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STORM DATA



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Kenneth D. Walden

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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Cover: A boat motors through a flooded residential street in Linda, California after runoff from a week and a half of heavy rains throughout the state caused a breach in a levee along the Yuba River on February 21st. More than 20,000 people were forced from their homes as the entire town became inundated (see HEAVY RAIN and FLOODING over CALIFORNIA, pages 4 through 11).
---Photo by Eric Risberg, Associated Press.

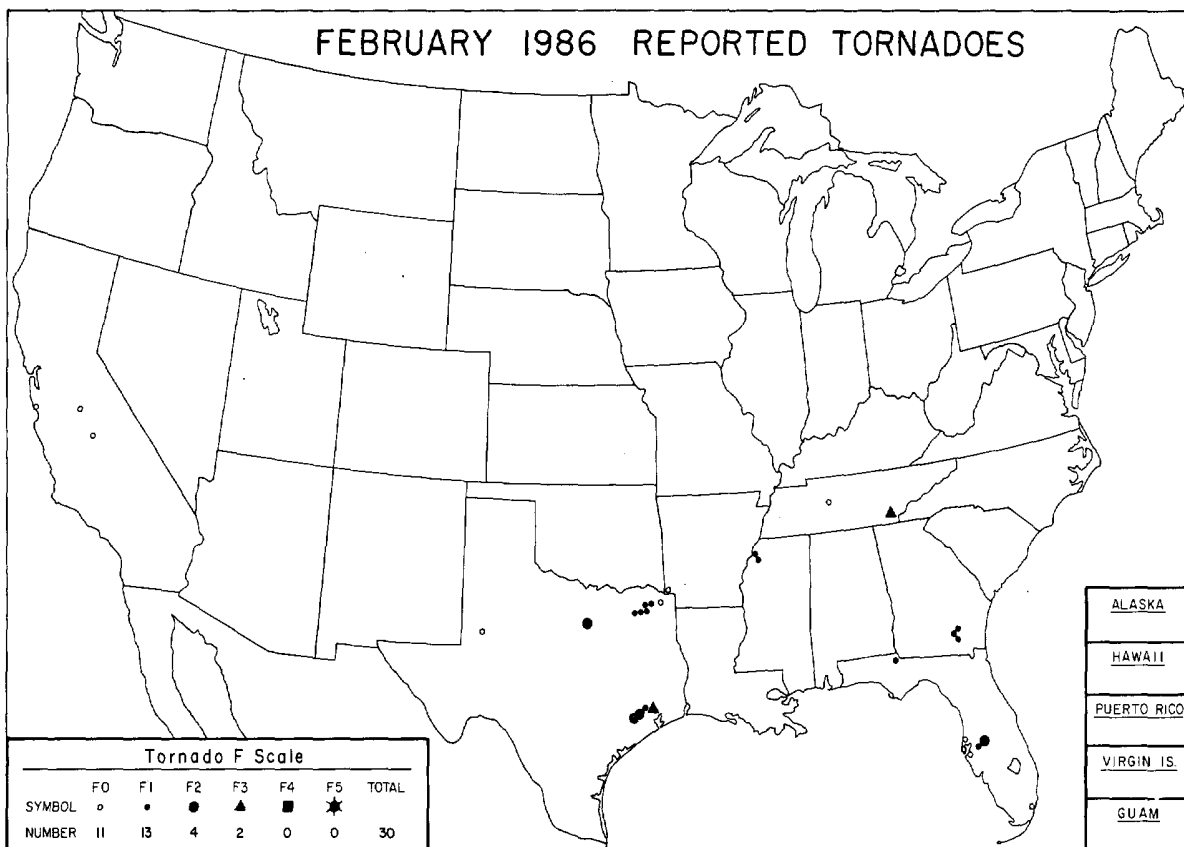
Maps of Zones used in the Storm Data and unusual weather phenomena section will be published in these editions of Storm Data:

Eastern States: January, April, July, & October.
Central States: February, May, August, & November.
Western States: March, June, September, & December.

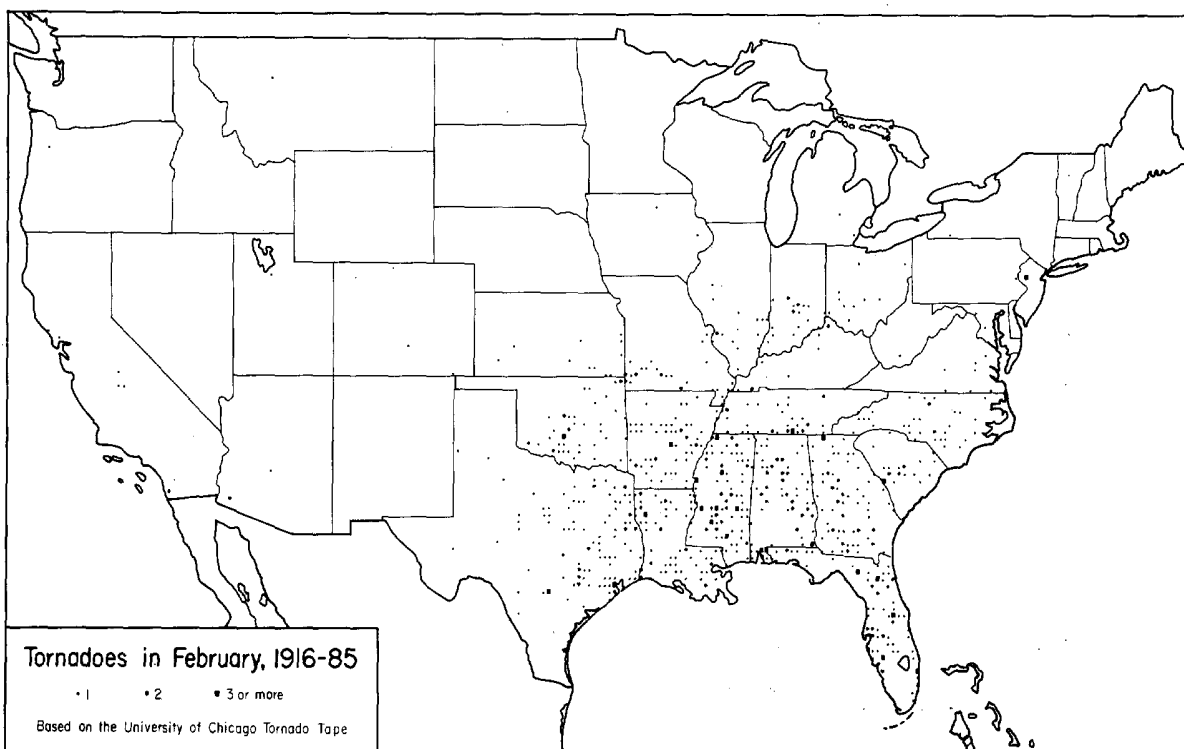
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles the statistics on deaths, injuries, and damage. 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.

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OUTSTANDING STORMS OF THE MONTH

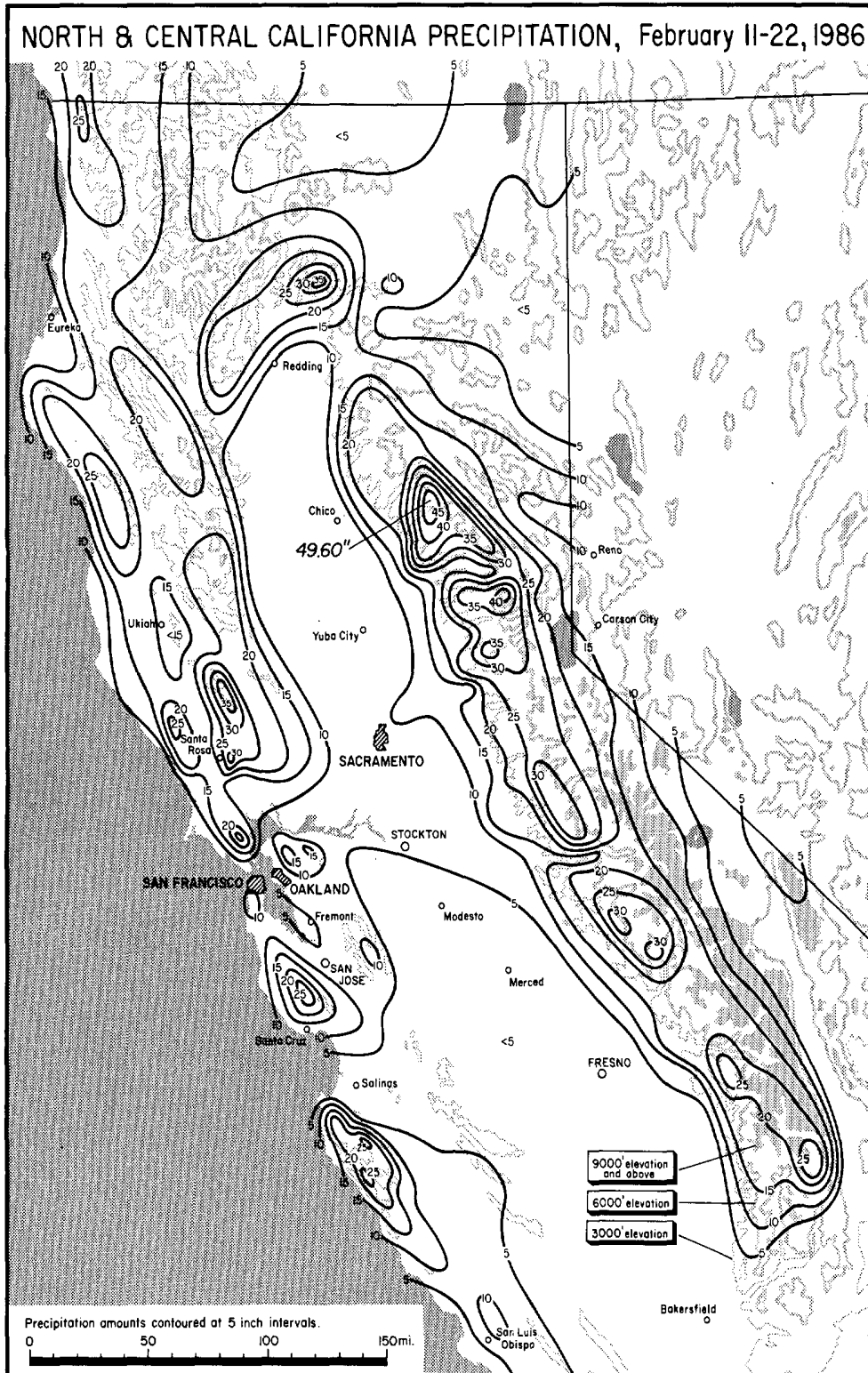


● COMPLETE REPORT RECEIVED	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)
○ PRELIMINARY REPORT RECEIVED	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40TN	● 45WA	● 50HI
○ REPORT NOT RECEIVED	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR
(N) northern (W) western	● 4CA(N)	● 10ID	● 17ME	● 24MI	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI
(S) southern (C) central	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC
(E) eastern (O) coastal	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	○ 49AK(N)	
(SE) southeastern	● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	○ 49AK(S)	

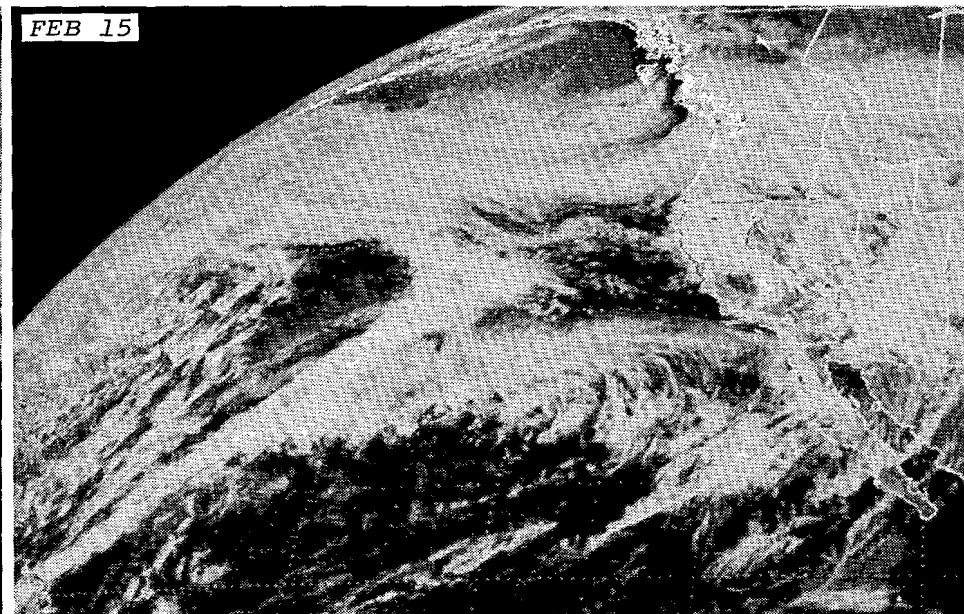
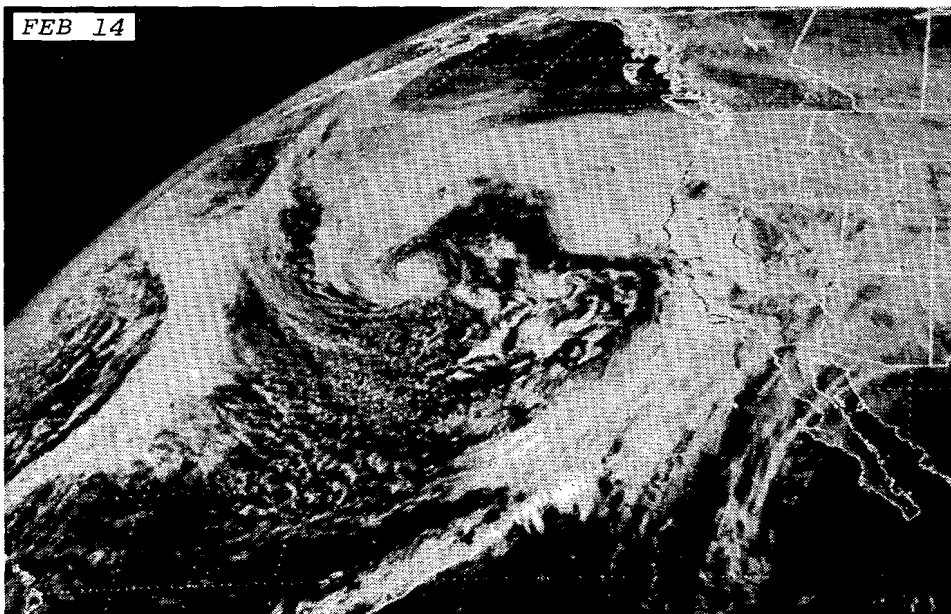
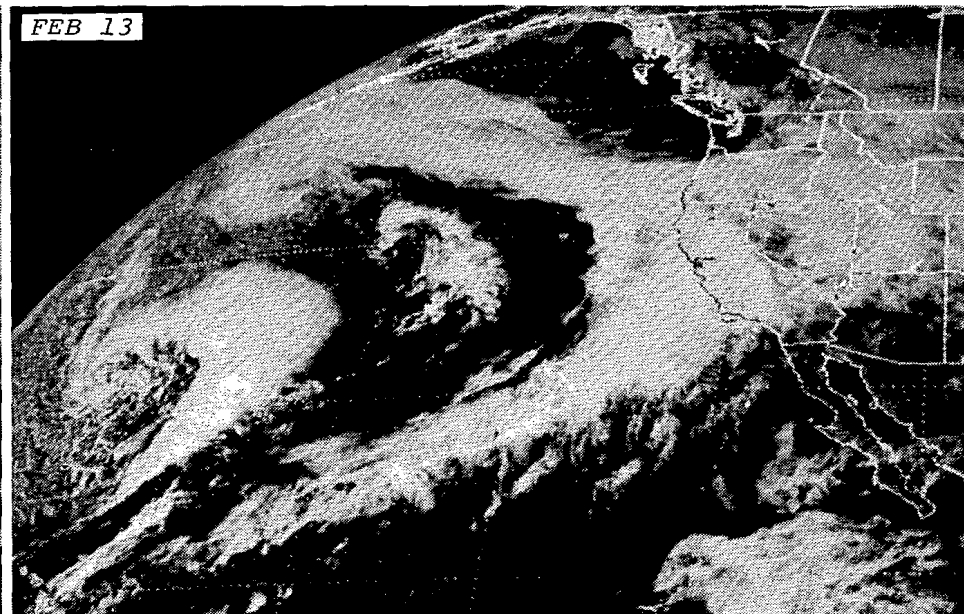
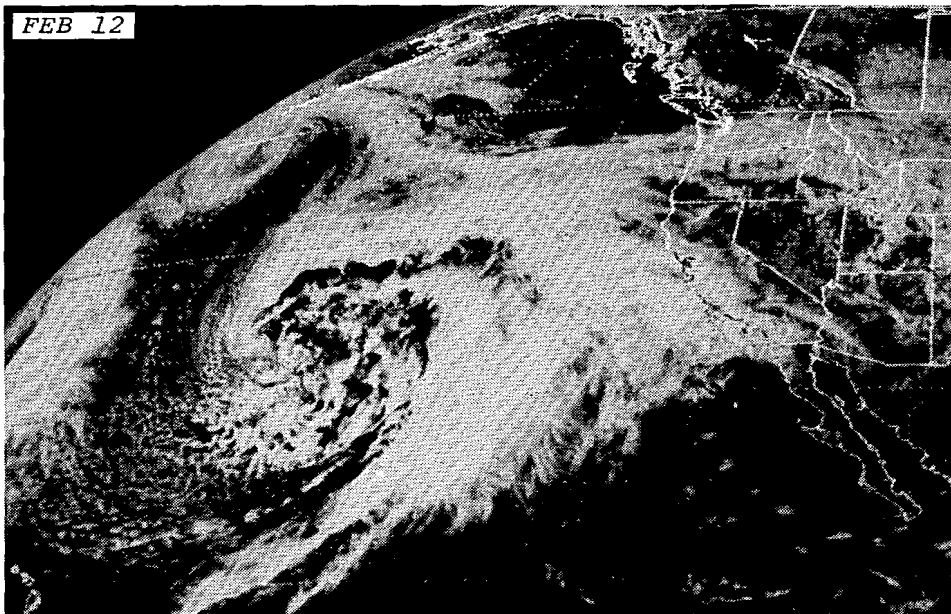


1. HEAVY RAIN and FLOODING over CALIFORNIA on February 11-22, 1986

During a 12-day period in mid February, persistent rain and snow in Northern and Central California led to widespread flooding, flash flooding and mudslides. The excessive precipitation, mainly rain triggered by a series of Pacific storms imbedded in a moist southwest flow, caused 13 deaths, 67 injuries, 50,000 evacuations, and over \$400 million in property damage. Bucks Lake, in the Sierra Nevadas where precipitation was orographically enhanced, received the highest total of 49.60 inches. Runoff from the deluge resulted in dam and levee breaks, accounting for the more serious flooding.

