

# STORM DATA



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NATIONAL CLIMATIC DATA CENTER, ASHEVILLE NORTH CAROLINA"  
28801

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## C O N T E N T S

Cover: Damage to the rear window of a vehicle in Del Rio, Texas demonstrates the force with which up to 4.5-inch diameter hail stones had impacted during the evening of March 16th. The safety glass had allowed the stones to pass through without breaking out the entire pane. Also note the dents left in the car's body. (See LARGE HAIL at DEL RIO, TEXAS, page 6) ---Photo by Dale Reed, NWSO at Del Rio, TX; and supplied by Bill Hare, NWSFO at San Antonio, TX.

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### STORM DATA (ISSN 0039-1972)

The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage, and prepares the annual summaries of Tornadoes and Lightning. This publication contains our best information on storms, but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late reports and corrections will be carried quarterly. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in these editions; Eastern States: JAN, APR, JUL, OCT.  
Central States: FEB, MAY, AUG, NOV.  
Western States: MAR, JUN, SEP, DEC.

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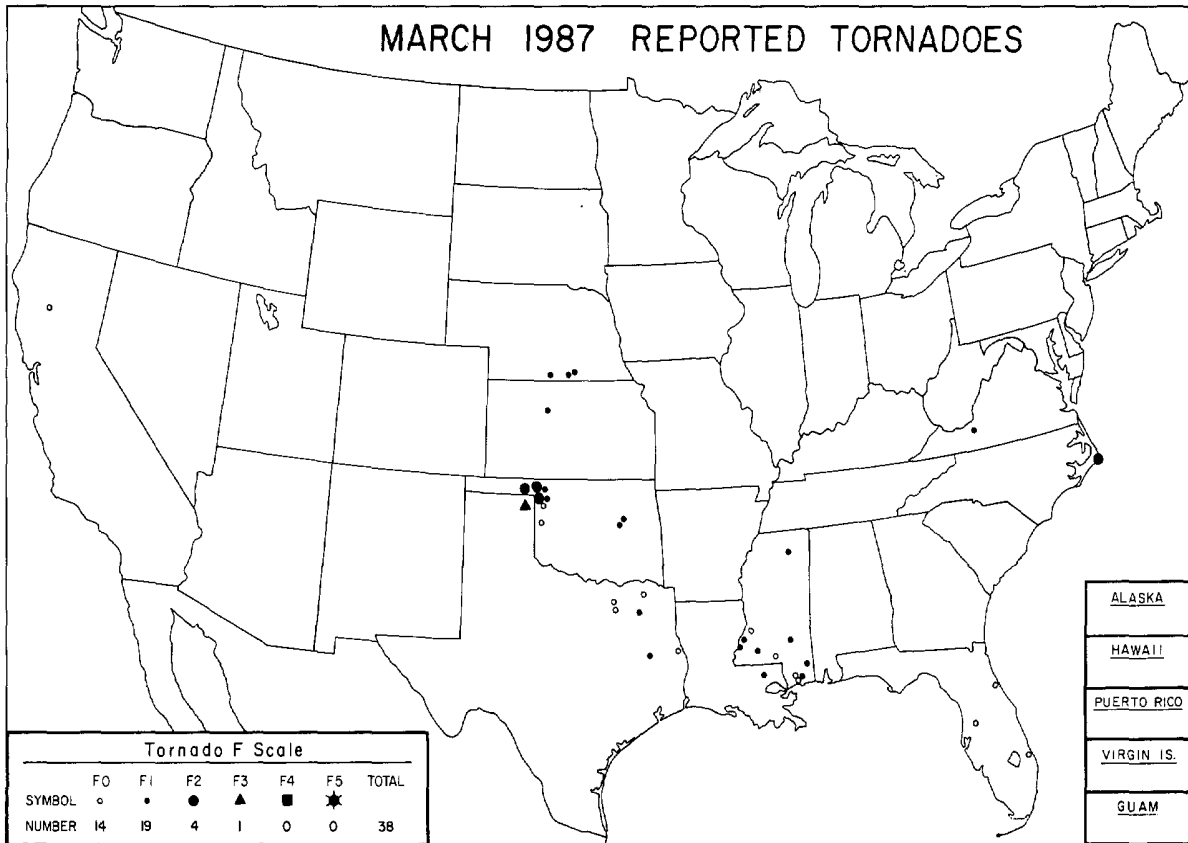
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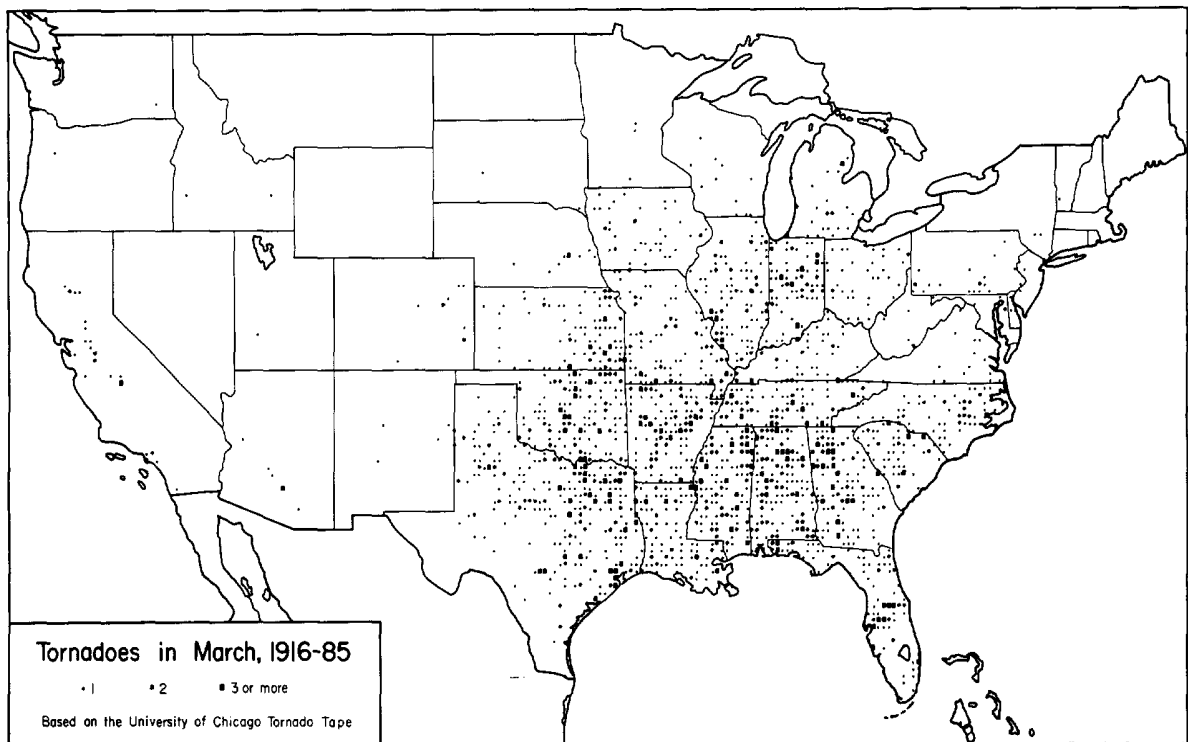
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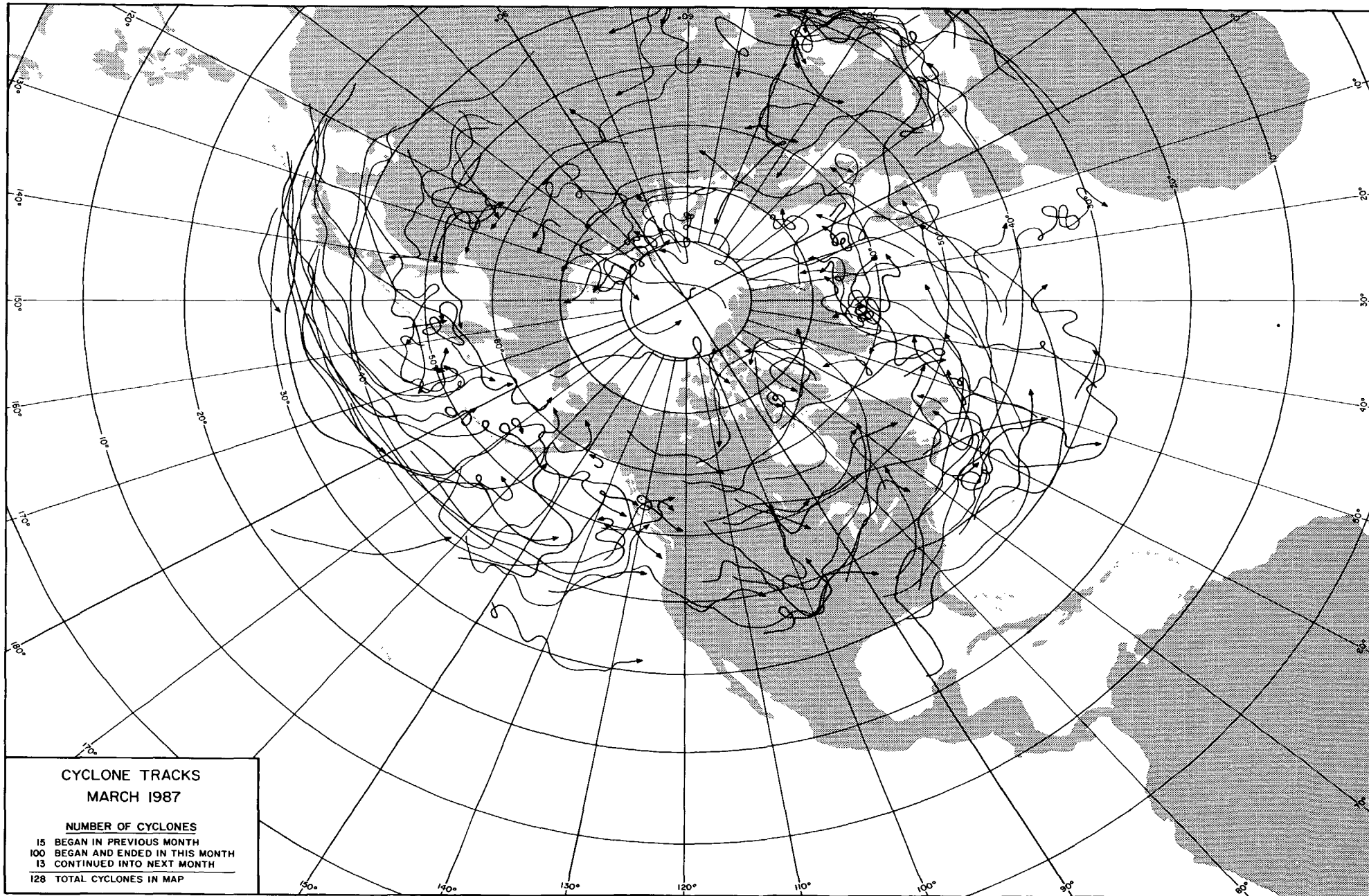
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Asheville, NC 28801-2696

# OUTSTANDING STORMS OF THE MONTH



<ul style="list-style-type: none"> <li>● COMPLETE REPORT RECEIVED</li> <li>○ PRELIMINARY REPORT RECEIVED</li> <li>○ REPORT NOT RECEIVED</li> </ul> <p>(N) northern (W) western                  (S) southern (C) central                  (E) eastern (O) coastal                  (SE) southeastern</p>	<table style="width: 100%; text-align: center;"> <tr> <td>● 1AL</td><td>● 7DE</td><td>● 14KS</td><td>● 21MN</td><td>● 28NJ</td><td>● 33OH</td><td>● 39SD</td><td>● 44VA</td><td>● 49AK(SE)</td> </tr> <tr> <td>● 2AZ</td><td>● 8FL</td><td>● 15KY</td><td>● 22MS</td><td>● 29NM</td><td>● 34OK</td><td>● 40TN</td><td>● 45WA</td><td>● 50HI</td> </tr> <tr> <td>● 3AR</td><td>● 9GA</td><td>● 16LA</td><td>● 23MO</td><td>● 30NY(O)</td><td>● 35OR</td><td>● 41TX(N)</td><td>● 46WV</td><td>● 51PR</td> </tr> <tr> <td>● 4CA(N)</td><td>● 10ID</td><td>● 17ME</td><td>● 24MT</td><td>● 30NY(C)</td><td>● 36PA(E)</td><td>● 41TX(S)</td><td>● 47WI</td><td>● 52VI</td> </tr> <tr> <td>● 4CA(S)</td><td>● 11IL</td><td>● 18MD</td><td>● 25NE</td><td>● 30NY(W)</td><td>● 36PA(W)</td><td>● 41TX(W)</td><td>● 48WY</td><td>● 53PC</td> </tr> <tr> <td>● 5CO</td><td>● 12IN</td><td>● 19MA</td><td>● 26NV</td><td>● 31NC</td><td>● 37RI</td><td>● 42UT</td><td>○ 49AK(N)</td><td></td> </tr> <tr> <td>● 6CT</td><td>● 13IA</td><td>● 20MI</td><td>● 27NH</td><td>● 32ND</td><td>● 38SC</td><td>● 43VT</td><td>○ 49AK(S)</td><td></td> </tr> </table>	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40TN	● 45WA	● 50HI	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR	● 4CA(N)	● 10ID	● 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	○ 49AK(N)		● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	○ 49AK(S)	
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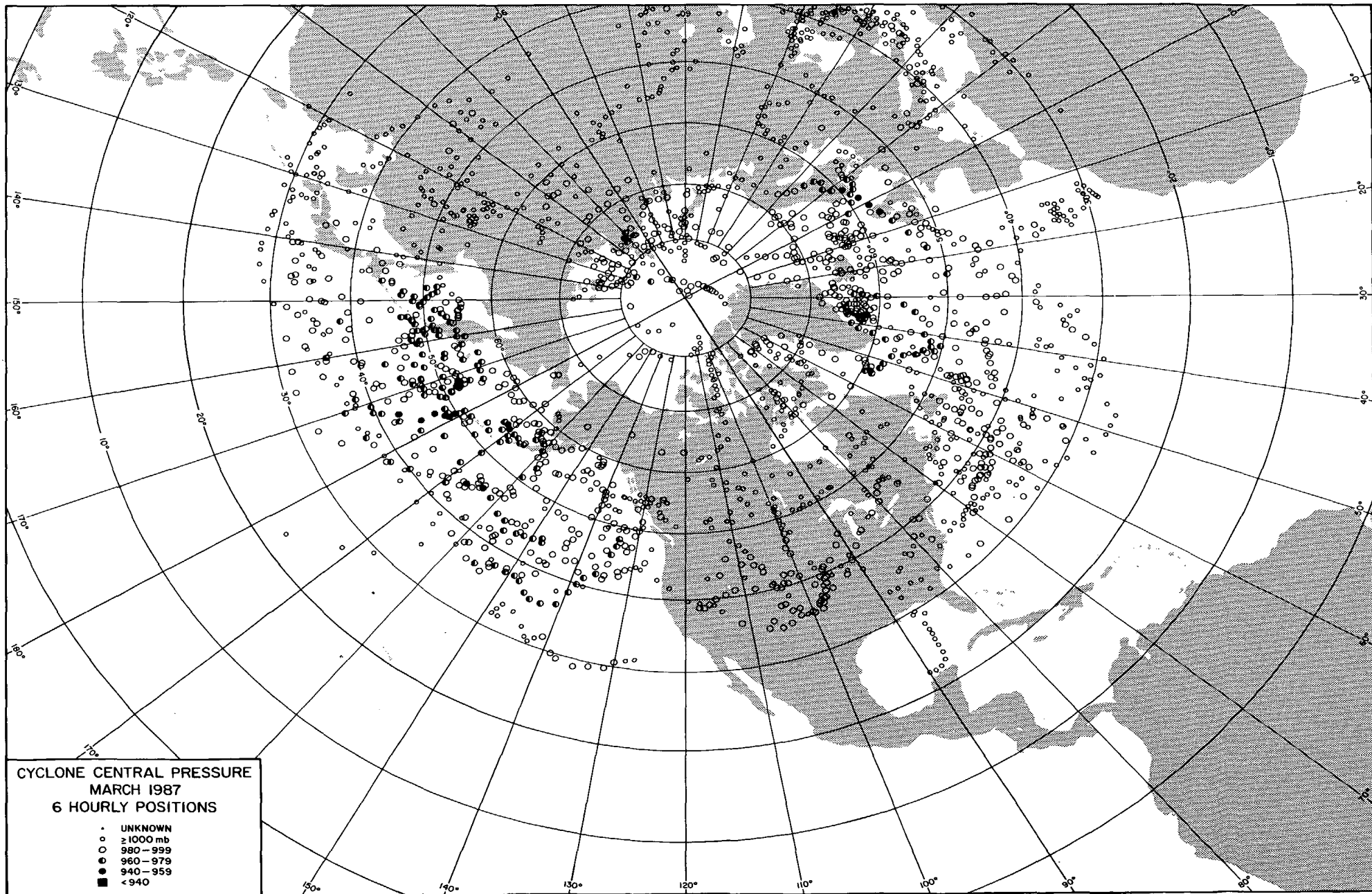
**CYCLONE TRACKS  
MARCH 1987**

**NUMBER OF CYCLONES**

- 15 BEGAN IN PREVIOUS MONTH
- 100 BEGAN AND ENDED IN THIS MONTH
- 13 CONTINUED INTO NEXT MONTH

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- 128 TOTAL CYCLONES IN MAP



**CYCLONE CENTRAL PRESSURE  
MARCH 1987  
6 HOURLY POSITIONS**

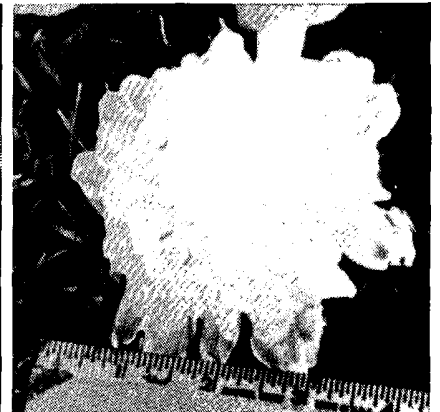
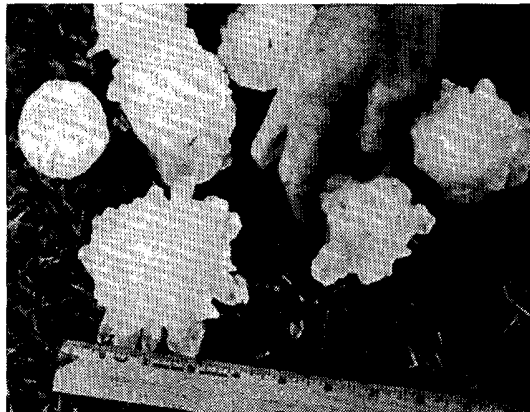
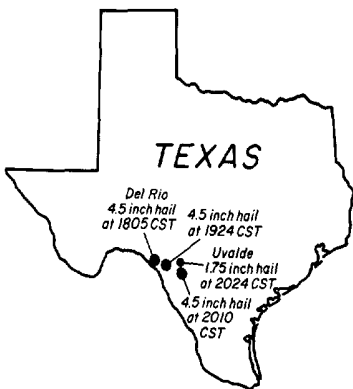
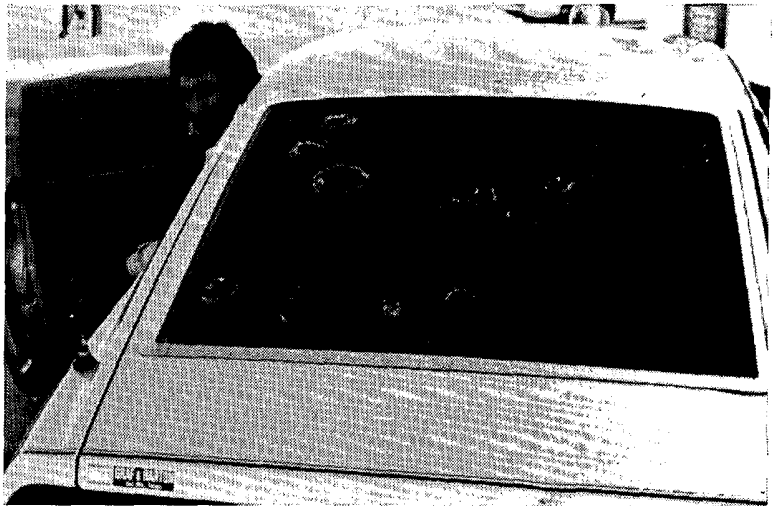
- UNKNOWN
- ≥ 1000 mb
- ◌ 980-999
- ◌ 960-979
- 940-959
- < 940

Mapped at the University of Chicago from NMC, 6-hourly surface maps

1. LARGE HAIL at DEL RIO, TEXAS on March 16, 1987

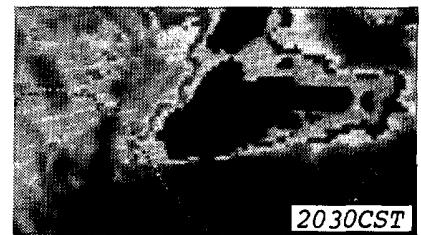
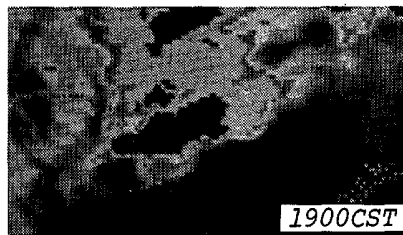
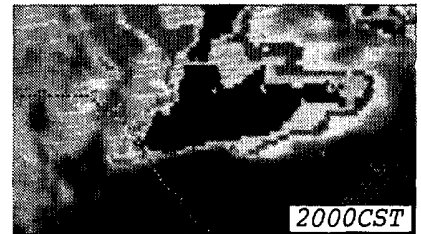
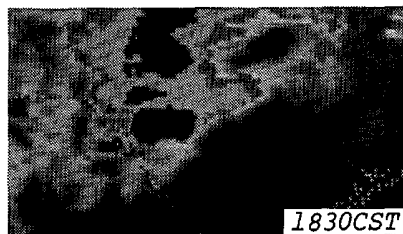
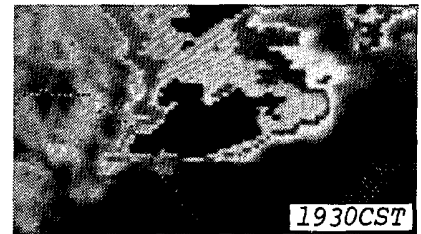
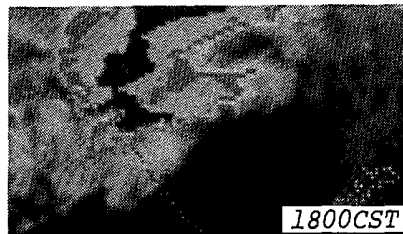
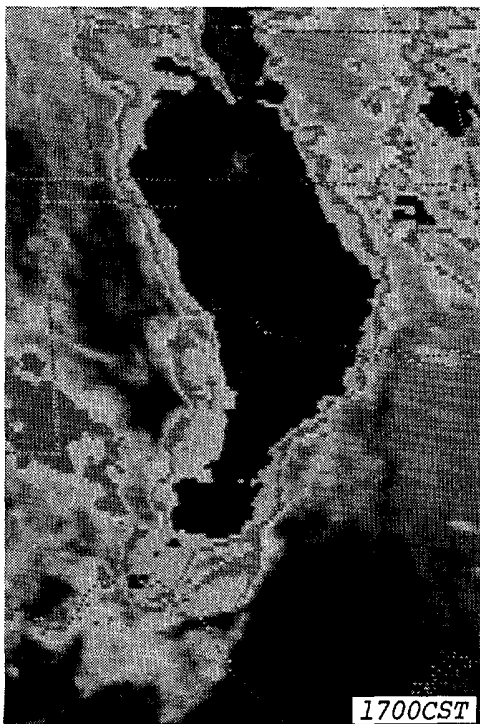
A small-but-growing thunderstorm dropped hail of up to 4.5 inches in diameter over the Del Rio, Texas area during the early evening of March 16th. The large stones fell in at least 3 locations within and to the east of the city in slightly over 2 hours (see map below). Cars suffered the brunt of the damage which was well into the millions of dollars, and three people were injured when the stones crashed through a shopping mall skylight.

RIGHT: A damaged auto at Del Rio.



Locations in Southern Texas where large hail stones fell on March 16, 1987.

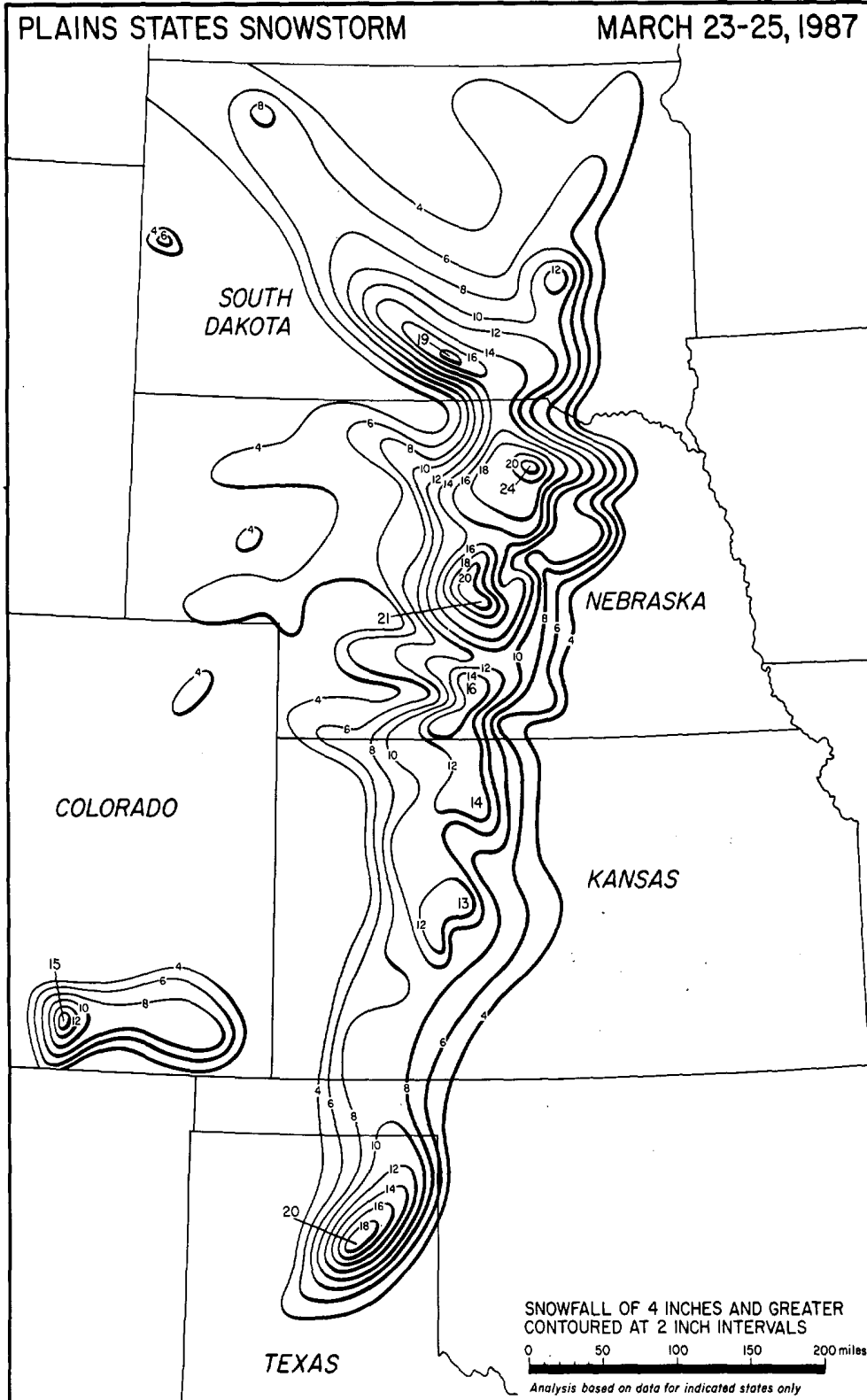
Examples of the Del Rio hail stones. Some were single spherical stones while others were accretions of smaller stones bonded to a single larger stone. ---All above photos by Dale Reed, NWSO at Del Rio, TX; supplied by Bill Hare, NWSFO at San Antonio, TX.



GOES 6 satellite, infrared images showing the growing storm, at the south end of a line of cells in the Southern Plains, as it produced the large hail in the Del Rio area. ---Photos from NESDIS.

