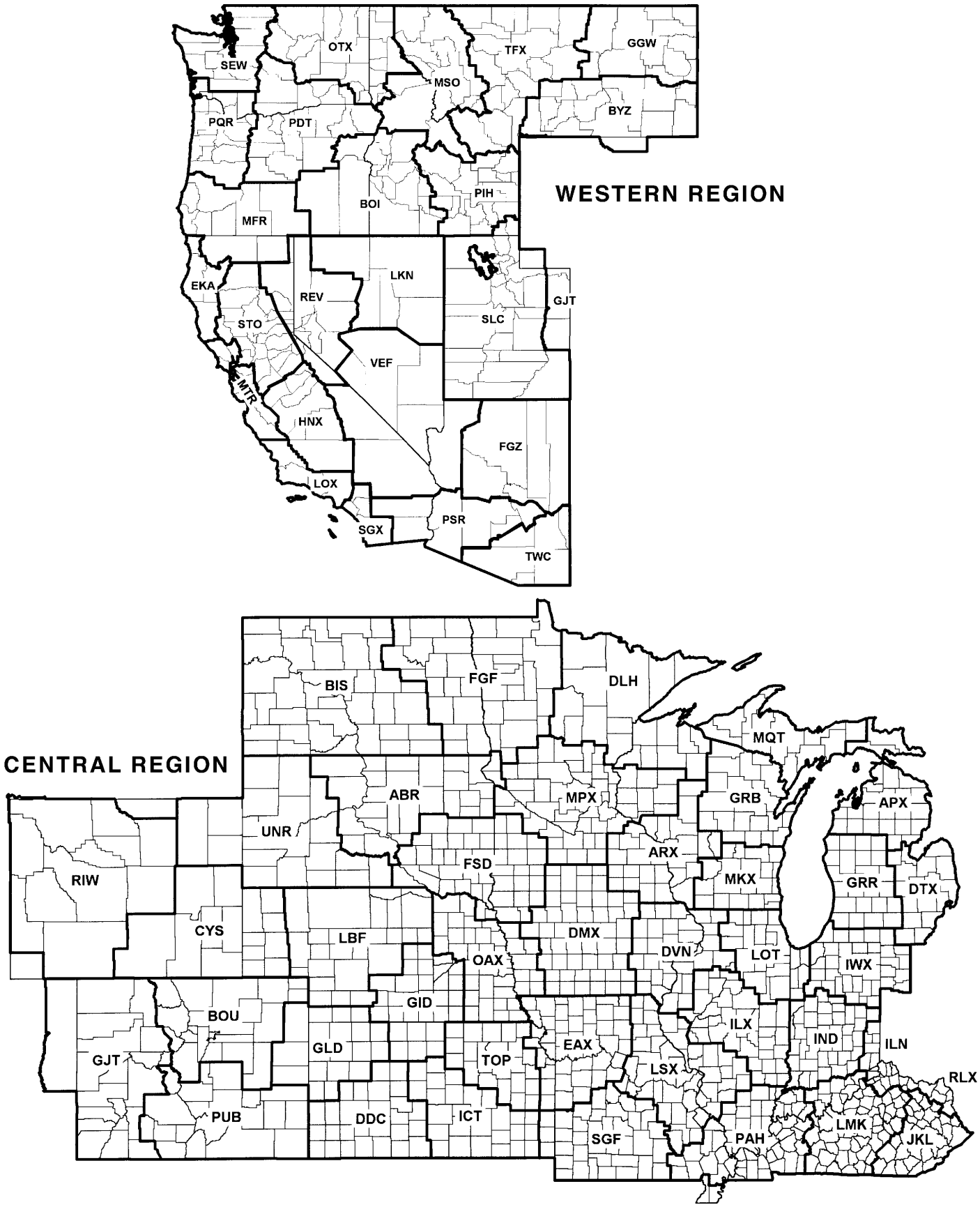
Typical F5 Tornado Damage
The asphalt surface has been peeled off of this road.

(All photographs courtesy of Brian Smith, Meteorologist, National Weather Service, Valley NE.)