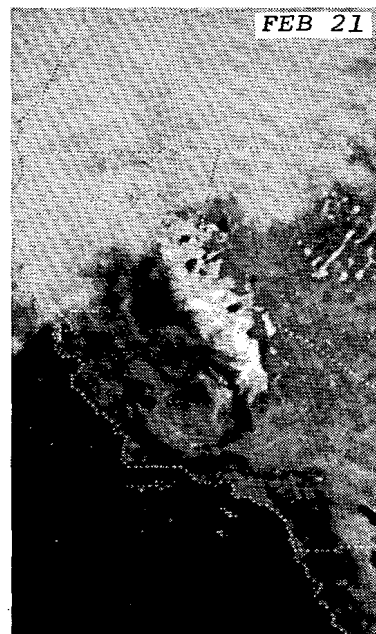
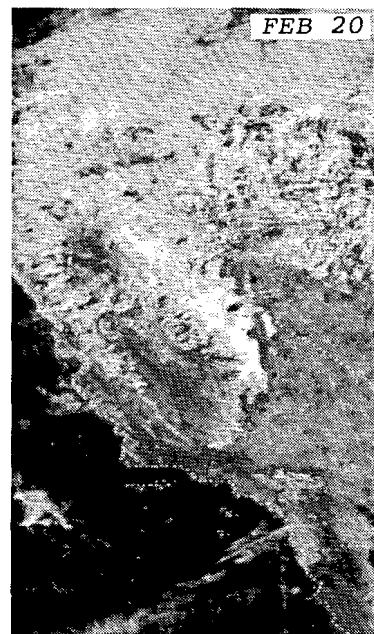
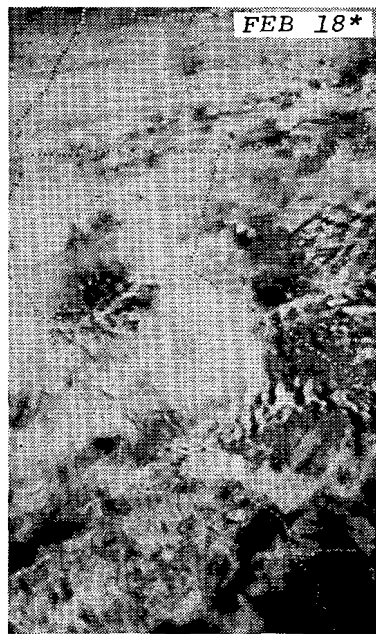
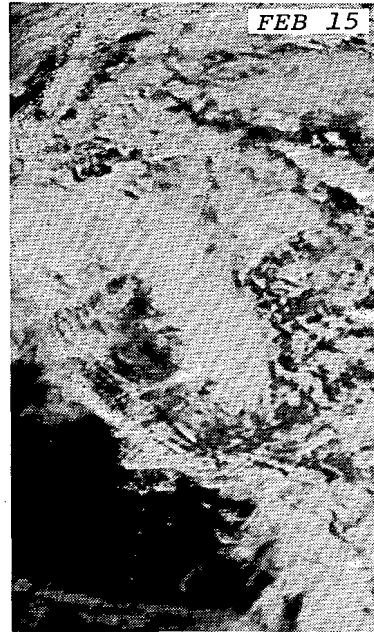
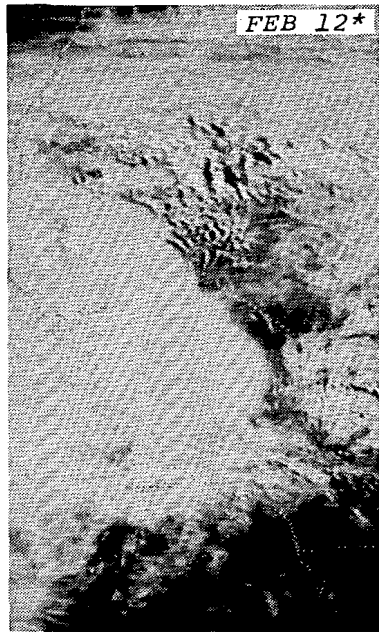


--Mapped with consideration to topography by the University of Chicago using 566 data points: cooperative observer data from NCDC and data courtesy of Jim Goodridge, supplied by the San Francisco NWSFO at Redwood City, California.



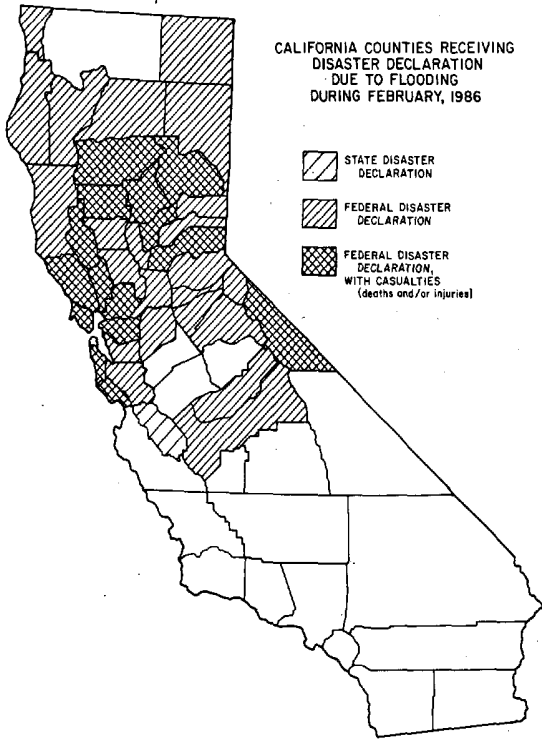
The GOES 6 satellite, visible images above, each taken at 1431PST (2231GMT), reveal the storm track that was established over the eastern Pacific at the onset of the heavy precipitation over California. After one storm struck the coast on the 12th, a second, larger one moved ashore on the 14th. ---Photos from NESDIS.

HEAVY RAIN and FLOODING over CALIFORNIA ---- continued



Daily GOES 6 satellite, visible images demonstrating the persistence of the cloud cover over California during the heavy rainfall period. [*] indicates 1331PST (2131GMT), all others are 1131PST (1931GMT). ---NESDIS photos.

HEAVY RAIN and FLOODING over CALIFORNIA ---- continued



THE FOLLOWING TABLE GIVES PRECIPITATION DATA FOR THE PERIOD ENDING FEB 1986 FOR SELECTED NORTHERN CALIFORNIA CITIES:

STATION	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
BAKERSFIELD	0.80	1.07	75	4.26	3.84	111	143	-14	5.72
EUREKA	10.00	5.20	194	28.83	28.39	102	103	+21	38.51
FRESNO	3.66	1.85	198	10.86	7.37	147	109	+17	18.52
MONTEREY	4.49	2.81	160	14.40	13.73	105	126	+11	19.29
OAKLAND	8.92	2.79	320	21.46	13.74	156	150	+41	18.03
RED BLUFF	8.30	3.31	251	22.64	16.39	138	169	+28	21.49
SACRAMENTO	8.60	2.88	300	19.48	13.44	145	229	+42	17.10
SALINAS	2.38	2.88	114	5.62	9.92	57	93	+16	13.81
SFO AIRPORT	8.09	3.23	250	17.85	15.11	118	135	+36	19.71
SFO DOWNTOWN	8.29	2.83	293	21.52	14.77	146	140	+35	19.33
SAN JOSE	6.05	2.23	271	13.79	10.25	135	152	+38	13.65
SANTA MARIA	3.68	2.63	140	9.83	9.83	100	122	+16	12.35

EXPLANATION OF COLUMNS:

- COLUMN 1: FEBRUARY 1986 ACTUAL PRECIPITATION
- COLUMN 2: NORMAL (1951-80) FEBRUARY PRECIPITATION
- COLUMN 3: PERCENT OF NORMAL PRECIPITATION IN FEBRUARY 1986
- COLUMN 4: JULY 1985 THROUGH FEBRUARY 1986 (SEASONAL) TOTAL PRECIPITATION
- COLUMN 5: NORMAL SEASONAL (1951-80) PRECIPITATION
- COLUMN 6: PERCENT OF NORMAL SEASONAL PRECIPITATION
- COLUMN 7: PERCENT OF LAST YEAR'S SEASONAL PRECIPITATION
- COLUMN 8: PERCENT CHANGE IN SEASONAL PRECIPITATION SINCE JANUARY 1986
- COLUMN 9: NORMAL YEARLY TOTAL PRECIPITATION

---Table provided by the San Francisco NWSFO at Redwood City, California.

---Map at left from information supplied by the California Office of Emergency Services.



A section of Highway 162 near Covelo, CA, washed out by flooding of the Eel River on February 17th and 18th. ---Phil Toy (via AP).



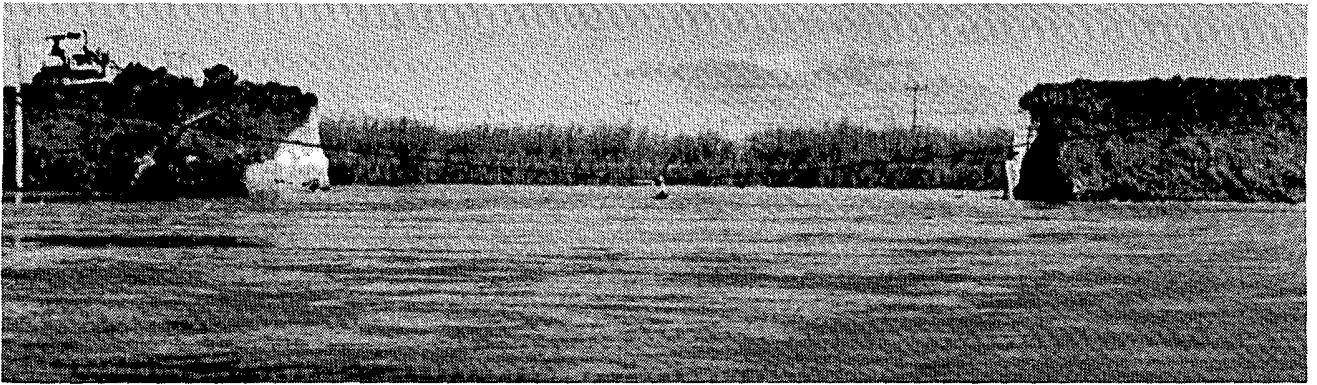
The main street of downtown Napa, CA as it appeared on February 18th. ---Eric Risberg (AP).

HEAVY RAIN and FLOODING over CALIFORNIA ---- continued



Flooding at Linda, CA on February 22nd following a levee break (arrow) along the Yuba River that occurred on the previous day. An inundated Peach Tree Mall appears in the foreground; Yuba City, a swollen Feather River, and Marysville appear left to right at top. Nearby Olivehurst was also affected. ---Dave Nielson (YSAD).

HEAVY RAIN and FLOODING over CALIFORNIA ---- continued



ABOVE: A bulldozer pushes rock towards the gaping hole in the earthen levee at Linda on the morning following the levee's failure (see arrow in photo on previous page).
BELOW: Water from the Yuba River that passed through the levee engulfs a J.C. Penney store at the Peach Tree Mall. ---Both photos by David Parker (YSAD).



In search of additional flood victims, a National Guard helicopter continues patrols over Linda on February 22nd. ---Eric Risberg (AP).

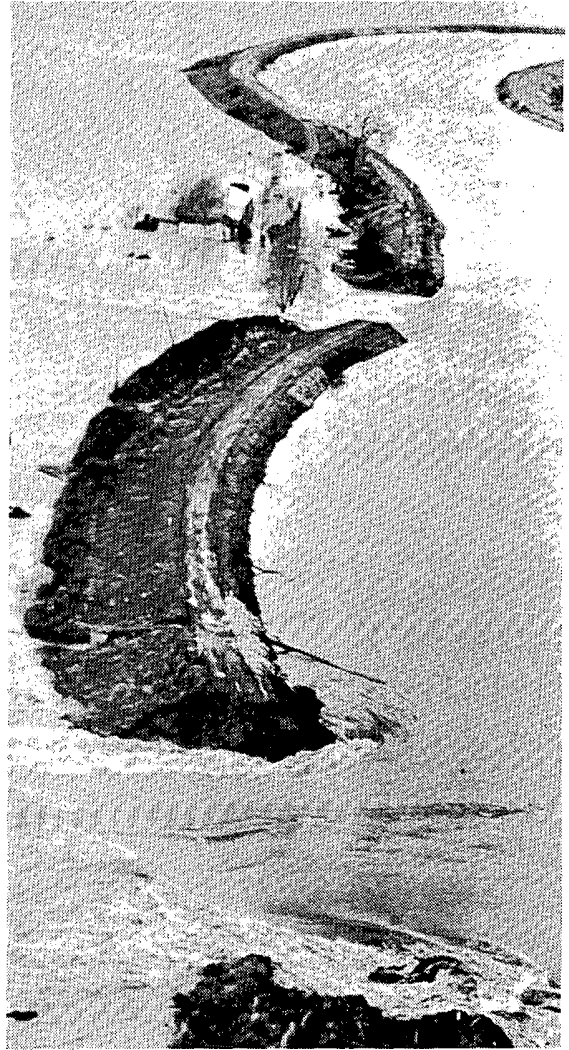


Floodwaters at Linda that reached rooftop level on February 21st. ---Rich Pedroncelli (AP).

HEAVY RAIN and FLOODING over CALIFORNIA ---- continued



ABOVE: An earthen dam near Auburn, CA that gave way on February 18th and sent 50,000 acre-feet of water pouring into the American River and Folsom Reservoir. A top federal official called the break "a safety plug spill" and said that there was no immediate safety hazard. ---(AP).

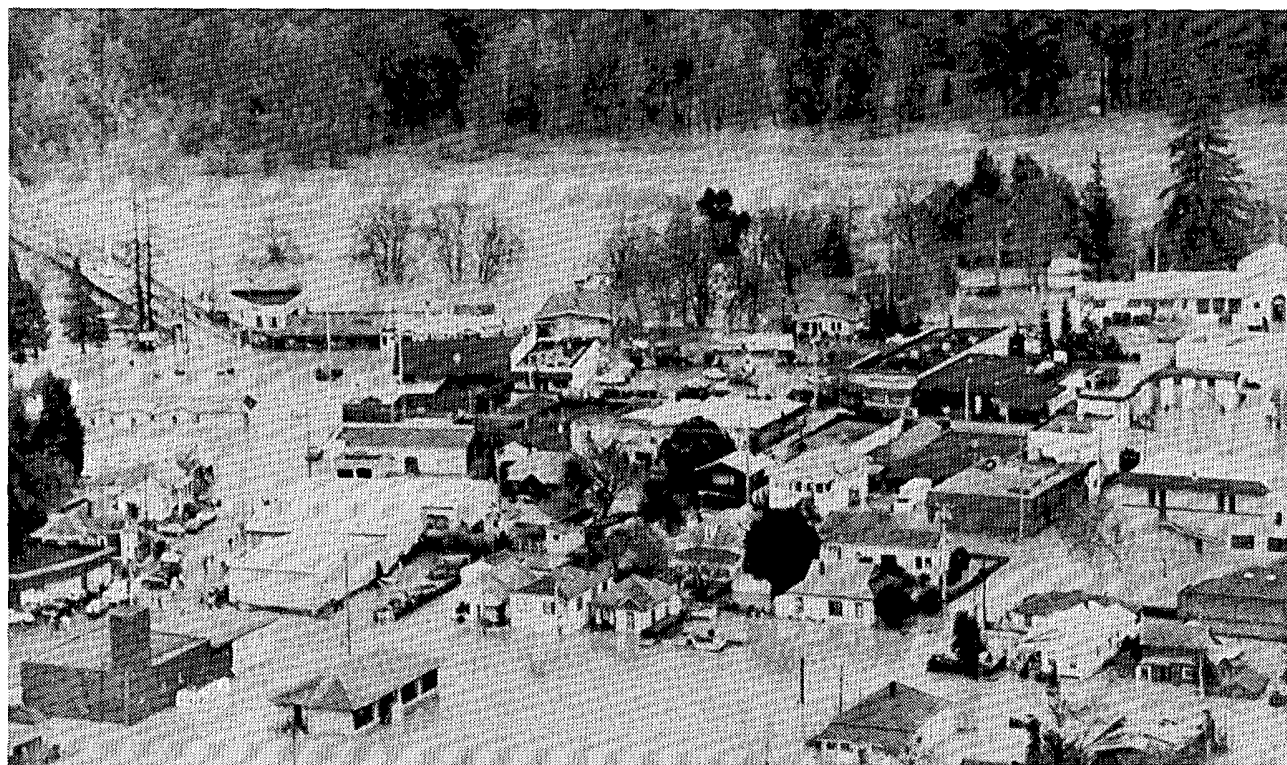


RIGHT: The Mokelumne River spills through a levee near Walnut Grove, CA in the Delta region south of Sacramento. ---Randy Pench (AP).



ABOVE: Residents sift for belongings after rain-weakened soil caused this home, once located near the mailbox, to slide down a hill at Fairfax, CA on February 17th. ---Doug Atkins (AP).

LEFT: A flooded portion of Rio Linda, a northern suburb of Sacramento not to be confused with Linda, on February 19th. ----Mitch Toll (AP).



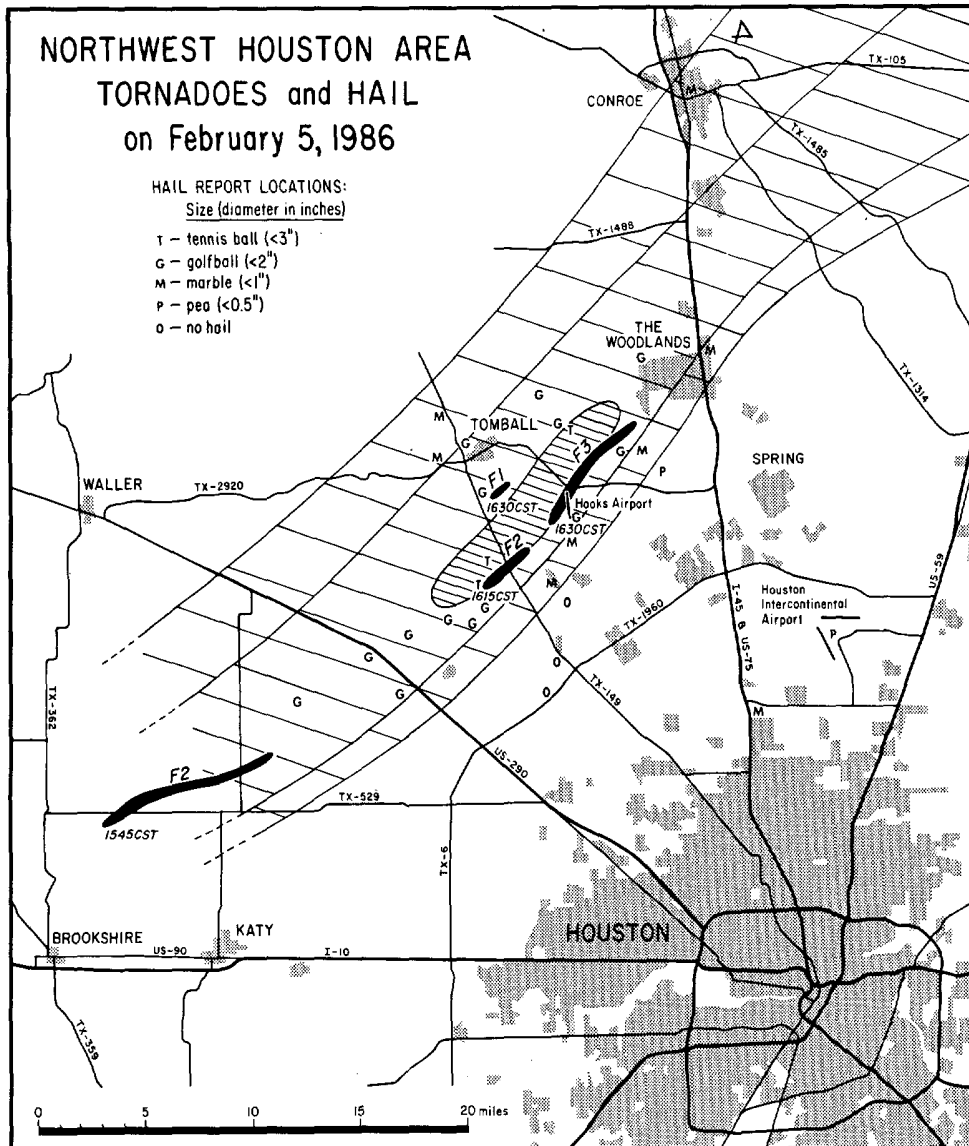
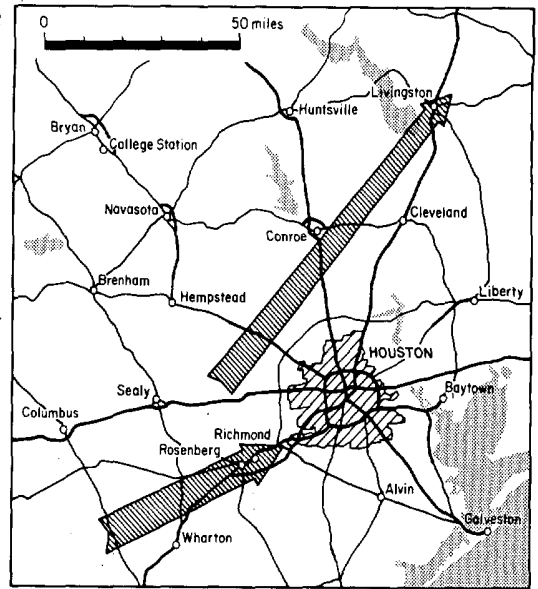
Two views of Guerneville, CA taken on February 18th as the small resort town was being inundated by the Russian River, 19 feet above flood stage. More than 600 people became stranded and needed rescue or evacuation assistance. ---TOP: Brant Ward, The San Francisco Chronicle (via AP); BOTTOM: T. Baker (AP).