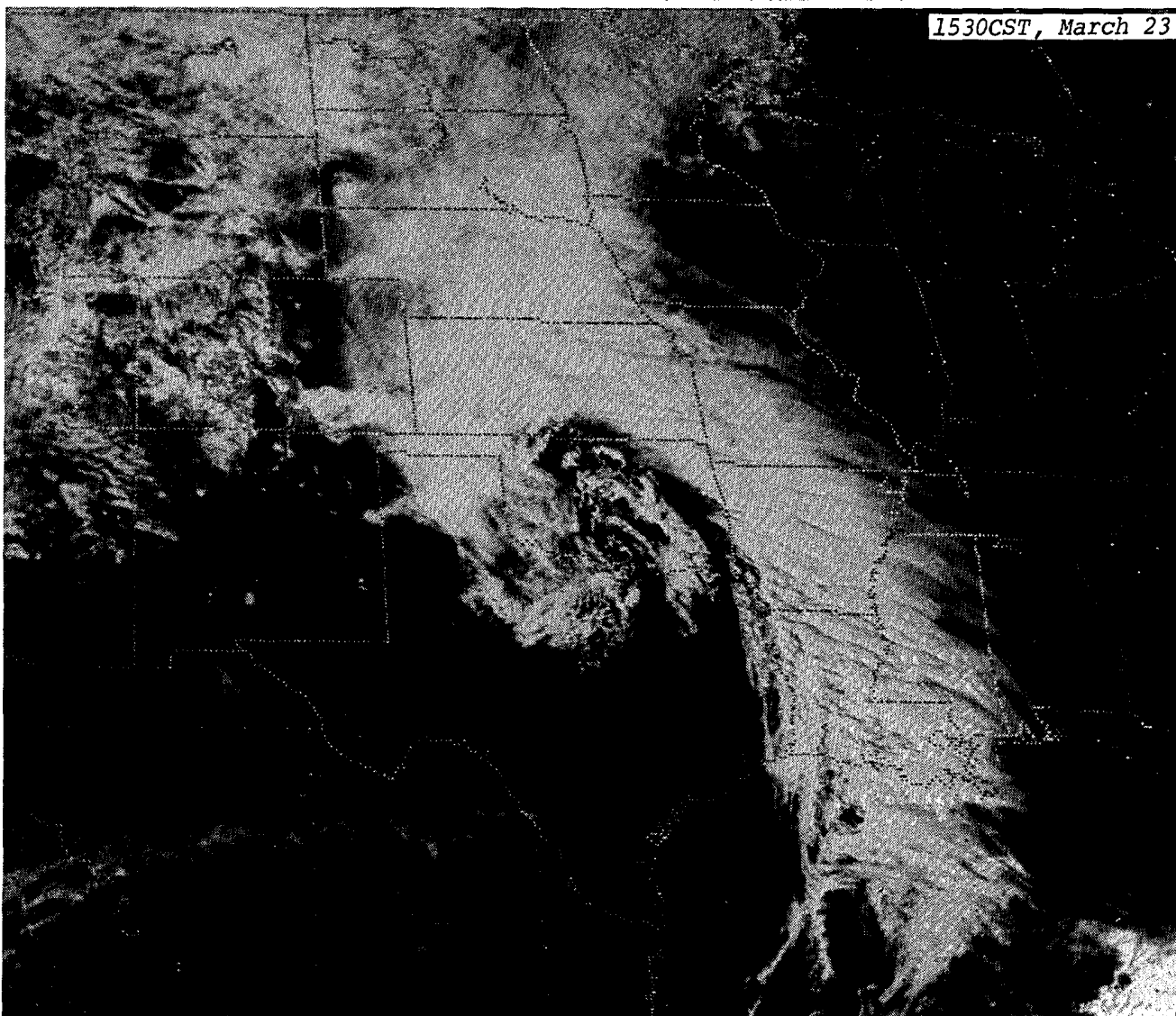
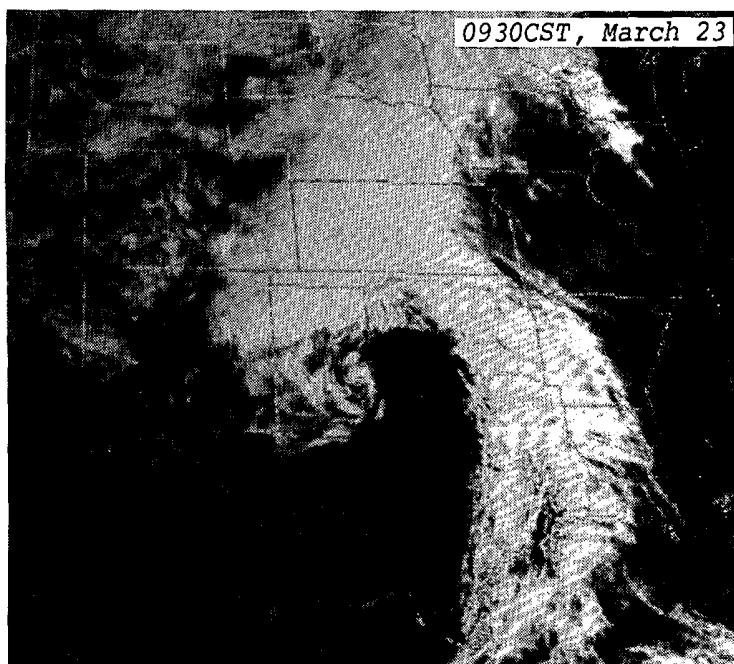
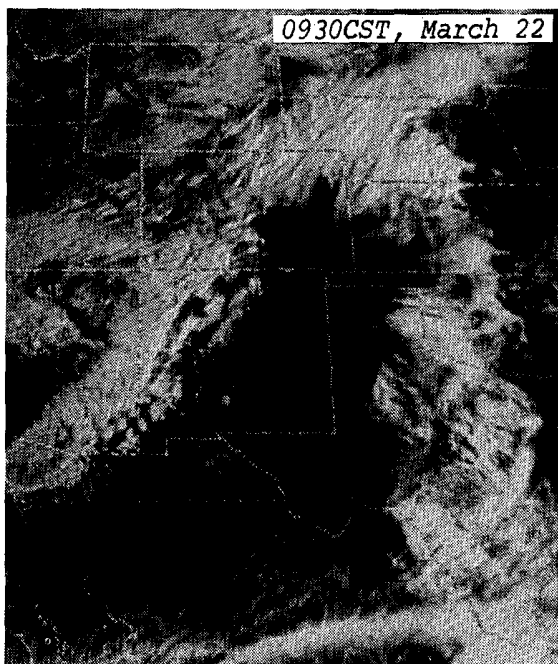
## 2. SNOWSTORM in the PLAINS STATES on March 23-25, 1987

The first of two major winter storms to strike the Central U.S. in the last week of March left a south-to-north band of heavy snowfall through the Plains states on the 23rd through the 25th. The storm had spread blizzard conditions through the panhandles of Texas and Oklahoma, western Kansas, and central Nebraska and South Dakota as winds of up to 60 mph reduced visibility to zero in blowing snow. The snowfall in Texas was especially unusual for being so heavy and late in the season; the 20 inches that fell in Pampa caused roofs of some buildings to collapse.



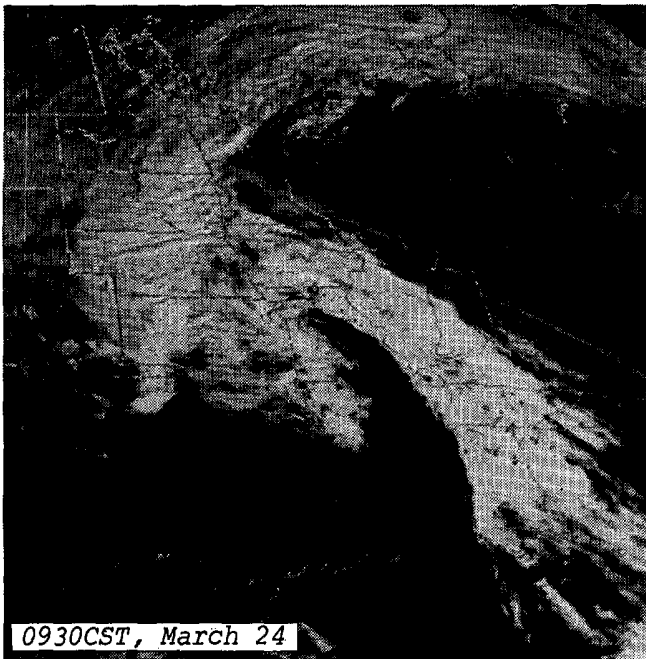
---Mapped by the University of Chicago from data or analyses supplied by the Colorado Climate Center, CSU, Fort Collins, CO; and NWSFO's at Topeka, KS; Omaha, NE; Sioux Falls, SD; and Lubbock, TX.

SNOWSTORM in the PLAINS STATES ---- continued

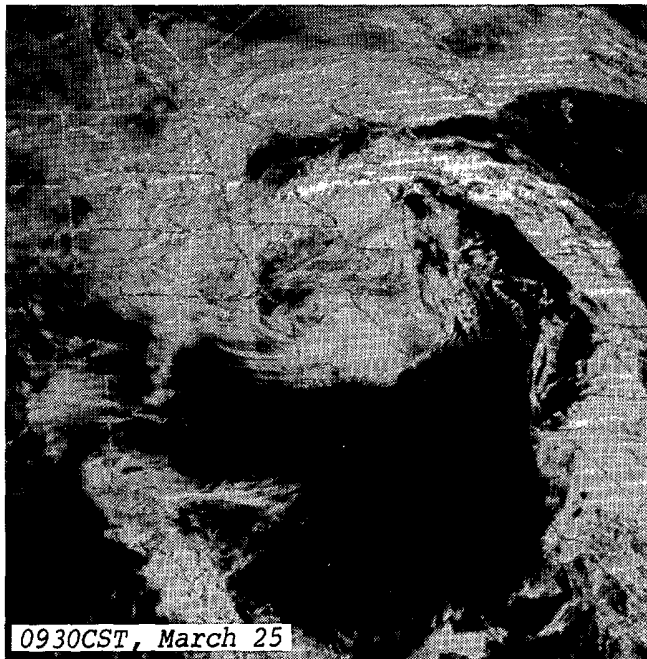


GOES 6 satellite, visible images show the comma cloud of the snowstorm on March 22nd and 23rd as it moved from the Four Corners states into the Southern Plains. Note the jet stream cirrus over northern Mexico. ---Photos from NESDIS.





0930CST, March 24



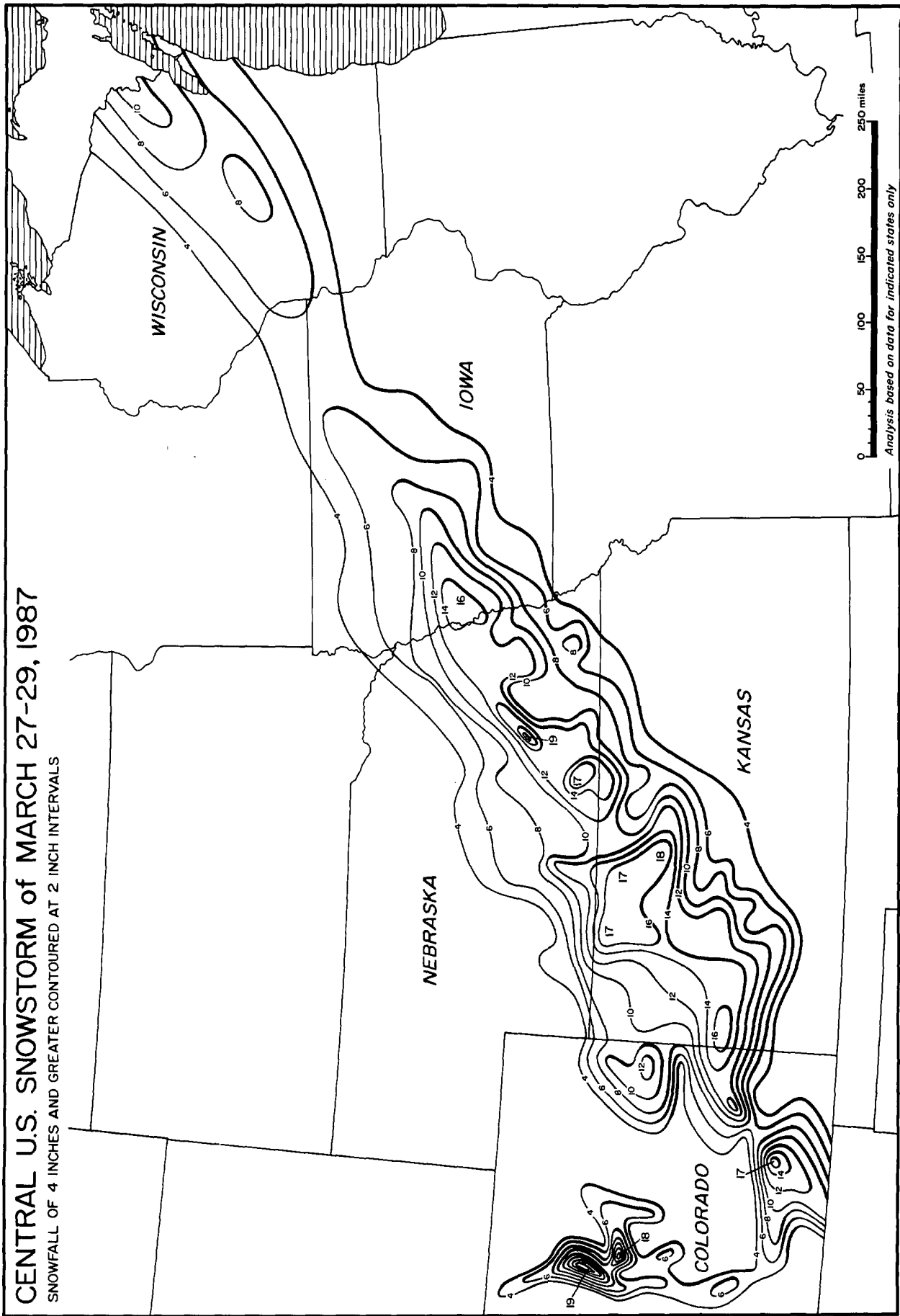
0930CST, March 25

Satellite coverage continued from the previous page shows the storm on the 24th and 25th as it stalled in the mid-section of the nation. The storm developed two circulation centers on the 25th; in the photo, one is over Kansas City and the other is just west of Rockford, Illinois. ---Photos from NESDIS.



A narrow one-lane path cleared through a snowdrift on 14th Street in Hoxie, Kansas made the road passable if not easily usable to local traffic on March 25th, shortly after the first storm. A second storm, on March 27th to 29th, quickly reclosed roads in the region before much additional cleanup could be done. ---Photo by the Hoxie Sentinel and supplied by the NWSFO at Topeka, KS.

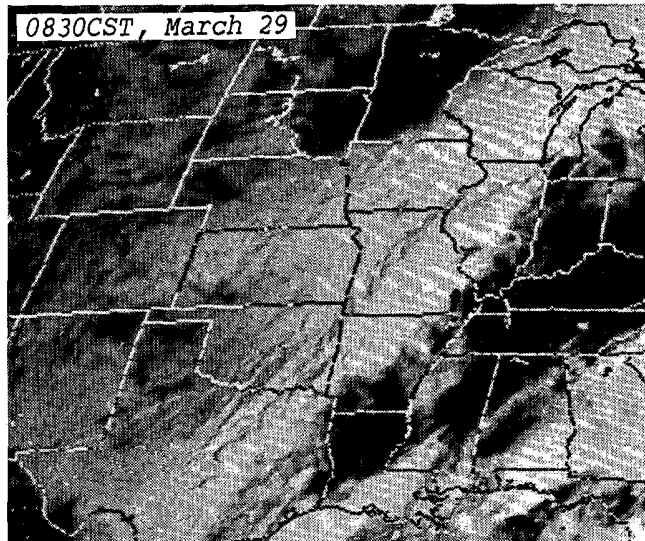
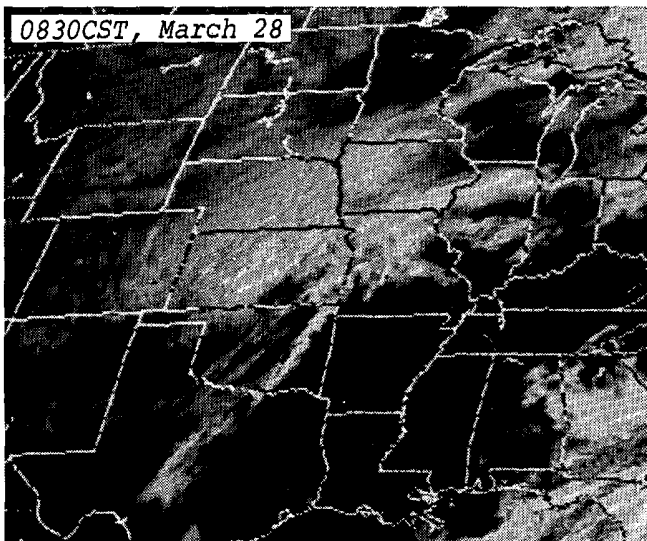
3. SNOWSTORM in the CENTRAL U.S. on March 27-29, 1987



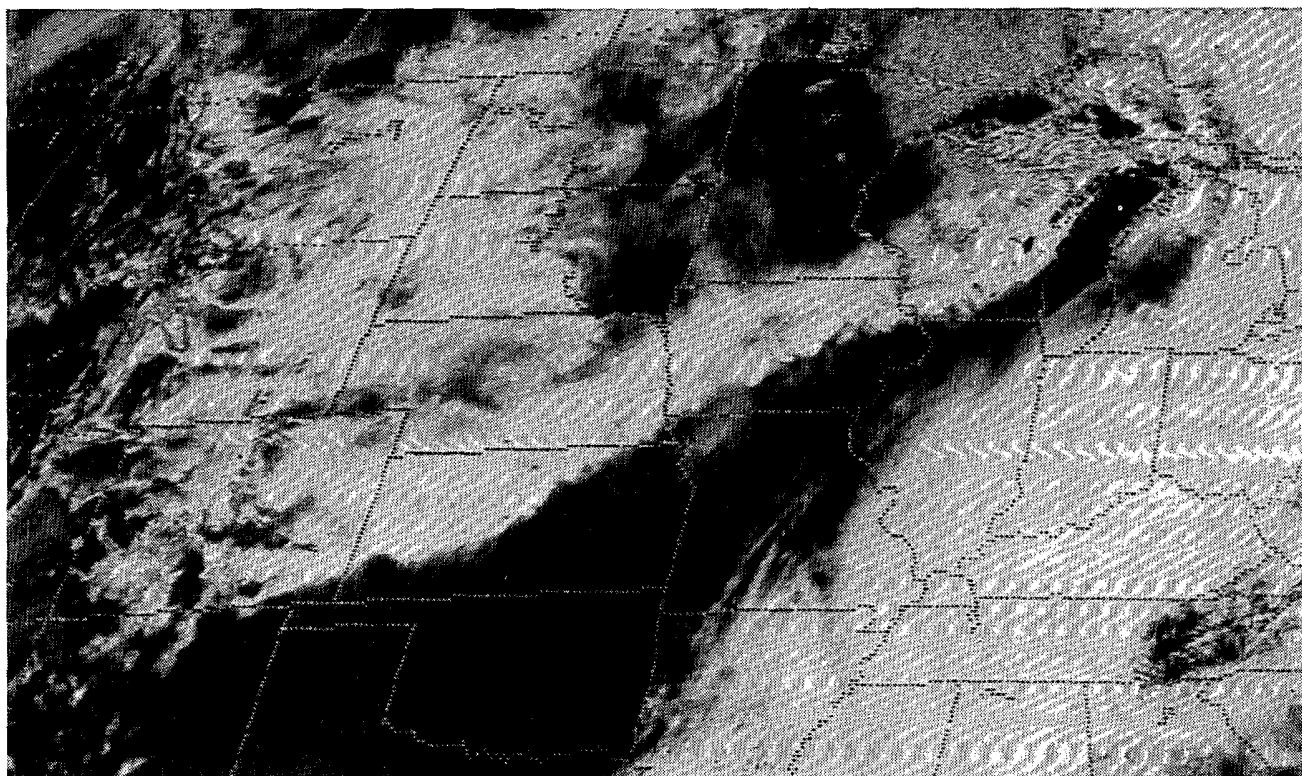
---Mapped by the University of Chicago from data or analyses supplied by the Colorado Climate Center, Colorado State University, Fort Collins; and NWSFO's at Des Moines, IA; Topeka, KS; Omaha, NE; and Milwaukee, WI.

## SNOWSTORM in the CENTRAL U.S. ---- continued

On March 27th through 29th, the second major winter storm in a week moved through the Central U.S., this time leaving a band of heavy snowfall in a west-southwest to east-northeast direction from Colorado to Wisconsin. Hardest hit were portions of Kansas and Nebraska where the new snowfall had added substantially to that left by the previous storm and blizzard conditions were again experienced. The heavy snow and high winds produced zero and near-zero visibilities that made travel impossible during the storm, and massive drifts that kept roads closed for several days thereafter, severely curtailing travel subsequent to the storm. The livestock industry suffered especially large losses because thousands of cattle died as a result of the quick succession and severity of the two storms.

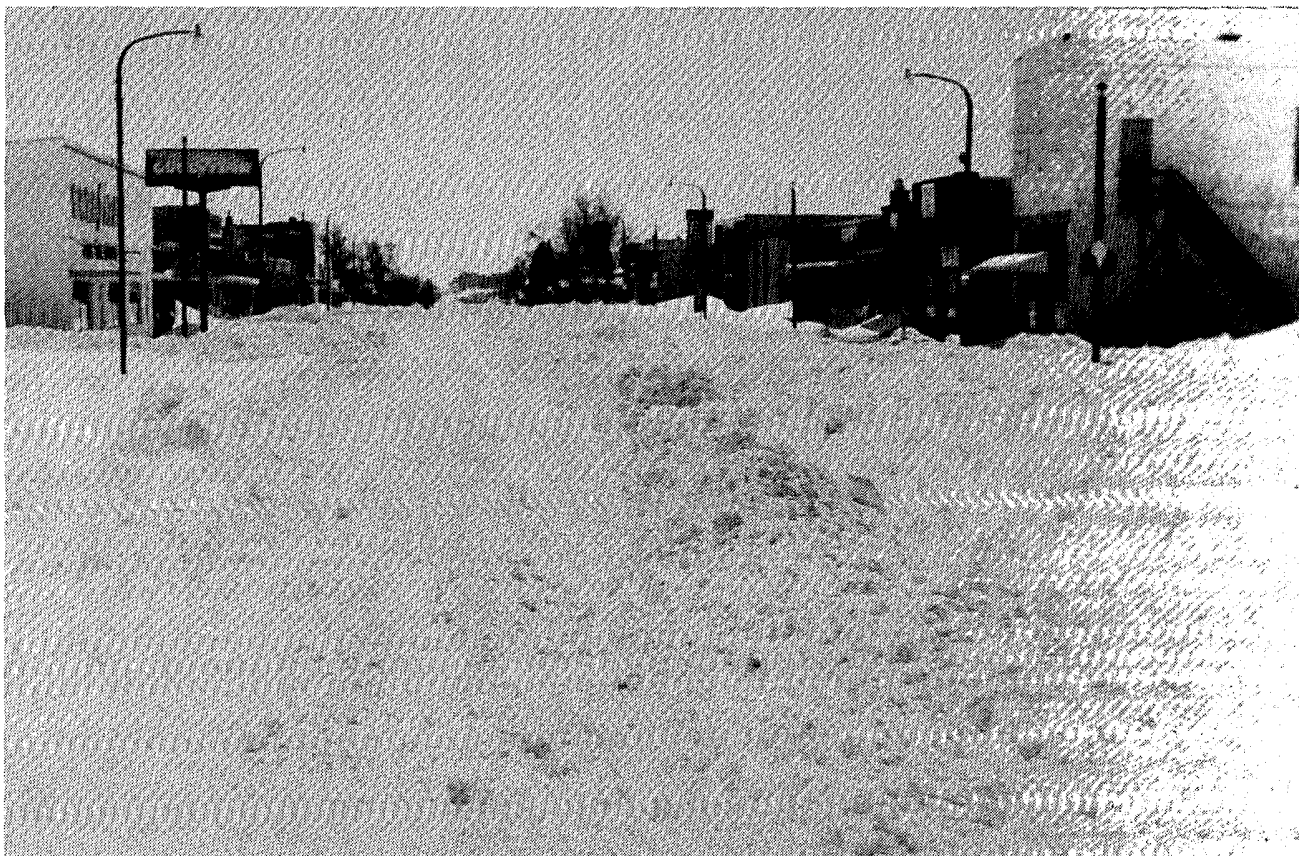
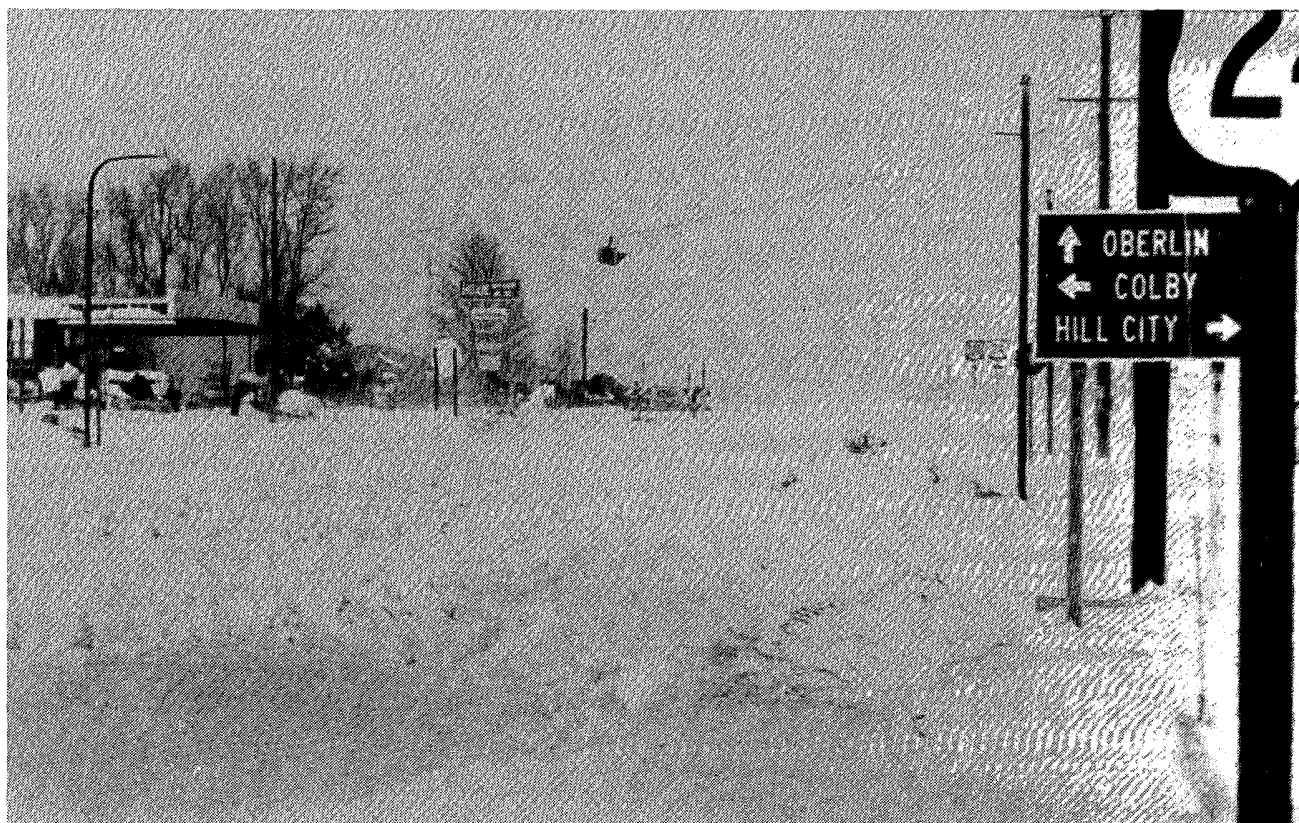


GOES 6 satellite, visible images of the second storm show it to have moved more quickly and with less definition in structure than the previous storm, even though it made just as large an impact, if not greater. ---Photos from NESDIS.