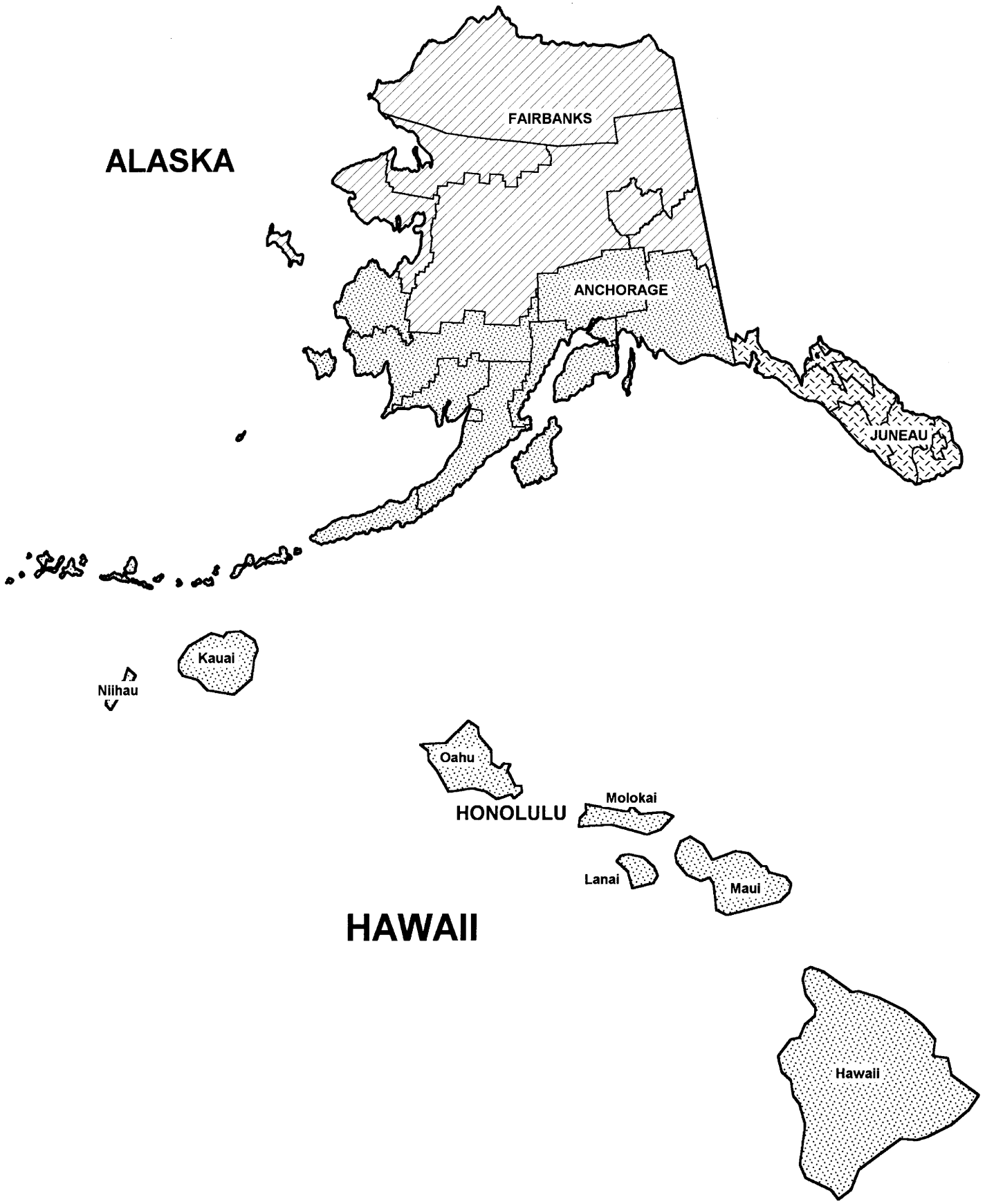
COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data
This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data
Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July though June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data
Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An ''Outstanding storms of the month'' section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World
This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data
LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for severalhundred cities in the U.S. and its territories. Each monthly publication also containes the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

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