---Photo Credits for pages 7-11: (AP) Associated Press
(YSAD) Yuba-Sutter Appeal-Democrat
(AP) photos provided by the San Francisco NWSFO at Redwood City, CA; all materials from the SFO NWSFO courtesy of Jan Null and Gary Barbato.

2. HAIL and TORNADOES near HOUSTON, TEXAS on February 5, 1986

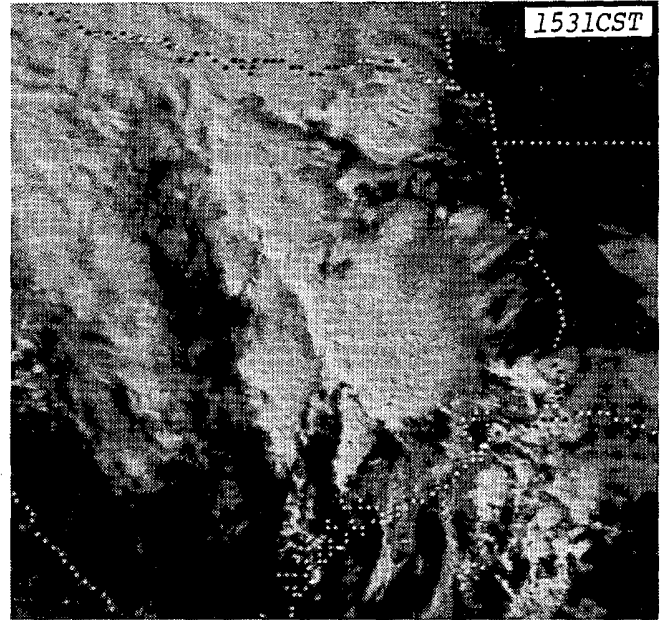
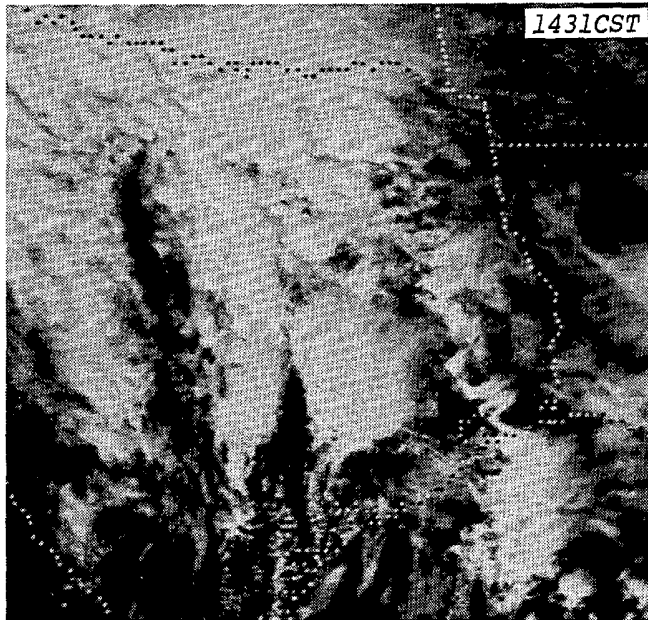
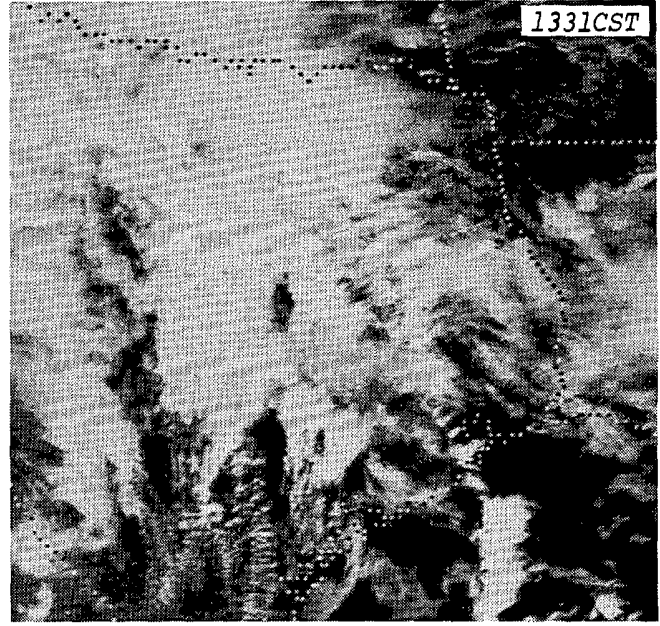
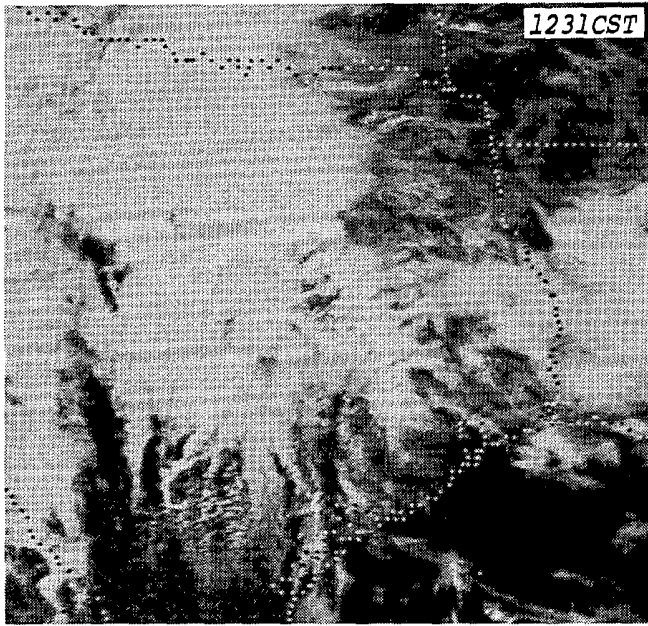
On the afternoon of February 5th, a broken line of severe thunderstorms developed ahead of a fast-moving cold front in eastern Texas. One storm, a supercell, was responsible for a large area of damage in the Tomball area northwest of Houston. It produced 4 tornadoes, the strongest F3, along with damaging microburst winds and up to tennis ball-sized hail. The F3 tornado caused 2 deaths and devastated a mobile home park and the David Wayne Hooks airport southeast of Tomball. Much of the largest hail was propelled by 60 to 80 mph winds, resulting in widespread, moderate damage.

RIGHT: The general tracks of two hail-producing thunderstorms near Houston as identified by a survey team of the Haag Engineering Co. of Carrollton, TX. The north storm produced the 4 tornadoes and tennis ball-sized hail while the south storm produced only marble-sized hail.

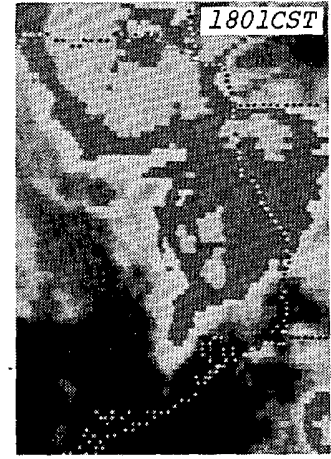
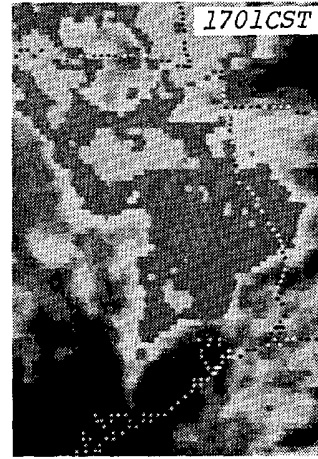
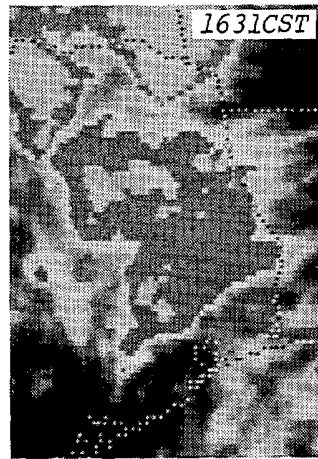
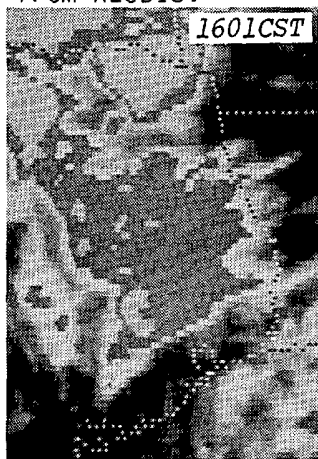


A detailed mapping of the 4 tornadoes and swath of large hail northwest of Houston. Increasingly hatched areas indicate hail fall of marble, golfball, and finally tennis ball size along the path. ---Map by Tim Marshall, Haag Engineering Co.

HAIL and TORNADOES near HOUSTON, TEXAS ---- continued

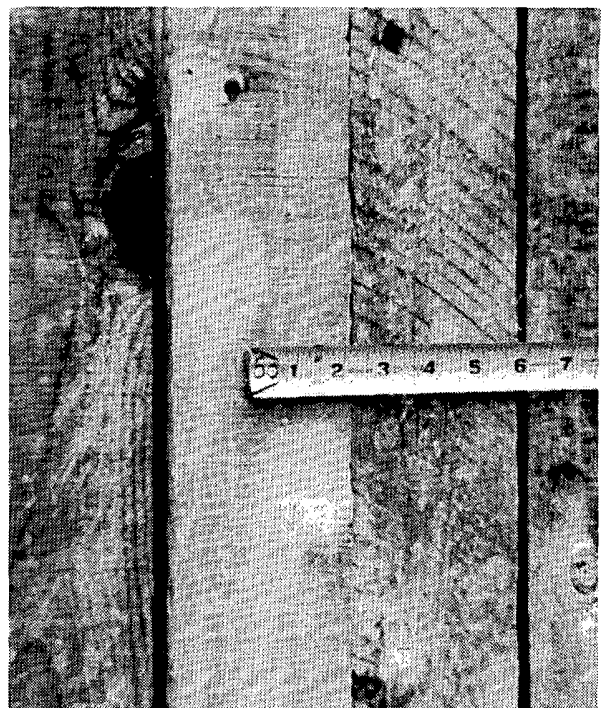
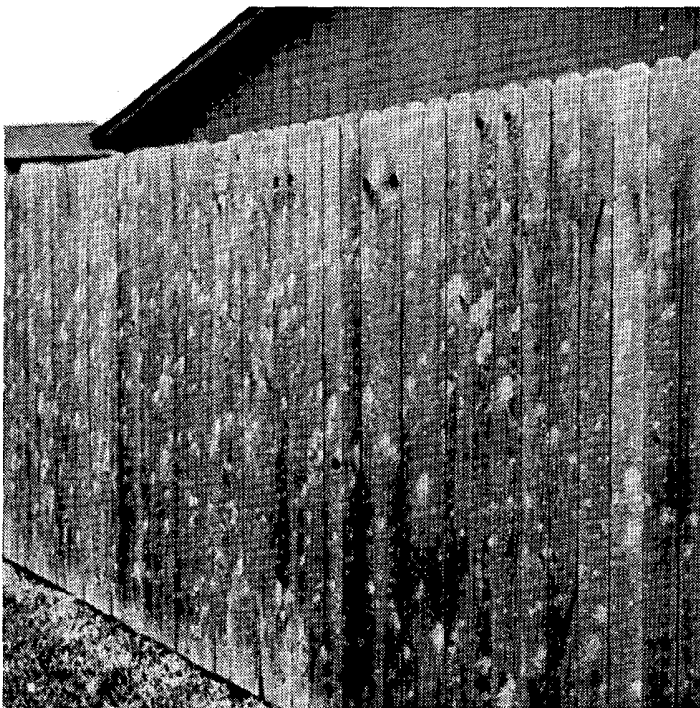


GOES 6 satellite, visible images of the developing storm pattern over eastern Texas on February 5th, prior to the production of hail and tornadoes near Houston. ---Photos from NESDIS.

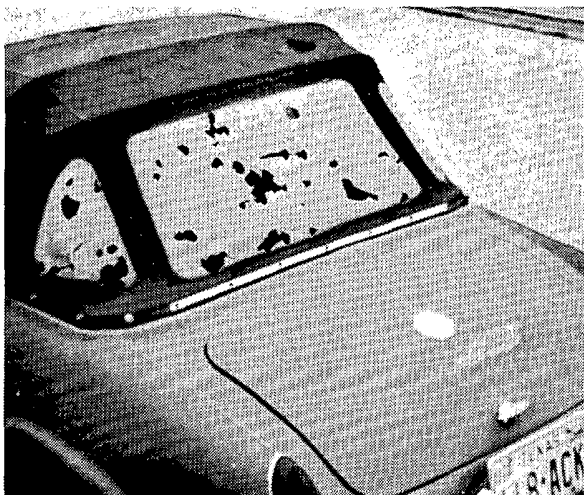


The above infrared images, also from the GOES 6 satellite on February 5th, depict the storm northwest of Houston as it was producing the swath of large hail and four tornadoes. Note that the hail and tornadoes were occurring under the coldest cloud tops, while only small hail fell from along the storm's flanking line. ---Photos from NESDIS.

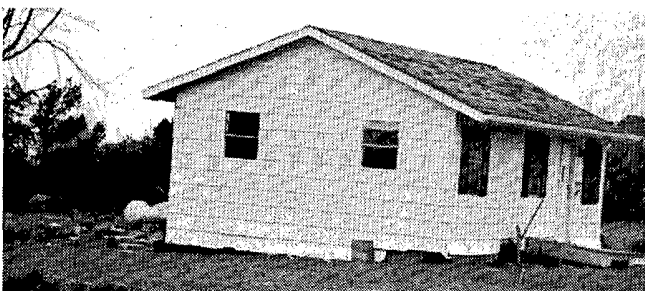
HAIL and TORNADOES near HOUSTON, TEXAS ---- continued



Splatter marks on a fence in Tomball indicate that the hailstones there varied in size and hardness, with some being up to 2 inches in diameter. ---Both photos by Tim Marshall, Haag Engineering Co.



Vehicle damage in Tomball, left, and shutter damage to a house in Cypress, right; both caused by golfball-sized hail. Cypress lies between Waller and Houston on US Highway 290. ---Both photos by Tim Marshall, Haag Engineering Co.

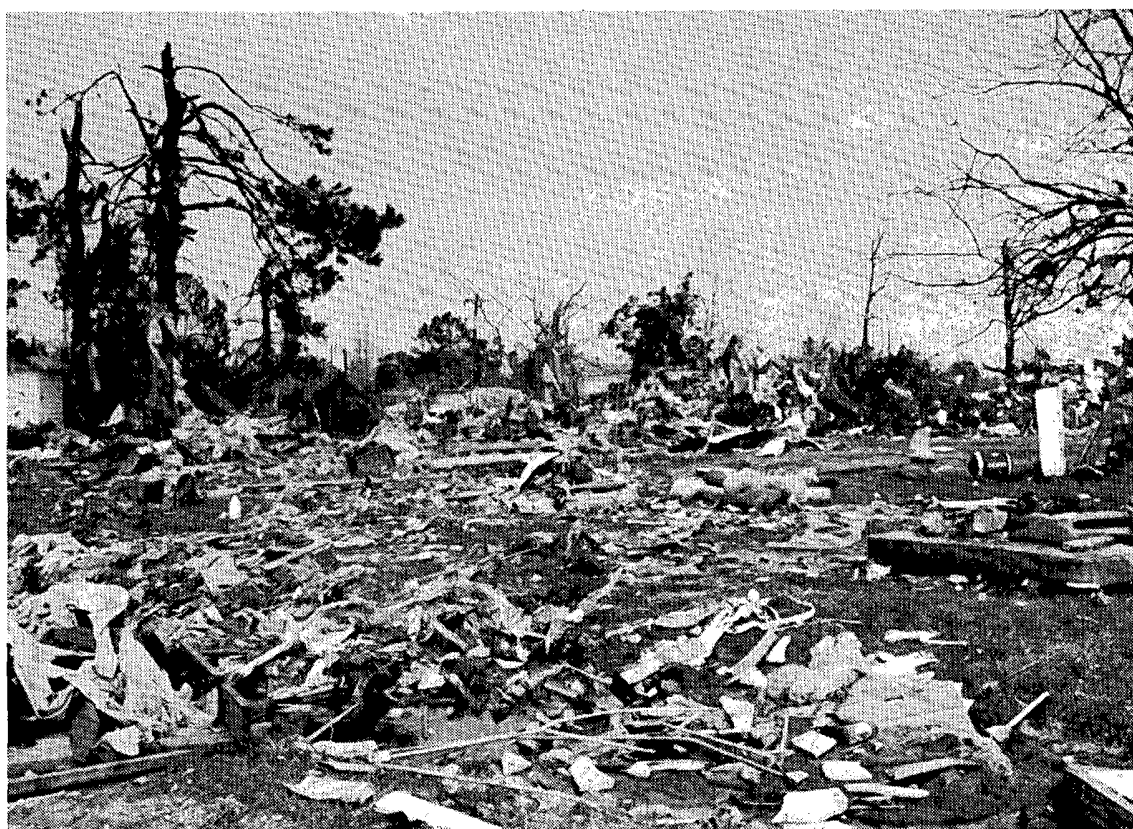


An unanchored home near Tomball that was blown 30 feet off blocks by high winds. ---Tim Marshall, Haag Engineering Co.

RIGHT: Brick facing peeled from a home by the F3 tornado southeast of Tomball. ---Manuel Chavez, The Houston Post.



HAIL and TORNADOES near HOUSTON, TEXAS ---- continued



Aerial and ground views of the damage at the Boudreaux Garden Trailer Park, just southwest of Hooks Airport. Debris patterns at both the trailer park and the airport indicated that the damage was caused by a combination of tornadic and microburst winds. ---TOP: Houston Chronicle; BOTTOM: Tim Marshall, Haag Engineering Co.



A more overhead view of the Boudreaux Park reveals the chaotic state in which it was left. 37 of 40 mobile homes were damaged or destroyed. ---Craig Hartley, The Houston Post.



Blocks and broken tie-down straps are all that remain of this trailer at the Boudreaux Park. ---Tim Marshall, Haag Engineering Co.



A woman searches for salvageables at the Boudreaux Park. ---Mary Urech Roberts, The Houston Post.

HAIL and TORNADOES near HOUSTON, TEXAS ---- continued

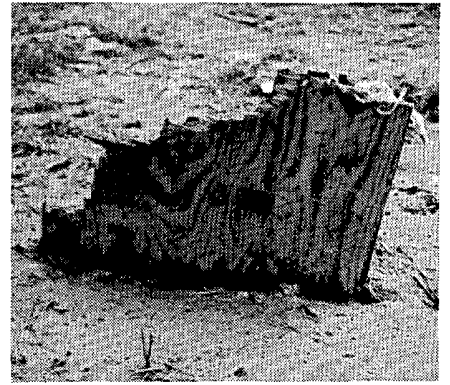


Damage to planes and hangars at the David Wayne Hooks Airport southeast of Tomball. 300 of 500 aircraft parked at the facility, including helicopters, were either damaged or destroyed. ---Both photos from the Houston Chronicle.