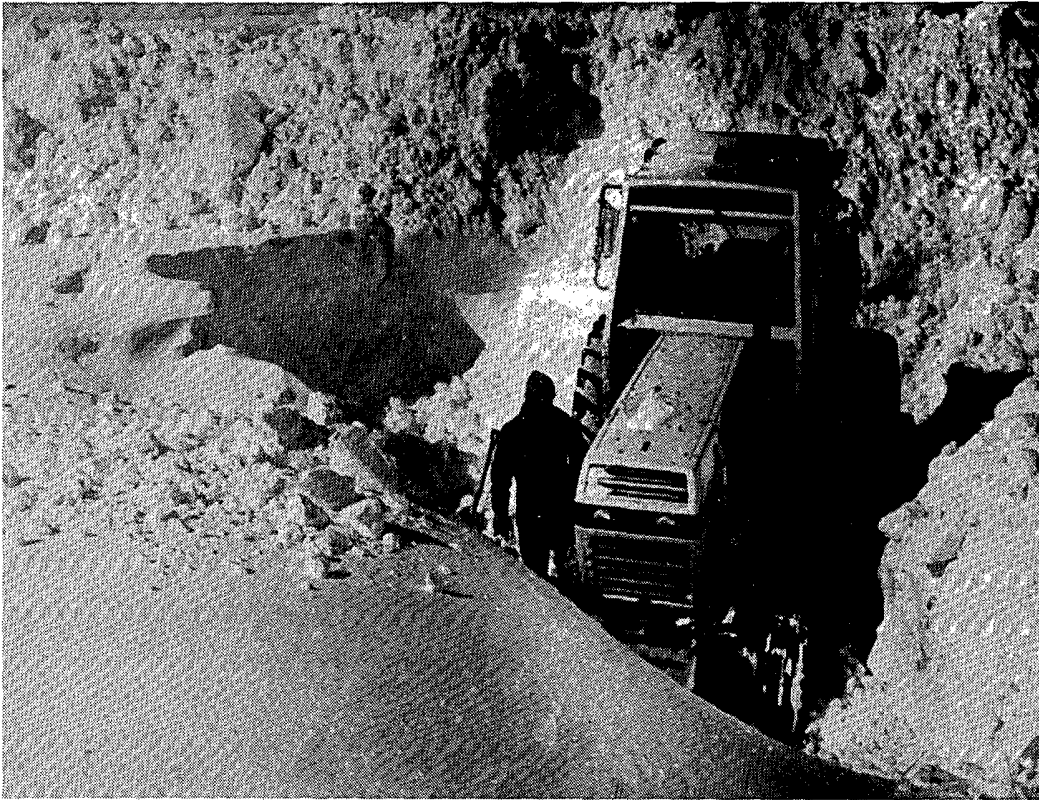
This GOES 6 satellite, visible image, taken at 1130 CST on March 30th when most of the western two-thirds of the nation was cloud free, reveals the trail of snow from Colorado through Wisconsin that was left in the storm's wake. ---Photo supplied by the NWSFO at Topeka, Kansas.

SNOWSTORM in the CENTRAL U.S. ---- continued



Above views of Hoxie in northwest Kansas show the intersection of U.S. Highway 24 and Kansas Highway 23 (looking north) and Hoxie's Main Street (looking south on KS-23) at top and bottom, respectively. The desolate scenes, captured at 1300CST on Sunday, March 29th, resulted from drifting that persisted in the wake of the second storm, keeping all area roads closed. ---Both photos from the Hoxie Sentinel, Hoxie, Kansas; and supplied by the NWSFO at Topeka, Kansas.

SNOWSTORM in the CENTRAL U.S. ---- continued



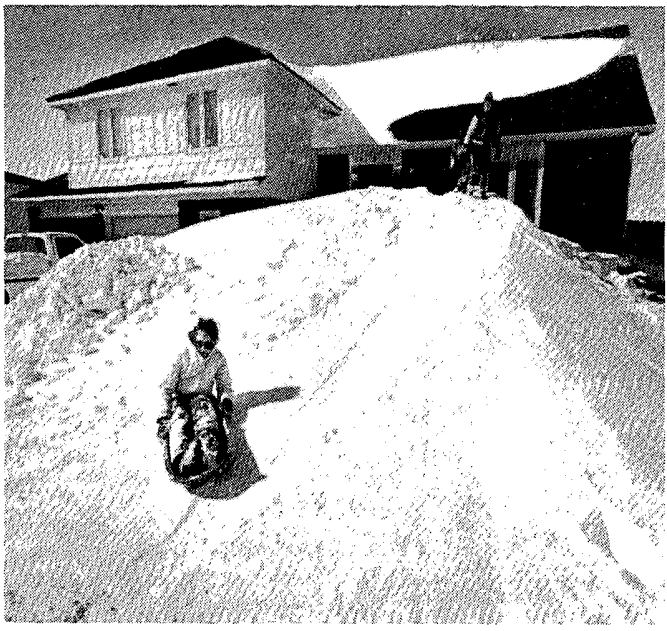
The tractor above became stuck in a massive drift as it was used to help clear U.S. Highway 36 east of Phillipsburg, Kansas on March 31st. It took crews two days just to clear a couple miles of the highway, and drifts on some area roads were reported as being as high as 30 feet. ---Photo from the Phillips County Review, Phillipsburg, Kansas.



A Hays, Kansas resident takes a break from digging out his car on the afternoon of the 29th. As it was for many homeowners, his house acted as an unintentional windbreak that allowed a giant drift to form over his driveway and car. ---Photo by Charlie Riedel, The Hays Daily News. Both above photos supplied by the NWSFO at Topeka, Kansas.

SNOWSTORM in the CENTRAL U.S.

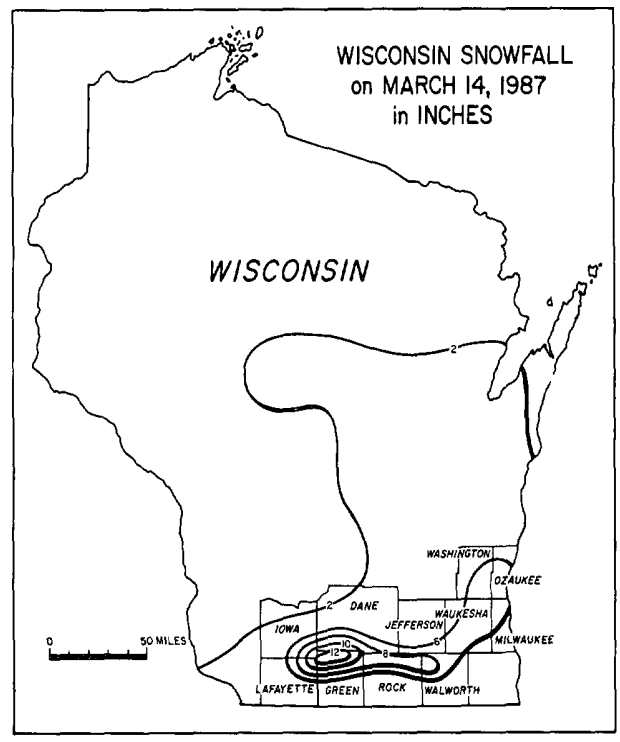
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This home's drift, also in Hays on the 29th, became an instant attraction to children as a frontyard sledding hill. ---Photo by Charlie Riedel, The Hays Daily News; supplied by the NWSFO at Topeka, Kansas

4 ISOLATED, HEAVY SNOW in SOUTH-ERN WISCONSIN on March 14, 1987

On the afternoon of March 14th, an unusually narrow (10-mile wide) band of heavy snow fell across southern Wisconsin. Snowfall of 8 to 12 inches covered a limited area including northeast Lafayette and southern Dane counties, and northern portions of Green, Rock, and Walworth counties (see map below). The snow fell parallel to an east-west front in central Illinois, between which mostly rain fell as low pressure deepened to the west.



---Analysis provided by the NWSFO at Milwaukee, Wisconsin.

5. HIGH WINDS in the NORTH-EAST on March 31, 1987

A slow-moving low pressure system brought high winds to the Northeast as it crossed the eastern seaboard on March 31st. The nonconvective winds, often in excess of 60 mph, downed trees and limbs onto power lines which resulted in small-but-numerous power outages throughout the region. At right is a snapped-off tree top that became snarled in live power lines in Mamaroneck, New York as winds up to 61 mph from the south-southeast buffeted the area.



---Photo by Jack "Thunderhead" Corso, Thunderhead International, Harrison, New York; copyright 1987.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ESTIMATED <sup>1</sup> DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>1 ALABAMA</b>									
Mobile County	18	0005-0600CST			0	0	3	0	Flash Flooding
					Heavy rains between 2 and 3 inches wore down a retaining dike of a farm pond in northwest Mobile County causing water to spill into an adjacent creek. Heavy downpours also caused flooding along many major thoroughfares in the city of Mobile.				
Mobile County	18	0500CST			0	0	3	0	Lightning
					Lightning started a house fire in Saraland. No one was at home at the time of the fire.				
ALZ001-003-004-006-007-016-018 North, Northeast, North-Central, East, Extreme South, and Southeast Alabama	18	0200-1200CST			0	0	5	0	High Wind
					Circulation around an intense low pressure system over the Great Plains states caused strong gusty gradient winds to rip through much of Alabama. The strongest winds occurred during the early morning hours when gusts to 58 mph were recorded at Muscle Shoals and Gadsden; 60 mph at Ft. Payne, Hamilton and Dothan; and over 50 mph at Mobile and Birmingham. Wind gusts in the 40 to 50 mph range were quite common statewide. Uprooted trees and widespread power outages were reported throughout Alabama. In addition, there were several reports of portions of roofs torn from houses and buildings. Several mobile homes were lifted off their supports and partially destroyed. In downtown Birmingham, part of an 80-foot high, solid concrete wall from a six-story parking deck collapsed covering a portion of a sidewalk and a street. A structural engineer determined that the concrete panel was "sucked out" by wind swirling outside the building. Police reported that it was a miracle no one was killed or injured.				
Marion County	18	1945CST			0	0	0	0	Hail (0.75)
					Hail up to 3/4 inch in diameter occurred at Hackleburg in central Marion County. No damage was reported.				
Franklin County and Colbert County	18	2010CST			0	0	0	0	Hail (0.75)
					Hail up to 3/4 inch in diameter occurred in the Burnout Community in central Franklin County and in middle Colbert County. No damage was reported.				
Franklin County	18	2012CST			0	0	0	0	Hail (0.75)
					Hail up to 3/4 inch in diameter occurred in Franklin County just west of the city of Russellville. No damage was reported.				
Marion County	18	2045CST			0	0	0	0	Hail (1.75)
					Golf ball-sized hail occurred in Hamilton in northwest Marion County. No damage was reported.				
Mobile County	29	1610CST			0	0	3	0	TSTM Wind
					In the city of Mobile, power lines were downed and window and street lights were broken. Nearly 2 inches of rain fell at the Mobile Airport in one-half hour.				
Morgan County	29	1852CST			0	0	0	0	Hail (1.75)
					Golf ball-sized hail occurred in the city of Decatur. No damage was reported.				
Limestone County	29	1930CST			0	0	3	0	Lightning
					Lightning struck several utility poles in Athens, causing power outages. Several large tree limbs fell onto power lines near U.S. 31. Marble size hail fell in Athens.				
<b>2 ARIZONA</b> ————— NONE REPORTED									
<b>3 ARKANSAS</b>									
Little River County	16	2330 CST			0	0	-	-	Thunderstorm Wind
					Strong wind gusts caused substantial tree damage in Cerrogordo, according to the county Civil Defense.				
Little River County	17	0100 CST			0	0	-	-	Flash Flooding
					Heavy rains caused flooding in Winthrop, flooding the school and cancelling classes.				
Nevada County	17	0130 CST			0	0	?	-	Flash Flooding
					Urban flooding was reported in Nashville as a result of heavy rains. Arkansas Highway 27 had some spots under water west of Nashville. The county jail was also flooded at Nashville.				
<b>— ARKANSAS</b>									
Crittenden County	17	1100 CST			0	0	2	-	Thunderstorm Wind
					A large tree was split by strong winds. It barely missed the West Memphis Home, but it did crush the chain link fence.				
Prairie County	17	1445 CST			0	0	4	-	Thunderstorm Wind
					Strong gusts from a thunderstorm blew down a huge pecan tree across a Des Arc residence.				
Monroe County	17	1500 CST			0	0	3	-	Thunderstorm Wind
					Many trees and power lines were blown down across the county, especially at Brinkley and Clarendon. One wall of an old building was blown down after part of the roof was blown off. Many other roofs and signs were destroyed.				
Crawford County	21	1900 CST			0	0	?	-	Hail (1.50)
	21	1905 CST			0	0	?	-	Hail (0.75)
					Large hail was reported at Natural Dam and in Alma as a thunderstorm moved east.				
Prairie County	23	2100 CST			0	0	3	-	Thunderstorm Wind
					Straight-line winds damaged the roofs on the old and new gymnasium at Des Arc High School. Another building, used for bus housing, was also damaged.				
Miller County	26	1250 CST			0	1	-	-	Thunderstorm Wind
					A man was up on a pine tree in Texarkana when a strong gust of wind caused him to get pinned in the tree. He was caught up in the tree for 30 minutes and received a cut on his right hand.				
<b>4 CALIFORNIA, Northern</b>									
CAZ001	04	0825PST			1	0	4	0	High Wind
CAZ006-007	04	1000-2200PST			0	1	5	5	High Winds
CAZ002	04	2200PST			0	0	0	0	High Winds
					Strong winds ahead of a slow-moving cold front blasted across Northern California. Gusts reaching 50 mph caused a 2-foot-diameter tree limb to fall onto an automobile near Willits, killing the driver. Winds in Siskiyou County were estimated at up to 90 mph, and were confirmed at 78 mph near Yreka. Extensive property damage to a number of structures was reported in Scott Valley, Siskiyou County, where six piggyback trailer cars were derailed as well. Winds gusted to 75 mph at Arcata and to 50 mph in San Francisco Bay and along the northwest coast. Winds broke a tree limb in Chico, injuring a student at Chico State University. M17V				
CAZ005	05	0100-1100PST			0	0	0	0	High Winds
					Strong downslope winds from the Tehachapi Mountains gusted to 100 mph at the Wheeler Ridge Pumping Plant and to 49 mph at the Bakersfield Airport.				
CAZ009	13	0100-1100PST							Heavy Snow
					An unseasonably cold storm from the Gulf of Alaska dumped between 8 and 16 inches of snow over the northern Sierra Nevada at the 7000-foot level.				
Tehama County, 10W Corning	14	1605PST	0.25	70	0	0	5	3	Tornado (F0)
					A cold upper low spawned reports of numerous funnel clouds in Tehama County. One touched down at a turkey farm near Corning and destroyed 5 structures.				
CAZ010	18	0800-1600PST			0	0	4	0	High Winds
					Strong westerly winds channeled down the east slopes of the Sierra Nevada and into the Owens Valley gusted to 100 mph, causing widespread minor damage and the overturning of an empty semi-trailer.				
CAZ001-006-007-008-009-010	20-21	2000-2000PST							Heavy Snow
					A very cold upper low dropped 1 to 3 inches of snow near Redding and up to a foot at Paradise. Ten to 15 inches fell in the Sierra Nevada.				

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>4 CALIFORNIA, Southern</b>									
CAZ013 Coastal Areas and all Valleys	5	all day			3	?	?	0	Heavy Rains
									Rainfall in the mountains above Santa Barbara and Ventura counties exceeded one and one half inch (1.50). Rain slick roads caused numerous accidents and several motorist deaths. M39V M28V M38V
All areas	15	0330PST- 2130PST			0	0	?	0	High Winds
									Gale force winds occurred over the coastal waters and winds near 50 mph in the mountains and deserts. Imperial reported winds in excess of 50 mph.
Owens Valley, Mountains, and Northern Deserts	18	1000PST			0	0	?	0	High Winds
									Winds were in excess of 50 mph throughout the Owens Valley. The winds extended into the upper deserts and into the mountains.
Owens Valley	18	1000PST			0	0	?	0	High Winds
									Mammoth Airport reported winds gusting to 70 mph. Independence reported winds of over 50mph. There were reports of some small damage.
Owens Valley	18	1030PST			0	?	?	0	High Winds
									A tractor-trailer was overturned by high winds 15 miles north of Bishop. Crowley Lake reported winds from 83 to 97 mph.
Mountains of Southern California	21	0800PST through 2200PST			0	?	?	?	Winter Storm
									An intense winter storm slipped along the Northern California coast and into Central and Southern California. Heavy snow was produced over the mountains with 1-2 inches an hour. By the time the storm finished, 6 to 8 inches of new snow had fallen. Visibilities were less than one eighth of a mile during most of the day.
All areas	22	all day			0	0	?	0	High Winds
									In the wake of the winter storm of the previous day, the winds began to increase. Reported were winds of 50 mph over the mountains. The winds extended to the coastal locations and over the coastal waters.
Northern and Southern Deserts	23	all day			0	0	?	0	High Winds
									Winds in excess of 40 mph throughout all the desert, over the mountains and into the valley and coastal areas prompted numerous advisories, but no damage reports.
<b>5 COLORADO</b>									
Mountains, Eastern Foothills COZ002-004-008- 010-011-014-015	16				0	0	4	0	Heavy snow
									A storm brought heavy snow to several areas of Colorado. A foot fell in Colorado Springs, downing power lines and tree limbs and forcing some schools to close. The Colorado Springs airport was closed all morning. 17 inches of snow fell at Echo Lake, in Clear Creek County near Mt. Evans; 10 to 12 inches whitened the San Juan Mountains in southwestern Colorado. Many spots in and near the eastern foothills received 3 to 6 inches, but 8 to 11 inches fell in Larimer County near Fort Collins.
Northwest Plateau, Southwest Mountains COZ001-008	19-20				0	0	0	0	Heavy snow
									10 to 14 inches of snow fell in the San Juans. The northwest plateau also received substantial snow, with 7 inches at Craig and 8 inches at Meeker.
Otero County	20	1143MST			0	0	3	0	High wind
									A gust of 64 mph was reported in La Junta. A tree was blown over onto a pickup truck.
<b>COLORADO</b>									
El Paso County	20	1333MST			0	0	3	0	High wind
									A gust of 86 mph was clocked just west of Colorado Springs at the Garden of the Gods. Some phone lines were blown down in Colorado Springs, and there were brief power outages.
Otero County	21	1052MST			0	0	0	0	High wind
									A gust of 59 mph was noted at La Junta.
Mountains COZ002-004-008-010	21-23				0	0	0	0	Heavy snow
									Snow fell throughout the period in the Colorado Rockies. A total of 24 inches piled up at Wolf Creek Pass in the San Juans, with Red Mountain Pass accumulating 22 inches. Many other mountain sites received 8 to 16 inches.
Extreme Northeast COZ013	24				0	0	0	0	Snow, Wind
									Near-blizzard conditions caused many roads in extreme northeast Colorado from Interstate 70 north to be closed. Some schools near the Kansas and Nebraska borders were also closed.
Northern Mountains, East COZ002-011-012- 013-014-015-016- 017	27-28				0	0	5	0	Snow, Wind
									Snow and wind closed highways in eastern Colorado for the second time in less than a week. Blizzard conditions stranded travelers in many towns throughout eastern Colorado, including La Junta, Limon, Castle Rock, and Burlington. I-25 was closed from Castle Rock to Colorado Springs on the 27th and 28th. I-70, first closed from east of Denver into Kansas on the afternoon of the 27th, was not opened completely in Colorado until midday on the 30th. Virtually all highways in southeastern Colorado were closed on the 27th and 28th. This area was hardest hit by the storm; up to two feet of snow fell south of Burlington, and drifts 6 to 8 feet high formed near that town.  Many newborn calves in eastern Colorado were killed by the storm, and there were numerous school closures. Snow and blowing snow caused flight delays of up to 3 hours at Denver's Stapleton Airport on the 27th.  Snowfall amounts over much of eastern Colorado ranged from 3 to 8 inches. However, 10 to 20 inches fell at many spots in the eastern foothills. The greatest amount reported was 24 inches at San Isabel, southwest of Pueblo in Custer County. The northern mountains were also buried; 18 inches fell at Steamboat Springs, and 14 inches at Beaver Creek.
<b>6 CONNECTICUT</b>									
CTZALL Statewide	31	0200- 2100EST			0	0	6	0	High Winds
									High winds from the southeast and south, and gusting up to near 60 mph brought down trees, tree limbs and wires, which resulted in power outages to up to 91,000 residents across the state. The power outages lasted for varying time periods. The winds and accompanying wave action caused up to a total of \$200,000 in damage to boats and piers on the waterfront in Stamford. Also in Stamford, the metal roof of a library was lifted off by the winds. A two-story house under construction collapsed in Greenwich. The peak wind gusts reached 62 mph at Bradley International Airport in Windsor Locks.
CTZ001-002 Central and Northern Portions	31	all day			0	0	6	0	Floods and Heavy Rain
									Very heavy rainfall amounting to between 2 and 5-1/2 inches pelted the state, and the state's three major rivers began rising toward flood stage. Part of the Kennerly Reservoir dam in Berlin was washed away and a section of nearby roadway was washed out downstream from the dam. The Housatonic River reached a crest of 13-1/2 feet, several feet above flood stage, at the Stephenson Dam. Snowmelt and the runoff from the rain sent the Connecticut River to the flood stage of 16 feet at the city of Hartford, and the river continued to rise.
<b>7 DELAWARE</b> ————— NONE REPORTED									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>8 FLORIDA</b>									
Monroe County, Key West	07	0400EST			0	0	2	0	TSTM wind (57)
									A wind gust of 57 knots was recorded. A porch was damaged by the high wind.
St. Lucie County, Port St. Lucie	07	0900EST	1.0	30	0	0	3	0	Tornado (F0)
									A tornado was sighted that blew a boat over a camper vehicle and damaged another camper. Power lines and stop signs were downed and several condominiums had windows blown out.
Flagler County, Beverly Beach	07	1500EST	1.0	30	0	0	3	0	Tornado (F0)
									A tornado was sighted that damaged a screen patio and a house roof.
Escambia County, Pensacola Beach	18	0430CST			0	0	5	0	TSTM wind (60)
	18	0430CST			0	0	4	0	Lightning
									A thunderstorm wind gust to an estimated 60 knots damaged a construction site. Debris blew from the site and destroyed a motel office. Lightning started a fire that destroyed a building.
Gadsden County, Quincy	26	1120EST			0	0	0	0	Hail (1.25)
									Hail 1.25 inches in diameter was reported by a TV weatherman.
Lake County, Montverde	29	0345EST			0	0	4	0	TSTM wind (75)
	29	0345EST			0	0	0	0	Hail (2.0)
									Several mobile homes were destroyed and several were damaged by high wind. Hail 2.0 inches in diameter was reported. A pickup truck was blown onto its side.
Pasco County, Zephyrhills	29	1130EST	0.5	20	0	0	0	0	Tornado (F0)
									A tornado was sighted on open ground.
Citrus County, Crystal River	30	0400EST			0	0	4	0	TSTM wind (60)
									High wind blew the metal roof off of a marina pier and several boats were damaged by high wind and debris.
Dade County, Homestead	31	0425EST			0	0	3	0	TSTM wind (60)
									High wind destroyed the metal roof of an automobile body shop. Several trees were downed by high wind.
<b>9 GEORGIA</b>									
Polk County, Cedartown	25	0740EST			0	0	4	0	Tstm.Winds
									Thunderstorm winds uprooted trees and damaged a warehouse in Cedartown. One tree fell on a house.
Pierce County, 2SE Blackshear	25	1600EST			0	0	4	0	Tstm.Winds
									Thunderstorm winds uprooted trees and heavily damaged a house near Blackshear.
<b>10 IDAHO</b>									
IDZ009 Sandpoint area	2-	1200-			0	0	0	0	Heavy Snow
	3	1200PST							Fourteen inches of snow fell at the Schweitzer ski area.
IDZ009 Kootenai, Bonner, and Shoshone Counties	2-	1700-			0	0	3	0	Flood and Mud Slide
	3	1700PST							Nearly 2-1/2 inches of rain fell on already saturated ground during a 24-hour period, flooding basements, putting low-lying areas under water, and causing power outages. A mud slide buried part of a county road and an adjacent residential back yard at Smelterville.
IDZ002 Twin Falls area	19	all day			0	0	0	0	Heavy Snow
									The South Hills area south of Twin Falls was covered with 10 inches of new snow on the 19th. Over the 3-day period from the 17th through the 19th, about a foot of snow per day fell on the Pomerell ski area south south of Burley.
<b>IDAHO</b>									
IDZ002-003 Central and Upper Snake River Valley area	26	1515-1700MST			0	0	4	0	High Wind
									Winds gusting to over 60 mph following a cold front hit the Snake River Valley area from Burley to Pocatello during the afternoon. There were power outages of up to 1-1/2 hours. Blowing dust disrupted traffic. A gust of 67 mph at Pocatello turned over an anchored plane. Tree limbs were sheared off. Metal storage sheds were toppled, and a camper shell was blown off of a pickup truck.
<b>11 ILLINOIS</b>									
Litchfield, Montgomery County	18	0400CST			0	0	3	0	High Wind
									Strong winds, probably around 60mph, bent back the metal roof of a hangar at the Litchfield Airport.
<b>12 INDIANA</b>									
Posey Co, St. Wendel	15	1633 EST			0	0	0	0	Hail (.75-1.0)
Vanderburgh Co: Evansville	15	1646 EST			0	0	0	0	Hail (1.75)
Darstadt	15	1650 EST			0	0	0	0	Hail (.5-.75)
Evansville	15	1657 EST			0	0	0	0	Hail (1.75)
									The hail near Darstadt fell to a depth of 4 inches.
Warrick Co, Newburgh	15	1709 EST			0	0	0	0	Hail
									City police in Newburgh reported baseball size hail.
Spencer Co, Richland	15	1734 EST			0	0	0	0	Hail (.75)
INZ010-012-013-014-015 South-Central, East-Central, and Southeast Indiana	30	1500 EST-			0	0	0	0	Heavy Snow
	31	0300 EST							
									A spring storm that moved through the Ohio Valley dumped heavy snow over the southeastern third of Indiana. Four to nine inches of snow fell in a 12-hour period that began on the afternoon of March 30. The nine inch amounts were near the Ohio River. It was the latest deep snow in 100 years for parts of south-central and southeast Indiana.
<b>13 IOWA</b>									
Monona County, 1W Turin	22	1830 CST			0	0	0	0	Hail (1.75)
									Golf ball size hail fell 1 mile west of Turin in Monona County. One-quarter to one-half inch diameter hail accumulated to a depth of 4 inches on Highway 141 between Mapleton and Ute in Monona County.
Northwest Iowa IAZ001-004-005	22-	Evening			0	0	0	0	Heavy Rain
	23	Morning							Heavy rains of 2 to 3-3/4 inches fell over the area, causing some minor flooding on the Des Moines, Floyd and Little Sioux rivers.
Western Iowa IAZ001-002-003-004-005-006-009-010-012	28-	All Day			0	0	6	0	Blizzard
	29	Morning							A late-season snowstorm left a band of 6 to 16 inches of snow over West-Central, Southwest, and North-Central Iowa. Winds of 30 to 50 MPH were common with a gust to 68 MPH reported in West-Central Iowa at Carroll. The wind reduced visibility to zero for much of the period. Snow drifts of 8 to 15 feet were found in many areas. A few drifts were as high as 20 feet. Wind chill values dropped to between 10 and 30 degrees below zero. Two to five inches of heavy wet snow fell along the southeast edge of the snow area. The wet snow resulted in many downed trees and power lines. At one time a local utility reported 29,000 homes without electricity, and that they had sustained \$150,000 damage to power lines and equipment. Several thousand homes were without power in West-Central and North-Central Iowa, some for up to 34 hours. Livestock losses occurred due to exposure, mainly of young calves. Automobile accidents were numerous. In the Council Bluffs area, police reported 70 accidents. Several hundred occurred in Des Moines. The snow also closed roads, stranding hundreds of motorists. Three hundred were stranded at Minden in Portawattamie County. One hundred trucks were stranded on Interstate 80 at a truck stop at the 60-mile exit. Thirty-six school districts were forced to remain closed on Monday, the 30th. Downed power lines caused at least 4 house fires in the state. Over South-Central Iowa, the wet snow was accompanied by thunderstorms.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>KANSAS</b>									
KSZ001-002-003-004-005-006-007-008-010-011 West and North-Central Kansas	27-28	1700 to 2400 CST			1	0	8	0	Blizzard
<p>The second blizzard in less than a week hit most of West and North-Central Kansas with even more snow than the first. Many roads had been opened for only a day or two when they were again closed by snow drifts. The storm hit first in the extreme Northwest, early the evening of the 27th, and spread east and south. The blizzard began in earnest in Goodland at 1700 CST the 27th, in Russell at 0200 CST the 28th and in Dodge City about 0400 CST the 28th.</p> <p>More than 6 inches of snow accumulated north of a line from Syracuse to Dodge City, Great Bend, Concordia and Washington. Most spots measured more than a foot, and a foot and a half fell from Oberlin to Stockton. Ten-foot drifts were common and some on U.S. Highway 36 between Phillipsburg and Atwood approached 30 feet. The heavy snow missed the southwest counties that border Oklahoma.</p> <p>North winds of 30 to 50 miles an hour kept visibility near zero throughout the storm. Travel was impossible and all roads were closed. Interstate 70 closed the evening of the 27th and didn't fully reopen until about noon on the 30th. Parts of U.S. 36 remained closed until April 1st. At one time I-70 was closed to traffic west of Topeka because of a lack of accommodations on west.</p> <p>This storm, following the first so closely, took a great toll on cattle. Thousands were killed outright and thousands more were put far behind their feeding schedules. The National Guard airlifted hay to cattle in about 20 counties.</p> <p>A transient died of exposure in the storm. His body was found April 30th northwest of Great Bend near Olmitz along Kansas Highway 4. M???</p>									
<b>KENTUCKY</b>									
KYZ002-004-005 South-Central and Northern Kentucky	30-31	1100 EST to 0700 EST			0	1	3	4	Heavy Snow
<p>A winter storm dropped snow from Hopkinsville through Louisville to Cincinnati over a twenty-hour period. The heaviest snow amounts, averaging from 8 to 12 inches, fell in a thirty-mile-wide band centered on the Ohio River from Louisville to Cincinnati. This was the most snowfall, the latest in the season that had been recorded in Louisville in the past 100 years. It was also the tenth largest snowfall of all time. Widespread damage occurred to trees, which fell on cars and blocked roads. Fallen trees also caused numerous power outages as power lines were downed. Fruit trees that were in their flowering stage were significantly damaged. Peach and pear trees were hardest hit. Traffic accidents were numerous. Schools and businesses were closed.</p> <p>One hypothermia injury was attributed to the heavy snowstorm. At 1830 EST on March 30th, an 8-year-old boy from Ballardsville, KY (Oldham County) became disoriented and lost in the storm as he and his dog wandered from their country home while playing in the snow. Rescue teams searched through snow drifts that were stirred by 15 mph winds, finding the youth 14 hours after he had first left his home. The young boy used his dog as a blanket to try to keep warm. The windchill index averaged around 8° above zero. Numbness in his extremities was the only lingering sign of his ordeal.</p>									
<b>16 LOUISIANA</b>									
Caddo Parish	16	2327 CST			0	0	?	?	SVR TSM-Hail(1.0)
Bossier Parish	16	2355 CST			0	0	?	?	SVR TSM-Hail(0.8)
Bossier Parish	16	2342 CST			0	0	?	?	SVR TSM-Hail(1.0)
<p>Rapidly-moving severe thunderstorms produced one inch hail between Blanchard and Longwood in Caddo Parish about 2327 CST. In neighboring Bossier Parish nickle size hail fell just south of Plain Dealing around 2355 CST and up to one inch hail occurred at Princeton around 2342 CST.</p>									
Desoto and Red River Parishes	17	0815 CST			0	0	?	?	SVR TSM-Hail(1.0)
<p>One inch hail was reported between Mansfield and Coushatta.</p>									
Cameron Parish	17	1020 CST			0	0	0	0	Funnel
<p>A funnel cloud was sighted west of Cameron. It was moving north-east about 30 mph.</p>									
Jackson Parish	17	1030 CST			0	0	?	?	SVR TSM-Wind
<p>A severe thunderstorm blew down several large trees west of Vernon.</p>									
Tensas Parish	17	1130 CST			0	0	?	?	SVR TSM-Hail(0.8)
Madison Parish	17	1148 CST			0	0	?	?	SVR TSM-Hail(0.9)
<p>Severe thunderstorms produced nickle size and larger hail between Newellton and Point Pleasant in Tensas Parish about 1130 CST. Walnut size hail fell near Mounds in Madison Parish about 1148 CST.</p>									
Jefferson Davis Parish	17	1345 CST			0	0	?	?	SVR TSM-Wind
Evangeline Parish	17	1400 CST			0	0	?	?	SVR TSM-Wind
Acadia Parish	17	1404 CST			0	0	?	?	SVR TSM-Wind
Lafayette Parish	17	1440 CST			0	0	?	?	SVR TSM-Wind(53)
Lafayette Parish	17	1503 CST			0	0	?	?	SVR TSM-Hail(1.75)
Acadia Parish	17	1515 CST			0	0	?	?	SVR TSM-Wind
St. Landry Parish	17	1545 CST			0	0	?	?	SVR TSM-Wind
Vermilion Parish	17	1610 CST			0	0	?	?	SVR TSM-Wind
Vermilion Parish	17	1615 CST			0	0	?	?	SVR TSM-Wind
St. Mary Parish	17	1640 CST			0	0	?	?	SVR TSM-Wind
<p>A line of numerous severe thunderstorms moved across southwest Louisiana between 1345 CST-1640 CST producing numerous straight-line wind damage. A parish-by-parish summary follows:</p> <p>Jefferson Davis: Around 1345 CST, straight-line winds blew down trees which fell onto five cars and three homes in Jennings. In addition, the wind blew off the roof of the Jennings airport terminal building, causing the ceiling to collapse.</p> <p>Evangeline: Strong winds blew a house off its foundation and knocked a school bus off a road. The winds blew a barn onto a road and destroyed several farm buildings southeast of Ville Platte between 1400 CST-1415 CST. A store front was damaged by severe winds in Ville Platte in the same time period.</p> <p>Acadia: Numerous trees and power lines were blown down around Crowley about 1404 CST and throughout the rest of the parish by 1515 CST.</p>									
<b>15 KENTUCKY</b>									
Daviess County	15	1705 CST			0	0	2	0	Hail (0.75-1.00)
<p>Hail, averaging from 3/4 to one inch in diameter, fell throughout Daviess County during a severe thunderstorm.</p>									
Hancock County	15	1707 CST			0	0	2	0	Hail (0.75-1.00)
<p>Hail, from 3/4 to one inch in diameter, fell throughout Hancock County during a severe thunderstorm.</p>									
Breckinridge County	15	1753 CST			0	0	2	0	Hail (1.75)
<p>Hail the size of half dollars fell in Hardinsburg as reported by the Breckinridge County Sheriff.</p>									
Russell County	15	2150 CST			0	0	4	0	Lightning
<p>Lightning struck the Church of God, white-metal steeple in Russell Springs. The lightning charred a small portion of the roof under the steeple, and ran in on some of the wiring. It caused the sanctuary ceiling tiles to fall to the floor. The cushioned pews and carpet in the back half of the sanctuary were blanketed with insulation. The back wall burst under the force of the strike and the other walls of the sanctuary cracked. Ninety people had just filed out of the church twenty minutes before the lightning struck. Damage was assessed at twelve thousand dollars.</p>									
Warren and Simpson Counties	18	0515 CST			0	0	3	0	Thunderstorm Winds
<p>Strong thunderstorm winds downed trees and power lines and overturned one trailer that was unoccupied 15 miles southwest of Bowling Green. Winds to 50 miles per hour were recorded throughout Warren and Simpson Counties during these strong thunderstorms that lasted through 0540 CST.</p>									
KYZ008 Southeast Kentucky	25	Afternoon			0	0	2	0	High Winds
<p>A cold front moved through eastern Kentucky as intense low pressure moved northeast from Iowa to the Great Lakes. Winds gusted to near 50 mph across Southeast Kentucky causing tree limbs to break and fall into power lines, interrupting service. A wind gust of 46 mph was recorded at the National Weather Service office in Jackson.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1967