HAIL and TORNADOES near HOUSTON, TEXAS ---- continued



ABOVE: Examples of hangars that collapsed onto aircraft at Hooks. BELOW: Aircraft that were damaged or flipped by diverging winds at Hooks, left, and a plywood missile that was imbedded nearly a foot into the ground at the airport. ---All four photos by Tim Marshall, Haag Engineering Co.



The winds at Hooks rolled this dismantled plane body into vehicles and ripped apart a nearby hangar/office building. ---The Houston Chronicle.

HAIL and TORNADOES near HOUSTON, TEXAS ---- continued



Examples of flipped planes at Hooks, one of which ended up in a flooded catchment area. ---Both photos by Mary Urech Roberts, The Houston Post.



At least 4 planes can be seen pinned under the skeletal remains of this collapsed hangar. The attached office building survived with only a portion of the roof having been removed. ---Craig Hartley, The Houston Post.

Houston Post and Houston Chronicle photos on pages 14-19 were supplied by Ronald P. Stagno, Houston Area WSO at Alvin, Texas.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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	
1 ALABAMA											
Choctaw County	04	1715CST			0	0	6	0			Thunderstorm/ Wind
Wind damage from a line of severe thunderstorms was reported from Melvin eastward to Butler, Lavaca and Pennington. Falling trees struck several homes and ripped down several powerlines. Several sheet metal type structures were destroyed and at least one building was unroofed.											
Sumter County	04	1723CST			0	0	3	0			Thunderstorm/ Wind
Thunderstorm winds overturned a motor home on I-59 near mile marker 17 in NE Sumter County.											
Demopolis, Marengo County	04	1755CST			0	0	3	0			Thunderstorm/ Wind
Thunderstorm winds snapped some powerline poles.											
Greene and Hale Counties	04	1755CST			0	4	4	0			Thunderstorm/ Wind
Four people were injured in a mobile home that was overturned by thunderstorm winds in the Oak Village area near lock 8 on the Tombigbee River in NW Hale County. Some 8 to 10 river cabins and mobile homes sustained mainly roof damage on the Hale County side of the river west of Akron. Trees and powerlines were down in the general area around lock 8.											
Hale County	04	1800CST			0	0	2	0			Thunderstorm/ Wind
Thunderstorm winds downed some trees on Highway 17 East in the Greensboro area.											
McCalla, SW Jefferson County	04	1915CST			0	1	3	0			Thunderstorm/ Wind
Thunderstorm winds downed some trees and powerlines and destroyed a concession stand at a high school. The roof of the concession stand was blown onto some automobiles that were parked at the school. Nine cars were damaged and there was one minor injury to an occupant of one of the cars.											
Midland City area, Dale County	06	0350CST			0	0	4	0			Thunderstorm/ Wind
Thunderstorm winds snapped some powerline poles and downed some trees on the campus of the Wallace Community College. A power transformer from a broken pole crashed through the roof of a classroom. Some other buildings on the campus had minor wind damage and a nearby private home was also damaged.											
Morgan County	06	1308CST			0	0	?	?			Hail
Hail to 1 3/4 inch in diameter was reported in east Morgan County near the intersection of Highways 36 and 67.											
Pineapple area, Wilcox County	10	1335CST			0	0	?	?			Hail
Hail up to one inch in diameter was reported.											
South Lowndes County	10	1415CST			0	0	?	?			Hail
Hail up to 3/4 inch in diameter was reported.											
Mt. Olive area, SW Butler County	10	1440CST			0	0	?	?			Thunderstorm/ Wind
Thunderstorm winds downed some trees and powerlines.											
Monroe County	17	1730CST			0	0	4	0			Thunderstorm/ Wind
Thunderstorm winds downed trees in Monroeville, destroyed one mobile home in the Manistee area, and damaged a mobile home in Megargel. The mobile homes were not occupied when the storm struck.											
ALZ001-002 NW Alabama	17	1740-1830CST			0	0	?	?			Flash Flood
Thunderstorm rains washed out a bridge on County Road 17 in Lauderdale County and flooded some roads including U.S. 231 in the Hazel Green area of Madison County.											
Cullman County	17	1955CST			0	0	2	0			Thunderstorm/ Wind
Scattered wind damage occurred across Cullman County from the Jones Chapel area to around West Point, Longview, Vinemont and Fairview. One person was injured by flying glass when their house was damaged in the Longview area and three people suffered minor injuries in a mobile home. At least 3 mobile homes were damaged or destroyed, trees and powerlines were downed and one small airplane was flipped over at Folsom Field.											
Etowah County	17	2015CST			0	0	4	0			Thunderstorm/ Wind
Thunderstorm winds damaged the roof of a home and damaged a mobile home in Altoona. Some powerlines and trees were downed in Mountainboro at the same time.											
ALABAMA											
Morgan County	17	2042CST			0	0	1	0			Thunderstorm/ Wind
Thunderstorm wind downed at least one tree in extreme SE Morgan County, and numerous reports of small hail were received.											
Marshall County	17	2103CST			0	0	3	0			Thunderstorm/ Wind
Thunderstorm winds damaged powerlines in the Douglas area at 2103CST and some outbuildings in the same general area at 2155CST.											
Sumter County	17	2208CST			0	0	?	?			Thunderstorm/ Wind
Thunderstorm winds caused power outages in York, Emelle and Panola.											
Sumter County	17	2225CST			0	0	?	?			Hail
Hail 3/4 inch in diameter was reported at Gainesville Lock and Dam.											
Montevallo, Shelby County	17	2345CST			0	0	?	?			Thunderstorm/ Wind
Thunderstorm winds downed a few trees.											
Fayetteville area, Talladega County	18	0015CST			0	0	?	?			Thunderstorm/ Wind
Thunderstorm winds downed a few trees. One road was blocked by a fallen tree.											
Chambers County	18	0230CST			0	0	4	0			Thunderstorm/ Wind
Wind damage to roofs, signs, trees and powerlines was reported from the Freedonia Community to Highway 29 in SE Chambers County.											
2 ARIZONA ————— NONE REPORTED											
3 ARKANSAS											
Little River County	05	1824CST			0	0	-	-			Tornado (F0)
The Sheriff's Office reported that a very small tornado touched the ground just briefly at one point in a flat area. Spotters were standing on the north end of the bridge across the Red River on Arkansas Highway 41. The touchdown point was two miles north and a mile east of where the spotters were standing.											
Howard County	05	1835CST			0	0	-	-			Hail (1.00")
One-inch diameter hail was reported in a rural area of the county along the north side of Lake Millwood Reservoir.											
Sevier County	05	1840CST			0	0	-	-			Hail (1.75")
Golfball size hail and high winds were reported two miles south of Lockesburg.											
Little River County	05	1845CST			0	0	-	-			Hail (1.00")
Hail fell between Foreman and Winthrop. It ranged in size between marble and golfball, with most of it around one inch in diameter.											
Howard County	05	1855CST			0	0	-	-			Hail (1.00")
Quarter-size hail was reported near Rosedale.											
Izard County	17	1520CST			0	0	-	-			Hail (0.75")
The Sheriff's Office reported 3/4 inch diameter hail was covering the ground at Melbourne.											
Independence County	17	1700CST			0	0	-	-			Hail (1.00")
One-inch diameter hail was reported at Cushman by a radio station.											
4 CALIFORNIA, Northern											
Oakland, Alameda County	03	0930PST							3	0	Downburst Winds
Rio Del Mar, Santa Cruz County	03	1100PST	0.25	50	0	0	3	0			Waterspout/ Tornado (F0)
A line of thunderstorms which moved onshore intensified during the early morning and moved southeast across Central California. There were numerous funnel cloud reports throughout the day.											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
FLORIDA										
										in Manatee County when lightning struck nearby. Numerous reports of 0.75 inch in diameter hail were received. A boat was apparently overturned on Lake Kissimmee by high wind. The boater was missing and presumed drowned.
Jackson Co.	10	0920CST	1.0	10	0	0	5	-	Tornado (F1)	A brick home in Grand Ridge was destroyed and three others were damaged by a tornado. A barn was also destroyed.
Polk Co.	11	1145EST	0.5	10	0	4	4	-	Tornado (F1)	A tornado blew a mobile home over two parked cars, causing injuries to the four occupants. The tornado also destroyed several other mobile homes.
Escambia Co.	22	1150CST			0	0	4	-	Lightning	
Escambia Co.	22	1200CST			0	0	3	-	Thunderstorm Wind	A house was destroyed when lightning started a fire in its attic. Strong winds flipped over an auto-mobile parked at a high school.
9 GEORGIA										
Lanier County	06	0920EST			0	0	5	0	Thunderstorm Wind	Thunderstorm winds blew windows out of several buildings in Lakeland and 8 homes and 2 mobile homes suffered damage northeast of Lakeland. An auction barn was heavily damaged. Many trees were downed in the area.
Clinch County	06	0940EST			0	0	3	0	Thunderstorm Wind	Trees were uprooted and snapped off by thunderstorm winds 10 miles northwest of Homerville.
Ware County	06	1015EST			0	0	3	0	Thunderstorm Wind	Thunderstorm winds damaged roofs on the east side of Waycross.
Banks and Franklin Counties	06	1815EST			0	0	4	0	Wind	High winds destroyed a mobile home and 4 barns a few miles north-east of Homer. Two homes suffered heavy damage. Approximately 100 acres of timber showed damage to trees broken off or uprooted.
Worth and Tift Counties	10	2030-11 0200EST			0	6	6	0	Flash Flood	Moisture-laden thunderstorms dumped 6 to 8 inches of rain over a 6 hour period in these counties. Ponding of water and flash flooding was extensive. Six people were injured when a car and a pickup truck attempted to drive through water, not knowing that the road had been washed-out. The vehicles were carried by the water until they lodged against trees. Only one of the victims required hospitalization. Several families had to be rescued from their homes through water 4 to 5 feet deep just east of Tifton. A total of 15 bridges on secondary roads were washed out in the two counties. Many secondary roads were impassable for several days until water levels dropped and wash-outs could be repaired.
Lowndes, Lanier, Echols, Brooks, Clinch, Berrien, and Cook Counties	10	2130-11 0400EST			0	0	6	0	Flash Flood	Heavy rain during the evening and early night capped a five day period of rain in the area. Total rainfall during the period ranged from 7 to 12 inches. The rain during the night of the 10th caused flash flooding over this area of south Georgia. There were more than 50 wash-outs reported on primary and secondary roads.
Ware County	10	2305EST	3.8	33	0	2	5	0	Tornado (F1)	A small tornado touched down in the northeast part of Waycross and skipped along a path about 4 miles long to the northeast. The initial touchdown was approximately 2 miles southwest of the airport. Tree and power line damage was extensive along the narrow path.
GEORGIA										
Ware and Pierce Counties	10	2310EST	7.7	33	0	12	6	0	Tornado (F1)	A second tornado touched down less than a quarter mile southeast of the above tornado and traveled along an intermittent path that ended in the Hackleberry community 3 miles west of Blackshear. Seven houses suffered heavy damage and 32 moderate damage. Sixteen mobile homes were destroyed and 5 others heavily damaged. At Waycross airport, several hangers were destroyed along with many planes both damaged and destroyed. The National Weather Service office was damaged. A 14 mb. drop in atmospheric pressure was recorded by a barograph due to the storm at around 2315EST. Wacona Elementary School had moderate roof damage due to wind and falling trees. Heaviest damage was to an industrial park. Of the 14 people who were injured by this and the above tornado, the only person that required hospitalization was a guard at a mobile home manufacturing plant who was in a guard shack that was destroyed.
Pierce County	10	2330EST	4.8	33	0	7	5	0	Tornado (F1)	A tornado touched down in Youman Chapel Community 3 miles southwest of Blackshear and skipped along a path that ended 2 miles east of Blackshear. A house and a mobile home were destroyed and 2 houses and 2 mobile homes heavily damaged. Seven people were injured, but only two required hospitalization.
10 IDAHO										
IDZ005-006-008 West-Central and Southwest Idaho	12	most of the day			0	0	0	0	Heavy Snow	5 inches of snow fell at Elk River, Clearwater County, and 4-6 inches fell in the surrounding mountains. The southwest mountains (Zone 5) also received 4-6 inches of snow. 7 inches fell at Moscow in Latah County (Zone 8).
IDZ001-002-003-004 -005-006-007-010 Central and Southern Mountains	13	all day			0	0	0	0	Heavy Snow	Heavy snow fell in most of the central and southern mountains. 6 inches of snow fell at Elk River in Clearwater County, and 11 inches at Idaho City.
IDZ005-006-007-008 -009-010 All Idaho except East and Snake River Plain	14-19	most of period			0	0	0	0	Heavy Snow	A strong, warm advective snow event occurred over the President's Day holiday. Sun Valley's Bald Mountain received 62 inches of new snow. Numerous avalanches occurred in the Sun Valley area. 6-12 inch amounts of snow were common in northern Idaho (Zone 9) from the 14th to the 16th, but 19 inches fell at Porthill and 20-25 inches fell at Silverhorn Mountain and Lookout Pass. Near to 10 inches of new snow fell at McCall, 7 inches at Moscow, and 6 inches at Elk River, Grangeville and Powell, all within a 24 hour period.
IDZ002-003-004 East Idaho and Central Snake River Plain	18	0300-1800MST			0	0	6	0	High Wind	Frequent wind gusts between 50 and 70 mph in the central Snake River Plain (Zone 2) uprooted trees from ground made soggy by recent heavy rains. The roof of the O'Leary Junior High School gym was ripped off. An unofficial peak wind gust of 97 mph was measured by Sky West Commuter Airlines at Twin Falls airport. An unofficial wind gust of 78 mph was also recorded at Driggs in Teton County (Zone 4). In the upper (eastern) Snake River Plain (Zone 3), winds gusted between 40 and 60 mph.
IDZ006 West-Central Idaho	22	most of day			0	0	0	0	Heavy Snow	6 inches of new snow fell at Elk River and McCall in Clearwater and Valley Counties, respectively.
IDZ006 Boise County	23	1800MST			0	0	5	0	Flash Flood	Recent heavy rainfall amounts plus snowmelt runoff brought a wall of water down Grimes Creek, wiping out a section of State Highway 21 at milepost 29.
IDZ008 Nez Perce County	24	1730MST			0	0	4	0	Flash Flood	During the day, nearly an inch of rain at Peck plus snowmelt runoff raised a neighboring creek such that it washed away a roadbed.
11 ILLINOIS										
Kendall, Will and Grundy Counties	16	1400-2100CST			0	0	4	0	Ice Storm	Freezing rain resulted in an ice accumulation from one quarter to one half inch on exposed surfaces. Many trees and a few power lines were downed.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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	
12 INDIANA									
INZ007-008-009 West-Central Indiana	23- 24-	1400- 0200 EST			0	0	0	0	Heavy Snow
	A gentle snowfall across west-central Indiana began on the afternoon of the 23rd and continued till a few hours after midnight on the 24th, accumulating 4 to 5 inches over much of the region. A small area of 6 to 7 inch amounts was centered over Parke County.								
13 IOWA									
Northern and Western Iowa IAZ 01-02-03-05-06-07-08-09	03-	Evening			0	0	5	0	Ice and Snow Storm
	Freezing rain and drizzle spread across most of Northern Iowa, creating very slippery conditions on roads and highways. Rain turned to snow in Western Iowa and strong winds added to the difficulties on the 4th.								
Eastern Iowa IAZ 10-11-12-13-14 ILZ 03	04-				0	0	0	0	Flooding
	Snow melt along with ice action produced minor flooding.								
Central and Northeast Iowa IAZ 06-07-08-10-11-14	06-	Evening- Afternoon			0	0	4	0	Snow
	A persistent patch of snow over parts of Central and Northeastern Iowa dumped 4-8 inches of snow in the area.								
Northern Iowa IAZ 01-02-03	13	Daytime			0	0	3	0	Blowing and Drifting Snow
	Strong winds across much of Iowa created a peril in northern Counties, where snow on the ground was blowing and drifting due to the winds.								
South-Central and Southeast Iowa IAZ 13-14-15	16	Daytime			0	0	4	0	Ice Storm
	Freezing rain from Lamoni to Ottumwa to Burlington brought dangerous driving conditions to much of Iowa.								
Statewide IAZ ALL	17- 18	Morning Afternoon			0	0	3	0	Ice and Fog
	Freezing drizzle across the entire state in combination with dense fog and temperatures near the freezing mark caused slippery spots on roads and highways. Warmer weather reduced the threat from freezing precipitation, but the pea-soup fog persisted through to the next day.								
Extreme Southeast Iowa IAZ 15	23	All Day			0	0	4	0	Snow
	Snow started in the early morning and continued into the afternoon in the Burlington area, accumulating to about 4 inches.								
14 KANSAS ————— NONE REPORTED									
15 KENTUCKY									
Statewide	01- 04	1200 EST			0	0	2	3	Minor Flooding
	Moderately heavy rains began on the first and continued through the fourth of February, causing minor flooding across Kentucky. Agricultural bottom lands and river traffic were greatest affected.								
Pulaski County	06	1700 EST			0	0	2	0	Thunderstorm Wind
	Strong thunderstorm winds, recorded at 54 MPH by a National Weather Service Cooperative Observer, knocked down numerous trees in Pulaski County and caused electrical power outages.								
Laurel County	06	1700 - 1730 EST			0	0	4	0	Severe Thunderstorm
	Severe thunderstorm winds blew a roof off of a mobile home, 5 miles west of London. There were also several reports of outbuildings destroyed, trees down, and small hail damaging cars throughout Laurel County. Numerous trees fell in London, including some 12 to 14 inches in diameter. The top of a car wash and the roof of the Pizza Hut in London were blown off.								
KENTUCKY									
Whitley County	06	1723 EST			0	0	3	0	Severe Thunderstorm
	Roof damage was sustained to the Corbin Elementary School, resulting in inside water damage. Trees and power lines were also reported down in Corbin. Roof damage was also sustained to the Whitley County High School.								
Jackson County	06	1725 EST			0	0	3	0	Thunderstorm Winds
	Roofs were damaged and a few outbuildings and garages were destroyed in Egypt and McKee.								
Laurel County	06	1735 EST			0	0	4	0	Funnel Cloud and Thunderstorm Wind
	A funnel cloud was sighted at tree top level 7 miles east of London along Route #3. There were reports of storage sheds damaged and several trees downed, some falling on power lines, by thunderstorm winds in the same area.								
Mercer, Boyle, and Casey Counties	06	1745 EST			0	0	4	0	Strong Thunderstorm Winds
	Strong thunderstorm winds ripped portions of roofs off Boyle County houses and from mobile homes in northern Casey County. Several barns sustained damage in sections of Boyle and Mercer Counties. Scattered power outages were reported throughout the 3 county area, mainly caused by high winds that tore off tree limbs and downed trees. The hardest hit area was in Boyle County from Pennyville to Junction City. In Mercer County, the damage path was located from Rose Hill and Cornishville, across the west side of Harrodsburg and on to McAfee, the Hensley Heights area, and along both sides of US 127 to Salvisa. Mercer County reported damage to windows, roof tops, small signs and small buildings, and limbs that were blown down onto power lines and roads.								
Knox County	06	1750 EST			0	0	3	0	Severe Thunderstorm
	The Harlan State Police Post reported that severe thunderstorm winds had damaged mobile homes near the Knox-Laurel County Line in Knox County.								
Wayne County	06	1825 EST			0	0	2	0	Severe Thunderstorm
	A 150 foot radio tower which provided communication for local fire departments, city police, and county officials twisted around and broke at about 60 feet from the ground in severe thunderstorm winds. The tower was located on Morris Hill near Monticello.								
Southeast Kentucky	06,	1830 - 1930 EST			0	0	3	0	Severe Thunderstorm
	Severe thunderstorm winds caused numerous trees and power lines to fall in the southeast Kentucky counties of Knox, Wolfe, Magoffin, Floyd, and Perry.								
Statewide	10- 11	2230 - 1200 EST			1	0	2	0	Winter Storm/ Hypothermia Death
	Widespread snow fell over Kentucky beginning late at night on February 10th and continued into the morning hours of February 11th. The average snow accumulations ranged from 4 inches over west Kentucky to 10 inches over the northeast. The greatest amount of snow fell over the Daniel Boone National Forest area and northeast into West Virginia, east of Ashland, Kentucky. The Ashland area reported the greatest snow depth of 10 inches.								
	One hypothermia death was attributed to the wintry cold. An identified, elderly woman in her 80s was found frozen to death behind an elementary school in Louisville (Jefferson County).								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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	

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	

KENTUCKY

Statewide 14 0000 - 2000 EST 0 0 4 0 Winter Storm

Shovels and snowplows overshadowed hearts and flowers as a Valentine Day's snowstorm blanketed Kentucky with snow amounts ranging from around 4 inches over west Kentucky to a little over one foot of snow over the southeast Kentucky mountains. The higher snow totals occurred over Letcher and Harlan Counties where a little over 12 inches of snow fell. School, factories, and businesses were closed. Traffic delays were numerous. Several buildings' awnings crashed to sidewalks and streets under the heavy weight of the snow over east Kentucky. The most costly damage occurred in Clinton County where three boat dock roofs collapsed under the snow load and crashed into the boats sheltered under them.