PLACE		DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
						KILLED	INJURED	PROPERTY	CROPS	
<b>— LOUISIANA</b>										
	Lafayette:		A 53 KT gust was observed in downtown Lafayette about 1440CST. Golfball size hail fell in Carencro about 1509CST.							
	St. Landry:		A mobile home was destroyed west of Bristol while another trailer was moved off its foundation by strong winds about 1545CST. A tree fell through a roof of a home and a carport was blown off another house in Opelousas about the same time.							
	Vermilion:		A portable sign was blown over and a tree crashed into an Abbeville home about 1610CST. Strong winds lifted a single-story frame house off its foundation and moved it three feet in Maurice about 1615CST.							
	St. Mary:		Numerous trees were blown down in Franklin about 1640CST.							
Tangipahoa Parish		17	2020CST	3.0	50	0	0	?	?	Tornado (Fl)
St. Tammany Parish		17	2130CST			0	0	?	?	SVR TSM-Wind
Washington Parish		17	2140CST			0	0	?	?	SVR TSM-Wind
	A line of severe thunderstorms moved rapidly across the Florida Parishes between 2020CST-2140CST producing a small tornado and some straight-line wind damage. A parish-by-parish summary follows:									
	Tangipahoa: The Sheriff Department said a small tornado uprooted numerous trees, damaged or destroyed some farm buildings and took off the roof of a farm house along an intermittent path that began just to the west of Amite at around 2020CST and continued northeast to Wilmer.									
	St. Tammany Parish: Several trees and power lines were blown down by straight-line winds between Covington and Mandeville about 2130CST.									
	Washington: Severe thunderstorm winds blew down several trees and power lines in Bogalusa. In addition, a roof was ripped off a mobile home and numerous trees were blown down near Varnado around 2140CST.									
Orleans and St. Tammany Parishes		21	0745CST			4	35	?	?	Fog
	Four people were killed, 35 injured in eleven separate accidents involving 49 vehicles on the fog-shrouded I-10 bridges between New Orleans and Slidell around 0745CST. The four fatalities occurred when a dump truck ran over a compact car, killing three of its occupants and seriously injuring the lone survivor. The truck jackknifed over the guard rail and fell into Lake Pontchartrain. The truck driver drowned in his cab. F66V, M56V, F50V, M43V									
Caddo Parish		23	1012CST			0	0	?	?	SVR TSM-Hail(0.8)
Bossier Parish		23	1030CST			0	0	?	?	SVR TSM-Hail(1.0)
Bossier Parish		23	1055CST			0	0	?	?	SVR TSM-Wind
Bienville Parish		23	1125CST			0	0	?	?	SVR TSM-Hail(0.9)
	An area of rapidly-moving severe thunderstorms moved across extreme northwest Louisiana between 1012CST-1125CST producing several reports of large hail and isolated straight-line wind damage. A parish-by-parish summary follows:									
	Caddo: Nickle size hail fell in Shreveport about 1012CST.									
	Bossier: One inch hail fell northeast of Benton at 1030CST. Straight-line winds blew down a large canopy at a Bossier City gas station at 1055CST. Several pumps and one car were damaged by the fallen canopy.									
	Bienville: Walnut size hail was reported east of Fryeburg around 1125CST.									
Lincoln Parish		23	1323CST			0	0	5	0	TSM-Lightning
	A brick home in Ruston burned to the ground after being struck by lightning.									
Assumption Parish		27	0815CST			0	0	?	?	SVR TSM-Hail(1.75)
St. John the Baptist Parish		27	0835CST			0	0	?	?	SVR TSM-Wind, Hail(1.75)
Tangipahoa Parish		27	0905CST			0	0	?	?	SVR TSM-Hail(1.75)
St. Tammany Parish		27	0910CST			0	0	?	?	SVR TSM-Hail(1.75)
St. Tammany Parish		27	0925CST			0	0	?	?	SVR TSM-Hail(1.75)
	A large, fast-moving cluster of severe thunderstorms produced numerous reports of golfball size hail between 0815CST-0925CST in portions of southeast Louisiana. A parish-by-parish summary follows:									
	Assumption: The sheriff department reported widespread golfball size hail fell throughout the parish by 0815CST.									
	St. John the Baptist: Golfball size hail fell in Laplace about 0835CST. In addition, straight-line winds damaged a barn near Garyville.									
	Tangipahoa and St. Tammany: State police reported golfball size hail damaged automobiles on I-10 between Hammond and Mandeville around 0905CST.									
	St. Tammany: Causeway Bridge Police said golfball size hail broke windshields of several cars about 0910CST. By 0925CST, golfball size hail fell in Lacomb and Slidell, damaging several roofs.									
<b>— LOUISIANA</b>										
Plaquemines Parish		27	1245CST			0	0	?	?	SVR TSM-Hail(1.75)
	A small airplane flew too close to a thunderstorm near the mouth of the Mississippi River. Large hail broke its windshield and put holes in the plane's skin.									
Terrebonne Parish		29	1300CST			0	3	6	?	SVR TSM-Wind(80)-1315CST
	Rapidly-moving severe thunderstorms damaged about 450 buildings in Little Caillou, Bourg, Montegut, Dulac and Theriot. An 80-mph gust was reported at the Houma airport about 1315CST. Overall, three people were injured. Estimated damage was about \$1,000,000.									
Jefferson Parish		30	1140CST			0	0	0	0	Waterspouts
	Several waterspouts were seen from the New Orleans International airport over Lake Pontchartrain.									
LAZ001-002-003-004 Northern Parishes		31	morning			0	0	0	6	Freeze
	Unseasonably cold temperatures in the middle 20s to near 30 degrees during the early morning hours did about \$1,000,000 damage to the peach crop.									
<b>17 MAINE</b>										
MEZ 001-002-003-004-005-006-007-008-009-010-011-012-013-014 Entire State		01-	0600EST			1	2	5		Heavy Snow and Mixed Precipitation
		03	0900EST							
	Low pressure located over southeast Oklahoma at 0700EST Saturday, moved to the vicinity of Chicago by 0700EST Sunday. An occluded front associated with this low ran southeastward to the vicinity of Cape Hatteras. The combination of this occluded front and a high pressure ridge from Hudson Bay to the Canadian Maritimes produced an easterly flow off the ocean, while aloft there was a strong southwest flow. This is a typical overrunning situation. The entire system moved slowly northeast and weakened. A second low formed offshore and was located in the Gulf of Maine at 0700 EST Monday. Most of the region reported continuous precipitation for at least 48 hours, but most of the time it was on the light side. Snow began early Sunday morning over west portions and spread east reaching the Maine-Canadian border late Sunday afternoon. The snow ended from west to east Tuesday morning. Snow became mixed with or changed to sleet and/or freezing drizzle at times statewide, making for treacherous travel, and closing many school districts and some businesses Monday. Numerous auto accidents and rollovers occurred, resulting in one death and two serious injuries. At 0830EST Monday, in Lebanon (York County) on Route 202, a 30-year-old female driver received serious multiple injuries when her car crashed into the rear of a snowplow that was clearing a driveway. She had to be extricated from her car. At 0232EST Tuesday in Augusta (Kennebec County), a 21-year-old male was killed and a 20-year-old male was seriously injured when the car in which they were passengers skidded off snow-covered Eastern Avenue, hit a snowbank, grazed a utility pole and rolled over. The 21-year-old male driver escaped injury. There were isolated power outages reported statewide. The worst occurred in Lubec (Washington County) on Monday when downtown was powerless for 2 hours and West Lubec from 8 to 10 hours. Apparent heavy snow loads collapsed a roof on one of twin potato houses, circa 1910, in Presque Isle (Aroostook County) Tuesday. It should be noted that 6 inches or more of snow fell in every forecast zone in the state. However, the heavy snow criteria of 6 inches or more in 12 hours or less was not met in Zones 1, 11, 13, and 14. Following is a list of snowfall amounts in inches and by zones.									
		04	MorningEST			0	0	5		Heavy Snow Load
MEZ 007 Penobscot Valley										
	In Lincoln (Penobscot County), nearly half the roof of Smart's True Value Hardware store collapsed Wednesday morning under the weight of snow. The force of the air being pushed out of the building literally picked up and blew two employees out the doors. They escaped with very minor injuries. Damage to the contents alone was estimated between \$130,000 and \$150,000.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>MAINE</b>									
MEZ 007-008-010-011 South-Central	17	Night	E		1	0	4		Icy Roads
	<p>Wet snow flurries Tuesday night left an icy glaze on roads of south-central Maine, causing a series of skidding accidents and rollovers. There were no serious injuries reported, but one Navy airman was killed. On Route 123 in Brunswick (Cumberland County), a car slid into the opposite lane and into the path of the Airman's car. The 23-year-old male driver died in the hospital, 4 hours after being extricated from the wreckage.</p>								
MEZ 004-007 Southeast Coast & Penobscot Valley	21- 22	2200E 1700E			0	0	5		Heavy Snow Loads
	<p>A 24-hour heavy wet snowfall of 1 to 3 inches, with a water content of nearly one inch, is being blamed for adding enough weight to already heavy snow-laden roofs to cause their collapse. The roof of the F.E. Dorsey Furniture warehouse collapsed at 0430E on Sunday in East Holden (Penobscot County). Roof damage was estimated at \$30,000, but none was available for the \$200,000 worth of furniture stored in the warehouse. Two coastal Washington County communities were witness to multiple roof cave-ins. Late Saturday night in Jonesboro, a 24 x 40 foot garage roof collapsed on Route #1, while on Whitney Road, a roof of an abandoned barn caved in, and the roof of a workshop attached to a house collapsed, tearing a gaping hole in a bedroom wall. At approximately 1700E on Sunday, Machias reported the roof of a barn owned by Ethel Randall collapsed, and the roof of Talbot &amp; Talbot Law Office fell victim to the heavy snow loads.</p>								
Western Maine: Androscoggin, Cumber- land, Franklin, Ken- nebec, Lincoln, Ox- ford, Penobscot, Sagadahoc, Somerset & York Counties	31	1200E			0	1	6		Heavy Rain and Flooding
	<p>A low pressure area formed over the southeastern states Monday afternoon. This system intensified rapidly as it moved slowly north reaching central Pennsylvania by 0700E on Tuesday. It continued north passing to the west of New England, arriving over the Ungava Peninsula in Quebec Province Wednesday morning. This storm brought high winds and heavy rains to the region Tuesday. (See April 1987 Storm Data for catastrophic flooding reported along some of the major rivers in Maine). The melting of a deeper than normal snowpack and heavy rains, coupled with a saturated or frozen ground, produced a rapid runoff that turned small streams and brooks into raging torrents by Tuesday night. In Androscoggin County, the Androscoggin River washed out part of a dam, if not all of a cofferdam located at a \$30,000 hydroelectric project in Lisbon Falls at 2125E, sending water through the windows of the 100-year-old Worumbo Mill building, and flooding Canal Street. Lisbon Falls also reported Burrough Road was flooded leaving several families in Bowdoin stranded on this dead-end road, while water was over Gould Road and Routes 9 and 125. In Lisbon, Route 9, Route 136, Ferry Road, Babbit Road and the lower end of Cedar Pond Road were closed due to flooding; Stackpole and Bowie Hill Roads had washouts; and Swamp and Webster Roads were under water. Other county roads closed were River, Hogan and Old Chadbourne in Lewiston; Hackett, Jakes, Fletcher Roads and Fickett Road near Pownall Road; Perkins Ridge Road at Garfield Road, and South Witham Road halfway between Harmons Corner and Soper Mills Roads in Auburn; Route 136 in Durham; Route 9 to Corn Road, and the Four Corners section of Wales; Old Country, Little Wilson Pond, East Hebron, Gauthier Hill and Old Bridge Roads, as well as Fern and Lower Streets in Turner; Pine Street in Mechanic Falls; Maxwell Road in Sabattus; parts of Route 202, Sullivan, Hatch Hill, Upper College and Meadow Valley Roads, Bull Run Road from Hill to College Streets in Greene. Auburn also reported Jaques and Woodbury Roads were washed out. A Livermore Falls farmhouse on Moose Hill Road had a mudslide at 1820E that pushed in an 8x14 foot room. The Lewiston-Auburn Airport reported gusts to 65 mph (55kt). The high winds tore down tree limbs onto powerlines at 1915E, which left 2,000 residents of Lisbon and Durham without electricity for a short period. In Cumberland County, sections of Falmouth Road were closed in Windham and Falmouth. High winds tore down tree limbs onto utility lines, and New England Telephone reported 1,200 outages in the greater Portland area. About 2,000 to 3,000 customers in the greater Portland area lost electrical power overnight. Another 4,000 scattered residences were without electricity in Cumberland, Freeport, Brunswick, and Harpswell, with the Sagadahoc County communities of Phippsburg, Topsham and West Bath included in the total. Portland had many wind gusts to 45 mph. Franklin County suffered the worst flooding during Tuesday. Farmington reported two sections of the Fairbanks Bridge on Route 4 were washed out by 1800E and the Sandy River was over Intervale Road, swamping Howard Hippack Memorial athletic field. Other Farmington roads closed due to flooding or washouts were Knowlton Corner, Back Temple, Porter Hill, Webster, Holley, Hovey, Bailey Hill, Voter Hill, and Red Schoolhouse roads with Pratt Intervale under water. All major routes to Farmington were closed by 2300E. In Wilton, Pond Road around Wilson Lake was impassable with water up over the hoods of cars; Orchard Drive was washed out; and there was extensive flooding of Route 133. There was substantial damage to Route 156 in Washington Township, just west of the Wilton town line. The only injury reported Tuesday occurred on Route 2 in Wilton when an oncoming tractor-trailer splashed water onto a car's windshield blinding its 26-year-old male driver. He ran into the back of a pickup truck that had stopped to make a left hand turn, and was hospitalized with a broken arm, facial injuries, and bumps and bruises. An addition to the Wilton Fire Station was washed downstream, as Wilson Stream burst through a retaining wall flooding Main Street with several stores reporting heavy losses. Also, "The Dugway" and nearby sidewalks were undermined, and a section of road around the abutment of Strong Bridge on Route 4 was washed</p>								
<b>MAINE</b>									
	<p>out. Route 140 in Jay was closed. In Phillips, four feet of water was over the road in the upper village, and Route 142 was flooded. Rowes Bridge in Kingfield was washed out late Tuesday. In Strong, floodwaters from the Sandy River cut Route 4 at "Devil's Elbow" and rendered South Strong Road impassable. There were 2 mudslides on Route 4 in Strong. Due to floods and washouts the following Franklin County routes were closed: Route 27 from Farmington to the Canadian border; Route 145 between Strong and Kingfield; Route 16 from North New Portland to Kingfield and from Rangeley to Stratton; and Route 4 from Strong to Rangeley and from Phillips to Madrid. Evacuations took place at 2100E for Farmington and West Mills residents along the Temple Stream and Intervale Road. A Kingfield family was evacuated early Tuesday afternoon when the Carrabassett River flooded their West Kingfield Road home. Many residents in the Poplar Stream development in Carrabassett Valley were marooned by 2000E, as the Reddington Pond outlet overflowed the roadway and sent water and ice chunks across Route 27 leaving two cars nearly covered with mud and ice at the entrance to the development. The high winds, heavy rains, and broken branches shut the power off to about 700 customers in Kingfield, Carrabassett Valley, parts of New Portland, and the townships of Salem and Freeman between 0930E and 1800E. The Sandy River Farm on Route 2, Farmington Falls-Farmington was flooded. In Kennebec County, Oakland reported severe flooding of Red Brook which washed out Route 23 near the Fairfield line just south of Rices Rips Road. Chelsea reported 5 roads impassable and Windsor had Route 32 flooded. Other Kennebec County roads affected by flooding and washouts were: Heath Street in Oakland; Drumm Pond Avenue and Traflet Road in Waterville; and Lithgow Street and Taylor Avenue in Winslow. The Kennebec River flooded the new waterfront park and the parking lots and basements of Front Street stores in Augusta. In Oxford County, traffic was routed away from a half-dozen flooded stretches of highways near the Androscoggin and Swift rivers in the Rumford-Mexico area, with Route 2 closed from Lincoln Avenue, Rumford, past the Mexico Chicken Coop. Route 26 was closed Tuesday evening between West Paris and South Paris as the Little Androscoggin River sent 2 feet of water over the highway at Snow Falls. Route 2 was closed between Bethel and Shelburne, NH. Route 17 was closed between Roxbury and Byron. Route 118 was closed in Waterford. In Newry, Branch Road and Sunday River Road leading up to Riley Plantation were washed out. In Rumford, the Swift River flooded Route 120; South Rumford Road flooded near Mt. Zircon and where it intersects with Route 132; and Martin Road was washed out. Other Oxford County highways closed by flooding and washouts were: Routes 219 and 26 in West Paris; Route 113 in Fryeburg; Route 17 in Quosoc; Route 41 in New Sharon; Route 140 in Canton; and Route 117 in Paris. In Dixfield, Weld Street was under water. In Woodstock, a family of 3 evacuated from Bryant Pond near Route 232 as Meadow Brook rose around their home at 1300E. Late Tuesday night in Dixfield, the Androscoggin River forced a number of Diamond Branch Inc. employees to leave the plant by boat. High winds toppled a chimney at Thurston's mill on Route 120 in Rumford. High winds felled a tree across power lines atop Falls Hill in Rumford which caused about an hour-long power outage in parts of Mexico, Rumford and Dixfield. Another power outage was reported in Magalloway Plantation. In Penobscot County, roads closed by flooding were Route 11 in Grindstone and Palmer Road in Newport. In Howland, Northern Howland Road was closed as a 30 to 50 foot section was washed out. In Sagadahoc County, Route 125 in Bowdoin was flooded. Several roads in Topsham, Bowdoin, and Bowdoinham were also flooded. In Woolwich, a small bridge on Dana Mill Road took an awful beating from the raging waters and was closed. In Somerset County, roads affected by flooding and washouts were: East River and Bigelow Hill roads in Skowhegan; Covell Road in North Fairfield; Cianchette Court, Raymond Avenue, Snakeroot and Weeks roads in Pittsfield; and River Road in Norridgewock. There was a major mudslide on Long Falls Dam Road in Highland Plantation. In York County, roads affected by flooding and washouts were: Heath and Center roads in Lebanon; Doles Ridge Road bridge in Limington; Routes 110 and 11 in Newfield; Route 110 in West Newfield; Route 5 in Cornish; Route 11 and Goose Pond Road in Shapleigh; New Dam Road in Waterboro; South Waterboro Road in Lyman; Foss Road in Limerick; and Valley Road in North Berwick.</p>								
<b>18 MARYLAND and D.C.</b>									
Hazard County	31	1047E			0	1	3	0	Thunderstorm Wind
	<p>A sudden gust of wind knocked over a townhouse under construction, trapping a man for 45 minutes. Baltimore-Washington Airport reported a peak gust of 48 mph at 1010E. N380-injury</p>								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>19 MASSACHUSETTS</b>									
MAZALL Statewide	31	0500- 2100EST			0	0	5	0	High Winds
									Strong to gale force, southeast to south winds that frequently gusted past 50 mph caused scattered power outages as wires were knocked down by falling tree limbs and some trees. In Hampden County, gusts of up to 62 mph were recorded at Southwick. Gusts to around 50 mph were recorded at Worcester. At the Blue Hill Observatory (elevation 635 feet) at Milton, wind gusts reached a peak of 87 mph from the south-southeast.
MAZ001-004-005-006	31	all day			0	0	5	0	Floods and Heavy Rain
									Rivers and streams were rising toward flood stage and minor flooding began in flood-prone areas. Very heavy rainfall of from 3 to 5 inches in 24 hours was adding to runoff from snowmelt and flood watches were posted. In sections of Northampton, Easthampton and Hadley, the Connecticut River swelled over its banks, flooding acres of farmland. A few families were evacuated. Throughout the area, a number of roads were closed due to the rising waters. Generally minor flooding was experienced near the Housatonic River in Pittsfield, Berkshire County. In Worcester County, the Blackstone River threatened to overflow its banks in Northbridge. Flood warnings were posted for small rivers and streams throughout the region.
MAZALL Statewide	31	all day			0	0	5	0	Heavy Rain
									Heavy rains across the entire state caused considerable flooding of basements and low, flood-prone areas as rainfall totals of between 2 and 5 inches occurred in a twenty-four hour period.
<b>20 MICHIGAN</b> ————— NONE REPORTED									
<b>21 MINNESOTA</b>									
MN2019 Extreme Southeast	28- 29				0	0	0	0	Heavy Snow
									Heavy snow clipped the southeast corner of Minnesota during the evening of the 28th and morning of the 29th. By 1900CST, snow spread north to Albert Lea and Rochester. Heavy snow accumulated overnight across southern Mower, Fillmore, Houston and southeast Winona counties. Eleven inches of snow fell at Harmony by 0800CST. Winds increased Sunday morning causing blowing and drifting snow between Austin and the Iowa border. Sunday services at several churches were canceled in the Austin area.
<b>22 MISSISSIPPI</b>									
Claiborne County, Hermanville	17	1650CST	.4	50	0	0	5	0	Tornado (F0)
									A tornado touched down briefly near Hermanville. Damage was mainly uprooted trees. A few roofs were damaged, and also one church.
Adams County, Natchez	17	1702- 1708CST	5	100	0	4	6	0	Tornado (F1)
									A tornado touched down three different times in Natchez. The tornado first touched down on the south side of town on 61 South. The tornado traveled north-northeast along St. Catherine's Creek and touched down briefly in a subdivision in extreme eastern Natchez. The tornado again became airborne, but touched down a third and final time on 61 North near Morgantown exit. About 200 homes were damaged, though most of it was only roof damage. Two businesses were destroyed and 9 businesses had heavy damage. Even though the tornado traveled through a populated area, only 4 people received minor injuries. Total damage caused by the tornado was estimated at 3 million dollars.
Jefferson County, 3 miles West Fayette	17	1730- 1735CST	3	100	0	0	5	0	Tornado (F1)
									A tornado touched down 3 miles west of Fayette, traveled north-northeast and dissipated 3 miles northwest of Fayette. The tornado traveled mainly through wooded areas, but did damage several roofs in the area.
<b>MISSISSIPPI</b>									
Warren County, Vicksburg	17	1730- 2200CST			0	0	7	0	Flash Flood
									Numerous heavy thunderstorms moved through the Vicksburg area between 1400CST and 2000CST. Around 6 inches of rain fell in this time period. A total of more than 5 million dollars worth of damage was done to homes, businesses, streets and public utilities. In the Hamilton Heights Subdivision, 111 homes received water damage totaling almost 2 million dollars. Also, a 52-unit apartment complex received about 400,000 dollars in damage. Nearly 300,000 dollars worth of damage was done to city property and streets. County officials estimated 1.5 million dollars to clean up countywide. More than 250 people were evacuated from their homes.
Hinds County, Jackson	17	1800CST			0	0	0	0	Funnel Cloud
									A funnel cloud was observed over Candlestick Park Shopping Center.
Hinds County, Jackson	17	1805CST			0	0	5	0	Thunderstorm Winds
									In West Jackson, 2 commercial buildings suffered roof damage from high winds. Also several trees were blown down. One fell and damaged one home.
Adams County, Natchez	17	1815CST			0	0	5	0	Flash Flood
									Heavy rains caused numerous small streams to overflow in Natchez. Many streets were inundated with water and for a short period of time, were nearly undrivable.
Claiborne County, Port Gibson	17	1830CST			0	0	4	0	Flash Flood
									Heavy thunderstorms dropped around 5 inches of rain in several hours in Port Gibson. Numerous streets were flooded and several cars flooded.
Jefferson County, Fayette	17	1830CST			0	0	4	0	Flash Flood
									Several inches of rain between 1400CST and 1800CST caused most streets and low areas to flood.
Amite and Lincoln Counties, 3 miles Southwest of Auburn to Auburn	17	1925- 1929CST	3.0	120	0	0	4	0	Tornado (F1)
									A tornado initially touched down in extreme northeast Amite County about 3 miles southwest of Auburn. The tornado traveled north-northeast and moved into the southwest corner of Lincoln County near Auburn and dissipated. A couple of roofs were damaged, but most of the damage was to trees.
Lincoln County, Brookhaven	17	1935CST			0	0	0	0	Funnel Cloud
									A funnel cloud passed over Brookhaven.
Walthall County, 3 miles South of Tylertown	17	1945CST			0	0	?	0	Thunderstorm Winds
									High winds from a thunderstorm blew down trees and power lines 3 miles south of Tylertown on Highway 27.
Copiah County, Georgetown	17	2000CST			0	0	?	0	Thunderstorm Winds
									Winds estimated at 60-65 mph in Georgetown caused damage to two roofs.
Walthall County, 7 Miles East of Tylertown	17	2000CST	.5	75	0	0	4	0	Tornado (F0)
									A weak tornado touched down briefly 7 miles east of Tylertown on Highway 48. Damage was only to trees and power lines.
Yazoo County, Yazoo City	17	2035- 2235CST			0	0	5	0	Flash Flooding
									Six inches of rain fell in Yazoo City in a 3-hour period. Serious flooding occurred in the city with water getting into homes and businesses. Most streets were flooded.
Hinds County, Jackson	17	2115CST			0	0	5	0	Flash Flooding
									Heavy rains in Jackson caused water to rise into 9 homes. Many streets had to be blocked and closed due to high water.
Humphreys County, Belzoni	17	2130CST			0	0	5	0	Flash Flooding
									All streets flooded after several inches of rain fell in a 3-hour period. Flooding was most severe in the rural areas where water got into many homes.
Leflore County, Greenwood	17	2130CST			0	0	4	0	Flash Flood
									Heavy rains during a 5-hour period produced flash flooding in Greenwood. Many streets were inundated and water got into some homes in one subdivision.
Holmes County	17	2130CST			0	0	5	0	Flash Flood
									Serious flooding occurred in much of the western portion of Holmes County. Many homes received water while most roads were flooded.

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MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS		
<b>MISSISSIPPI</b>										
Jones County, 4 SW Ellisville to 1 W Laurel	17	2215-2227CST	9	75	0	0	5	0	Tornado (F1)	A tornado initially touched down 4 miles southwest of Ellisville and then intermittently touched down as it traveled north-northeast. The tornado traveled 9 miles and dissipated 1 mile west of Laurel. One mobile home was destroyed and 5 others damaged. One home had moderate roof damage. One chicken house was heavily damaged. Power lines and downed trees clearly marked the path of the tornado. The total damage estimate from the tornado was 89,000 dollars.
Jones County, Moselle	17	2220CST			0	0	?	0	Thunderstorm Winds	High winds blew down trees and power lines in Moselle.
Jones County, Lanham	17	2230CST			0	0	?	0	Thunderstorm Winds	High winds blew down trees and powerlines in Lanham.
Hancock County, 4 SW Bay St. Louis	17	2240CST			0	0	?	0	Thunderstorm Winds	Trees were blown down by strong thunderstorm winds 4 miles southwest of Bay St. Louis.
Forrest County, Hattiesburg	17	2300CST			0	0	5	0	Flash Flood	Two and a half inches of rain fell between 2200 and 2300CST. This caused serious flash flooding in Hattiesburg. Many streets were flooded. About 25 buildings received water damage.
Harrison County, Lyman	17	2305CST			0	0	?	0	Thunderstorm Winds	Trees were blown down in Lyman.
George County, Shipman	17	2345CST			0	0	?	0	Thunderstorm Winds	Trees were blown down in Shipman. One residence received roof damage.
Union County, Ingomar	18	1735-1740CST	2	50	0	0	5	0	Tornado (F1)	A small tornado moved through Ingomar which is about 8 miles south of New Albany. Several people saw the tornado as it uprooted trees, knocked down power lines and damaged some buildings. Most damage was minor with outbuildings destroyed, roof damage to some homes, and one barn destroyed. The tornado moved northeast across Highway 15 before it dissipated.
Pontotoc County, 2 SE Pontotoc	18	1742CST			0	0	?	0	Hail (.75)	
Pontotoc County, 3 S Sherman	18	1750CST			0	0	?	0	Hail (.75)	
Union County, New Albany	18	1750CST			0	0	?	0	Hail (.75)	
Lee County, Tupelo	18	1821CST			0	0	?	0	Hail (.75)	
Yalobusha County, 2 SW Water Valley	18	1825CST			0	0	?	0	Hail (.75)	
Lee County, Saittillo	18	1840CST			0	0	?	0	Hail (.75)	
Lee County, Eggville	18	1844CST			0	0	?	0	Hail (1.00)	
Itawamba County, Fulton	18	1911CST			0	0	?	0	Hail (.75)	
Itawamba County, Fulton	18	1920CST			0	0	5	0	Hail (1.75)	Golf ball size hail damaged many roofs and broke out numerous windows in and around Fulton.
Itawamba County, 5 NE Fulton	18	1926CST			0	0	?	0	Hail (1.25)	
Itawamba County, Fairview	18	1945CST			0	0	?	0	Hail (.75)	
Itawamba County, 5 S Fulton	18	1945CST			0	0	0	0	Funnel Cloud	
Prentiss County, 5 NE Baldwin	18	1950CST			0	0	?	0	Hail (.75)	
Lee County, NE of Tupelo	18	2000CST			0	0	?	0	Hail (.75)	
Monroe County, Anory	18	2025CST			0	0	?	0	Hail (.75)	
Monroe County, Anory	18	2030CST			0	0	?	0	Hail (1.75)	
<b>MISSISSIPPI</b>										
Lee County, North of Tupelo	22	1505CST			0	0	4	0	Dust Devil	With sunny skies and light winds, a dust devil or whirlwind developed and damaged a home on Saittillo Road. The winds tore off a patio awning and lifted 3 concrete blocks out of the ground. A man saw the dust devil and thought it was a tornado.
George County, 3 SE Lucedale to 6 ESE Lucedale	29	1430-1435CST	3	125	0	0	5	0	Tornado (F1)	A tornado touched down 3 miles southeast of Lucedale and traveled 3 miles eastward before dissipating. Several barns were damaged and fences laid flat. Although the tornado moved through a sparsely populated area, several homes and outbuildings were damaged.
Harrison County, 10 NNW Gulfport	29	1455CST	.5	40	0	0	4	0	Tornado (F0)	A weak tornado touched down briefly 10 miles north-northwest of Gulfport. The tops were blown out of some trees and a roof was blown off a barn.
Harrison County, Gulfport	29	1500CST	.2	30	0	0	4	0	Tornado (F0)	Another small and very weak tornado touched down in downtown Gulfport. Two buildings had windows broken. Power lines also were knocked down.
Harrison County, 5 NE Gulfport	29	1505CST	.7	50	0	0	4	0	Tornado (F1)	Numerous trees and power lines were blown down 5 miles northeast of Gulfport. Several people heard the roar from the tornado.
<b>MISSOURI</b>										
Saline County, Marshall	16	1645CST			0	2	1	0	Lightning	A 21-year-old man and his one-year-old baby girl were struck by lightning during a thunderstorm in Marshall. They were hit while passing a tree on their way to their truck. The tree was struck by lightning and the man and baby suffered injury. The man has first degree burns on one side of his face and serious damage to his eye. The baby was in a state of shock, but otherwise in good condition.
<b>24 MONTANA</b>										
MT2002	18	0500MST			1	0	4	3	Heavy Snow	A heavy wet snow of 6 to 12 inches caused power outages for up to two days as it broke limbs from trees which in turn fell over power lines. One 38-year-old man died when his pickup truck went out of control due to deep slush and ice on a highway.
MT2006-007	27	1800MST			0	2	3	0	Blizzard	Heavy snow of 6 to 24 inches, winds of up to 40 mph, and temperatures in the mid twenties stopped travel through Fergus, Judith Basin, and Wheatland counties for more than 12 hours. Two men were treated for severe frostbite and hypothermia after their pickup became stuck in a snow bank and they tried to walk for help.
<b>25 NEBRASKA</b>										
Webster County, 3N Red Cloud	14	1655CST	1	40	0	0	3	0	Tornado (F1)	A tornado touched down 3 miles north of Red Cloud and moved northeast 1 mile, damaging fences, trees and a center pivot.
Nuckolls County, Nelson	14	1715CST	.2	20	0	0	4	0	Tornado (F1)	A tornado touched down briefly in Nelson, damaging 3 houses and destroying a garage.
NEZ001-002-003-006-012	16-17	1400CST-1700CST			0	0	3	1	Heavy Snow	Heavy snow fell at intervals in an area bounded from Rushville to Ogallala to Rose to Butte. Heavier snowfall included 10" at Springview, Brownville, Theford, and Purdum, and 9" at Valentine and Elswere. The wet snow was preceded by some freezing rain in the Ainsworth area which resulted in damage to utility lines.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>NEBRASKA</b>									
Holt, Antelope and Madison Counties	17-20	Afternoon-Evening			0	0	6	5	Flood
									Four to six inch rains, which began on the 16th, pushed the Elkhorn River out of banks from around O'Neill to Battle Creek, flooding fields and rural roads. At Inman, 3 feet of water covered roads. Some streets were washed out and homes evacuated. The river at Neligh crested 1.8 feet over flood stage and was the flood of record since the 1930's. Sandbagging helped to limit damage at Clearwater and Neligh, but still urban flooding affected several other small towns. Ranches and farms also suffered water damages.
NEZ001 North Panhandle Nebraska	20-21	1600CST-0200CST			0	0	3	1	Blizzard
									Blizzard conditions hit the north panhandle especially in the Chadron area. Visibilities were near zero in snow and blowing snow as north winds gusted to around 50 m.p.h. and lowered wind chills below zero. Snow accumulated to 8 to 12 inches in the Chadron region with 4 to 6 foot drifts. Roads became impassable and students and travelers became stranded. Lighter snow amounts of 1 to 2 inches fell in the remainder of the panhandle, but blowing snow also caused near-blizzard conditions at times with resulting hazardous driving.
Cherry County, Valentine	20	1705CST			0	0	2	1	Thunderstorm Wind (60)
									Thunderstorm winds gusted briefly to 69 m.p.h. at Valentine. No damage was reported.
Chase County, Champion	20	1705CST			0	0	4	0	Thunderstorm Wind
									Strong wind gusts during a thunderstorm destroyed a large machine shed on a farm just west of Champion.
Red Willow and Furnas Counties, Bartley	20	1710CST			0	0	3	0	Thunderstorm Wind (66)
									Thunderstorm wind gusts blew down a storage building just north of Bartley. A gust to 76 m.p.h. was recorded at the Cambridge airport.
Franklin County, 85W Hildreth	20	1715CST	0.2	20	0	0	4	0	Tornado (F1)
									A tornado dropped down and destroyed 3 outbuildings 8 miles southwest of Hildreth.
Dawson County, Lexington	20	1715CST			0	0	2	0	Thunderstorm Wind (52)
									Thunderstorm winds gusted to 60 m.p.h. at Lexington. Minor damage was reported.
Howard County, St. Libory	20	1840CST			0	0	3	0	Thunderstorm Wind
									Thunderstorm wind gusts blew over a shed and grain bin just east of St. Libory.
Lancaster County, Lincoln	20	2005CST			0	0	2	1	Thunderstorm Wind (55)
									Winds gusted to 63 m.p.h. during a thunderstorm at the Lincoln airport. Minor damage was reported.
Knox County, Creighton	20	2030CST			0	0	3	0	Thunderstorm Wind
									Wind gusts destroyed several outbuildings and a grain bin on 2 farms near Creighton.
Nuckolls County, Nelson	22	1920CST			0	0	2	1	Hail (1.75)
									One and three-quarter inch hail fell briefly near Nelson, causing minor reported damage.
Dodge County	22-27	Night-Morning			0	0	3	3	Flood
									Two to four inch rains caused flooding along Maple Creek affecting farms. A stage of 2.7 feet over flood stage occurred at Nickerson.
Lincoln, Cass and Saunders Counties	22-24	Night-Morning			0	0	3	4	Flood
									Two to five inch rains, the 22nd into the 23rd resulted in lowland flooding along Salt Creek from northeast Lancaster County to the mouth of the Platte and along Wahoo Creek. A stage of 2.2 feet over flood stage was measured at Ashland on Salt Creek on the 23rd and 2.7 feet over flood stage at Ithaca on Wahoo Creek. Farm lands suffered damage.
Clay, Nuckolls, Thayer and Jefferson Counties	22-26	Night-Morning			0	0	5	5	Flood
									Two to five inch rains, the 22nd into the 24th caused flooding along the Little Blue River from around Deweese south to the Kansas border. Considerable damage to farm lands and county roads was reported. A river stage of 5.7 feet over flood stage was reported at Fairbury on the 24th.
<b>NEBRASKA</b>									
NEZ002-003-004-006-007-008-009-012-013-014-016-017-018 Central Nebraska	23-25	0900CST-1100CST			0	0	6	1	Blizzard
									Blizzard conditions struck central Nebraska with visibilities at times less than an eighth of a mile in snow and blowing snow. Thirty-five to forty-five m.p.h. winds gusted at times to near 60 m.p.h. and created 8 to 12 foot drifts. Heavy snow of 6 inches or more fell east of a line from Nenzel to McCook and west of a line from Bloomfield to Red Cloud. In this area, snowfall in excess of 12 inches fell in a band about 70 miles wide centered from near Butte to the Kansas border south of Beaver City. Some heavier snow amounts included 24" at Neligh, 21" at Mason City, 20" at Broken Bow and Sargent, 19" at Chambers, 18" at Newport, Atkinson and Rose, and 16" at Ericson and Bertrand. Thousands of people were stranded as roads including a 60-mile stretch of I-80 became blocked with snow and drifts. An estimated 4000 cattle and calves died from the effects of the storm. The snow and wind lead to many power outages and the roof of a building at Shelton caved in from the weight of the snow.
Seward, Saline and Gage Counties	23-31	Morning-Midday			0	0	6	5	Flood
									Two to five inch rains, the 22nd to the 24th caused flooding on the Big Blue River from around Seward south through Barneston near the Kansas border. Urban flooding affected many towns. Many roads were flooded and bridges damaged. Rail lines flooded, slowing traffic in places. Tens of thousands of acres of farm lands were heavily flooded. Sandbagging prevented some urban flooding. River stages 10 feet over flood stage were reported at Crete and Barneston on the 25th and 11.1 feet over at Beatrice. Some overflows continued into the 31st, aggravated by snowmelt.
Seward and Saline Counties	23-27	Morning-Afternoon			0	0	5	4	Flood
									Two to five inch rains, the 22nd into the 24th pushed the Lincoln Creek 1.9 feet over flood stage at Seward on the 24th, the West Fork of the Big Blue 4.5 feet over flood stage at Dorchester, and Turkey Creek 7 feet over flood stage at Wilber on the 25th. Considerable flooding affected farm lands and county roads. Some urban flooding occurred around Wilber. Runoff kept overflows into the 31st at Wilber.
Dodge County	23-26	Midday-Afternoon			0	0	4	3	Flood
									Heavy rainfall from the 22nd to the 24th pushed the Elkhorn River out of banks about 1 foot around Crowell, Scribner and Hooper, flooding farm bottomlands. Some urban flooding occurred at Crowell where the river cut a new channel covering roads and surrounding homes.
Cass County	23-26	Midday-Morning			0	0	2	1	Flood
									Heavy rain, the 22nd to the 24th caused the Platte River to rise 0.9 feet over flood stage at Louisville, causing lowland flooding.
Pierce County	24-26	Morning-Morning			0	0	3	2	Flood
									Heavy rains, the 22nd to the 24th forced the North Fork of the Elkhorn River 0.7 feet out of banks at Pierce, the 25th, resulting in minor lowland flooding.
Otoe, Nemaha and Richardson Counties	24-31	Midday-Midday			0	0	2	3	Flood
									Heavy rains, the 22nd to the 24th along with snowmelt by the 31st pushed the Missouri River out of banks, causing lowland flooding of bottomlands from around Nebraska City south through Rulo. A stage of 3.7 feet over flood stage was recorded at Brownville on the 26th.
NEZ012 Southwest Nebraska	24	1500CST-1930CST			0	0	5	1	High Wind (52)
									North winds gusted upwards to 60 m.p.h. A peak gust to 60 m.p.h. was recorded at North Platte at 1848CST, where damage was reported to numerous signs, tree limbs and shingles. Train cars were blown off the tracks near Brule around 1500CST.
Richardson County	25	Morning			0	0	2	3	Flood
									Heavy rain, the 22nd to the 24th caused the Big Nemaha River to exceed flood stage by 0.6 feet at Falls City, resulting in lowland flooding.



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					KILLED	INJURED	PROPERTY	CROPS	
<b>NEBRASKA</b>									
NEZ004-007-008-009-010-013-014-015-016-017-018-019-020 Southwest, Central and Eastern Nebraska	28	0600CST-			2	6	7	1	Blizzard
	29	0900CST							
Blizzard conditions impacted southwest and central Nebraska during the morning and spread to east areas by midday. Visibilities were lowered to near zero at times in snow and blowing snow as 30 to 40 m.p.h. winds gusted 50 to 60 m.p.h. creating 6 to 14 foot drifts. Thousands of people became stranded as snow and drifts blocked roads and closed airports. I-80 was closed from North Platte. Many people became trapped in snowbound vehicles and buses for periods up to 22 hours. A man was found dead in a vehicle 11 miles east of Superior and another man was discovered dead of exposure in downtown Omaha. At least 6 people suffered hypothermia after being stuck in snowbound vehicles, including an elderly couple near Elkhorn, 3 men near Kennard and a man 11 miles east of Clay Center. Other indirect deaths and injuries occurred with the storm because of heart attacks and vehicle accidents. An estimated 25,000 calves and cattle died in the storm, including 900 in one feedlot alone near Hastings. Livestock loss was particularly heavy in central counties such as Custer, which had experienced another blizzard only 4 days earlier. The storm also caused power outages, and the roof on a building to collapse at Kearney. Heavy snow of 6 inches or more fell with the blizzard south of a line from Benkelman to Loup City to Sioux City and north of a line from Barneston to Nebraska City. Within this area, about a 70-mile-wide band of snowfall of 12 inches or more fell from near Stamford to Herman. Some heavier snow amounts in this area included 17" at Blue Hill, 16" at Superior, 15" at Papillion, Lyons, Osceola and Geneva, and 14" at Omaha, Prague, Raymond, York and Gresham. M59V M23V									
NEZ020 Southeast Nebraska	28	1100CST-1500CST			0	0	4	1	Ice Storm
Freezing rain caused considerable glazing, resulting in numerous breakages of power lines and poles around Humboldt and Falls City. Damage to tree branches was also reported.									
Antelope County	31	Daytime			0	0	2	2	Flood
Snowmelt resulted in lowland flooding along Elkhorn River around Neligh.									
<b>26 NEVADA</b>									
NVZ004-005-006	5	0000-1800 PST			0	0	3	0	High Winds
High winds buffeted Central Nevada beginning during the early morning hours. Winds of 70 to 80 mph were reported at Austin with 72 mph at Eureka and 53 mph at Tonopah. There was damage to roofs and sheds at both Austin and Gabbs.									
NVZ003	5	0000-2400 PST			0	0	0	0	Heavy Snow
Locally heavy snow fell in the Lake Tahoe area during the day, with 6 to 12 inches of accumulation at the higher passes. This caused chain and snow tire requirements over many passes.									
NVZ007	7	0000-1800 PST			0	0	2	0	Flooding
Locally heavy rain fell in Southern Nevada during the day, causing street flooding in areas. Las Vegas Airport received a third of an inch of rain along with pea-sized hail.									
NVZ003	12-13	1800-1800 PST			0	0	0	0	Heavy Snow
Heavy snow fell in the Lake Tahoe area. 18 inches fell at Mount Rose with 9 inches at Incline, 7 at Daggett Pass and 4 inches at Stateline. The snow caused chain or snowtire requirements over most mountain roads.									
NVZ003	14	0600-2400 PST			0	0	0	0	Heavy Snow
Locally heavy snow fell in the Lake Tahoe area with up to 15 inches in some of the passes, 6 inches at Stateline and Mount Rose, 5 inches at Daggett Pass, and 4 inches at Incline. Chains or snowtires were required over many mountain roads.									
<b>NEVADA</b>									
NVZ005-006	14-16	1800-0800 PST			0	0	0	0	Heavy Snow
Heavy snow fell across a large area of Central Nevada during this period. Snow accumulated to 23 inches at Austin, 12 inches at Eureka and 4 inches at Tonopah. Many roads were snowpacked in the area, with travel very difficult.									
Humboldt Co, Winnemucca	18	0200-0400 PST			0	0	3	0	Lightning
A lightning strike during the early morning hours did significant damage to WSO Winnemucca. The lightning was associated with a strong cold front moving through Nevada.									
NVZ001-003	18-19	0000-1200 PST			0	0	0	0	Heavy Snow
Heavy snow moved into Northwest Nevada and the Lake Tahoe area. In the Tahoe area, snow accumulations were 15 inches at South Lake Tahoe, 13 inches at Daggett Pass, 6 inches at Incline, and 5 inches in the hills to the west of Reno. In Northwest Nevada, 9 inches fell at Golconda, 5 inches at Winnemucca and 4 inches at Inlay.									
NVZ007	18	0600-2100 PST			0	0	0	0	High Winds
High winds of 50 to 55 mph caused blowing sand and dust in areas of Southern Nevada, reducing visibilities.									
NVZ003	21	0600-1800 PST			0	0	0	0	Heavy Snow
Locally heavy snow fell in the Tahoe basin during the day with up to 6 inches of accumulation. Chain or snowtires were required through many mountain passes.									
NVZ006-007	21-22	1800-1200 PST			0	0	0	0	Heavy Snow
Heavy snow fell in South-Central Nevada and Southern Nevada above 3500 feet. 8 inches fell at Tonopah with 6 inches at Caliente. 2 to 8 inches of snow fell in Southern Nevada above 3500 feet. The snow caused numerous travel problems.									
NVZ001-003	23	0000-1800 PST			0	0	0	0	Heavy Snow
Heavy snow fell in the Tahoe Basin and Northwest Nevada during the day. 6 inches fell at Mount Rose and Incline, with up to a foot of snow in the higher passes. 6 inches of snow fell in Northwest Nevada at Denio. The snow caused chain or snowtire requirements over many roads.									
<b>27 NEW HAMPSHIRE</b>									
NHZ 001-002-003-004 Northern and Central	01-02	0000EST-2400EST			0	0	5		Heavy Snow
Low pressure located over southeast Oklahoma at 0700EST Saturday, moved to the vicinity of Chicago by 0700EST Sunday. An occluded front associated with this low ran southeastward to the vicinity of Cape Hatteras. The combination of this occluded front and a high pressure ridge from Hudson Bay to the Canadian Maritimes, produced an easterly flow off the ocean, while aloft there was a strong southwest flow. This is a typical overrunning situation. The entire system moved slowly northeast and weakened. A second low formed offshore and was located in the Gulf of Maine at 0700 EST Monday. Most of the region reported continuous precipitation for at least 48 hours, but most of the time it was on the light side. The bulk of the snow fell from late morning into the early evening on Sunday. The snow was also mixed with sleet, freezing drizzle or rain, making for treacherous travel. There were the usual number of fender-benders, with no deaths or serious injuries reported in northern and central New Hampshire. The worst accidents occurred in Gilford (Belknap County), Sunday. At 1010EST, a car skidded through a stop sign into the path of an oncoming vehicle at the intersection of Morrill Street and Ridgewood Avenue. Then at 1150EST, a car lost control on a downhill section of Route 11-B, veered into the oncoming lane, bounced off a snowbank and back into its proper lane, where it collided virtually head-on with a pickup truck that was trying to avoid the first vehicle. Both accidents produced extensive vehicle damage, with 4 minor injuries reported. Snowfall amounts were in the 6 to 11 inch range throughout northern and central New Hampshire. The observatory atop Mt. Washington, elevation 6,288 feet (Coos County) reported continuous snow from 0100EST Sunday through 2200EST Tuesday with a 3-day total snowfall of 31.4 inches, with Sunday recording 10.1 inches, Monday had 10.2, and Tuesday 11.0. Following is a list of heavy snowfall amounts in inches and by zone:									

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
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## NEW HAMPSHIRE

.....ZONE 001.....	.....ZONE 002.....	.....ZONE 004.....
Berlin 8 Gorham 11 Barnstead 7	Diamond Pond 10 Mt. Washington 20,4 Blackwater Dam 8	Dixville 10 West Rumney 10 Franklin Falls 8
Errol 11 .....ZONE 003.....	North Conway 10	Sanbornton 7
1st CT Lake 11 Bradford 6 Tamworth 10	Pittsburg 9 Enfield 9	Marlow 7
Stark 6 Lebanon 8	.....ZONE 005.....	
No. Stratford 8 Sutton 7		

NH2 005-006-007 Southern 01- 0000EST 0 1 4 Mixed Precipitation  
02 2400EST

Most of southern New Hampshire reported continuous precipitation for at least 24 hours. Light snow began falling early Sunday morning, mixing with or changing to sleet, freezing drizzle or rain during the day, then finally turning back to snow late Sunday night. This produced treacherous travel conditions which caused many accidents throughout southern New Hampshire with no deaths, but one serious injury. That occurred at 2310EST Sunday on the Route 101 overpass in Stratham (Rockingham County). A 25-year-old female was seriously injured when the car she was a passenger in spun on ice and came to rest in the eastbound lane where it collided with another vehicle. At 0900EST Sunday, 9 cars slid off I-93 and into each other near Sewalls Bridge in Concord (Merrimack County), with no injuries reported. This was the worst of several multiple-car pileups. Snowfall was generally in the 1 to 6 inch range throughout southern New Hampshire. Following is a list of snowfall amounts in inches and by zones:

.....ZONE 005.....	.....ZONE 006.....	.....ZONE 007.....
Keene 1 Concord 5.5 Hampton 2	MacDowell Dam 4 Dover 2 Portsmouth 2	
Marlow 7 East Derry 3		
Surry Mtn. Dam 2 Franconstown 3		
Otter Brook 1 Manchester 3		
Walpole 5 Nashua 3		
	Newmarket 2	
	Rochester 2-3	

NH2 005 Monadnock 08 MorningEST 0 1 4 Icy Roads

A 27-year-old female lost control of her pickup truck on an icy section of Route 101 in Marlborough (Cheshire County) Sunday morning. The truck bounced off a hard-packed snowbank, rolled completely over and came to rest on its wheels, facing the opposite direction from which it had been headed. She received a seriously bruised lung and multiple body bruises, and remained in the intensive care unit for over 24 hours. Her truck was demolished.