Statewide 16- 1200 EST 0 0 3 0 Flooding

The Valentine's Day Snowstorm that left from 4 to 12 inches of snow over Kentucky on February 14th, was followed by a very rapid warmup beginning by midday on February 16th. This rapid warming produced rapid snow melt across Kentucky, accompanied by additional precipitation in the form of rain, causing flooding across the state. Agricultural bottom lands were greatly affected. A few secondary roads were closed due to overbank flooding of small rivers and streams mainly in east Kentucky. Mudslides were reported by the American Red Cross at 2000 EST, February 17th near Salyersville in Magoffin County and near Smilax in Leslie County. Another mudslide occurred near Scottsville in Allen County on February 17th at approximately 2000 EST. The flooding served to wash-out several roads and culverts across southeast Kentucky.

16 LOUISIANA

St. Tammany Parish 04 1435CST 0 0 ? ? SVR TSTM - Wind

A severe thunderstorm moved rapidly across northwest St. Tammany Parish, uprooting dozens of large trees, blowing down power lines, and damaging the roofs of several homes and barns near Folson.

Desoto, Sabine and Vernon Parishes 05 2030CST 0 0 ? ? SVR TSTMS - Wind and Hail (0.75)

Severe thunderstorms moved rapidly across Desoto, Sabine and Vernon Parishes. The storms blew down power lines west of Leesville at around 2030CST. 0.75 inch hail fell southeast of Florien. In addition, straight-line winds uprooted or snapped numerous large pine trees and damaged the roofs of several homes and barns near Florien and southeast of Mansfield.

17 MAINE NONE REPORTED

18 MARYLAND and D.C.

MDZ006-007-008-009 Central and Western Maryland 11 Morning 0 0 4 0 Heavy Snow

Snow began Monday night then produced heavy accumulations early Tuesday. The morning rush hour was seriously disrupted and schools closed. There were a few minor accidents. Accumulations ranged from 3 to 5 inches between Harford and Frederick Counties to 4 to 8 inches in Washington County and 10 to 14 inches in Allegany and Garrett Counties. Frostburg reported 14.5 inches.

MDZ002-006 Central MD 15 0100EST 0 0 4 0 Heavy Snow

A Valentine's Day snowstorm developed in the late afternoon and deposited locally heavy snow that night. Around 4 inches of snow was reported over portions of central Maryland, extending from Baltimore and Harford Counties southeast to Caroline County.

District of Columbia MDZ005 Central MD 22 2000EST 0 0 3 0 Heavy Snow

A heavy wet snow developed late Saturday afternoon then tapered off early at night. 3 to 4 inches of snow accumulated on grassy areas, but roads were wet.

District of Columbia MDZ002-004-005 Central MD 24 2200EST 0 0 4 0 Heavy Snow

A heavy wet snow developed Monday afternoon then diminished before midnight. 4 to 5 inches of snow accumulated, but roads were wet or slushy.

19 MASSACHUSETTS

Worcester, Middlesex, Norfolk and Essex Counties 18- All day 0 0 ? 0 Ice Storm
19 Early morning

Light to moderate freezing rain coated surfaces with one half to three-quarters of an inch of ice. Power failures, the result of ice on power lines and falling tree limbs, knocked out service to up to 40,000 customers across the area. A jet plane skidded off of a taxiway at Boston's Logan Airport, but no injuries were reported.

20 MICHIGAN NONE REPORTED

21 MINNESOTA NONE REPORTED

22 MISSISSIPPI

Jones County 4 1555CST 0 0 5 0 Thunderstorm Winds

A strong thunderstorm associated with a squall line produced damaging winds in Laurel and Ellisville. Major damage occurred to the Junior College in Ellisville. Minor damage to roofs and chicken houses was observed in both areas, with numerous trees and power lines downed.

Forrest County 4 1620CST 0 0 4 0 Thunderstorm Winds

A strong thunderstorm associated with a squall line produced damaging winds near Hattiesburg. Two house trailers were damaged east of Hattiesburg and one was damaged south of Hattiesburg. At the University of Southern Mississippi, 64 car windows were blown out. Numerous trees and power lines were downed.

Forrest County 10 1107CST 0 0 ? 0 Hail (.75)

Three-fourths inch hail fell at Camp Shelby about 15 miles south-east of Hattiesburg.

Perry County 10 1115CST 0 0 ? 0 Hail (1.00)

One-inch hail fell in the town of New Augusta.

Jackson County 10 1715CST 0 0 0 0 Funnel Cloud

A funnel cloud passed over the town of Van Cleave.

Alcorn County 11 morning 1 0 0 0 Extreme Cold

A 16 year old boy apparently died from the cold. The boy was hunting on the afternoon of the 10th and decided to take a short cut through the woods to his home. He did not make it to the house that night and was exposed to temperatures in the lower 20's. The boy was found dead the next day. M160

Monroe County 11 1145CST 1 0 0 0 Extreme Cold

A 76 year old woman in the town of Aberdeen died from the cold in her own home. Outside temperatures were in the lower 20's, but the heater was not on in the house. The victim was found unconscious on the floor at 1015CST and died at 1145CST at the County Hospital. F760

Prentiss County 17 0255CST 0 0 4 0 Lightning

A residence in Booneville was struck by lightning. The lightning caught the house on fire and totally destroyed it.

Prentiss County 17 1505CST 0 0 4 0 Lightning

Lightning struck and caused a fire at a dog kennel in Booneville. The dog kennel was destroyed and 11 dogs valued at 2 thousand dollars were killed.

Bolivar County 17 1530CST 0 0 ? 0 Hail (1.75)

Golf ball sized hail fell 3 miles in and southwest of Cleveland.

Tippah County 17 1535CST 0 0 ? 0 Hail (.75)

Dime sized hail fell just east of Ripley.

Prentiss County 17 1549CST 0 0 ? 0 Hail (.75)

Dime sized hail fell in the town of Jumpertown.

Sunflower County 17 1600CST 0 0 ? 0 Hail (.75)

Dime sized hail fell just north of Ruleville.

Tunica County 17 1620CST 1.0 50 0 0 4 0 Tornado (F1)

A tornado developed in a soybean field in the Little Texas community or about 6 miles southeast of Tunica. The tornado traveled northeastward through fields, but did damage a grain bin and some irrigation sprinklers.

Prentiss County 17 1620CST 0 0 ? 0 Hail (.75)

Dime sized hail fell in the northeast corner of Prentiss County near the town of Blue Hill.

Tunica County 17 1625CST 1.5 50 0 0 4 0 Tornado (F1)

A tornado developed near Walnut Lake or about 10 miles southeast of Tunica and tracked northeastward. The tornado traveled through fields and damage was minor. A roof was torn off an abandoned barn, and some downed trees and power lines helped to mark the path of the tornado.

Tishomingo County 17 1630CST 0 0 ? 0 Hail (.75)

Dime sized hail fell just west of Holcut.

Grenada County 17 1635CST 0 0 ? 0 Hail (1.00)

Quarter sized hail fell 8 miles north of Grenada.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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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	

MISSISSIPPI

Yalobusha County	17	1650CST			0	0	?	0	Hail (.75)	Dime sized hail fell in the town of Coffeeville.
Grenada County	17	1700CST			0	0	?	0	Hail (.75)	Dime sized hail fell 5 to 10 miles north of Grenada.
Leflore County	17	1705CST			0	0	?	0	Hail (1.75)	Golf ball sized hail fell 5 miles southwest of Minter City.
Grenada County	17	1750CST			0	0	?	0	Hail (.75)	Dime sized hail fell in the town of Grenada.
Sunflower County	17	1840CST			0	0	?	0	Hail (1.75)	Golf ball sized hail fell in the town of Sunflower.
Adams County	17	1900CST			0	0	0	0	Funnel Cloud	A funnel cloud was observed in eastern Adams County near Cranfield.
Hinds County	17	1925CST			0	0	?	0	Hail (1.75)	Golf ball sized hail fell south of Jackson in the town of Byram.
Lafayette County	17	1930CST			0	0	?	0	Hail (1.75)	Golf ball sized hail fell in eastern Lafayette County, about 5 miles east of Denmark.
Rankin County	17	1940CST			0	0	?	0	Hail (1.75)	Golf ball sized hail fell in the towns of Richland and Pearl.
Rankin County	17	1945CST			0	0	?	0	Hail (1.00)	Quarter sized hail fell in the town of Brandon.
Monroe County	17	1950CST			0	0	?	0	Hail (.75)	Dime sized hail fell in northern Monroe County at Amory.
Rankin County	17	1953CST			0	0	?	0	Hail (1.00)	Quarter sized hail fell at the Ross Barnett Reservoir, about 5 miles northeast of Pearl.
Calhoun County	17	2000CST			0	0	?	0	Hail (1.00)	Nickel sized hail covered the ground at the town of Pittsboro.
Itawamba County	17	2000CST			0	0	3	0	Thunderstorm Winds	High winds from a thunderstorm blew some trees and power lines down south of Fulton.
Madison County	17	2020CST			0	0	?	0	Hail (1.00)	Quarter sized hail fell at Kearney Park or about 3 miles north of Flora in western Madison County.
Pontotoc County	17	2027CST			0	0	?	0	Hail (1.00)	Quarter sized hail fell in extreme western Pontotoc County, about 2 miles south of Toccopola.
Pontotoc County	17	2110CST			0	0	?	0	Hail (1.00)	Quarter sized hail was reported in southwest Pontotoc County in Randolph.
Winston County	17	2115CST			0	0	?	0	Hail (.75)	Three-fourths inch hail fell 15 miles southeast of Louisville.
Noxubee County	17	2130CST			0	0	?	0	Hail (.75)	Three-fourths inch hail fell near the town of Macon.
Pontotoc County	17	2135CST			0	0	?	0	Hail (.75)	Dime sized hail fell in southern Pontotoc County, about 6 miles southwest of Algona.
Lauderdale County	17	2200CST			0	0	?	0	Hail (.75)	Three-fourths inch hail fell 10 miles north of Meridian.

23 MISSOURI ————— NONE REPORTED

24 MONTANA

MTZ002 West-Central Mountains	03	Morning			1	3	4	0	Ice Storm	Black ice caused two accidents near Arlee that killed one person and injured three. Dense fog in the area limited visibility to less than 1/16 mile.
MTZ001-002-003-004-005-008 West and North Montana	24- 28				1	1	6	0	Flood	A very rapid snowmelt resulted in widespread flooding. The flood was made worse by frozen soils and ice-covered rivers. Ice jams also contributed to the flooding problems in many areas. Most of the damage consisted of washouts of bridge and culvert approaches. The death and injury occurred when vehicles were driven into washouts at approaches to bridges.

25 NEBRASKA

NEZ001-005-012 Panhandle and Southwest Nebraska	04- 06	Morning- Afternoon			0	0	1	1	Heavy Snow	Snow of 6 inches or more fell to the north and west of a line from Kimball to Lexington to Merriman. Snow depths up to 10 to 13 inches were reported around Hemingford and Alliance.
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NEBRASKA

NEZ001 South Panhandle Nebraska	06	Evening			1	0	1	1	Ground Blizzard	Fifteen to twenty-five m.p.h. winds caused areas of blowing and drifting snow. A death of a farmer south of Chappell was attributed to exposure when his auto became stalled and he became disoriented as he tried to walk the mile home in blowing snow. M590
NEZ007 Central Nebraska	26	1447CST			0	0	1	1	High Wind	Northwest winds gusted to 58 m.p.h. at Broken Bow. No damage was reported.

26 NEVADA

NVZ005 Washoe County and Douglas County	17- 21	Morning			1	0	7	0	Flood	Flooding in the Truckee and Carson River basins along the Eastern Sierra from Gardnerville north through Reno to Stead caused one fatality and over \$17 million in property damage. Heavy and persistent rain and snow over a 10 day period (12-21 Feb) along the Eastern Sierra accompanied by snow melt caused the worst flooding in this region in over 20 years. One man died in Sparks when he was swept away in swift waters while evacuating furniture from a home. In addition to flooding along both rivers, urban street flooding was widespread. Major road closures resulted from erosion by swift waters, mud and snow slides and heavy snow. M790.
NVZ02 City of Wells Elko County	17	Evening			0	0	6	0	High Wind	A jet stream maximum was enhanced by local terrain effects and caused winds estimated in excess of 100mph in the city of Wells. No serious injuries or fatalities were reported. Damage estimated at \$1 million occurred primarily to roofs, signs, utility poles, and panes of glass.
NVZ02 Ruby Valley, Elko County	17	Evening			0	0	4	0	Flash Flood	A flash flood along the Franklin River washed out State Road 229 in Ruby Valley. A small truck (camper) drove into the washout and became stuck. Damage estimated at \$5,000 occurred, but there were no known injuries.