NH2 001 Northern 19 2000EST 1 0 4 Slush-Covered Roads

Slush-covered Route 2 in Shelburne (Coos County) was the scene of a two-car crash which claimed the life of a 41-year-old male driver. He was attempting a righthand turn, when his car skidded into the oncoming lane and collided with a van. The 3 people in the van had only minor injuries. The accident occurred at approximately 2000EST Thursday.

Central and Southern Counties of Belknap, Carroll, Cheshire, Grafton, Hillsborough, Merrimack, Rockingham, Stafford, and Sullivan 31 1200EST 0 0 6 Heavy Rain and Flooding

A low pressure area formed over the southeastern states Monday afternoon. This system intensified rapidly as it moved slowly north reaching central Pennsylvania by 0700EST Tuesday. It continued north passing to the west of New England, and arriving over the Ungava Peninsula in Quebec Province Wednesday morning. This storm brought high winds and heavy rains to the region Tuesday. (See April 1987 Storm Data report for the rest of this New Hampshire catastrophic flooding event). The melting of a deeper-than-normal snowpack and heavy rains, coupled with a saturated or frozen ground, produced a rapid runoff that turned small streams and brooks into raging torrents by Tuesday night. In Belknap County, a dam burst washing out part of Peachum Road in Barnstead. Several roads were reported washed out or flooded in New Hampton, Sanbornton and Gilmartin, while in Belmont, part of South Road was closed; Tioga River was flooded above the bridge. Gilford reported that Bickford and Cottonwood roads were closed. In Carroll County, roads along the Saco, Swift, Branch, and Bearcamp rivers were closed due to flooding and washouts. The Kancamagus Highway between Conway and Lincoln was closed by the raging Swift River. Other state highways closed in the county were Route 113 in North Sandwich as Atwood Brook flooded; Route 153 in Eaton at Crystal Lake and in Wakefield near Branch Road; old Route 25 in South Tamworth; Route 16A in Bartlett at Intervale; and Route 16 in West Ossipee along the Chocoma River where many homes were evacuated. In Conway, the Saco River closed West Side and River roads. In Tamworth, Depot Road was closed. Sandwich reported the following roads impassable: Elm Hill, Top of the World, Bear Camp, Wing, Mt. Israel, Range, Upper, and Dinsmore, as well as Bennett Street. About 20 residents were evacuated from the Transvale Acres section of North Conway. In Cheshire County, a 15-foot-deep chasm was carved out of Route 101 near Hurricane Hill in Dublin. This and several smaller washouts forced the closing of Route 101 from Keene to Peterborough (Hillsborough County). Keene reported minor washouts on Main and West streets. In Harrisville, New Harrisville and Hancock roads were closed due to washouts. Too much mud closed Templeton Turnpike Road in Fitzwilliams. In Jaffrey, about 700 feet of Old Country Road was washed out. The Minnewawa Brook flooded the Wilbur Bros. Super Market parking lot

## NEW HAMPSHIRE

and damaged the Homestead Bookshop. Shaws Corner Road was closed from Gilsom to Surry by flooding and washouts. At approximately 1730EST, high winds tore down tree limbs onto power lines, leaving about 5,000 Cheshire County homes without electricity for several hours. Hinsdale appeared most affected along with sections of Sullivan and Swanzy. Grafton County appeared to be the hardest hit in the Penigewasset Baker Valley. The ice-free Penigewasset River crested at 23.43 feet at 0900EST Wednesday, April 1, making it the fourth highest river level since records began in 1920. Flood stage is 11 feet. There was an evacuation of about 75 families from their homes along its banks as well as a handful of Plymouth State College students from the field house Tuesday afternoon and night. Two people were rescued from their flooded vehicles on Route 3 in Plymouth. One was near Cooks Corner, and the other was of epic proportion near Crystal Spring, where a 19-year-old male, tethered to a rope tied to a utility pole and tended by his 53-year-old heart-patient father, dove into the swift, cold current and pulled a 68-year-old male through a small window of his van just seconds before the van disappeared. All three suffered hypothermia from the 40 degree water, but no other injuries. Several Plymouth businesses along the river suffered extensive damage. Plymouth also reported Perch Pond and Smith Bridge roads flooded. In Holderness, 12 homes on North River Street and 12 homes on South River Street, along with 11 businesses, were evacuated. In Campton a dam on the Mad River at the Junction of Routes 49 and 175 was in danger of giving way, as a crack was discovered in the dam at 1900EST. This forced the evacuation of the entire Six Flag Trailer Park and other low-lying areas along the river. Also, the Perch Pond Road in Campton was closed as the Osgood Bridge was washed out. In Canaan, Route 4 between downtown and Mascoma High School was closed as the Indian River reached a maximum height of 8 feet above the road. About 6 families evacuated their homes near the "Indian." Several Canaan businesses reported water in their basements, and this was the first time a home built in 1909 on Route 4 had water in its basement. Haines Brook washed out a 6 foot culvert on South Road, while other Canaan roads closed because of flooding or impassable mud were South Clark Hill, Potato, Beach Cobble, Gould, Follansbee, Twistback, and East Mountain. Also, Canaan reported several power outages due to trees falling onto power lines. In Enfield, Baltic, Smith Pond, and Boy's Camp roads were closed by flooding or washouts. In Thornton, Route 49 was closed. In Piermont, East Piermont Road was washed out near Camp Walt Whitman. Ashland reported Leavitt Hill Road had several washouts, and minor flooding on Collins and Grove streets. Bristol had washouts. In Hillsborough County, Hillsboro reported a section of Route 202 - 9 beside the Contocook River was closed, as well as Route 9 along the flooded Emerald Lake. Route 31 was closed in Lyndeborough and Greenfield. In Milford, the swollen Souhegan River caused extensive damage to a bridge, forcing the closing of Whitten Road and also parts of Stearns and Boston Post roads; Route 122 was closed by high water. Other county roads closed by high water or washouts were Curtis Brook, Johnson Corner, Gram, New Dutton, parts of Mountain and Pettingill roads as well as the Franconstown end of the Franconstown Turnpike in Lyndeborough; Hobbit Pond Road in New Ipswich; Darling Hill and Betchelder roads in Mason; and Livingston and Barrett Hill roads in Greenville. In Nashua, winds felled a tree across a parked car Tuesday afternoon and tree branches falling onto power lines caused minor power losses that affected about 350 customers in Nashua Tuesday afternoon. In Merrimack County, New London reported Route 113 closed and Danbury had a stretch of Route 104 washed out by the Smith River. Route 111 in Andover had a washout. A moving car was badly damaged in Henniker when hit by a falling tree that was blown down by winds. Rockingham County saw minor flooding in Candia, and a major power failure at the East Kingston substation that knocked out about 1700 customers in South Hampton, East Kingston, Brentwood, and sections of Kingston and Kensington from 1059 to 1143EST. In Stafford County, Rochester reported that Salmon Falls Road sustained severe pothole damage. Evans Road was closed by flooding and Betts and Estes roads had minor flooding. In Rollinsford, parts of Foundry Street were closed, and wind tore siding from its town hall. Wind-driven rain knocked poles and power lines out of commission in the Dover-Rochester area, with many power outages that lasted for short periods. Nearly every town in Sullivan County had roads washed out or closed by flooding. Closed were Route 31 into Washington and stretches of Route 10 in Crofton, Newport, Goshen and Lempster. In Newport, Route 11 - 103 was closed from McDonald's Restaurant to the China Jade Restaurant. Also in Newport, the following roads were flooded or badly eroded: Bascom, Reeds Mills, Chandlers Mills, Ayers, Endicott, Greenwood, Coon Brook, North New Port, and Sandy Hill. Lempster reported several roads washed out and closed. In Unity, Crescent Lake's North Road was washed out and Center and Cross roads closed. In Cornish, a few culverts fell in. Several small power failures were reported due to trees falling onto power lines, affecting parts of Lebanon and Unity for several hours. In Claremont, the Sugar River overflowed its banks forcing about 60 people to evacuate the Beaugard section of town. Also, in Goshen, 3 to 4 families were evacuated along Route 10. Many school districts cancelled school throughout the affected counties on Wednesday, April 1, due to the flooding.

28 NEW JERSEY, Northern — NONE REPORTED

28 NEW JERSEY, Southern — NONE REPORTED

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					KILLED	INJURED	PROPERTY	CROPS	
<b>29 NEW MEXICO</b>									
NMZ003-006-008-009 Southeast and Central Valleys	28-29				0	0	0	4	Early Spring Freeze
	Record-low temperatures and 1 to 2 inches of snow caused serious damage to the Mesilla Valley's fruit crop and Bernalillo County's apricot blossoms. Temperatures dropped to 6°F at Lovington and Tatum, and 15°F at Albuquerque. Temperatures in the upper teens were common elsewhere in the agricultural areas of the Central Valley and Southeast New Mexico.								
<b>30 NEW YORK, Coastal</b> — NONE REPORTED									
<b>30 NEW YORK, Central</b>									
St. Lawrence Region	01	1400EST			0	0	5	3	Ice Storm
	Ice, snow, sleet and freezing rain snapped tree limbs and power lines. Between 7,000 to 8,000 homes were affected. Light snow fell in other parts of the Adirondacks, and rain fell south of the Mohawk Valley.								
Areawide	31	0000EST			0	0	6	4	Floods
	Heavy rain and melting snow produced spring flooding conditions throughout the eastern portion of New York. Major rivers such as Hudson, Mohawk, Hoosic, Battenkill, Schoharie, etc., suffered flooding to some degree.								
Essex County	31	0700EST			0	0	5	0	Flood
	Overnight rain raised the Ausable River over flood stage. Parts of River Road had to be closed in the town of North Elba. Rain also caused a landslide along Route 73 in the town of Keene.								
Dutchess County	31	0800EST			1	0	5	3	High Wind
	Non-convective winds gusting to 50 MPH knocked out several trees and a power line in Dutchess County. Hardest hit was along Route 9D from Beacon to Route 9 in Poughkeepsie. One (1) woman died in a car accident when she hydroplaned on wet pavement, while trying to avoid a downed tree.								
	F28v								
Ulster County	31	UNK			0	1	4	4	Flood
	Rain induced flooding along the Chickchester Creek in Ulster County. Several hundred feet of stream bank were eroded away. Flooding was also reported along the Sawkill in Kingston as well as several other local streams.								
Albany County	31	1400EST			0	0	3	0	High Wind
	Non-convective winds knocked down trees and power lines in the county.								
NYZ012 and 011	31	1520EST			0	0	6	4	High Wind
	Non-convective winds gusting to 55 MPH knocked out a 46,000 volt transmission line near Lake Placid. As a result power was lost to many Adirondack communities.								
Rensselaer County	31	1600EST			0	0	4	2	High Wind
	Non-convective winds knocked out trees and power lines in various sections of the county.								
<b>30 NEW YORK, Western</b>									
NYZ001-022 Erie & Chautauqua Counties	01	Evening			0	0	5	0	Rain & Ice Jams
	Heavy rains, warm temperatures, and strong winds caused ice-jam flooding along the Cazenovia Creek in West Seneca, and at the Cattaraugus Creek at Sunset Bay.								
	Two dozen families were evacuated from the flooding at Southgate Plaza. In Sunset Bay, 200 persons were evacuated when water levels rose up to 2 feet over some roads.								
<b>NEW YORK, Western</b>									
	Ice-jam flooding also occurred along Panama Creek in Chautauqua County. About a half-dozen homes suffered minor problems.								
NYZ001 Genesee County	02	Morning			0	0	4	0	High Wind
	Strong winds felled trees and severed power lines. There were power interruptions in a few communities.								
NYZ001-021-022 Erie, Niagara, Orleans, Genesee, Chautauqua, & Cattaraugus Counties	31	Afternoon			0	0	5	0	Snow
	From 4 to 10 inches of snow fell. Transportation was forced to slow down. The snow made area roads become slippery. Many cars skidded into ditches or crashed against each other. Meetings had to be postponed.								
<b>31 NORTH CAROLINA</b>									
Surry Co.	01	0000EST			0	0	5	0	Flood
Graham, Alamance Co.	01	0030EST			0	0	?	0	Flood
Chatham Co.	01	0030EST			0	0	?	0	Flood
Rutherfordton, Rutherford Co.	01	0100EST			0	0	?	0	Flood
Raleigh, Wake Co.	01	0130EST			0	0	0	0	Flood
Rockingham Co.	01	0150EST			0	0	?	0	Flood
Cedar Falls, Randolph Co.	01	0300EST			0	0	?	0	Flood
Yadkin Co.	01	0300EST			0	0	?	0	Flood
Wilkes Co.	01	0300EST			0	0	?	0	Flood
Guilford Co.	01	0300EST			0	0	0	0	Flood
Durham, Durham Co.	01	0400EST			0	0	0	0	Flood
Orange Co.	01	0400EST			0	0	?	0	Flood
Northern Rowan Co.	01	0615EST			0	0	?	0	Flood
	Flooding from heavy rainfall and from snow melt continued into March after starting on the last day of February. Some of the flooding reached serious levels, particularly in the Northwest Piedmont where many streams overflowed and some evacuations were required. Many of the problems occurred on the Aarac and Yadkin Rivers, and Lovills Creek. There was little structural damage to homes or businesses, but quite a bit of damage to bridges and highways resulted. Some mud slides were reported in the western sections. Around the cities of Greensboro, Chapel Hill, Durham, and Raleigh, relatively minor flooding and no significant damage was reported.								
NC2-001 Outer Banks	11-12	0600-0600EST			0	1	5	0	Coastal Storm
	A low pressure system offshore and high pressure to the north combined to produce heavy surf and some beach erosion along the Outer Banks counties of Dare and Hyde. Overwash of Highway 12 on Hatteras Island was minor, but was more significant on Ocracoke Island. Portions of the road were eroded away. A barge was ripped loose from its moorings on the Albermarle Sound and struck a bridge, causing severe damage to about 40 pilings. In Kill Devil Hills a man sustained a head injury when the wind caused a light fixture over gas pumps to fall on him. Wind gusts were about 50 mph at times, but sustained winds were below 40 mph.								
Buxton and Avon, Dare Co.	31	0632-0640EST	10	440	0	7	6	0	Waterspout/Tornado (F2)/Waterspout/Tornado (F1)
1 South Sunbury,	31	0845EST			0	0	3	0	TSTM Winds (S2)
	A waterspout moved onshore (from the ocean) about 2 miles south of Cape Point, passed across Hatteras Island at Buxton and caused considerable damage to several homes and mobile homes (damage estimated at \$800,000). Quite a bit of damage occurred in Buxton Harbor where 13 boats were damaged. A wall in a new building, stressed for winds of 120 mph was blown out. 2 people were injured in a mobile home that was destroyed. The tornado then moved out over Pamlico Sound and struck the Avon community where damage was estimated at \$250,000. Some rental cottages were destroyed, and a number of homes and trailers were damaged. 5 people were injured at Avon - mostly cuts from flying glass and debris. The tornado/waterspout was observed by several people and apparently stayed in contact with the ground or water for most of its life. Heavy rain was observed with the storm, but very few people heard thunder and no hail was reported. The times shown above were the times the storm struck each community.								
	West of Cotfield, gusty winds (only 45 mph) associated with a thunderstorm turned over an unanchored mobile home. A severe thunderstorm produced gusts to 60 mph in Gates County. An area of almost 1 square mile was affected by the downburst. A peanut shed was blown over, a carport was damaged, and tops of pines were blown out. Eyewitnesses stated that no tornadic activity occurred with this storm.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>32 NORTH DAKOTA</b>									
ND2003-004 Southwestern North Dakota	20	Morning			0	0	4	0	Heavy Snow
	to	21	Morning						
	<p>A Spring storm dumped 10 to 14 inches of snow over the southwest corner of North Dakota. Thunderstorms also occurred with the heavy wet snow in an area west of Dickinson, North Dakota (including the towns of Belfield, Beach, and Golva). To the south of this area (towards the South Dakota border), the snow was colder and drier, and accompanied by strong northwest winds. The snow and blowing snow drifted over roads and highways, making them impassable, except to some four-wheel drive vehicles. Snow drifts up to two feet high blocked travel on U.S. Highway 85. This storm stranded motorists and caused school closings. Fortunately, property and livestock losses were minimal.</p>								
ND2007-008 South-Central North Dakota	20	-			0	0	6	?	Floods
	23								
	<p>A combination of rain, ice jams, and snowmelt caused many rivers and creeks in south-central North Dakota to overflow their banks. Primary counties affected by the flooding were Emmons, Sioux, Grant and McIntosh. Rivers and creeks included Beaver Creek, Spring Creek, Apple Creek, Heart River, Knife River, and the Cannonball River. The flooding inundated bridges, culverts, roads, and streets. The flooding caused school closings, blocked travel on U.S. Highway 83, and damaged homes and other buildings.</p> <p>The town of Linton (pop. 1500) in Emmons County bore the brunt of the flood damage when Beaver Creek and Spring Creek overflowed their banks. Twenty homes were damaged (including two caved-in basements) and more than a dozen families had to evacuate their homes. The streets were flooded as was the local golf course.</p> <p>Floodwater began to recede on the 24th and some families returned to their homes.</p> <p>The town of Linton was declared a disaster area. The flooding was the worst ever for that area.</p>								
<b>33 OHIO</b>									
OH2001 Williams County	03	0700EST			0	0	0	0	Flood
	<p>The St. Joseph River flooded at Montpelier. The river crested at a stage of 12.2 feet (Flood stage 12 feet) at 1600 EST on the 3rd, which did not cause any damage.</p>								
OH2001 Williams County	04	0730EST			0	0	0	0	Flood
	<p>The Tiffin River flooded at Stryker. The river crested at a stage of 11.2 feet (flood stage 11 feet) at 1430 EST on the 4th, which did not cause any damage.</p>								
OH2002-003-004 North-Central and Northeast Ohio	14	Morning-Evening			0	0	?	0	Heavy Snow
	<p>Snow started at approximately 0500 EST. Amounts reached 4 inches by 1300 EST and 6 inches by 1400 EST. The snow tapered off in the evening, by which time accumulations were as high as 8 inches in some spots. The snow caused little disruption since comparatively warm temperatures caused rapid melting on most highways.</p>								
Monroe County	25	1810EST			0	0	4	0	Hail (1.25)
	<p>Golfball-sized hail fell on Miltonsburg.</p>								
Belmont County	25	1820EST			0	0	4	0	Hail (1.75)
	<p>Golfball-sized hail fell on the central part of the county.</p>								
Belmont County	25	1845EST			0	0	3	0	Hail (1.00)
	<p>Large hail occurred at Shadyside and other locations in the eastern part of the county.</p>								
<b>34 OKLAHOMA</b>									
OH2001-002-003-004-005-006-007-008-010-011 All of Ohio except the South-Central Counties-	30	Afternoon			0	0	?	0	Heavy Snow
	31	Morning							
	<p>A late-season snow storm struck. Snow began accumulating in the southwest during the afternoon of the 30th. Snow started in the central, north-central, and northwest areas during the evening of the 30th, and in the eastern counties late on the 30th and early on the 31st. Accumulations commonly reached 4 inches within about 4 to 5 hours after the snow started. Storm accumulations were generally 4 to 8 inches, but in the north-central and northeast amounts reached 12 to 16 inches. Tree and power line damage was extensive in the southwest, while all areas experienced serious traffic problems and many school and office closings.</p>								
Jackson County, 7 mi SW Olustee	16	1601CST			0	0	?	?	Hail (0.75)
Jackson County, Altus	16	1650CST			0	0	?	?	Hail (0.75)
Jackson County, 2 mi SE Headrick	16	1725CST			0	0	?	?	Term. Wind (56)
Tillman County, 5 mi NE Tipton	16	1740CST			0	0	?	?	Hail (0.75)
Kiowa County, 7 mi W Snyder	16	1740CST			0	0	?	?	Hail (0.88)
Cleveland County, 5 mi SE Noble	16	2155CST			0	0	?	?	Hail (1.75)
	<p>Thunderstorms produced hail of around 3/4 inch diameter over parts of southwestern Oklahoma. Strong winds destroyed two out-buildings valued at ten thousand dollars southeast of Headrick.</p>								
Alfalfa County, 2 mi NE Lambert	20	1955CST			0	0	?	?	Hail (0.75)
Grant County, Nash	20	2000CST			0	0	?	?	Hail (1.75)
Woods County, 12 mi SE Waynoka	20	2015CST			0	0	?	?	Hail (0.88)
Major County, 5 mi N Chester	20	2020CST			0	0	?	?	Hail (0.75)
Alfalfa County, Jet	20	2030CST			0	0	?	?	Hail (1.00)
Grant County, 3 mi N Nash	20	2040CST			0	0	?	?	Hail (0.88)
Grant County, 4 mi ENE Nash	20	2100CST			0	0	?	?	Hail (0.75)
	<p>Hail ranging from dime to golfball size fell over sections of north-central Oklahoma.</p>								
Marshall County, 6 mi W Kingston	21	1720CST			0	0	?	?	Hail (0.88)
Stephens County, Loco	21	2119CST			0	0	?	?	Hail (0.75)
Garter County, Fox	21	2138CST			0	0	?	?	Hail (0.88)
Stephens County, Comanche	21	2243CST			0	0	?	?	Hail (0.88)
Murray County, 3 mi W Sulpher	21	2243CST			0	0	?	?	Hail (1.75)
Stephens County, Velma	21	2324CST			0	0	?	?	Hail (0.75)
	<p>Thunderstorms produced winds up to 50 mph and hail ranging from dime to golfball size over portions of south-central Oklahoma.</p>								
Delaware County, 1 mi NW Grove	22	0158CST			0	0	?	?	Hail (0.75)
Ottawa County, 1 mi S Wyandotte	22	0238CST			0	0	?	?	Hail (0.75)
	<p>Thunderstorms produced 3/4 inch size hail over portions of northeastern Oklahoma.</p>								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>OKLAHOMA</b>									
Ellis County, 15 mi N Gage	22	1830CST			0	0	?	?	Hail (1.50)
Ellis County, 10 mi NNW Gage	22	1845CST			0	0	?	?	Hail (1.75), Tstm. Wind (60)
Ellis County, 1 mi SW Catesby to 6.5 mi N Catesby	22	1845CST-1857CST	7.5	100	0	0	5	?	Tornado (F2)
Harper County, 6 mi S Laverne	22	1900CST	1.0	75	0	0	3	?	Tornado (F2), Hail (2.00)
Ellis County, 5 mi N Gage	22	1910CST	short narrow		0	0	?	?	Tornado (F0)
Ellis County, 7 mi NW Gage	22	1930CST	1.0	50	0	0	4	?	Tornado (F1), Hail (1.00)
Beaver County, 4.5 mi S Elmwood to 6.8 mi NE Elmwood	22	1932CST-1952CST	10	85	0	6	4	?	Tornado (F2)
Roger Mills County, Sweetwater	22	1946CST			0	0	?	?	Hail (0.75)
Harper County, 4 mi N May	22	1950CST	0.5	30	0	0	?	?	Tornado (F1)
Roger Mills County, Grimes	22	1953CST			0	0	?	?	Hail (0.75)
Harper County, 20 mi NW Buffalo	22	1955CST			0	0	?	?	Hail (1.00)
Woods County, 11 mi NW Freedom	22	2000CST			0	0	?	?	Hail (1.00)
Harper County, 14 mi E Buffalo	22	2000CST			0	0	?	?	Hail (1.00)
Harper County, 15 mi SE Buffalo	22	2000CST			0	0	?	?	Tstm. Wind (60)
Roger Mills County, Herring	22	2020CST			0	0	?	?	Hail (0.88)
Woods County, 4 mi N Lookout	22	2025CST			0	0	?	?	Hail (1.00)
Beckham County, Erick	22	2030CST			0	0	?	?	Hail (1.75)
Beckham County, Mayfield	22	2030CST			0	0	?	?	Hail (2.75)
Roger Mills County, 5 mi W Cheyenne	22	2110CST	short narrow		0	0	?	?	Tornado (F0)
Dewey County, Camargo	22	2115CST			0	0	?	?	Hail (0.75)
Ellis County, 17 mi S Harmon	22	2130CST			0	0	?	?	Hail (0.75)
Roger Mills County, 7 mi SW Leedeey	22	2200CST			0	0	?	?	Hail (0.88)
Woodward County, Sharon	22	2303CST			0	0	?	?	Hail (0.75)
Woodward County, 5 mi SW Sharon	22	2315CST			0	0	?	?	Hail (1.00)
Jackson County, 5 mi SW Eldorado	22	2351CST			0	0	?	?	Hail (1.00)
<p>Thunderstorms produced hail up to 2 inch size and strong winds up to 70 mph across portions of western and northwestern sections of the state. A tornado set down southwest of Catesby at 1845CST and moved northeastward for about 7 miles before lifting at 1857CST. It downed power poles, damaged several barns and pieces of farm machinery, destroyed several large irrigation systems, and rolled an empty boxcar several times. Damage was about \$100,000. Another tornado set down 6 miles south of Laverne at 1900CST and moved northward for a mile, damaging a mobile home and downing 5 power poles, with damage estimated at \$2,000. Another tornado set down 5 miles north of Gage at 1900CST, but caused no damage. Another tornado set down 7 miles northwest of Gage at 1930CST and moved northward for a mile, destroying a mobile home valued at \$20,000. A stronger tornado set down 4.5 miles south of Elmwood at 1932CST and moved northeastward to a point 6.8 miles northeast of Elmwood, lifting at 1952CST. Along the tornado's track, a man and woman were slightly injured when their car was picked up and overturned, and a family of four received minor injuries when their home was heavily damaged. Damage was estimated at \$40,000. A small tornado set down at 1950CST 4 miles north of May, causing no damage. Another small tornado touched down briefly at 2110CST 5 miles west of Cheyenne, causing no damage.</p>									
Jackson County, Eldorado	23	0007CST			0	0	?	?	Hail (0.88)
Jackson County, 3 mi S Altus	23	0028CST			0	0	?	?	Hail (1.75)
Jackson County, Altus	23	0032CST			0	0	?	?	Hail (1.25)
Greer County, 2 mi W Granite	23	0045CST			0	0	?	?	Hail (0.75)
Kiowa County, Lone Wolf	23	0058CST			0	0	?	?	Hail (0.75)
Johnston County, 3 mi N Tishomingo	23	0600CST			0	0	4	?	Tstm. Wind
Okmulgee County, Henryetta	23	0745CST	0.3	30	0	0	3	?	Tornado (F1)
Okmulgee County, 3 mi E Okmulgee	23	0800CST	0.3	30	0	0	3	?	Tornado (F1)
Tulsa County, E Section Tulsa	23	0905CST			0	0	?	?	Tstm. Wind
Payne County, 5 mi S Glencoe	23	1701CST			0	0	?	?	Hail (0.75)
Payne County, 5 mi N Ingalls	23	1707CST			0	0	?	?	Hail (0.75)
<b>OKLAHOMA</b>									
OKZ001-002-003	23	0600CST-2000CST			0	0	?	?	Blizzard
<p>An intense low pressure system caused snowfall of 8 to 10 inches across the panhandle. The snow was accompanied by winds of 30 to 40 mph with gusts up to 60 mph. The wind caused the snow to drift up to depths of 6 to 8 feet which closed most roads. Many people were stranded and two-thirds of the people were without electrical power for 12 to 14 hours. Many ranchers feared they had lost many cattle which may have frozen, but no numbers were available.</p>									
OKZ004-009-014-021-022	23	1600CST-2100CST			0	0	?	?	Strong Winds
<p>An intense low pressure system caused winds of 40 to 60 mph with some gusts to near 80 mph across portions of western Oklahoma. Several areas had periods of blackouts as many power poles and lines were blown down. Altus suffered damage to roofs and trees and several large signs were destroyed. Altus recorded a gust to 78 mph around 5PM.</p>									
OKZALL	29-30	Nights			0	0	?	?	Freezing Temperatures
<p>An arctic air mass settled over the state, causing night-time temperatures to fall below freezing. Temperatures ranged from 8 degrees in the northwest to the middle 20s in the southeast. Extensive damage was done to wheat and fruit trees, but the amount of damage may take several months before determination can be made. Several record low temperatures were set across the state.</p>									
<b>35 OREGON</b>									
ORZ005-009-013	04	1200PST			0	?	5	0	High Wind
<p>A strong pressure gradient developed ahead of a small low pressure system and cold front that moved across the southwest corner of the state. Wind gusts of up to 70 mph occurred at Ashland, 69 mph at Klamath Falls, and 85 mph at the Ashland ranger station in the Siskiyou Mountains. The 69 mph wind at Klamath Falls was the strongest wind there in the past 25 years. Considerable tree blow-down was reported along with extensive power outages. Several hangars were damaged and a couple of barns destroyed. Much roof damage occurred as well.</p>									
<b>36 PENNSYLVANIA, Eastern - NONE REPORTED</b>									
<b>36 PENNSYLVANIA, Western</b>									
Beaver County, 1S Beaver	25	1350EST			0	0	0	0	Hail (0.75)
<p>Three-quarter inch diameter hail fell at the Beaver campus of Pennsylvania State University.</p>									
Butler County, 13SW Butler	25	1405EST			0	0	0	0	Hail (2.00)
<p>Golfball size hail fell at Zellenopole.</p>									
Washington County, 15SW Washington	25	1830EST			0	0	0	0	Hail (1.00)
<p>One inch diameter hail fell at West Alexander.</p>									
Fulton County, 6W McConnellsburg	31	0700EST			0	0	3	0	High Wind
<p>Part of a barn roof was lifted and two sheds were destroyed by non-convective wind.</p>									
PAZ001-002 Northwest Pennsylvania	31	1000EST			0	0	0	0	Heavy Snow
<p>Six to ten inches of snow fell throughout the area.</p>									

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MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## 37 RHODE ISLAND

RIZALL Statewide 31 0500-2100EST 0 0 5 0 High Winds  
 High winds gusting up to 50 to 60 mph from the southeast and south knocked out electric service to thousands of residents statewide, affecting up to 30,000 customers. In addition, the winds blew down trees and tree limbs, and a house in Cumberland was seriously damaged by a falling tree. Signs were blown down in Pawtucket.