27 NEW HAMPSHIRE

Statewide	17- 18	1200EST			1	7	5	0	Freezing Rain	The combination of a stationary front south of New England and high pressure drifting east across southeastern Quebec Province, set up a prolonged easterly flow off the water. Surface temperatures for the most part were below freezing with warmer air aloft. Despite rather light precipitation amounts, the rain, freezing rain, snow, sleet and various combinations thereof, caused numerous traffic accidents statewide. Also, traffic was unusually heavy as skiers were returning home from a long weekend on the slopes. Shortly after 1630 on Monday, a 36-year-old Concord man died from massive injuries when he lost control of his car on snow-slick Route 4 in Epsom, and spun into the path of an oncoming car. Between 300 to 400 residences experienced power outages Tuesday evening in the Kingston-Exeter-Stratham area, Rockingham County, where iced wires came down due to the weight of the ice accretion.
North and Central	21	0600EST			0	2	5	0	Heavy Snow	A low pressure system developed over West Virginia Thursday morning and intensified as it skirted the southern New England coast Friday, reaching the waters south of Nova Scotia Saturday morning. The system brought essentially rain to southern New Hampshire and snow to central and northern New Hampshire. The snow was of the wet and heavy variety with amounts in the 6 to 12 inch range being common throughout Coos, Grafton, Carroll, and northern Belknap Counties. There were numerous fender benders reported in these counties, with the worst accident occurring on Route 26 in Colebrook, Coos County. An eastbound car skidded into the path of a westbound tractor-trailer. The 21 year old male driver of the car and his 31 year old female passenger were injured. Then three more cars which came upon the accident all lost control and bounced off each other and into snowbanks. Police investigating the accidents said they could hardly stand up on the slippery snow. There was extensive damage to the vehicles involved, but no further injuries. In Meredith, Belknap County, a freak accident occurred at the Winona Forest grade crossing involving a Meredith Highway Department truck and a New England Southern Railroad train. The truck driver stopped at the crossing after hearing the horn of the approaching train. The plow overhung the path of the train and, due to the slippery pavement, the driver was unable to back up. The impending collision bent the plow blade on the truck, broke a handrail on the locomotive, and scratched a couple of the train's cars. There were no injuries. Some residents in Rumney were without electricity for nearly 5 hours due to the heavy wet snow.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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	
28 NEW JERSEY, Northern									
NJZ001-015 Northwest New Jersey and Metropolitan New Jersey	07	Morning-Afternoon			0	0	0	0	Heavy Snow
		Snow 6-9 inches deep along with some minor drifting covered Northwestern New Jersey and Metropolitan New Jersey. Restricted visibilities and slippery roads contributed to many minor accidents and some major delays on mass transit systems.							
NJZ001 Northwest New Jersey	11	Morning-Afternoon			0	0	0	0	Heavy Snow
		A second heavy snow storm in less than a week dropped an additional 6-8 inches over Northwestern New Jersey. Many minor accidents were attributed to slippery roads.							
28 NEW JERSEY, Southern									
NJZ 002-003-004-006 Southern New Jersey	07	0200 EST			0	0	3	0	Heavy Snow, Ice
		A mixture of precipitation began between 1 and 3 AM EST and continued until 7 or 8 PM EST. The precipitation was mostly snow and sleet over northern sections, but a mixture of snow, sleet, rain or drizzle or freezing rain in south portions. Snow accumulations reached 3 to 5 inches over much of southern New Jersey. However, southern sections only had 2 or less inches of snow, but did receive considerable accumulation of ice.							
NJZ 002-004-006 Southern New Jersey except along Coast	11	0100 EST			0	0	3	0	Heavy Snow
		Snow began between midnight and 1 AM EST and continued to around noon. Accumulations reached 4 to 7 inches over the metropolitan Delaware Valley, 4 to 5 inches over the Interior South and 2 to 4 inches over Coastal Delaware Bay.							
NJZ 003-004-006 Southern New Jersey	14	1700 EST			0	0	3	0	Heavy Snow
		Snow began at 5 PM EST and ended around 3 AM EST on the 15th. Accumulations reached 4 to 5 inches over most of Southern New Jersey, but were under 4 inches over the Metropolitan Delaware Valley.							
Millville, Cumberland County	21	1400 EST			0	0	?	0	Lightning
		Lightning struck a movie theater and a house. The lightning only knocked bricks off of the theater, but started a fire in the house. The fire gutted the basement containing a family room and utility room. The remainder of the house suffered heavy smoke damage.							
Atlantic County	21	1510 EST			0	0	?	?	Hail (1.00)
		Hail of marble size fell at Hammonton at around 2:40 PM. Hail 1/2 inch in diameter fell at Cardiff and nickel size hail fell in Absecon, both at between 3:05 and 3:15 PM.							
29 NEW MEXICO									
East Central New Mexico; Curry, Guadalupe, and Quay Counties	8-9	All Day					6		Snowstorm
		Heavy snowfall of up to 25 inches fell over east-central New Mexico, causing traffic and other problems. Damage to roads, etc., was estimated to be between one-half and three-fourths of a million dollars.							
30 NEW YORK, Coastal									
NYZ014-015-016-017 Extreme Southeastern New York including Long Island	07	Morning-Afternoon			0	0	0	0	Heavy Snow
		Snow 5-9 inches deep along with some minor drifting covered extreme southeastern New York including Long Island. Restricted visibilities and slippery roads contributed to many minor accidents and several major delays on mass transit systems.							
NYZ015-016 Metropolitan New York and Suffolk County East to Riverhead	11	Morning-Afternoon			0	0	0	0	Heavy Snow
		A second heavy snow storm in less than a week dropped an additional 5-7 inches in Metropolitan New York as well as over parts of Suffolk County. Many minor accidents were attributed to slippery roads.							
30 NEW YORK, Central									
Broome County	01	0005EST			0	0	5	0	Snow
		Heavy wet snow caused a theatre roof to collapse in Deposit, Broome County. The collapse occurred just hours after the theatre had emptied.							
Areawide	07	0300EST			2	12	6	0	Snow
		Heavy snow moved into Eastern New York just before daybreak. Snow amounts of over 6 inches were reported by most Eastern New York stations. One man was killed while shoveling snow off his roof; another man was killed while shoveling snow from his walk. Several motor vehicle accidents were reported around the state.							
							M420 M560		
Areawide	17	0400EST			0	23	6	0	Snow
		Light snow was followed by freezing rain over most of Eastern New York. The worst accident occurred in Windham on Rte. 23 where fog and ice contributed to a 15-car accident.							
Areawide	21	0230EST			1	4	6	0	Snow
		A blanket of heavy wet snow mixed with standing water to form slush and ice on most area roads. One woman died in Fulton County, the result of an automobile accident. Hundreds of fender benders were reported around Eastern New York. Six inches of new snow was reported at Glens Falls.							
							F49V		
30 NEW YORK, Western									
NYZ001-022 Genesee and Cattaraugus Counties	01	Afternoon to 02 Morning			0	0	4	0	Freezing Rain
		Freezing rain is blamed for a rash of automobile accidents. One person was killed and many were injured. People complained of delays. Meetings were postponed.							
		In Randolph, Cattaraugus County, a woman was killed when her car skidded into a tree. Her passenger was taken to the hospital for neck and back injuries.							
		In Irondequoit, Monroe County, numerous minor vehicular accidents also occurred.							
NYZ005 Chondaga County	04	Evening to 05 Morning			0	0	3	0	Freezing Rain
		Freezing rain turned highways into skating rinks, triggering a flurry of minor accidents and delaying school in a number of county districts.							
NYZ001-022 Southern Erie and Northern Chautauque Counties	05	0800 EST			0	0	3	0	Rain and Ice
		About an inch of rain fell and an ice jam formed along Cattaraugus Creek near Sunset Bay. A few roads were inundated.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK, Western									
NYZ003 Tompkins County	07	Evening			0	0	3	0	Snow
									Heavy snow accumulating to as much as 7 inches caused extremely hazardous driving conditions. Numerous accidents were reported. Dozens of cars slid into ditches.
NYZ003 Chemung and Steuben Counties	20	Morning			0	0	4	0	Fog
									Dense fog covered the area. Flights to and from the Corning-Elmira Airport at Big Flats were cancelled until afternoon. Schools at Bath were closed.
31 NORTH CAROLINA									
Rutherfordon, Rutherford County	06	2045EST			0	0	3	0	Thunderstorm Winds
									Several trees were uprooted and power lines were blown down as a small but powerful thunderstorm moved through the area.
Catawba County	06	2205EST			0	0	5	0	Thunderstorm Winds
									The damage occurred midway between Hickory and the northwest sections of Hanover along Highway 70A. Five buildings were damaged, as were five truck trailers and a pickup. Numerous pine trees were blown down. Damage was estimated at \$250,000.
Northwest of Raleigh, Northern Wake County	07	0030EST			0	0	3	0	Thunderstorm Winds
									A roof was blown off a barn and a cinder block wall was blown down. Some trees were also blown down.
NC2007-009-010-012 Southern, Central and Northern Mountains; Northern Foothills	14	1500EST			0	0	3	0	Heavy Snow
									The first major winter storm of the season moved into western North Carolina. The northern mountains received 6 to 8 inches of snow, while the southern and central mountains and the northern foothills reported 3 to 5 inches over most of the area. One to 3 inches also fell over parts of the Piedmont and Coastal Plain.
Lee County Harnett County	19	1700EST			0	0	?	0	Hail (1.00)
	19	1725EST			0	0	?	0	Hail (1.25)
									A severe thunderstorm developed south of Sanford in Lee County and moved through the town of Marners in Harnett County before weakening.
Robeson County	19	1921EST			0	0	4	?	Thunderstorm Winds
									A roof was torn off a mobile home and carried about 75 feet. Trees were also blown down in the area. The damage occurred about 5 miles west of Pembroke.
32 NORTH DAKOTA									
Central	01-05				0	0	6	0	Fog and Freezing Drizzle
									Areas of dense fog and freezing drizzle deposited heavy ice buildups on power lines and poles. The ice was 5 to 8 inches thick. The heavy ice buildups downed power lines and poles, causing power outages for about 6,000 consumers.
West	26-28				0	0	0	0	Floods
									Warm temperatures during the last week of the month caused rapid melt of the snowpack. Localized flooding occurred on the small streams due to snowmelt and ice jams. The Fairview area, on the Yellowstone River near the Montana-North Dakota staterline, experienced flooding due to ice jams on the 28th. The flooding forced some people to leave their homes. An ice jam formed on the Missouri River near Williston in northwest North Dakota and caused flooding in the nearby Buford and Trenton river bottom areas. The main rivers in western North Dakota were rising steadily, but still remained below flood stage.
33 OHIO									
OHZ002 North-Central Ohio	04	2000EST			0	0	?	0	Flood
									The Huron River at Milan went into flood. The river crested at 15.5 feet (flood stage 14 feet) at 0800EST on the 5th. Flooding was confined to lowland near the river.
OHZ006 Marion County	04	2300EST			0	0	?	0	Flood
									The Scioto River went into flood at LaRue. The river crested at 11.9 feet (flood stage 11 feet) at 1200EST on the 5th. Little damage resulted.
OHZ009 Pike County	05	0000EST			0	0	?	0	Flood
									The Scioto River went into flood at Piketon. The river crested at 18.8 feet (flood stage 16 feet) at 0100EST on the 8th. Damage was minor.
OHZ007 Guernsey County	05	1400EST			0	0	?	0	Flood
									Wills Creek at Cambridge went into flood. The creek crested at 14.6 feet (flood stage 13 feet) at 1300EST on the 6th. There was little damage.
OHZ006 Pickaway County	05	1700EST			0	0	?	0	Flood
									The Scioto River flooded at Circleville. The river crested at 14.5 feet (flood stage 14 feet) at 0700EST on the 7th. Little damage occurred.
OHZ002 Northwest Ohio	06	0100EST			0	0	?	0	Flood
									The Portage River at Woodville went into flood. The river crested at 9.2 feet (flood stage 9 feet) at 0700EST on the 6th. There was little damage.
OHZ006 Marion County	06	0200EST			0	0	?	0	Flood
									The Scioto River went into flood at Prospect. The river crested at 11.6 feet (flood stage 10 feet) at 1300EST on the 7th. Only lowlands near the river flooded.
OHZ010 Northwest Ohio	06	0300EST			0	0	?	0	Flood
									The Maumee River went into flood at Waterville. The river crested at 9.6 feet (flood stage 9 feet) at 0100EST on the 7th. There was little damage.
OHZ010 Northwest and West-Central Ohio	06	1900EST			0	0	?	0	Ice Storm
									Freezing rain from 1900EST to 2400EST cut power to about 600 homes and downed several trees in Auglaize and Allen Counties. The worst damage was in Cridersville and Wapakoneta.
OHZ010 Northwest Ohio	07	0000EST			0	0	?	0	Heavy Snow
									Four inches of snow fell on Williams, Defiance, and Van Wert Counties from 0000EST to 1000EST.
OHZ006 Pickaway County	07	1300EST			0	0	?	0	Flood
									The Scioto River went into flood at Circleville. The river crested at 15.5 feet (flood stage 14 feet) at 1700EST on the 8th. Damage was minor.
OHZ009 South-Central Ohio	10	1700EST			0	0	?	0	Heavy Snow
									Heavy snow fell on an area bounded by Athens County to the north, Scioto County to the west, and the Ohio River to the south and east. Most of the snow fell between 1700EST on the 10th and 0700EST on the 11th. Amounts of four to six inches were common and the city of Athens received eight inches.
OHZ008-009 Southern Ohio	14	0700EST			0	0	?	0	Heavy Snow
									Between four and five inches of snow fell on areas along the Ohio River from Hamilton County to Lawrence County. The snow fell from 0700EST to 1900EST.
OHZ002 Northwest Ohio	19	2300EST			0	0	?	0	Flood
									The Portage River at Woodville rose above flood stage. The river crested at 9.2 feet (flood stage 9 feet) at 0700EST on the 20th. Only minor flooding occurred.
OHZ001 Williams County	19	2300EST			0	0	?	0	Flood
									The Tiffin River went into flood at Stryker. The river crested at 14.2 feet (flood stage 11 feet) at 0700EST on the 22nd. Only cropland was flooded.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
OHIO									
OHZ001 Williams County	20	1700EST			0	0	?	0	Flood
The Saint Joseph River at Montpelier began flooding. The river crested at 14 feet (flood stage 12 feet) at 0100EST on the 22nd. Flooding was minor and affected only lowlands.									
OHZ001 Northwest Ohio	21	0400EST			0	0	?	0	Heavy Snow
Four to five inches of snow fell in an area bounded by Hancock County to the south and east, Michigan to the north, and Indiana to the west. The snowfall occurred from 0400EST to 1300EST.									
OHZ001 Northwest Ohio	22	0600EST			0	0	?	0	Flood
The Maumee River at Waterville went into flood. The river crested very near the flood stage of 9 feet at 0700EST on the 22nd. There was little or no damage.									
34 OKLAHOMA									
McCurtain County	05	1740CST			0	0	?	?	Hail (1.00)
One inch size hail fell at Goodlake, about 15 miles southeast of Idabel.									
OKZ002-003-004-005- OWC-OOC-OSW	07	All Day					?	?	Heavy Snow
Three to six inches of snow fell in a 12-hour period, causing many auto accidents, some with injuries. Many schools were closed due to slippery roads.									
OKZ00C-OSW-OWC-OWC- OPH	10	All Day					?	?	Heavy Snow
Four to eight inches of snow fell in a 12-hour period, causing many auto accidents with several injuries. Many schools were closed due to slippery roads. One to three inches of snow fell over the remainder of the state.									
35 OREGON									
ORZ006-007-008-010 Cascades and Northeast Oregon	11	Evening			0	0	?	?	Snow
A winter storm dumped up to two feet of snow in the Cascades and Deschutes Basin. More typical amounts ranged between 6 and 12 inches in the basin and valleys of northeastern Oregon. Numerous school closings, traffic accidents and power outages were reported during the storm.									
ORZ002-003-005 Southwest Oregon	15- 16	All day			0	0	5	4	Heavy Rain, Flooding
Strong winds knocked down several trees and pitched branches onto power lines in the Coos Bay and Grant Pass areas. Scattered power outages left many residents without electricity for up to 4 hours. Rainfall amounts of up to 2.5 inches left rivers swollen and prompted the issuance of flood warnings for the Tualatin River at Dilley and the Mary's River near Philomath.									
ORZ001-002-003-004- 005-009-010-011	22- 23				0	0	7	4	Heavy Rain, Flooding
Over the 2 days, heavy rains and mountain snowmelt combined to swell numerous rivers and streams to near and above flood stage. Rainfall totals of 4 to 6 inches during a 48-hour period were not uncommon in areas west of the Cascades. Lesser amounts were reported in areas east of the Cascades. Flood warnings were issued for the lower Columbia River, the Willamette River from Albany to Portland, the lower Coquille River, the Umatilla River in western Umatilla County and the Luckiamute, Fudding, Nehalem and Wilson Rivers. Numerous roads were closed due to high water, mudslides and washouts. Flooding forced several families to evacuate their homes until waters subsided.									
36 PENNSYLVANIA, Eastern									
PAZ 007-008-009- 011-012-016 Eastern Pennsylvania	07	0100 EST			0	0	3	0	Heavy Snow
Snow began midnight to 2:00 AM EST and continued right through midnight or on into the 8th. However, most of the accumulating snow had ended by 1:00 PM EST on the 7th. Accumulations reached 6 to 8 inches in the Upper and Middle Susquehanna Zones, 3 to 5 inches over the Lower Susquehanna, East Central and Southeast Zones, 4 to 6 inches over the Poconos and 4 to 5 inches over the Northeast Metropolitan Zone.									
PAZ 009-011-012- 016 Southern half East ern Pennsylvania and Poconos	11	0100 EST			0	0	3	0	Heavy Snow
Snow began to fall over Eastern Pennsylvania midnight to 2:00 AM EST and the significant snowfall ended 10:00 AM to noon EST. Accumulations were: 4 to 8 inches in the Southeast, 6 to 8 inches in the East Central, 6 to 9 inches in the Lower Susquehanna and 3 to 10 inches in the Poconos. The snowfall caused slippery roadways, resulting in numerous traffic accidents.									
Kennett Township, Chester County	21	1315 EST			0	0	4	0	Lightning
Lightning struck a tree and traveled through the roots and into a nearby house. An electrical fire was ignited in the house and resulted in \$40,000 in damages to the building and contents. The path of the lightning was easy to follow, for pieces of sod above the roots were catapulted 15 feet up into trees.									
PAZ 009 Lower Susquehanna Valley	22	1900 EST			0	0	3	0	Heavy Snow
Snow began at around 6:00 PM EST on Saturday the 22nd and continued until around 3:00 AM, Sunday. Accumulations of 3 to 5 inches were recorded. Only 1 to 3 inches of snow occurred over the other portions of Eastern Pennsylvania.									
36 PENNSYLVANIA, Western									
Fayette County	04	Morning- Night			0	0	3	0	Flood
Rain and melting snow caused small stream flooding at Elliottsville as the Big Sandy Creek overflowed. The Muddy Run Creek overflowed at Fairchance, and Redstone Creek flooded at Brownsfield as well. Roads were washed out in Dunbar Township and at Hopwood. Basement flooding occurred at Connellsville.									
Westmoreland County	04	Late Afternoon- Night			0	0	3	0	Flood
Roads were closed when Loyalhanna Creek overflowed. Nine Mile Run also flooded, closing roads near Baggaley. Linn Run was over its banks at Rector. Basement flooding occurred at Latrobe, Ligonier, Hecla, Marguerite, and Lloydsville.									
Allegheny County	06	2215EST			0	1	5	0	Lightning
Lightning destroyed an O'Hara home, injuring one occupant. Three surrounding homes were also damaged.									
Cambria County	07	Early Morning			0	0	5	0	Lightning
A fire started by lightning during a snowstorm damaged a bell tower of a church at Johnstown.									
Fayette, Washington, Jefferson, Bedford, and Westmoreland Counties	10- 11	Late Night- Early Morning			0	0	0	0	Snowstorm
Snow in amounts listed below fell throughout the following counties: Fayette 7-10 inches Washington 8 inches Jefferson 6-8 inches Bedford 8-10 inches Westmoreland 6 inches									
Fayette County	18	Morning			0	0	0	0	Flood
Small stream flooding occurred at Republic in the western part of the county.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
37 RHODE ISLAND ————— NONE REPORTED									
38 SOUTH CAROLINA									
Oconee County	06	1845 EST	5	2640	0	0	4	4	Thunderstorm Winds
Thunderstorm winds did extensive damage across an area 5 miles long and 1.5 miles wide. Several roofs were torn off, several sheds were destroyed and hundreds of trees were blown down. The area affected was along Whetstone Rd. between Long Creek and Mountain Rest.									
Oconee County	06	1915 EST			0	0	4	3	Thunderstorm Winds
Thunderstorm winds 3 miles northwest of Fairplay near SC Highway #182 blew 2 mobile homes off their foundations, and damaged several roofs in the area. Also, minor damage was reported in Fairplay.									
Oconee County	06	1920 EST			0	1	4	0	Thunderstorm Winds
Three automobiles (2 parked and 1 moving) were blown off SC Highway #11 just south of Salem, with only minor injury to one person. Trees and power lines were blown down.									
Pickens County	06	1930 EST			0	0	2	0	Thunderstorm Winds
Strong winds blew down several trees in the small community of Pumpkintown, 10 miles north-northeast of Pickens.									
Greenville County	06	2000 EST			0	0	3	0	Thunderstorm Winds
Strong winds cut a 3 mile swath through northern Greenville County, felling trees and power lines and blocking several sections of the Dacusville Highway near Marietta. One mobile home in Travelers Rest was damaged. Minor damage was reported in Tigerville also.									
Charleston County	10	0900 EST			0	0	2	0	Flooding
Heavy rains flooded Gadsden and Bennett Streets in downtown Charleston during a heavy downpour.									
SCZ001-002 Northwest SC	14	1600 EST			0	0	2	0	Snow
Snow up to 4 1/2 inches deep in the mountains tied up traffic and contributed to numerous accidents. A trace to 3 inches of snow also fell over the foothills.									
39 SOUTH DAKOTA									
SDZ00N Northern SD	03- 05	Morning- Morning			0	0	6	0	Ice Storm
Heavy frost and occasional freezing drizzle and freezing rain downed power lines over much of the area, causing many power outages. Several places in the north central were without power until February 7. The worst affected area was from Eagle Butte (Dewey County) to Ridgeview (Dewey County) where 300 to 350 poles collapsed due to the weight of ice on the lines. The freezing precipitation also knocked out a substation at Ridgeview. Up to four inches of ice was reported on many of the lines. A half of a million dollars in damage was estimated in the Eagle Butte and Ridgeview areas. Schools and businesses closed around Eagle Butte on February 4 due to the lack of power.									
SDZ00W Western SD	04- 05	Lt Aftn- Ery Mrng			0	0	0	0	Snow
Snow fell over the area with generally one to four inches reported. Heavier amounts included eight inches at Belle Fourche (Butte County) and Deadwood (Lawrence County) and six inches at Martin (Bennett County) and Pine Ridge (Shannon County). The snow aggravated the power line problem of the previous few days in the northwest.									
40 TENNESSEE									
Bradley County	06	1718EST			0	0	?	?	Hail (3.50)
Bradley, Polk, and McMinn Counties	06	1718EST	10.5	270	0	5	6	?	Tornado (73)
McMinn County	06	1727EST			0	0	?	1	Hail (2.50)
A strong tornado first caused damage in the Chatata Valley community 5.0 miles northeast of Cleveland in Bradley County. After initial touchdown, the tornado traveled 5.5 miles northeastward before narrowing in size and becoming intermittent. The tornado traveled another 5.0 miles through northwestern Polk County and McMinn County before finally lifting off the ground 10 miles south of Athens. The community of Chatata Valley was hard hit. 4 homes in Bradley County were destroyed, and 13 were damaged. One destroyed home dated back to 1853. Damage in Bradley County was assessed at over \$800,000. Five people received minor injuries; 3 were hurt when they took refuge in a ditch and a tree fell on them. 25 head of cattle were killed. Hail that approached the size of baseballs also fell from the parent thunderstorm 4 miles northeast of Cleveland and again 15 miles northeast of Cleveland. In Polk County,									
SOUTH DAKOTA									
SDZ00W Western SD	06- 07	Evening- Ery Mrng			0	0	0	0	Blizzard
Snowfall of one to four inches along with winds gusting to 35 mph produced ground blizzard conditions. Interstate 90 from Wall (Pennington County) to Ellsworth AFB (Pennington County) was closed from late evening on February 6 to 9:00 AM CST on February 7. Also Highways 20 and 75 were blocked overnight by drifting snow around Bison (Perkins County) and one way traffic was reported at Newell (Butte County).									
SDZALL Statewide	08- 12	Lt Eve- Morning			0	0	0	0	Cold
Overnight low temperatures during this time over the state were cold. The coldest temperatures were 32 below zero at Deerfield (Pennington County) early in the morning of February 9 and 29 below zero at Summit (Roberts County) early in the morning of February 10. In general, overnight lows were well below zero over most of the state during this time.									
SDZ00W Western SD	13	Morning- Lt Aftn			0	0	0	0	Blizzard
Strong winds gusting from 30 to 45 MPH produced ground blizzard conditions in places. New Underwood (Pennington County) had zero visibility for several hours. The drifting snow produced some one way traffic on roads around Newell (Butte County), Faith (Meade County), Murdo (Jones County) and Isabel (Dewey County).									
SDZ0NE Northeast SD	15	Morning- Aftn			0	0	0	0	Winter Storm
One to three inches of snow fell over the area with up to six inches reported at Milbank (Grant County) and Redfield (Spink County). The snowfall along with winds gusting to over 30 MPH produced ground blizzard conditions in places.									
SDZ00N Northern SD	18- 19	Evening- Evening			0	0	3	0	Winter Storm
Snowfall of up to eight inches fell over parts of northeast South Dakota. Ft. Sisseton (Roberts County) and Aberdeen (Brown County) reported eight inches. In general, two to five inches fell over the area. Winds gusted to 35 MPH and produced ground blizzard conditions at times. Many accidents were reported and several motorists were stranded around Ft. Sisseton. Roads were blocked in several locations.									
SDZ00W Western SD	25- 28	Morning- Evening			0	0	5	0	Flooding
Rapidly melting snow caused rivers to rise in western South Dakota. Two hundred families were asked to evacuate in Box Elder (Pennington County) as the Box Elder Creek rapidly rose to above flood stage on the evening of February 25. At the same time, water rose to above flood stage at New Underwood (Pennington County). Considerable lowland flooding occurred and many gravel roads in that part of the state were damaged or destroyed. Residents of New Underwood had to boil their water on February 26 and schools were cancelled for the day due to the high water. The Little White River had an ice jam and the flooding behind it forced a rancher to sandbag his buildings on the afternoon of February 28.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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	

— TENNESSEE

2 trailers and a home were destroyed, and trees and utility poles were toppled in the Chestnut community in the northwestern portion of the county. In McMinn County, 3/4 inch hail pelted Etowah and golf ball sized hail fell in Englewood.