RIZALL Statewide 31 all day 0 0 0 0 Heavy Rain  
 Heavy rainfall amounts of 3 to 4 inches fell across the state, resulting in flooding of low sections and flood-prone areas. The Blackstone River was rising toward bankfull, but with only minor flooding being reported. The total rainfall at the Green State Airport in Warwick was reported as 3.67 inches.

## 38 SOUTH CAROLINA

Heavy rains of late February and early March on already wet soils caused flooding on many streams and most rivers. Land preparation was delayed due to wet fields.

Florence County 1-5 0 0 5 4 Flood

Black Creek near Quinby flooded a mobile home park, requiring evacuation of about 40 families for several days. Additional evacuation was also required along the Pee Dee River. Nine mobile homes were flooded. In the Friendship Community near Coward along the Lynches River, there was extensive flooding that cut off several roads.

Union County 1 0800EST 0 0 4 3 Flood

As a result of heavy rain, Moore's Lake off SC 215 Beltline between Union and Santuck, a nine-acre, 47-year-old, fishpond in lower Union County burst, flooding the area between the pond and the Tyger River. Damage to the pond and contents were estimated at \$20,000.

Chesterfield County 1-4 0 0 4 3 Flood

Some secondary roads near Cheraw were blocked by floodwaters from the Pee Dee River. Considerable flooding of lowlands from Cheraw to the Society Hill area occurred. The flooding began on the 1st and continued to the 4th.

Spartanburg County 1 0800EST 0 0 3 0 Flood

The bridge to Rainbow Lake was flooded to a ten-inch depth. Seven families were forced to evacuate. The sewerage plant on Fairforest Creek flooded causing discharge of raw sewerage.

Spartanburg County 1 1130EST 0 0 2 0 High Wind

Winds following a frontal passage blew down several trees on White Horse, Reidsville and Boiling Spring roads. About 1000 customers lost electricity.

Orangeburg County 1-5 0 0 5 2 Heavy Rains

Heavy rains of late February and early March weakened a roadbed, making it necessary for the highway department to close a 2-mile section of Highway 33 between US 21 and SC 470.

Cherokee County 1 1300EST 0 0 6 3 Flood

The Cherokee Falls Hydro-Electric generating plant and a fire works manufacturing company near Blacksburg were flooded. Water entered the power plant, causing damage and a loss of operation of about two months. Flooding began during afternoon of the 1st and began receding on the 2nd.

Berkeley County 19 0520EST 0 0 ? 2 Hail (0.5)

Charleston County 19 0530EST 0 0 0 2 Hail (.25)

Hail fell in Goose Creek and in Charleston. Damage from hail was minor.

Charleston County 25 1500EST 0 0 3 0 Urban Flood

Runoff from heavy rains flooded streets in Charleston, disrupted traffic on President and Line streets, caused minor car damage, and contributed to a rash of accidents.

Spartanburg County 27 1455EST 0 0 3 3 Hail (.25)

Hail, 1/4 inch in diameter, was reported in Spartanburg. Minor damage to roofs and flowers occurred.

## SOUTH CAROLINA

York County 27 1750EST 0 0 ? ? Hail (1.0)

Hail was reported in Fort Hill.

Richland County 27 2020EST 0 0 3 0 Urban Flood

Runoff from heavy rains flooded Whaley and South Main Street up to floorboards of cars, causing minor damage to cars, traffic delays, etc.

## 39 SOUTH DAKOTA

SD700C 16- Evening 0 0 0 0 Heavy Snow  
 Central SD 17 Evening

Five to thirteen inches of snow fell across the central part of the state. Five inches fell at Pierre (Hughes), six inches at Murdo (Jones), seven inches at Blunt (Hughes), and thirteen inches at Mobridge (Walworth).

SD705C-0NE 16- Evening 0 0 5 0 Ice Storm  
 South-Central and Northeast SD 18 Morning

Freezing rain coated many areas with up to four inches of ice. Nearly 400 utility poles were damaged and nearly 3000 people were out of power for a period of up to 48 hours in the south-central part of the state. Many tree branches and power lines were downed and many schools were closed. A large part of a 225 foot tower collapsed because of ice buildup. Many accidents occurred in the south-central part.

SD700W 20- Aftn. 0 4 4 0 Blizzard  
 Western SD 22 Aftn.

Heavy snow and strong winds produced blizzard conditions in the western part of the state. Six to twenty inches of snow fell. Twenty inches fell at Lead (Lawrence), eighteen inches at Spearfish Canyon (Lawrence) and fourteen inches at Spearfish (Lawrence). Winds gusted to near 65 mph producing near zero visibilities and 6-foot snow drifts. The high winds turned over and damaged a mobile home in Box Elder (Pennington). Many automobiles were stranded on Interstate 90 and the interstate was closed from Spearfish (Lawrence) to Wall (Pennington) from the evening of the 20th to the morning of the 21st. The heavy wet snow broke power lines in some areas, causing power outages.

SD200C 20- Evening 0 0 3 0 Flooding  
 Central SD 22 Aftn.

Snowmelt and several rainfall events caused some rivers and small streams to rise to very high levels. Lowland flooding occurred and some small roads and streets were flooded. Two railroad bridges were damaged by high water and ice between Wakpala and Mahto (Campbell).

SD205C-0SC 23- Evening 0 0 4 0 Blizzard  
 East-Central and South-Central SD 25 Aftn.

Strong winds and heavy snow produced blizzard conditions. Six to nineteen inches of snow fell. Some of the greater amounts were nineteen inches at Winner (Tripp), fifteen inches at Murdo (Jones) and twelve inches at Woonsocket (Sanborn), Platte (Charles-Mix) and Armour (Douglas). Six to ten inches fell in Brule and Davison counties. The heavy, wet snow broke power lines in some areas, causing power outages in Davison, Hanson and Sanborn counties on the evening of the 23rd. Winds gusted to near 50 mph in the south central, producing blowing snow and near zero visibilities. Snow drifts of up to ten feet were reported in some areas. Many schools were closed and Interstate 29 was closed from the evening of the 24th to late morning of the 25th from Chamberlain (Brule) to Rapid City (Pennington).

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED <sup>1</sup> DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
<b>40 TENNESSEE</b>										
Davidson County	18	0358CST			0	0	5	0	Thunderstorm Wind (49)	
Giles County	18	0430CST			0	0	3	0	Thunderstorm Wind	
Lawrence County	18	0450CST			0	0	3	0	Thunderstorm Wind	
Sumner County	18	0500CST			0	0	5	0	Thunderstorm Wind	
	<p>Strong and damaging thunderstorm wind gusts affected middle Tennessee during the early morning hours of the 18th. In Davidson County, trees were downed at several locations in Nashville around 0400CST, and damage occurred to several homes from the falling trees and limbs. A TV station briefly lost electrical power, and widespread power outages occurred to residential customers. Winds gusted to 56 miles an hour at Nashville Metro Airport. In Sumner County, heavy wind damage totalling over \$300,000 occurred to a boat dock on Saunders Ferry Road in Hendersonville. Also, large numbers of trees were blown down in and near Gallatin, in and north of Hendersonville, and near Cottonwood. A barn on Colts Ferry Road was leveled, and another barn on Hollis Chapel Road was heavily damaged. A 7 ton trailer was overturned in Gallatin. Telephone and power lines were downed. In Giles County, minor house damage was caused by falling trees and two motorists were injured in separate weather-related accidents. A motorcyclist ran into a tree which fell across the road, and a driver lost control of his car and was blown off the road by wind gusts in the western part of the county. In Lawrence County, roof damage occurred to two schools.</p>									
Weakley County	23	1830CST			0	0	5	0	Lightning	
	<p>Lightning sparked a fire which destroyed a house on Corinth Road near Sharon. Damage was around \$100,000 to the dwelling and contents.</p>									
<b>41 TEXAS, Northern</b>										
Dallas County, Dallas	16	1340CST	Short Narrow		0	0	?	?	Tornado (F0)	
	<p>A brief tornado damaged trees, fences, and roofs in northeast Dallas near Loop 635 and Plano Road.</p>									
Knox County, Truscott	16	1506CST			0	0	?	?	Hail (1.00)	
		1520CST			0	0	?	?	Hail (1.00)	
		1530CST			0	0	?	?	Hail (1.75)	
	<p>Hail the size of nickels began falling at 1506CST. By 1520CST, the hail was two inches deep. At 1530CST, the hail size had increased to golf ball size. By 1553CST, hail drifts up to one foot deep were reported.</p>									
Foard County: Foard City 6 SW Crowell	16	1520CST			0	0	?	?	Hail (1.00)	
		1532CST			0	0	?	?	Hail (1.75)	
	<p>Hail the size of nickels was reported by spotters at Foard City at 1520CST. Golf ball size hail was reported by spotters 6SW of Crowell at 1532CST. By 1553CST, the hail was reported in drifts up to one foot deep.</p>									
Taylor County, Abilene	16	1545CST			0	0	?	?	Hail (1.00) and Flash Flooding	
	<p>Hail up to one inch in diameter damaged vehicles in downtown Abilene. Three and one-half inches of rain flooded low-lying intersections.</p>									
Runnels County, 8 SW Winters	16	1615CST			0	0	?	?	Hail (2.50)	
	<p>Hail between golf ball and baseball size was reported by a cooperative observer 8SW of Winters.</p>									
Kaufman County, Forney	16	1900CST			0	0	?	?	Funnel Cloud and TSTM Wind	
	<p>A funnel cloud was reported at Forney; a truck driver claimed to have been blown off an overpass by strong winds around the same time.</p>									
Harrison County: 1 NW Marshall 8 N Marshall	16	2110CST			0	0	?	?	Hail (1.50)	
		2112CST			0	0	?	?	Hail (1.75)	
	<p>Pecan size hail was reported 1 mile northwest of Marshall at 2110CST. Golf ball size hail was reported 8N of Marshall at 2112CST.</p>									
Smith County and Wood County	16	2115CST	6	100	0	0	5	?	Tornado (F1)	
	<p>A tornado damaged buildings, mobile homes, and trees along a six mile track in northwest Smith County and extreme southwest Wood County. The tornado touched down near I-20 just southwest of Garden Valley (Smith County) and moved northeast, lifting near Highway 69 southwest of Mineola (Wood County) around 2130CST. Hardest hit was a group of buildings on the grounds of the Last Days Ministries in Garden Valley. Damage was estimated between 150 and 200 thousand dollars.</p>									
<b>— TEXAS, Northern</b>										
Marion County: 5 SE Jefferson	16	2122CST			0	0	?	?	Hail (1.75) and TSTM Wind	
8 NE Jefferson	16	2140CST			0	0	?	?	Hail (1.00)	
	<p>Golf ball size hail was reported 5 SE of Jefferson at 2122CST, along with broken tree limbs. At 2140CST, one inch hail was reported 8 NE of Jefferson.</p>									
Cass County: 1 SE Kildare 10 NE Hughes Springs	16	2150CST			0	0	?	?	Hail (1.00)	
		2312CST			0	0	?	?	Hail (1.00)	
	<p>Hail the size of walnuts fell 1 mile southeast of Kildare at 2150CST; nickel size hail was reported at 2312CST 10 miles northeast of Hughes Springs.</p>									
Hamilton County, 8 S Hamilton	16	2155CST			0	0	0	0	Funnel Cloud	
	<p>A funnel was briefly observed 8 miles south of Hamilton.</p>									
Bosque County, Eulogy	16	2200CST			0	0	?	?	TSTM Wind	
	<p>A vacant two-story residence was destroyed by strong thunderstorm winds near Eulogy in the extreme northwest part of the county.</p>									
Smith County, Swan	16	2250CST			0	0	?	?	Hail (0.75)	
	<p>Dime size hail fell at Swan.</p>									
Marion County, 8 NW Jefferson	16	2320CST			0	0	?	?	Hail (1.00)	
	<p>One inch diameter hail fell at Lake O' the Pines on Highway 49, 8 miles northwest of Jefferson.</p>									
Cherokee County, 4 W Jacksonville	17	0040CST			0	0	?	?	TSTM Wind	
	<p>A mobile home on Highway 79 four miles west of Jacksonville was turned over by thunderstorm winds.</p>									
Lamar County: Cunningham Depot	17	0135CST			0	0	5	?	TSTM Wind	
		0145CST	Short Narrow		0	0	5	?	Tornado (F0)	
	<p>Strong thunderstorm winds blew a tractor shed into a home and pickup truck in Cunningham in the extreme southwest part of the county around 0135CST. Another home was damaged by falling trees. At Depot, a brief tornado ripped the roof off a large hay barn around 0145CST, and a small supermarket was completely destroyed around the same time.</p>									
Upshur County, 1 E Gilmer	17	0145CST			0	0	?	?	Hail (1.00)	
	<p>One inch diameter hail was reported one mile east of Gilmer.</p>									
Red River County: Bogata Fulbright 3 S Clarksville	17	0150CST			0	0	?	?	TSTM Wind	
		0155CST			0	0	?	?	TSTM Wind	
		0155CST			0	0	?	?	TSTM Wind	
	<p>A storage building was blown over at a residence in Bogata around 0150CST. Some storage buildings were also damaged at Fulbright around 0155CST, and a barn was destroyed around the same time a little south of Clarksville. Several trees were also damaged around the southwest part of the county.</p>									
Houston County: 3 S Crockett Grapeland	17	0445CST			0	0	5	?	TSTM Wind	
		0500CST			0	0	5	?	TSTM Wind	
	<p>Thunderstorm winds did extensive damage to three barns at a ranch 3 miles south of Crockett around 0445CST. Strong winds also blew down trees and damaged roofs and storage buildings near Grapeland in the northern part of the county around 0500CST.</p>									
Anderson County, 5 E Slocum	17	0520CST	Short Narrow	1	3	4	?	?	Tornado (F1)	
	<p>A tornado and downburst winds destroyed a manufactured home five miles east of Slocum in the extreme southeast part of the county. A 35-year-old woman was killed while her 39-year-old husband and two children were injured when the manufactured home collapsed after being blown over. The winds also blew in windows of a nearby house and destroyed a barn, as well as downing numerous trees and power lines in the area. F35M</p>									
Cherokee County, 8 W Rusk	17	0530CST			0	0	4	?	TSTM Wind	
	<p>Thunderstorm winds did extensive damage to trees and property around Maydelle (8 W Rusk). Several homes and autos were damaged by falling trees.</p>									
Rusk County, Reklaw	17	0633CST			0	0	?	?	TSTM Wind	
	<p>Several trees were downed near Reklaw.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## TEXAS, Northern

San Augustine County	17	0700CST	8	50	0	0	?	?	Tornado (F0)
A tornado downed trees, power lines and some storage buildings for about eight miles along Highway 147 from 1 mile north of San Augustine to near the county line.									
Camp County, Pittsburg	17	Morning			0	0	?	?	Flash Flooding
Over five inches (5.16) of rain at Pittsburg overnight flooded roads and forced schools to close.									
Titus County, Mt. Pleasant	17	Morning			0	0	?	?	Flash Flooding
Over seven inches (7.20) of rain was recorded at Mt. Pleasant overnight. Some low-lying roads were flooded during the early morning hours.									
Morris County, Naples	17	Morning			0	0	?	?	Flash Flooding
Over eight inches (8.68) of rain fell overnight at Naples. Several roads were closed around the county due to high water.									
Bowie County, DeKalb and New Boston	17	Morning			0	0	?	?	Flash Flooding
Over five inches of rain at DeKalb and New Boston caused widespread flooding of roads during the early morning hours.									
Collin County, Allen	17	1940CST	Short	Narrow	0	0	?	?	Tornado (F0)
A weak "cold-core" tornado blew a picnic table into a car windshield in Allen.									
Knox County, Knox City	21	1520CST			0	0	?	?	Hail (1.75)
Golf ball size hail was reported at Knox City.									
Baylor County, Seymour	21	1600CST			0	0	?	?	Hail (1.75)
Golf ball size hail was reported by spotters at Seymour.									
Wichita County, Electra	21	1802CST			0	0	?	?	Hail (1.00)
		21	1815CST		0	0	?	?	Hail (1.75)
Nickel size hail fell at Electra at 1802CST, while golf ball size hail was reported at 1815CST.									
Gomanche County, 3 W Gustine	21	1920CST			0	0	?	?	Hail (1.00)
Hail up to the size of quarters covered the ground three miles west of Gustine.									
Hamilton County, 7 NW Hamilton	21	2000CST			0	0	?	?	Hail (1.00)
One inch diameter hail was reported 7 miles northwest of Hamilton in the northwest part of the county.									
Erath County, Dublin	23	0300CST			0	0	?	?	TSTM Wind
Strong winds damaged a storage building in Dublin.									
Cooke County, Gainesville	23	0455CST			0	0	?	?	TSTM Winds
High winds destroyed an equipment barn, overturned a trailer, and did assorted other damage to signs and trees near Gainesville.									
Navarro County, Eahouse	23	0525CST			0	0	?	?	TSTM Wind
High winds blew the roof off a mobile home near Eahouse.									
Van Zandt County, Wills Point	23	0545CST			0	0	?	?	TSTM Wind
	23	0640CST			0	0	?	?	TSTM Wind
High winds did considerable damage to barns and roofs near Wills Point at 0545CST and again at 0640CST.									
North Texas	23	afternoon-evening			1	1	5	?	High Wind
An intense low pressure system caused winds to gust between 50 and 60 MPH over a large portion of North Texas from about 0900CST until 2200CST. The strongest winds occurred over the western and central portions of North Texas, with Abilene reporting a peak gust of 53 MPH (1400CST), Waco 58 MPH (1500CST), Dallas/Fort Worth Airport 56 MPH (1500CST), and Wichita Falls 56 MPH (2100CST). Higher winds were reported by other sources, including a gust to 82 MPH by KXAS-TV in Fort Worth and a gust to 73 MPH by the Wilbarger County Airport. Damage was restricted mostly to trees, power lines, signs, and awnings, but part of a high school auditorium was blown off in Killeen (Bell County), and in Dallas a roof was blown off an elementary school cafeteria. A man was injured in downtown Fort Worth by a piece of lumber blown off a construction site by the wind. In Navarro County the wind was blamed as the cause of an automobile being blown off the road, killing the driver.									

## TEXAS, Northern

North Texas	29-	overnight	0	0	?	?	6	Freeze	
A late winter freeze severely damaged fruit trees over parts of North Texas. Minimums reached into the mid and upper 20s over west and central parts of North Texas on the 29th and 30th and into the upper 20s over the remainder of North Texas on the 31st. The freeze killed blooms to orchards of apples, pears, and blueberries, but hardest hit were peach crops. Growers in Camp and Parker counties estimated that 90 percent of their crop was ruined, with losses estimated around a million dollars.									
<b>41 TEXAS, Southern</b>									
Val Verde County	16	1805CST			0	3	7	?	Hail (4.50)
A devastating hailstorm struck the north and northwest side of the city of Del Rio. Hailstones ranged in size from marbles to softballs. Hail structure was varied in shapes from a uniform diameter of 3 inches to near 4 1/2 inches where smaller stones had adhered to a 3-inch circular base. There was one unofficial report of a 7-inch hailstone. There was extensive damage to roofs, skylights, windows and automobiles. Automobile dealerships on the north side of the city reported severe damage to about 400 vehicles. There were large dents in car tops and many broken windshields. Hailstones crashed through skylights of a shopping mall and flying debris injured 3 persons. Golfball size hail was reported on Lake Amistad shortly before the storm hit the city.									
Kinney County	16	1924CST			0	0	5	0	Hail (4.50)
Hail the size of softballs broke car windshields on US Hwy. 90 near the Kinney-Val Verde county line.									
Zavala County	16	2010CST			0	0	4	0	Hail (4.50)
Large hail broke out car windshields in the northern part of the county.									
Uvalde County	16	2024CST			0	0	5	0	Hail (1.75)
	16	2024CST			0	0	4	0	Wind (56)
Golfball size hail was reported in and around Uvalde. High winds from a thunderstorm downed trees, signs and power lines in Uvalde. On the west side of Uvalde, a restaurant lost its roof from the high winds estimated at 65 MPH.									
Grimes County	17	0435CST			0	0	5	0	Wind
High winds from a thunderstorm did scattered damage around the county. Damage occurred to barns, sheds, trees power lines and mobile homes. The damage mostly occurred in the following towns: Yarboro, Roans Prairie, Whitehall, Navasota and Bedias.									
Walker County	17	0450CST			0	2	5	0	Wind
	17	0500CST			0	0	0	0	Hail (1.00)
High winds from a thunderstorm hit just north of Huntsville at Pine Prairie. The high winds tore the roof off of a grocery store, and about 15 homes in the area suffered some kind of roof damage. Several trees in the area were toppled. 2 persons were injured when a window was broken by flying debris. Other damage in the area was to power lines mainly from trees falling on them. One-inch diameter hail also fell.									
Montgomery County	17	0515CST			0	0	5	0	Wind
In Conroe, high winds from a thunderstorm downed trees and power lines. Several homes were damaged from fallen trees. There was damage to outbuildings and roofs of homes. Also, roofs were damaged and trees downed east of Conroe in the town of Cut and Shoot.									
Polk County	17	0645CST			0	0	0	0	Wind
Sheriff's Department reported trees were downed due to thunderstorm winds in Livingston.									
Val Verde County	23	0140CST			0	0	0	0	Wind
High winds from a thunderstorm gusted to 60 MPH at Del Rio. Damage was not reported.									
Kinney County	23	0229CST			0	0	0	0	Wind
High winds from a thunderstorm were estimated at near 60 MPH by the Sheriff's Department. Damage was not reported.									
Bexar County	23	0445CST			0	0	5	0	Wind
High winds from a thunderstorm did scattered damage over the north and northeast part of the city of San Antonio. Large trees and limbs were downed as well as fences. There was also some roof damage to homes.									



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					KILLED	INURED	PROPERTY	CROPS	
<b>— TEXAS, Southern</b>									
Jefferson County	23	2350CST			0	0	0	0	Wind
									High winds from a thunderstorm downed trees and fences just east of Winnie.
South and Southeast Texas	29,30,31				0	0	0	7	Extreme Cold
									An unseasonable cold arctic outbreak moved in Central Texas on the evening of the 28th and moved offshore into the Gulf of Mexico on the morning of the 29th. The massive outbreak of frigid air broke many all-time low temperature records for so early in the spring season. In the Hill Country of Central Texas on the morning of the 29th, temperatures were in the upper 20s with sleet covering the ground in the Fredericksburg, Llano areas. Sleet also pelted the Austin area and snowflakes were reported as far east as Beaumont and Port Arthur on the night of the 29th. The Arctic high pressure which stretched from Southern Canada to South Texas was the blame for the loss of about 95 percent of the peach crop in the Hill Country. The freezing temperatures extended southward to the lower Rio Grande Valley where there was considerable damage to young crops. Little damage was done to the citrus trees. Literally thousands of gardens across South Texas were ruined. In East Texas, fruit crops were killed. Several schools were closed in the area as the heat source in many of the schools had already been shut off for the season. On the morning of the 31st, record low temperatures for so late in the season were recorded at Austin with 30 degrees, Del Rio had 32, College Station had 29, and Brownsville 34. Other record low temperatures included: Junction 22, San Antonio 31, Beaumont-Port Arthur 29, Corpus Christi and Houston 30 and Rio Grande City in the valley reported a 25.
<b>41 TEXAS, Western</b>									
Cottle County	16	1440 CST			0	0	0	0	Hail (1.75)
									The Cottle County Sheriff's Office reported golfball-sized hail 8 miles west of Paducah.
Stonewall County	16	1455 CST			0	0	0	0	Hail (1.75)
									Golfball-sized hail fell at Swenson, according to DPS Officers.
Tom Green County	16	Est. 1800 CST			0	0	5	0	Thunderstorm Wind (Est. 70)
									A violent thunderstorm roared through the county between 1700 and 1830 CST, accompanied by damaging straight-line wind estimated at 70 knots. The storm collapsed a 4.5 million pound capacity grain storage tank at Mereta in the eastern part of the county, causing about \$75,000 worth of damage. In San Angelo the storm collapsed light standards around a little league baseball park, snapped utility poles and overturned several cotton trailers. Halfway between San Angelo and Mereta a barn was unroofed by the windstorm.
Deaf Smith County	17	Est. 1300 CST			0	0	4	0	High Wind (50)
									Gradient wind, gusting to 50 knots, followed a strong cold front through the Hereford vicinity. The strong, gusty wind caused a 30-foot advertising sign to fall at 13th Street and U.S. Highway 389. The sign fell on top of an unoccupied tractor-trailer parked nearby.
Floyd County	22	1130 CST			0	0	4	0	Thunderstorm Wind (50)
									Thunderstorm wind, gusting to 50 knots, struck Floydada. A 24 x 32 foot metal outbuilding was lifted and blown against a house. Several houses sustained shingle damage.
Hemphill County	22	1740 CST			0	0	?	0	Hail (1.75)
									Golfball-sized hail was noted 2 miles south and 3 miles west of Canadian over a ten-minute period according to telephone company personnel and Skywarn storm spotters.
Lipscomb County	22	1745 CST	30	440	0	0	5	?	Tornado(F3) Hail (2.75)
									The Sheriff of Lipscomb County reported a tornado 3 miles southwest of Lipscomb. The tornado, a quarter-mile wide, touched down at the southwest corner of the county, churned through generally open country, and narrowly missed the communities of Locust Grove and Lipscomb. After crossing State Highway 305 and Ranch Road 1454, 12 miles southeast of Follett, it continued northeastward to near the county line. The huge storm destroyed fences, downed at least 26 power lines and heavily damaged or destroyed several barns. The tornado was on the ground at least 40 minutes. Baseball-sized hail accompanied the storm just south of Follett, covering the ground.
<b>— TEXAS, Western</b>									
Hemphill County	22	1805 CST			0	?	0	0	Hail (1.75)
									The same storm that produced golfball-sized hail near Canadian within the past half-hour again dumped golfball-sized hail 2 miles northeast of Glazier, according to storm chasers.
Lipscomb County	22	1823 CST			0	?	0	0	Funnels
									The supercell that brought golfball-sized hail in Hemphill County within the hour became tornadic, with three funnel clouds (or one multiple vortex funnel) seen emanating from a rapidly rotating wall cloud 3 miles west of Higgins. Shortly afterward, this storm produced at least one tornado in Oklahoma.
Ector County	22	2023 CST			0	0	0	0	Hail (0.75)
									Hail, the size of dimes, was reported at 16th Street and West County Road in Odessa, according to law enforcement officials.
Upton County	22	2113 CST			0	0	0	0	Hail (1.00)
									The DPS reported 1-inch hail 20 miles north of Rankin in open country.
Midland County	22	2115 CST			0	0	?	0	Thunderstorm Wind (Est. 50)
									Straight-line thunderstorm wind, estimated at 50 knots, blew a roof off a porch and knocked down a concrete fence in the northern part of the county, according to the Midland County Sheriff's Department.
Howard County	22	2150 CST			0	0	?	0	Thunderstorm Wind (51)
									A Skywarn spotter encountered thunderstorm wind gusting to 51 knots. Shingles were blown off several Big Spring roofs.
Glasscock County	22	2200 CST			0	0	0	0	Hail (1.00)
									The public reported 1-inch hail 8 miles north of Garden City.
Nolan County	23	afternoon			0	0	3	0	High Wind (65)
									Gradient wind associated with a deep low centered in the Panhandle gusted to 65 knots in the Sweetwater area. Several trees were uprooted in the area.
Lubbock County	23	afternoon			0	0	2	0	High Wind (51)
									Gradient wind associated with a deep low centered in the Panhandle gusted to 51 knots over the Lubbock area. The wind was accompanied by first, blowing dust and later, snowfall. Only minor damage, mostly to trees, was experienced.
Eastern Panhandle	23	morning-evening			0	3	5	0	Blizzard
									An early spring blizzard, regarded by some as the worst in at least 70 years, struck much of the central and eastern Panhandle. The intense storm system was accompanied by hurricane force wind and a wet, heavy snow that accumulated to as much as two feet in places. The storm stranded hundreds of motorists, knocked out power across much of the Panhandle, forced closure of schools, roads, and businesses and crushed at least two buildings. The following details a county-by-county assessment of the storm:
Gray County	23	morning-evening			0	3	5	0	Blizzard
									The intense winterlike storm brought 20 inches of snow to Pampa, and 40 to 60 mile-per-hour wind that pushed drifts to 10 feet in parts of the county. The weight of the snow caused the Revco Discount Drug Store in Pampa Mall to collapse, trapping and injuring three people inside. The Safeway Supermarket at the opposite end of the mall also partially collapsed. Elsewhere in the county, hundreds of motorists were stranded on U.S. Highway 60 and Interstate 40 as snow plows slid off roads. Gray County Sheriff Rufe Jordan of Pampa called it "The worst I've ever seen, and I've been here 71 years."
									The wind and snow destroyed hundreds of head of cattle due to exposure, with estimates of that loss at around \$250,000.

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					KILLED	INJURED	PROPERTY	CROPS	

**TEXAS, Western**

Carson County	23	morning-evening			0	0	?	?	Blizzard
<p>About 200 vehicles were stranded along a 13-mile stretch of U.S. Highway 60 between White Deer and Pamhandle due to a combination of high wind and very heavy snowfall that brought visibility down to zero. Some motorists sought refuge in White Deer churches; others banded together to make their way to the Carson County Courthouse. Power was out for several hours over most of the county.</p>									
Wheeler County	23	morning-evening			0	0	?	?	Blizzard
<p>High wind and heavy snowfall produced a "whiteout" that caused about 500 motorists to be stranded between McLean and Iola. The vehicles, including automobiles and large trucks, came to a complete standstill for more than 18 hours. Most facilities were without power and water; many sought shelter in rural homes where gas heat was plentiful. Others took shelter in the Shamrock National Guard Armory. Some truckers remained in the sleeper cabins of their trucks.</p>									
Ochiltree, Hemphill, and Roberts Counties	23	morning-evening			0	0	?	?	Blizzard
<p>High wind and very heavy snowfall forced closure of all highways over the three-county area, including U.S. Highways 83 and 60. Snowfall, up to 14 inches at Canadian, was pushed into drifts 12 feet deep by 60 mile-per-hour wind, completely burying abandoned automobiles. Most communities were without electrical service for an extended period, with Canadian powerless through the following sub-freezing night.</p>									

**42 UTAH**

UTZ010 Northern Mountains	11	1600MST			0	0	1	0	Heavy Snow
<p>A weak Pacific storm system produced some locally heavy 12-hour snowfall amounts in the northern Wasatch Mountains. The Solitude ski resort reported the most with 11 inches during the day, followed by Park City and Snowbird with 8 inches each.</p>									
UTZ010 Northern Mountains	14	0540MST			0	0	1	0	Heavy Snow
<p>Twelve inches of snow fell in a 24-hour period ending at 5:40 a.m. MST at the Snowbird ski resort in the northern Wasatch Mountains.</p>									
UTZ011 Southern Mountains	15	0830MST			0	0	1	0	Heavy Snow
UTZ006 Southwest Valleys	15	0835MST			0	0	1	0	Heavy Snow
<p>A low pressure system moving through Southern Utah dumped 11 inches of snow at Duck Creek in the mountains east of Cedar City during the nighttime and early morning hours of the 14th and 15th. The Brian Head ski resort received 8 inches during the same time, and Pine Valley, north of St. George received 7 inches. At lower elevations, the Kolob Visitor's Center at Zion's National Park recorded a 12-hour snowfall of 5 inches.</p>									
UTZ007 Sevier Valley	15	2225MST			0	0	1	0	Heavy Snow
<p>Six inches of snow fell at Manti between 4:30 p.m. MST and 10:25 p.m. MST.</p>									
UTZ005 Castle Valley	16	0710MST			0	0	1	0	Heavy Snow
UTZ007 Sevier Valley	16	0820MST			0	0	1	0	Heavy Snow
UTZ011 Southern Mountains	16	0900MST			0	0	1	0	Heavy Snow
<p>Twelve-hour snowfalls during this Sunday night and early Monday morning included 4 inches at Ferron, 12 inches at Bryce Canyon, 7 inches at Salina, and 8 inches at Pine Creek.</p>									
UTZ007 Sevier Valley	16	1710MST			0	0	1	0	Heavy Snow
<p>Salina received an additional 8 inches of snow between 8:20 a.m. and 5:10 p.m. on this Monday.</p>									
UTZ010 Northern Mountains	17	0515MST			0	0	1	0	Heavy Snow
<p>The Snowbird ski resort reported a 24-hour accumulation of 15 inches of new snow as of 5:15 a.m. MST.</p>									

**UTAH**

UTZ007 Sevier Valley	18	2225MST			0	0	1	0	Heavy Snow
UTZ006 Southwest Valleys	19	0100MST			0	0	1	0	Heavy Snow
UTZ011 Southern Mountains	19	0230MST			0	0	1	0	Heavy Snow
UTZ010 Northern Mountains	19	0400MST			0	0	1	0	Heavy Snow
<p>A spotter in Sigurd reported an accumulation of 4 inches of snow in less than 12 hours as of 10:25 p.m. MST. At around 1:00 a.m. reports indicated 12-hour accumulations of 8 inches of snow on the ground at Milford, and 6 inches in many spots in the Sevier Valley. Ten inches of new snow fell along Interstate 70 between U.S. 89 and I-15. The Richfield UHP Office reported 12 to 13 inches of new snow at Clear Creek as of 2:30 a.m., while Cove Fort had an accumulation of 12 inches. The Vernal Office reported 12 inches of new snow along State Road 191 north of Vernal in the Uinta Mountains.</p>									
UTZ007 Sevier Valley	19	0740MST			0	0	1	0	Heavy Snow
<p>Spotters in the town of Sevier reported additional snowfall which raised their 24-hour total to 12 inches as of 7:40 a.m. MST.</p>									
UTZ006 Southwest Valleys	20	0900MST			0	0	1	0	Heavy Snow
<p>Overnight snowfall totals in the Southwest Valleys included, 4 inches at Milford, 4 to 6 inches at Parowan, and 6 to 7 inches at Cedar City.</p>									
UTZ006 Southwest Valleys	22	0830MST			0	0	1	0	Heavy Snow
UTZ011 Southern Mountains	22	1015MST			0	0	1	0	Heavy Snow
<p>Overnight snowfall totals included 4 inches at the Cedar City Utah Highway Patrol Office as of 8:30 a.m. and 8 inches at the Brian Head ski resort. The ski resort had accumulated a total of 14 inches by early afternoon.</p>									
UTZ008 Southeast Valleys	22	1750MST			0	0	1	0	Heavy Snow
<p>Two reports of heavy snowfall in the Southeast Valleys of Utah were received as an upper level low moved across the southern border of the state. One spotter reported a 10-inch accumulation of snow during the daytime and early evening hours, ten miles north of the Bullfrog Marina on Lake Powell. Another received 8 inches at Hite during the same time period.</p>									
UTZ003 Wasatch Front	26	1815MST			0	0	5	0	High Wind
<p>A blustery cold front produced damaging winds in Utah County as it passed through on this Thursday evening. Reports of wind damage included an apartment roof which caved in, and a brick wall that fell over and sheared off a natural gas line. Other scattered reports of roof damage were reported, along with a few reports of windshields blown out of cars.</p>									
UTZ010 Northern Mountains	27	1530MST			0	0	1	0	Heavy Snow
<p>A moist northwest flow dumped very heavy snow in some spots in the northern Wasatch Mountains. 24-hour snowfall accumulations included 17 inches each at the Alta and Snowbird ski resorts.</p>									
UTZ010 Northern Mountains	28	0707MST			0	0	1	0	Heavy Snow
<p>The Snowbird ski resort recorded a 12-hour snowfall of 9 inches as of 7:07 a.m. MST.</p>									
UTZ003 Wasatch Front	28	1120MST			0	0	1	0	Heavy Snow
<p>Spotters in North Salt Lake and Bountiful received 4 inches of lake-effect snow in less than 6 hours on this Saturday morning.</p>									
UTZ010 Northern Mountains	29	0722MST			0	0	1	0	Heavy Snow
<p>The Snowbird ski resort reported a 12-hour overnight total of 9 inches of new snow as of 7:22 a.m. on this Sunday morning.</p>									

**43 VERMONT**

Statewide	31	0900EST			0	4	6	4	Flood
<p>Rain, melting snow and warm temperatures overnight created several flood problems around the state. Flooding was reported along the Dog, Deerfield, Lamaille, Moose, Pussumptic, Winooski, Battencill (Vermont Section), Browns, Mill Creek, Whetstone and Pond Brooks, and Black Rivers. Hundreds of small streams in the state also created minor flooding in localized areas.</p>									
<p>Four (4) Marlboro college students had to be rescued from Pond Brook as they attempted to do whitewater rafting. The four (4) were tossed out of their raft soon after they started. Local authorities rescued the four (4) late that evening. One (1) student was listed in serious condition.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

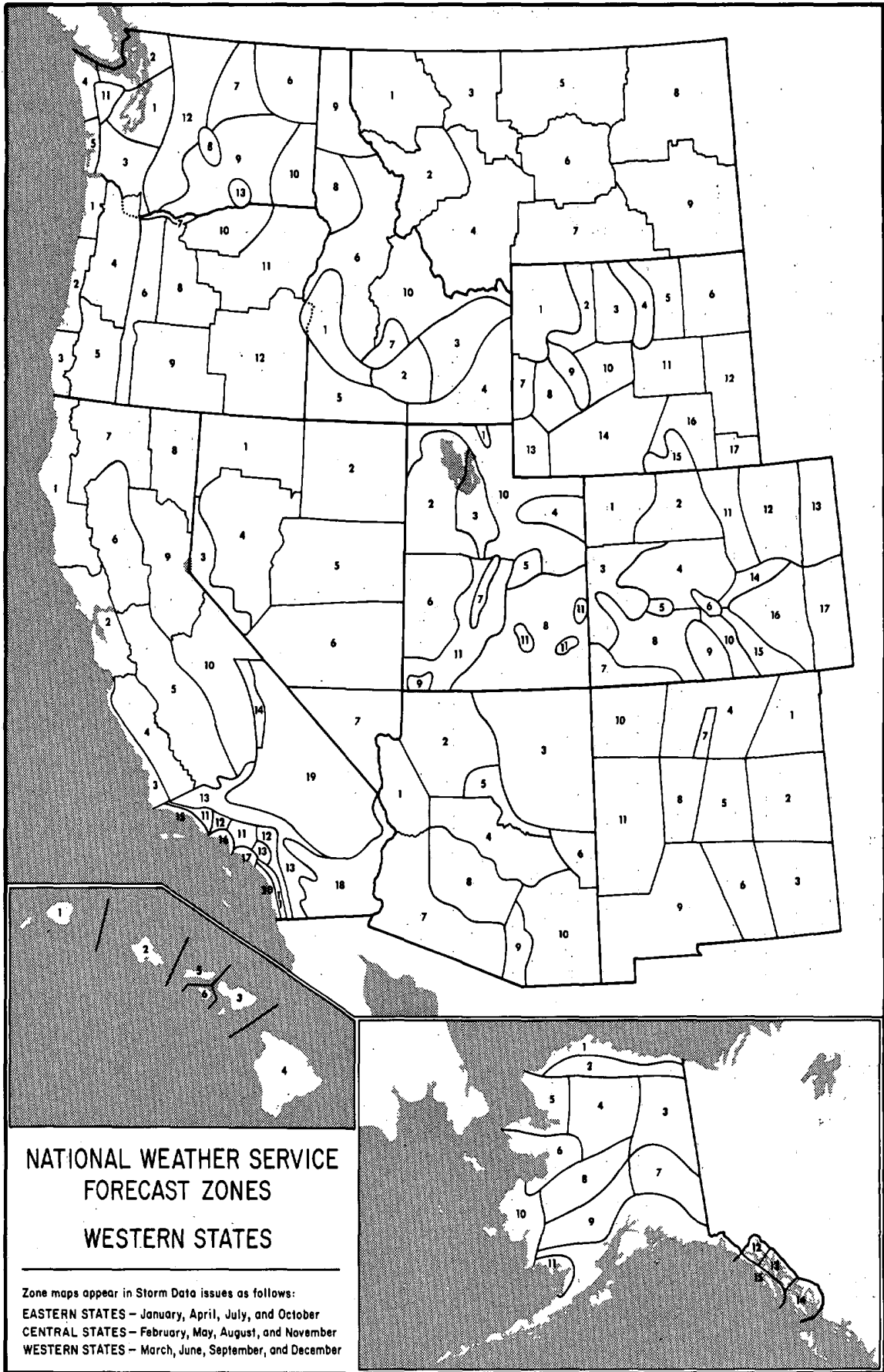
MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>44 VIRGINIA</b>											
VAZ007-008-009	01	0930EST			0	0	3	0			Flood
<p>A heavy wet snow fell in southwestern Virginia on Friday, February 27th, then changed to rain early on Saturday the 28th. The runoff caused the Roanoke River to crest at 10.77 feet on Sunday afternoon, March 1st, in Roanoke. The Dan River reached 18.98 feet (329 feet above NSL) between 1 and 7 am on Tuesday morning in Danville, forcing the closure of some roads. Most damage was confined to paved parking lots. The Mayo River rose to 6 feet above normal in Stuart.</p>											
VAZ001-002	09	2200EST			0	0	?	0			High Winds
<p>Strong northeast winds that peaked near 50 mph began abruptly on Monday evening as a low center passed offshore of the Carolinas. The winds were accompanied by freezing temperatures and blowing snow, causing frequent minor auto mishaps. Two ships were damaged in 10-foot seas; a trawler lost its rudder near the Chesapeake Light Station and a dredge was pushed aground.</p>											
Montgomery County	30	2238EST	0.5	50	0	0	6	0			Tornado (F1)
<p>A tornado touched down just north of Ingles Mountain, then made a skipping path along the ground toward the northeast into southern Radford. The average path width was 50 yards, but reached 100 yards at the point of greatest damage. Major building and tractor-trailer damage occurred at Radva, where a plastic plant and the Masonic Lodge were destroyed. There was scattered building damage elsewhere, with some roofs having been blown off; a number of trees were twisted and uprooted. Damage was estimated at about one-half million dollars.</p>											
<b>45 WASHINGTON</b>											
Western Washington	02-	All Day			0	0	4	0			Heavy Rain
<p>A low pressure system stalled off the Washington and Oregon Coast pumped warm, moist air over Western Washington for two days. Rainfall amounts for the first three days of the month ranged from 2.5 inches to 6 inches across the region. Flood warnings were issued for a half-dozen rivers. Mud slides temporarily closed State Highway 2 east of Monroe, as well as Highway 101 near Eldon, 20 miles west of Bremerton.</p>											
Clallam County and Snohomish County	25	Evening			0	0	4	0			Thunderstorm Wind
<p>A strong Puget Sound convergence zone formed late in the afternoon. Winds gusting to 50 mph knocked down numerous trees and caused scattered power outages in Clallam County. The convergence zone moved south toward Seattle before dissipating.</p>											
Eastern Washington	29	Morning			0	0	?	0			Freeze
<p>Modified arctic air moving southward out of Canada plunged morning temperatures to the low 20s, as low as 19 at Yakima. Critical temperatures were reached in agriculture districts across Eastern Washington, causing significant damage in all fruit crops.</p>											
<b>46 WEST VIRGINIA</b> ————— NONE REPORTED											
<b>47 WISCONSIN</b>											
WIZ017-020 Western Shore of Lake Michigan	08	1400-10			0	0	6	0			Lakeshore Erosion
<p>Strong northeasterly winds of 35 to 45 mph and gusting to 60 mph at times whipped up waves of 8 to 15 feet along the western shore of Lake Michigan. Over one million dollars in damage resulted in Milwaukee (\$800,000), Racine (\$150,000), and Kenosha (\$600,000) counties. In Milwaukee County, one-third of the slips at the South Shore Yacht Club were damaged. More than \$500,000 worth of damage was caused to the Port of Milwaukee. Up to 4 feet of Lake Michigan shoreline was eroded and damage also took place at the Jones Island sewerage treatment plant and South Shore Park. In Racine County, extensive damage to breakwater and shoreline protective systems was reported. Large amounts of debris were tossed by the waves onto and across Pershing Drive. Land erosion in Galedonia was from 2 to 5 feet. In Kenosha County, damage included flooding of a home in Pleasant Prairie and severe damage to steel floodwalls, docks and a parking lot at Trident Marina. Waves washed away as much as 10 feet of land along 1st Avenue in the town of Pleasant Prairie.</p>											
<b>WISCONSIN</b>											
WIZ015-018-019 Southern Wisconsin	14	1300-1800CST			0	0	0	0			Heavy Snow
<p>A 10-mile-wide band of 8 to 10 inch snow fell from northeast Lafayette County through southern Dane County and the northern portions of Green, Rock and Walworth counties. Blanchardville (Lafayette County) and New Glarus (Green County) picked up a foot of snow and Brooklyn (Dane County) received 10 inches.</p>											
WIZ005-007-008-009-010-011-014 West-Central, Central and North-east Wisconsin	28	2300-29			0	0	0	0			Heavy Snow
<p>A snowstorm dumped 6 to 10½ inches of snow in a roughly 90-mile-wide band from LaCrosse (LaCrosse County) to Crivitz (Marinette County). Snow totals included 10½ inches at Crivitz, 9 inches at Wautoma (Waushara County) and 7 inches at LaCrosse.</p>											
<b>48 WYOMING</b>											
WYZ001-009-010 Northwest Mountains to Wind River Basin	08	0030 to 1500MST			0	0	0	0			Heavy Snow
<p>A winter storm moved into western Wyoming dumping 6 to 12 inches of new snow. Yellowstone National Park picked up 8 to 12 inches with Lander receiving about 6 inches of snow.</p>											
WYZ013 Southwest	15	2200MST			0	0	0	0			Heavy Snow
<p>A storm moved into southwest Wyoming and deposited 4 to 6 inches of snow near Evanston.</p>											
WYZ009-010 Wind River Mountains and Basin	15	1700 to 17			0	0	0	0			Heavy Snow
<p>A winter storm that entered far west Wyoming by late evening of the 15th moved into the Wind River Mountains and basin by the 16th. Five to seven inches of snow fell in the Lander area.</p>											
WYZ00C-00E Central and Eastern Wyoming	20	0300 to 21			0	0	2	0			Heavy Snow
<p>A small-but-vigorous winter storm developed over south-central Wyoming on the morning of the 20th. This storm raced through eastern Wyoming by the morning of the 21st and ushered in spring with 6 to 12 inches of snow in its path. Strong gusty winds of 35 to 55 miles an hour accompanied this storm, creating many areas of blowing and drifting snow. Many roads were closed for a time, even all the interstate highways from Rawlins in the south to Sundance in the northeast. This was due to the wind pushing fast-developing drifts over roads and blowing snow reducing visibilities at times to near zero. Numerous minor accidents and frequent cancellations of schools and public meetings were noted across central and eastern Wyoming. Also, some ranchers had trouble feeding their livestock as well. Some individual snowfall reports were 11 inches at Douglas, 9 inches at Casper and 6 inches at Gillette.</p>											
<b>49 ALASKA, Northern</b> ————— NO REPORT RECEIVED											
<b>49 ALASKA, Southern</b> ————— NO REPORT RECEIVED											
<b>49 ALASKA, Southeastern</b> ————— NONE REPORTED											
<b>50 HAWAII</b>											
HIZ002 Oahu	24	1230HST			2	0	0	0			Flash Flooding
<p>Localized heavy rains over a small watershed within the Koolau Mountains and above Sacred Falls on the windward side of Oahu caused a sudden rush of water through the park area which caught a number of hikers unaware. A thunderous cracking sound heard by several hikers preceded the flooding. This sound was likely caused by the sudden break-up of a debris dam built up over time across the stream somewhere above the falls, according to a state conservation officer. A 22-year-old mother and her 2-1/2 year old son were swept to their death by the swirling waters, and a total of 58 hikers were left stranded for several hours within the narrow valley.</p>											

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
<b>51 PUERTO RICO</b>																			
Northern Section	16-	evening				0	0	6	C	Heavy Rain, Flooding									
	17	daytime																	
<p>An upper air trough moving slowly eastward across northern Puerto Rico generated heavy showers and a few thundershowers over the northwestern, northern and northeastern coasts. For the 48-hour period, heaviest rainfall amounts ranged from about six to sixteen inches. Roosevelt Roads Navy Base reported 11.22 inches in 24 hours ending 0600 AST on the 17th. In Isabela, road 112, near the town cemetery, became a flooded "sinkhole" with 19 houses under water along with two gas stations in the La Curva sector. Other affected areas were: Fajardo, Ceiba Luquillo, Toa Baja, Morovis, Rio Grande, Humacao and Loiza--all with local drainage and small stream flooding. In Loiza a strong wind gust tore the zinc roof off one house.</p>																			
<b>52 VIRGIN ISLANDS</b> ————— NONE REPORTED																			
<b>53 PACIFIC</b>																			
Swains Island, American Samoa	01					0	0	?	?	High Surf									
<p>High surf caused by strong westerly winds of gale force over a wide area 500 to 1000 miles west of Samoa and within an active monsoon trough during the last few days of February, washed over this low coral atoll and destroyed dwellings and other belongings of the island's 22 inhabitants. Women and children were temporarily evacuated to Tutuila.</p>																			



# STORM SUMMARY

MARCH 1987

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
<b>TORNADOES</b>																											
Number				1				3						1		1						11				3	
Days				1				2						1		1						3				2	
Deaths																											
Injuries																						4				5	
Property Damage				5				3						5		?						6					
Crop Damage				3										2		?											
<b>HAIL</b>																											
Deaths																											
Injuries																											
Property Damage			?											5	2	?						?				2	
Crop Damage														5		?										1	
<b>THUNDERSTORM WINDS</b>																											
Deaths				1															1								
Injuries			1	1																							
Property Damage	3		4	5				5	4					5	3	3		3					?			4	
Crop Damage				5												?										1	
<b>HIGH WINDS</b>																											
Deaths																											
Injuries																											
Property Damage	5				4	6				4	3								5						5	3	
Crop Damage																									1		
<b>LIGHTNING</b>																											
Deaths																								2			
Injuries																							1				
Property Damage	3							4					4		4	5										3	
Crop Damage																											
<b>FLASH FLOODS</b>																											
Deaths																											
Injuries																											
Property Damage	3		?																								
Crop Damage																							7				
<b>FLOODS</b>																											
Deaths																											
Injuries																											
Property Damage						6				3				5			6		6							7	6
Crop Damage														7												6	2
<b>HEAVY SNOWSTORMS AND BLIZZARDS @</b>																											
Deaths				?										1												2	6
Injuries														2	1									2		6	
Property Damage				?	5								6	8	3		5							4	7	2	5
Crop Damage				?										4										3	2		
<b>ICE STORMS #</b>																											
Deaths																											
Injuries																											
Property Damage																										4	
Crop Damage																									1		
<b>HURRICANES AND TROPICAL STORMS</b>																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
<b>ALL OTHERS</b>																											
Deaths																											
Injuries																											
Property Damage				?																							
Crop Damage																?	4						4				4

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

# STORM SUMMARY

MARCH 1987

TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATH & INJURY TOTALS	
<b>TORNADOES</b>																												
Number				1			9							7			1											
Days				1			2							3			1											
Deaths														1														1
Injuries				7			6							3														20
Property Damage				6			5							5			6											
Crop Damage							?							?														
<b>HAIL</b>																												
Deaths																												
Injuries																												3
Property Damage						4	?				3			7														
Crop Damage							?			3				?														
<b>THUNDERSTORM WINDS</b>																												
Deaths																												1
Injuries														2														8
Property Damage				3			4						5	5					4									
Crop Damage							?							?														
<b>HIGH WINDS</b>																												
Deaths														1														1
Injuries														1														1?
Property Damage								?	5	3	5	2		5					?						1			
Crop Damage			6				?							5	5													
<b>LIGHTNING</b>																												
Deaths																												
Injuries																												
Property Damage														5														2
Crop Damage																												
<b>FLASH FLOODS</b>																												
Deaths																												
Injuries																								2				2
Property Damage																										6		
Crop Damage														?											o/c			
<b>FLOODS</b>																												
Deaths																												
Injuries																												1
Property Damage																												
Crop Damage																												
<b>HEAVY SNOWSTORMS AND BLIZZARDS @</b>																												
Deaths																												3
Injuries																												14?
Property Damage																												
Crop Damage																												
<b>ICE STORMS #</b>																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
<b>HURRICANES AND TROPICAL STORMS</b>																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
<b>ALL OTHERS</b>																												
Deaths																												
Injuries																												
Property Damage																												1
Crop Damage																												

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

## REFERENCE NOTES

† Storm damage categories are from

1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- \* Miles instead of yards
- \*\* Yards instead of miles
- @ Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- ≠ Not received or incomplete
- o/c Under Estimated Damage, Property/Crops, indicates crop damage amount is included in the figure given

## Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage  
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.

(F1) Moderate tornado (73-112 mph): Moderate damage  
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage  
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage  
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage  
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage  
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

(F6-F12) (319 mph to Mach 1, the speed of sound):  
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

---

(F0+F1) Weak Tornado  
(F2+F3) Strong Tornado  
(F4+F5) Violent Tornado

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From J. Atmos. Sci., August 1981, p. 1517-1519



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HOURLY  
PRECIPITATION DATA  
ARIZONA

DECEMBER  
WITH ANNUAL SUPPLEMENT

ISSN 0264-6084

CLIMATOLOGICAL DATA  
ANNUAL SUMMARY  
ARIZONA

ISSN 0145-0387

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HOURLY  
PRECIPITATION DATA  
ARIZONA

VOLUME 35 NUMBER

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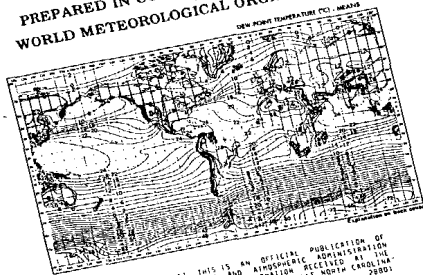
CLIMATOLOGICAL DATA  
ARIZONA

ISSN 0145-0387

LOCAL  
CLIMATOLOGICAL DATA  
Monthly Summary

STATION	DATE	TEMPERATURE	PRECIPITATION	WIND	RELATIVE HUMIDITY	WIND DIRECTION	WIND VELOCITY	WIND GUSTS	WIND SUSTAINED	WIND CALM PERCENT	WIND CALM DURATION	WIND CALM PERIOD	WIND CALM PERCENT	WIND CALM DURATION	WIND CALM PERIOD
TUCSON	1980	65.0	0.0	10	65	000	10	15	10	10	00	00	10	00	00

MONTHLY CLIMATIC  
DATA FOR THE WORLD  
PREPARED IN COOPERATION WITH THE  
WORLD METEOROLOGICAL ORGANIZATION



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STORM DATA

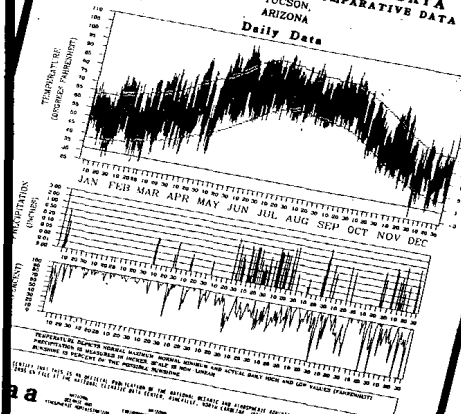


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Director  
NATIONAL CLIMATIC DATA CENTER

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LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA  
TUCSON,  
ARIZONA  
Daily Data



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Director  
NATIONAL CLIMATIC DATA CENTER

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- *Litigation*
- *Insurance Claims*
- *Environmental Studies*
- *Engineering Projects*
- *University Research*
- *Personal Curiosity*



## WHAT TYPE OF INFORMATION DO YOU NEED?



- *Station Records*
- *Monthly/Annual Summaries*
- *Long Term Climatic Studies*
- *Surface or Upper Air Charts*



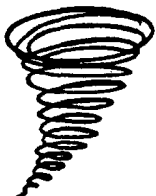
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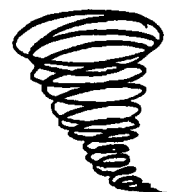
Call or write NCDC and explain your weather related problem.  
Our meteorologists will provide the best possible solution.



## NATIONAL CLIMATIC DATA CENTER

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