Fairview, Williamson County
17 1440CST 0.7 15 0 0 5 0 Tornado (F0)

A weak tornado touched down in the Fairview community at Highway 96 and Lake Road, where a mobile home and a lakefront cabin were destroyed. Power lines were downed on Horn Tavern Road, and another mobile home was destroyed there as well. An apartment complex was damaged, and minor roof damage occurred at 2 other houses. Over \$100,000 in damage resulted.

41 TEXAS, Northern

Parker County
2 2140CST 10 100 0 2 5 ? Tornado F2

The tornado touched down about 2 miles south of Brock, destroying 2 sheds and damaging a mobile home, a boat, a boat house and a home under construction. It continued east-northeast for several miles before it destroyed a farm house, injuring one man slightly. About one mile further east, it totally destroyed a mobile home, injuring a woman.

The tornado then began to turn more northerly, downing trees and power lines and damaging two mobile homes before lifting about 4 miles west-southwest of Weatherford.

North Texas
3 8100CST 0 0 ? ? Flooding
4 AM

Most areas of North Texas had gone without rain for over 50 days when thunderstorms brought heavy rains to the area. Shortly after midnight on the 3rd, the rains began to cause flooding to the north and west of the Dallas-Ft Worth area. By evening of the 3rd, the heavy rains had spread to eastern sections of North Texas. Rainfall amounts were generally 2 to 3 inches with some reports over 5 inches and a high of 8.63 inches in Mexia. Unofficial reports of over 18 inches were received from the Quitman area.

The first reports of flooding came at 0200CST on the 3rd with several homes in Fannin County flooded. Before the rains ended during the day, Bonham received over 7 inches. At the same time, Denton County had several farm roads that flooded, with one car being washed away by 0300CST.

By 0900CST, several homes in Collin County were flooded and one family had to be rescued by boat near McKinney. A nearby bridge over a farm road was washed out by the rushing waters.

Between mid-morning and noon, heavy rains inundated areas around Waco. Five inches fell between 0800CST and 1100CST at Riesel in McLennan County, with 3 more inches falling during the day. A woman escaped injury when her car was washed off the road, as many roads in the area were flooded. Flooding of roads in Mexia was reported by 1150CST as waters began to flow over Lake Mexia dam spillway. The waters peaked at 6 feet over the spillway at 2100CST. Seven inches of rain had fallen in less than 8 hours.

By 1330CST, flooding of streets and roads in Temple became widespread, with numerous cars stranded.

Reports put the final total at 27 roads that were closed in Bell County alone.

In the eastern section of North Texas, similar incidents occurred when heavy rains began around midday and continued into the evening hours. Four to six inches fell from the Athens area to Longview, with widespread flooding of roads and homes. In Van Zandt County, a bridge was washed out by the high waters.

With the rains ending late on the 3rd, most flood waters receded on the 4th.

Ellis County
5 1420CST 0 0 ? ? Hail

Hail to 3/4 inch was reported in northwest Ellis County.

Dallas County
5 1448CST 0 0 ? ? Hail

Hail to 3/4 inch was reported in southwest Dallas County.

— TEXAS, Northern

Hopkins County
5 1515CST 1/2 30 0 0 ? ? Tornado F1
1540CST 3/4 30 0 0 ? ? Tornado F1, Hail

A tornado touched down briefly south of Sulphur Springs and downed some trees and power lines.

At 1540CST, hail to golfball size was reported just south of Saitillo as a tornado was observed by spotters in a field. The tornado lasted only a few minutes before lifting back into the cloud.

Rains County
5 1528CST 0 0 ? ? Thunderstorm
Wind, Hail

Golfball size hail was reported in southern Rains County at 1528CST, along with trees and power lines that were downed.

Wood County
5 1550CST 0 0 ? ? Thunderstorm
Winds, Hail

Thunderstorm winds downed trees and power lines and hail to 3/4 inch fell at Yantis.

Franklin County
5 1600CST 1/2 30 0 0 ? ? Tornado F1
1615CST 1/2 30 0 0 ? ? Tornado F1
1630CST 0 0 ? ? Hail

The tornado touched down briefly a few miles south of Mt. Vernon and was accompanied by golfball hail. Trees and power lines were downed by the tornado before it dissipated.

At 1615CST, a tornado touched down about 8 miles southwest of Talco, destroying a barn. At 1630CST, hail to golfball size covered the ground 6 inches deep in Talco.

Titus County
5 1650CST 1/2 30 0 0 ? ? Tornado F1

A tornado touched down southeast of Wilkinson, downing some trees.

Dallas County
5 1700CST 0 0 ? ? Thunderstorm
Winds, Hail

Thunderstorm winds estimated at 80 mph downed three power poles and damaged several homes in Garland. Hail to 1 1/2 inches was reported with the storm.

Red River County
5 1715CST 0 0 ? ? Hail
1700CST Funnel

A funnel was sighted 5 miles east of Boxelder at 1700CST.

At 1715CST, hail to golfball size fell near Avery.

Bowie County
5 1740CST 1/2 30 0 0 ? ? Tornado F0
1750CST Funnel
1720CST Hail

A tornado touched in an open field 2 miles west of New Boston.

At 1750CST, a funnel was sighted 3 miles northeast of Dekalb. Golfball size hail damaged a house roof and a car.

Golfball size hail was reported near Dekalb at 1720CST.

Northwest North Texas
9 EVE Heavy Snow

Heavy snow fell in the northwest section of North Texas, mainly west of Wichita Falls. Snowfall of 6 inches was reported in the Vernon, Crowell and Guannah areas, closing schools, businesses and most roads for the day.

41 TEXAS, Southern

Burnet and Williamson Counties
03 1000-1800CST 0 0 4 0 Flash Flood

In Southeastern Burnet County, heavy rains produced a flash flood on Hickory Creek, 12 miles east of Marble Falls. A pickup was washed off of a low water crossing on FM Road 1431. The driver had to be assisted in his attempt to get out of the rushing water. In Williamson County, heavy rains caused flash flooding along Dry Berry Creek off County Road 243. High water got into several homes and caused minor flooding as residents had to move some personal property. Roads between Andice and Florence were closed for a short time because of high water. Many low water crossings in the western part of the county were closed. Leander reported high water in that area with several roads closed, including US Hwy 183. Residents of one mobile home park in Leander were advised to move to higher ground because of rising water. Four inches of rain at Georgetown caused some flooding of low water crossings and local street flooding. A few persons had to be rescued from vehicles that were stranded in high water. Northeast of Georgetown, high water covered low water crossings along SH 971.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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, Southern

Southeast Texas	05 1445-1930CST								Hail, Tornadoes
<p>Severe thunderstorms developed over the western portions of Colorado and Wharton Counties shortly before 300 PM CST and moved northeast across Southeast Texas to Jasper County, ending at about 730 PM CST. There was a resulting hail path about 150 miles long. Hail reports with size and location are listed below by counties ending with Jasper County.</p> <p>A severe thunderstorm or super cell produced a mesoscale cyclonic circulation that gave birth to a family of tornadoes that began 7 miles northwest of Katy in Waller County, extended northeast over the northwest part of Harris County and ended near the Montgomery County line 7 miles northwest of Spring. The tornadoes left 4 distinct paths of destruction which are described below.</p>									
Harris and Waller Counties	05 1545CST	8	170	0	?	5	5		Tornado (F2)
<p>The first tornado occurred shortly before 400 PM CST, in eastern Waller County about 7 miles northwest of Katy, Texas. The tornado moved east-northeast and stayed on the ground for about 8 miles. It moved over mostly open country; some rice fields were effected. The tornado did knock over some power poles and trees. Some metal buildings were destroyed at business sites.</p>									
Harris County	05 1615-1625CST	2,5	70	0	?	6	?		Tornado (F2)
<p>A second tornado touched down 5 miles south of Tomball near FM 149 and moved northeast towards the Hooks Airport. This path of destruction was about 2 1/2 miles long. Metal buildings were destroyed and many trees snapped off. Some residences in the area had roof damage.</p>									
Harris County	05 1630CST	1	30	0	?	6	?		Tornado (F1), Hail
<p>A third tornado hit southeast Tomball with a destruction path of about one mile long. Hundreds of power lines were downed. Hail was reported to be near ankle deep in some parts of town, with size up to golfball. The tornado damaged several homes and apartment houses.</p>									
Harris County	05 1630CST	5	70	2	?	7	?		Tornado (F3), Hail
<p>A fourth tornado developed one mile southwest of Hooks Airport, west of Boudreaux Road and moved northeast over the airport and left a path of destruction for about 5 miles. The tornado hit a mobile home park where 37 of the 40 mobile homes in the park were either damaged or destroyed. One elderly lady, 81 years of age, was killed in her mobile home when it collapsed. In the area, another fatality occurred when a 30 year old man was killed when a tree was blown over on his truck, causing him to lose control of his vehicle as it crashed into nearby trees. At the Hooks Airport, 300 of the 500 airplanes parked at the airport were either damaged or destroyed (at least 50 aircraft were totaled, including helicopters). Two hangars were severely damaged and a third one collapsed with aircraft on the inside. 90 percent of the buildings at the airport suffered damage. Crumpled aircraft littered the roadsides near the airport. There was evidence at the airport that a strong downburst (diverging winds) had occurred because of the diverging pattern of the debris. In the area, at least one truck trailer rig was overturned by the high winds. Numerous vehicles were damaged, with lots of windshields broken out. Hail was the size of tennis balls.</p> <p>The four tornadoes caused damage valued in excess of 80 million dollars. 2 persons were killed and 49 persons were injured, enough to seek medical attention at nearby hospitals and medical clinics. Some of the injured persons had to be freed from the piled-up wreckage and debris. A tornado or very high winds barely missed the Cy-Fair Day Care Center near Cypress where 80 small children had taken cover. There was wind damage around the day care center, with windows broken and trees downed. Tornado F81M, M30V</p>									
Colorado County	05 1445CST			0	0	?	0		Hail
<p>Hailstones one inch in diameter fell just south of Garwood. No damage was reported.</p>									
Harris County	05 1625CST			0	0	?	0		Hail
<p>Hail up to the size of tennis balls fell between Tomball and Spring. Many vehicles lost their windshields.</p>									
Montgomery County	05 1700-1730CST			0	0	?	0		Hail, Wind
<p>Hail the size of quarters fell at Conroe. High winds broke out windows. One farmer reported chickens houses destroyed with his chickens everywhere. Near Grangerland, a roof was torn off of a convenience store by high winds from a thunderstorm. A mobile home was also destroyed. Signs were blown over, and several cars lost their windshields from the large hail.</p>									
Liberty County	05 1712CST			0	0	0	0		Hail, Wind
<p>Liberty County Sheriffs Department reported 3/4 inch hail and very strong winds from a thunderstorm. The high winds caused tree damage near Cleveland.</p>									
San Jacinto County	05 1745CST			0	0	0	0		Hail, Wind
<p>Golfball size hail fell at Shepard. Power lines were downed in the area.</p>									

— TEXAS, Southern

Polk County	05 1746CST								Hail
<p>Polk County Sheriffs Dept. reported golfball size hail south and southwest of Livingston. Damage was not reported.</p>									
San Jacinto County	05 1755CST			0	0	0	0		Hail, Wind
<p>San Jacinto Sheriffs Dept. reported golfball size hail and a power outage at Coldspring. Hail damage was not reported.</p>									
Tyler County	05 1818-1845CST			0	0	?	0		Hail
<p>Tyler County Sheriffs Dept. reported hail one inch in diameter 5 miles west of Woodville. Hail the size of hen eggs was reported 4 miles east of Colmesneil. Also, 7 miles west of Woodville, hail the size of golfballs was reported. There apparently was some damage, but it was not reported.</p>									
Jasper County	05 1922CST			0	0	0	0		Hail
<p>Golfball size hail fell near Erin. Damage was not reported.</p>									
Hardin County	05 1545CST			0	0	0	0		Hail
<p>Three quarter inch hail was reported at Lumberton. Damage was not reported.</p>									
Wharton County	05 1637CST			0	0	0	0		Hail
<p>Three quarter inch hail fell at Glen Flora. Damage was not reported.</p>									
Walker County	05 1745CST			0	0	4	0		Wind
<p>High winds from a severe thunderstorm destroyed 2 mobile homes 10 miles northeast of Huntsville. The high winds also uprooted several large trees in the area.</p>									
Fort Bend County	05 1800CST			0	0	0	0		Hail
<p>Three quarter inch hail was reported at Needville. Damage was not reported.</p>									
Hidalgo and Willacy Counties	05 2015-2130CST			0	1	4	?		Wind
<p>High winds from a thunderstorm downed palm trees and power lines in the eastern part of Hidalgo and the western part of Willacy Counties. Near Weslaco, one resident was injured when the walls of his house collapsed on him as the result of very high winds. Other residences had broken windows.</p>									

41 TEXAS, Western

Dawson County	05 1635CST	Short	50	0	0	0	0	0	Tornado (F0)
<p>A small tornado dropped over extreme southwest Dawson County, about 10 miles west of Patricia, and traveled a short distance, raising dust.</p>									
Panhandle and the South Plains	07-10			0	0	?	?		Winter Storm
<p>The worst winter storm of the season hit the area from Friday (7th) through early Monday (10th), dropping heavy snow on the South Plains and the Panhandle. Snow accumulations ranged from 3 to 15 inches. The heaviest was 15 inches in Moore County and up to 11 inches in Deaf Smith, Gray, and Roberts Counties. Other amounts ranged from 6 to 10 inches in many locations by Sunday and Sunday night.</p> <p>Besides the snow; sleet, freezing rain, and freezing drizzle multiplied the problems in the area. Also, dense fog (with visibility to near zero) added to the woes of travelers.</p> <p>The thick blanket of snow stranded travelers, closed schools, caused traffic accidents, and disrupted air travel.</p>									

42 UTAH

Box Elder County Davis County Salt Lake County Weber County	02 1940MST								Thunderstorm Winds
<p>A small but blustery cold front moved through the Wasatch Front area on this Sunday evening and was accompanied by a thunderstorm which produced a 64 mph gust in Farmington. Other gusts near the same time included 51 mph at the Salt Lake City International Airport. Power outages from the blast lasted until the next morning for northern portions of Salt Lake County. Moderate snowfall followed the winds, with accumulations of 8 to 12 inches in the adjacent mountains.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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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	

UTAH									
UTZ002-003-006-007-011 Western Deserts, Southwest and Southern Mountains	05-06	2100MST 0800MST			0	0	1	0	Heavy Snow
<p>A winter storm produced from 6 to 9 inches of snow in the Western and Southeastern valleys. Confirmed storm totals included 6 to 8 inches at Tooele, 9 inches at Ibapah, and 9 to 10 inches at Cedar City, 6 inches at Mapleton, and 4 inches at Richfield, and over two feet at Brianhead ski resort.</p>									
UTZ003 Wasatch Front	06-07	1200MST 0800MST			0	0	4	0	High Winds
<p>Easterly canyon winds gusted to as high as 87 mph during the nighttime hours on this Thursday night. A semi-tractor trailer was blown over near Brigham City and power lines were knocked out in Davis County. Spotters in Farmington and Centerville reported gusts to 87 mph and 80 mph respectively during the afternoon and evening of the 6th.</p>									
UTZ010 Northern Mountains	13-13	0000MST 2100MST			0	0	1	0	Heavy Snow
<p>A wet winter storm dumped 2 to 3 feet of high density snow in portions of the Wasatch and Uinta Mountains. A few storm totals from the area ski resorts include: Sundance 36 inches, Snowbasin 32 inches, Snowbird 22 inches, Alta 20 inches, Park City 24 inches, and Beaver Mountain 22 inches. This heavy, wet snow triggered avalanches in many areas. One spectacular natural release near the Sundance ski resort demolished a home, and left only the pillars standing.</p>									
UTZ002-010 Western Valleys and Northern Mountains	15-15	0500MST 1500MST			0	0	3	0	High Wind
<p>The strong southwest flow ahead of a Pacific storm produced high winds in parts of Northwest Utah. Winds peaked to 120 mph at the Angle Station at Park City and gusted to 70 mph at several other mountain top locations. A construction office trailer was blown over near Garfield. Heavy, wet snow continued to fall at this time, and this, combined with the strong winds, triggered many more natural avalanche releases.</p>									
UTZ001 Cache Valley	15	unkwn			0	0	4	0	Flooding
<p>Warm rains began to fall on the wet snow which had been deposited only a few days earlier. This caused flooding problems to begin in the south and west portions of the Cache Valley. Numerous county roads were washed out and Utah Highway 23 was closed near Wellsville.</p>									
UTZ002-010 Western Deserts and Northern Mountains	17-17	1100MST 1400MST			0	0	1	0	High wind
<p>A vigorous upper level trough produced strong southwest surface winds over much of Western Utah and in the mountains. The highest gusts were 72 mph at Snowbird's Hidden Peak and 59 mph at the Wendover AUTOB.</p>									
UTZ001-003-010 Cache Valley, Wasatch Front and Northern Mountains	17-18	1100MST 1400MST			2	0	6	0	Flooding
<p>Additional rain at high elevations produced floods after soils in the area had become saturated and rivers and streams were running bank full from recent precipitation. Before noon, the wet precipitation in the mountains caused an avalanche in Provo Canyon which blocked the Provo River and destroyed a snack bar at the Bridal Veil Falls. The water from the river backed up the canyon and flooded U.S. Highway 189. Avalanches also blocked the road in Daniels Canyon along U.S. Highway 40 for several hours. One avalanche near Guardsman Pass killed a teenager who was snowboarding in Big Cottonwood Canyon. Several avalanches closed the road to Powder Mountain ski resort and stranded people there overnight. Rivers and streams in the northern mountain valleys began to swell by mid afternoon, and by late evening the Weber River reached a peak flow of 6140 CFS. This surpassed the 1983 peak of 5960 CFS. The Weber caused considerable flooding of homes and property in the towns of Uintah and Peterson. The North Fork of the Ogden River was flowing over Utah Highway 38 near Liberty. By late evening, most of the secondary roads in Morgan County were under water. Flooding was also reported in the towns of Wallburg, Hyrum, Mendon, Wellsville, Clarkston, Petersboro, and Liberty. Streams began to recede on the morning of the 18th. The town of Wellsville had received 10.56 inches of rain during the previous 8 days. A two year old boy drowned after falling into a swollen canal at about 9:45 p.m. on the 18th. The threat of serious additional flooding had ended long before the boy drowned, but streams and canals were still running bank full. Flooding M020 Avalanche M180</p>									

UTAH									
UTZ001-002-003-010 Cache Valley, West Deserts, Wasatch Front, and Northern Mountains	18-19	0400MST 0700MST			0	0	3	0	High Wind
<p>Strong southerly winds ahead of a cold front caused minor roof damage to one Salt Lake County home. The winds gusted to as high as 119 mph at the Park City angle station. Other peak gusts included 66 mph in Centerville, an estimated 60 mph in Logan, 58 mph in Farmington, 54 mph at the Salt Lake Airport, 52 mph at Hidden peak and 49 mph at Hill AFB.</p>									
UTZ001-002-003-010 Cache Valley, West Deserts, Wasatch Front, Northern Mountains	19-19	0700MST 2100MST			1	0	6	0	Flooding
<p>An early morning cold front passage was accompanied by an intense squall line which produced flooding, mostly in the areas which had been recently flooded. The band of precipitation had moved into Northwest Utah by 7:00 a.m. and continued to produce copious amounts of rain across the northwest until mid-afternoon. Flooding continued well after the rain stopped, with the Weber River reaching a peak late in the afternoon. An earthen dam near Peterson developed a large crack and would probably have failed had the local authorities not reacted quickly and made the necessary repairs. The main street in Heber City was flooded and the Cache Valley had widespread flooding once again. Flooding also occurred along Emigration Creek in Salt Lake County. The wet precipitation triggered an avalanche of unprecedented magnitude at the Alta ski resort, which killed a 16 year old boy. Other avalanches in Daniels Canyon blocked the road. The counties of Cache, Morgan, Wasatch, and Weber, were later declared disaster areas by President Reagan and became eligible for federal aid. The Governor of Utah estimated the damage to public facilities at \$2,378,931.00, the damage to private non-agricultural land and property at \$711,500.00 and \$700,000.00 damage to agricultural lands and property. Avalanche M160.</p>									
43 VERMONT									
Statewide	01	0130EST			0	2	6	0	Snow
<p>Heavy wet snow, up to nearly a foot in some areas, fell on the state of Vermont. Some areas were without power for up to five days.</p>									
Statewide	21	0230EST			0	3	5	0	Snow
<p>Up to 16 inches of snow fell in the Green Mountain State, causing power outages and fender benders. Sleet and freezing rain fell in southern sections of Vermont for a time.</p>									
44 VIRGINIA									
VAZ008-009-013-014-015-016 Southwestern Virginia	14	1030-2200EST			0	0	3	0	Heavy Snow
<p>Heavy snow fell across southwestern Virginia, with amounts of 4 to 6 inches in zones 8, 9, and 14; and 6 to 8 inches, including amounts of up to 12 inches at higher elevations, across zones 15 and 16. The snow caused minor accidents and closed schools throughout the area.</p>									
VAZ005-011 Northern Virginia	24	1500-2200EST			0	0	3	0	Heavy Snow
<p>3 to 4 inches of heavy snow fell across most of northern Virginia, with local amounts of up to 6 inches mainly at higher elevations. There were the usual, mainly minor traffic accidents and delays, and local schools closed.</p>									
45 WASHINGTON									
Spokane and Pend Oreille Counties	14,15	night til day			0	?	0	0	Snow
<p>A complex frontal system brought cold air and snow back to Eastern Washington. Snowfall generally ranged from 3 to 5 inches, but Spokane and Colville had more. Colville was coated with 13 inches of new snow from the storm, leaving a snow depth of 22 inches. Spokane received seven inches, the third largest amount ever for a 24-hour period in February. Numerous traffic accidents resulted from slick road conditions.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
WASHINGTON									
Lexington, Cowlitz County	23	all day	0	?	6	0			Flooding
	A series of warm and rainy storms moved into the state and culminated with major flooding on Sunday the 23rd. Flood warnings were issued for most rivers in Western and Southern Washington, but Cowlitz County in the southwest was hardest hit. Rainfall amounts were around 2 to 3 inches for the storm and freezing levels climbed to near 10,000 feet, allowing for significant snow melt. The precipitation rate frequency equaled "the 75 year storm" for the area. The McCorkle Creek levee in Lexington broke. This created major flooding to homes, schools and businesses and caused several damaging mudslides. Some homes had three to four feet of water in them. A bowling alley had water covering the lanes and school rooms were also waterlogged. Property damage totals were estimated to be near \$2 million.								
46 WEST VIRGINIA									
Wood County	19	1530EST	0	0	0	0	0	0	Hail (0.75)
	3/4 inch in diameter hail fell from an isolated thunderstorm in northeast Wood County.								
47 WISCONSIN									
WIZ1010-011-012-013-014-015-016-017-018-019 Southern Half	03	Nighttime into	0	0	6	6			Ice Storm, Snowstorm
	05	Afternoon							
	A storm system created a broad band of light freezing rain and freezing drizzle over much of southern Wisconsin from the night of the 3rd into the morning hours of the 5th. Ice accumulations coated and damaged millions of trees. Especially affected were birches, soft maples, weeping willows, and elms. In Parnell, (Sheboygan County) tree branches a foot in diameter broke under the weight of the ice. An orchard of 100 trees were lost to ice accumulation at Cross Plains (Dane County). Slinger and West Bend (Washington County) and Port Washington (Ozaukee County) appeared to be the hardest hit areas. 50 to 75 percent of the trees in those areas were ice damaged. Falling limbs also caused widespread vehicle and house roof damage. Numerous power lines snapped in many areas. Over 30,000 customers were without power at one time or another and over \$1.5 million in labor and materials were used by the power companies to replace the damaged lines. In Washington County, power was not restored in some areas for 5 days. Several TV cable systems failed. Schools were closed, travel was treacherous, some mail deliveries were cancelled and 2 sheds in Beaver Dam (Dodge County) collapsed. On the afternoon of the 5th, the freezing precipitation changed to a wet snow and deposited a 3 to 7 inch swath of snow across southeast Wisconsin. Beloit (Rock County), West Allis and Cudahy (Milwaukee County) picked up 7 inches.								
48 WYOMING									
Sheridan County	04	Day	0	0	0	0	0	0	Snow
	Story received 8 inches of snow, and Sheridan 7 inches. Up to 10 inches of snow were reported in the foothills west of Sheridan.								
Fremont County	04	Day	0	0	0	0	0	0	Snow
	Five to 6 inches of snow were reported near Shoshoni.								
Fremont County	06	Day	0	0	0	0	0	0	Snow
	Eight to 9 inches of snow fell at South Pass. Lander received 5 inches.								
Converse County	06	Day	0	0	0	0	0	0	Snow
	Douglas received 7 inches of snow.								
Yellowstone National Park	12-13	Days	0	0	0	0	0	0	Snow
	Late on the 12th and during the morning of the 13th, 24 inches of snow fell at the South Entrance to the Park. Old Faithful received 13 inches.								
WYOMING									
Teton County	12-13	Days	0	0	0	0	0	0	Snow
	Jackson received 14 inches of snow. At 0620MST, Teton Village reported 9 inches since 1400MST the previous day.								
Sublette County	12-13	0900MST	0	0	0	0	0	0	Snow
	Six inches of snow fell overnight at Merna.								
Fremont County	13	1500MST	0	0	0	0	0	0	Snow
	South Pass reported 6 inches of snow.								
Yellowstone National Park	14	Overnight	0	0	0	0	0	0	Snow
	The West Entrance to Yellowstone National Park received 24 inches of snow.								
Teton County	14	Overnight	0	0	0	0	0	0	Snow
	Jackson received 10 inches of new snow overnight.								
Teton County	14-15	Overnight	0	0	0	0	0	0	Snow
	Seven to 8 inches of snow fell overnight on Rendezvous Peak, west of Teton Village.								
Yellowstone National Park	14-15	Both days	0	0	0	0	0	0	Snow
	Eight to 12 inches of new snow were common throughout the Park.								
Fremont County	15	0340MST	0	0	0	0	0	0	High wind
	A gust to 55 mph was recorded at the Lander airport.								
Carbon County	15	Day	0	0	0	0	0	0	High wind
	Gusts to around 60 mph were common at Arlington.								
Laramie County	15	1030MST	0	0	0	0	0	0	High wind
	A wind gust to 60 mph was clocked at Cheyenne.								
Teton County	15-16	Overnight	0	0	0	0	0	0	Snow
	Twelve inches of snow fell on Rendezvous Peak, west of Teton Village.								
Yellowstone National Park	15-16	Both days	0	0	0	0	0	0	Snow
	There were several 10 to 15 inch snowfalls in the Park. However, most locations received 1 to 8 inches in the 24-hour period.								
Platte County	16	Morning	0	0	4	0	0	0	High wind
	High winds leveled one barn and damaged another near Festo Lake.								
Carbon County	16	Morning	0	0	0	0	0	0	High wind
	Gusts to around 60 mph were logged at Arlington.								
Yellowstone National Park	16-17	Overnight	0	0	0	0	0	0	Snow
	Eight inches of snow fell at Grant Village.								
Sublette County	16-17	1345MST	0	0	0	0	0	0	Snow
	Eight inches of snow fell during the past hours at Merna.								
Teton County	17	1545MST	1	0	4	0	0	0	Snow, wind
	Six inches of snow fell during the day on Rendezvous Peak, west of Teton Village. Wind gusts to 100 mph during the morning damaged cabin roofs and mobile homes. A ski patrolman was buried and died in an avalanche near Rendezvous Peak, where 74 inches of snow had fallen in the past 6 days. A series of avalanches kept passes in and out of Jackson Hole closed. Blizzard conditions prevented the reopening of the passes and caused an extreme avalanche hazard.								
Carbon County	18	0600MST	0	0	0	0	0	0	High wind
	Gusts to around 60 miles an hour were logged at Arlington.								
Converse County	18	0630MST	0	0	3	0	0	0	High wind
	High winds damaged sheds, numerous power lines, roofs and trees, especially in the town of Glenrock.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1986

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		
WYOMING										
Sheridan County	18	0740MST			0	0	0	0		Snow
	Six inches of snow fell at Burgess Junction.									
Yellowstone National Park	17-18	1005MST			0	0	0	0		Snow
	Six to 12 inches of snow fell during the past 24 hours in the Park.									
Fremont County	17-18	Days			0	0	4	0		Snow, wind
	Up to 3 feet of new snow and blizzard conditions caused numerous power outages in the South Pass area.									
Carbon County	18	1215MST			0	0	0	0		High wind
	Gusts to near 70 mph were logged at Arlington.									
Teton County	18	1930MST			0	0	4	0		High wind
	Wind gusts to 75 mph were logged at Jackson. On Rendezvous Peak sustained winds averaged 65 mph with gusts over 120 mph. Roofs and satellite dishes in Jackson Hole were damaged by the high winds.									
Sweetwater County	18	Day			0	0	3	0		Snow, winds
	High winds and heavy wet snow at Rock Springs caused numerous power outages due to downed lines.									
Converse County	19	0920MST			0	0	0	0		High wind
	Wind gusts to 75 mph were logged at the Douglas airport.									
Goshen County	19	Day			0	0	3	0		High wind
	A trailer attached to a pickup was rolled loose and totaled 10 miles south of Torrington.									
Albany County	22	1230MST			0	0	0	0		High wind
	A gust to 80 mph was clocked 25 miles west of Cheyenne near Granite Reservoir. Gusts to 70 mph were reported during the early morning.									
Laramie County	22	1400MST			0	0	3	0		High wind
	A gust to 70 mph at the Cheyenne airport flipped a light aircraft. The plane sustained minor damage.									
Carbon County	23	0400MST			0	0	0	0		High wind
	Gusts of 50 to 60 mph were logged at Arlington, in east Carbon County.									
Albany County	24	0345MST			0	0	0	0		High wind
	Wind gusts to 75 mph were logged 25 miles west of Cheyenne near Granite Reservoir.									
Carbon County	24	0345MST			0	0	0	0		High wind
	Gusts to 60 mph were recorded at Arlington.									
Sheridan County	24	Overnight			0	0	0	0		Flood
	A 300-foot ice jam along Goose Creek, near Sheridan, blocked the creek, causing water to spill over the banks and into a mobile home park. Two hundred and fifty people were evacuated from the Woodland Park Village Mobile Homes.									
49 ALASKA, Northern ————— NO REPORT RECEIVED										
49 ALASKA, Southern ————— NO REPORT RECEIVED										
49 ALASKA, Southeastern										
All SE Alaska	27	Morning & Evening			0	0	0	0		Winds
	2 strong storm systems crossed Southeast Alaska early and late on February 27th, bringing hurricane force winds and driving rain. Winds gusting to almost 100 mph closed Juneau's Eaglecrest Ski area while gusts to near 60 mph were recorded at downtown locations. Both storms were short lived, each lasting about 1-2 hours, and caused no widespread damage.									
50 HAWAII										
HIZ002 Oahu	05	Forenoon			0	0	?	0		Surf
	Surf reached heights of 25 to 35 feet along the north shore of Oahu. Some minor road damage occurred.									
HIZ004 Hawaii	06	0200HST			0	0	?	0		Surf
	Minor damage from high surf occurred at Kona.									
HIZ004 Hawaii	12	1400HST			0	0	3	0		High Wind
	Strong winds over Kohala and Laupahoehoe damaged several buildings.									
HIZ002 Oahu	13	Afternoon			0	0	?	0		Surf
	A large swell from the northwest caused a 30 foot surf along the north shore of Oahu. Only minor road damage occurred.									
HIZ004 Hawaii	15	Afternoon			0	0	3	0		High Wind
	Gusty afternoon winds from the southwest caused minor damage in the Hilo and Puna areas.									
HIZ002 Oahu	15	Evening			0	0	?	0		Surf
	Surf reaching heights of about 30 feet caused minor damage along the north shore of Oahu.									
HIZ003 Maui	15	Evening			0	0	3	3		Flash Flooding
	Heavy showers in the higher elevations of Maui caused minor flash flooding. One dirt road was washed away.									
HIZ004 Hawaii	16	Midnight			0	0	3	0		Flash Flooding
	Heavy showers over the north Kona slopes and the Kohala Mountains caused localized minor flooding. Otherwise, the rains were much appreciated for the dry pastures and low reservoirs.									
HIZ004 Hawaii	16	0400HST			0	20	7	6		High Winds
	A rare case of what is suspected to be strong downslope winds occurred during the predawn hours and lasted until about 0800HST. Extensive wind damage occurred in the Hilo area. A peak wind gust of 55 mph was clocked at the airport, and slightly stronger winds may have occurred within the Hilo area proper and just north of the town. Damage was heavy since accumulated rot and termite damage and corrosion to metal fasteners are common in this humid tropical climate where winds rarely gust above 30 mph. Twenty people were treated for mainly minor injuries at Hilo Hospital. There were various degrees of damage to about 150 dwellings and businesses, and extensive damage occurred to utility poles and overhead wires and cables. Agricultural losses in the surrounding countryside were extensive, with many macadamia nut trees having been blown down. Also, damage occurred to papaya, banana, and ornamental flowers and bushes, and to their fragile shelters and screening devices. Losses may total near \$10 million.									
HIZ001 Kauai	21	1600HST			0	0	4	3		High Winds
HIZ002 Oahu	22	1200HST			0	0	3	3		High Winds
	Strong winds associated with a deep low pressure system moving eastward, well north of the Islands, produced gusts near 50 mph on Kauai and 40 mph on Oahu. The windy episode peaked at around midnight on Kauai and near noon of the next day on Oahu.									
HIZ002 Oahu	22	2300HST			0	1	6	0		Surf
HIZ004 Hawaii	23	1100HST			0	3	6	0		Surf
	The most damaging surf in a number of years affected the west and north shores of the Hawaiian Islands. Surf heights were estimated by some longtime north shore residents of Oahu at near 40 feet. Along the shore, the arrival time of some of the largest swells closely coincided with the high spring tide near the full moon. A significant swell height of 30 feet was measured at the NOAA buoy anchored 250 miles to the northwest. One shoreline home was destroyed; 2 received major damage; and 11, minor damage. One injury was reported on Oahu, and damage was estimated at about \$600,000.									
	On the Island of Hawaii, the entire length of the west shoreline was hammered by high surf, causing damage estimated at close to \$5 million. Structural damage occurred to some large hotel and condominium buildings in the Kona area. The OTEC facility off of Keahole also sustained some damage. Three persons were reported injured along the Kona Coast.									
51 PUERTO RICO ————— NONE REPORTED										
52 VIRGIN ISLANDS ————— NONE REPORTED										
53 PACIFIC ————— NONE REPORTED										

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

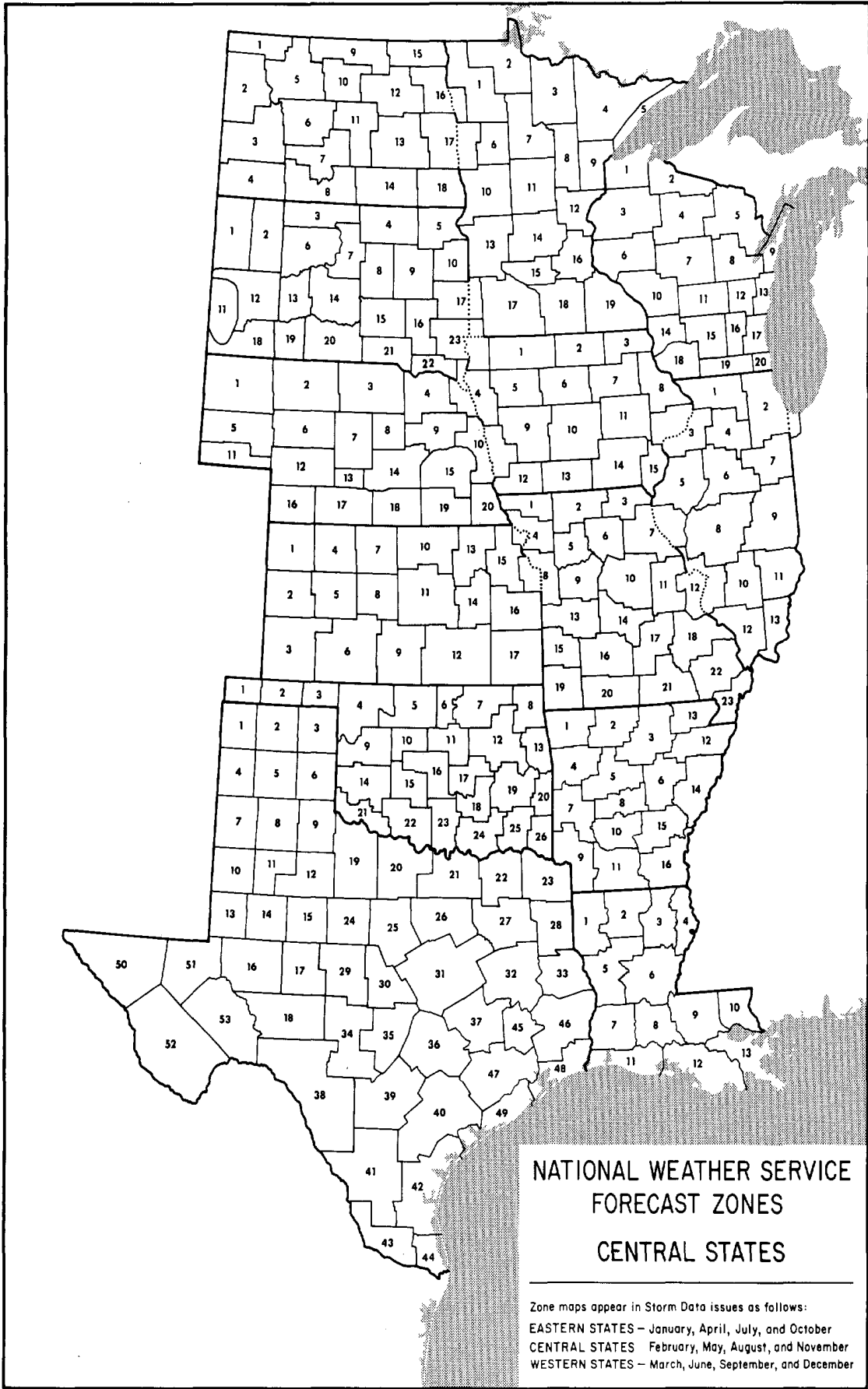
(F2+F3) Strong Tornado

(F4+F5) Violent Tornado

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