

JUNE 1990
VOLUME 32
NUMBER 6

STORM DATA



AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS



COVER: Looking WSW from a farm several miles WNW of Culbertson, Nebraska) at a rotating, tornadic thunderstorm which produced a violent tornado (F4) occasionally 1.5 miles in width; the path length of the tornado was 28 miles. The tornadic storm is about 9 miles from the photographer; the house on the farm where this picture was taken was later destroyed by the tornado. *Photo courtesy: Calvin Brown of Eugene, Oregon.*

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STORM DATA

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National Climatic Data Center

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The Storm Data and unusual Weather Phenomena Narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by cooperative efforts between the National Climatic Data Center and the National Severe Storms Forecast Center.

STORM DATA contains all confirmed information on storms available to our staff at the time of publication. However, due to difficulties inherent in the collection of this type of data, it is not all-inclusive. Late reports and corrections are printed in each edition.

Maps of the National Weather Service Forecast Zones which are used in the Storm Data and Unusual Weather Phenomena section will be printed in all editions.

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

Mr. Vince Miller
1464 Wood Thrush Way
Marietta, GA 30062

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

"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center, Asheville, North Carolina 28801."



Director
National Climatic Data Center

STORM FOLKS . . .



Biographical Sketch WALT DRAG

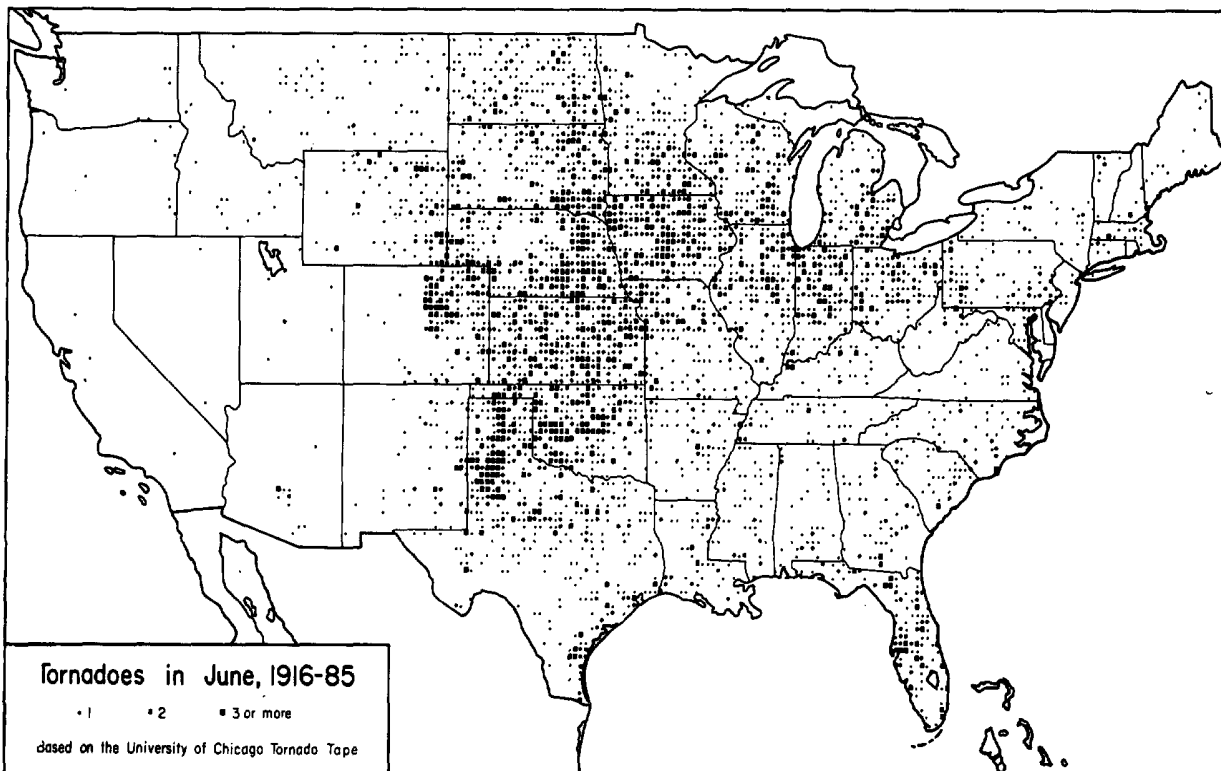
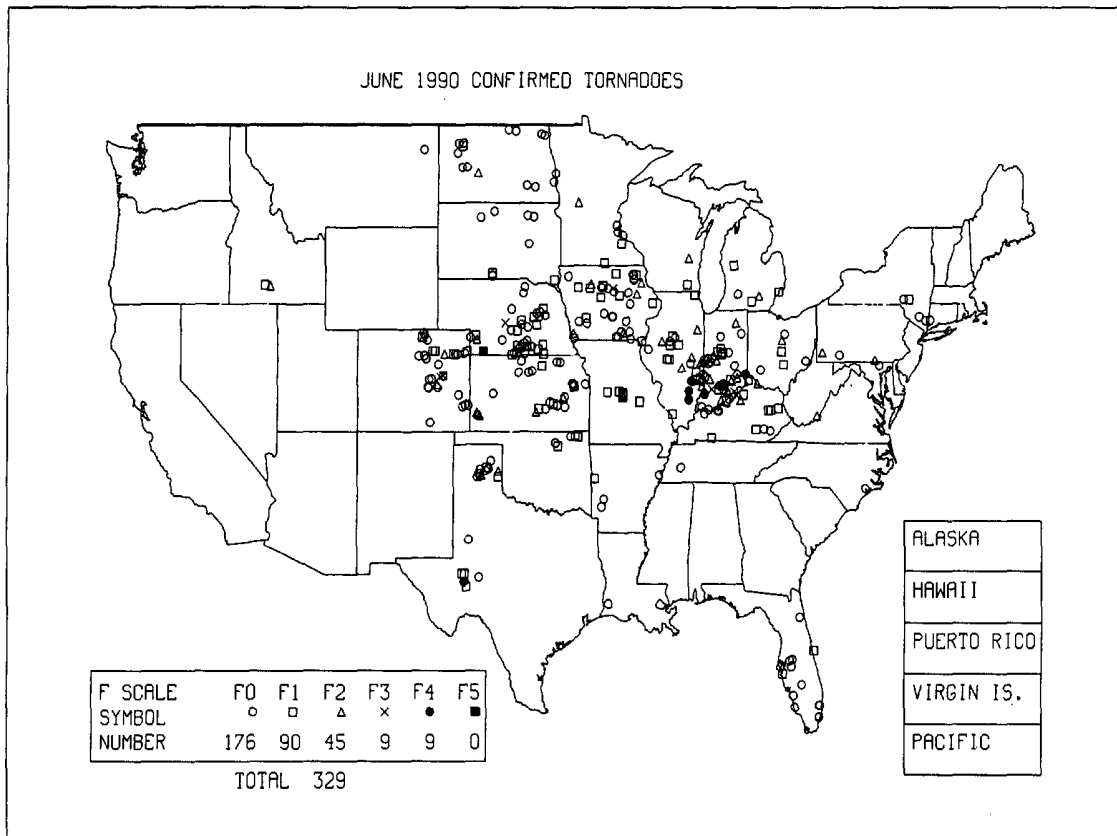
Walt earned a B.S. in Meteorology from St. Louis University in 1972.

Thereafter he worked for several private sector weather consulting firms including Accu-Weather between 1973 and 1975; Weather Services Corporation between 1975-1979, and a few months at Environmental Research and Technology before joining the NWS as an intern/forecaster at the Milwaukee office at the end of 1980. He was promoted to Lead

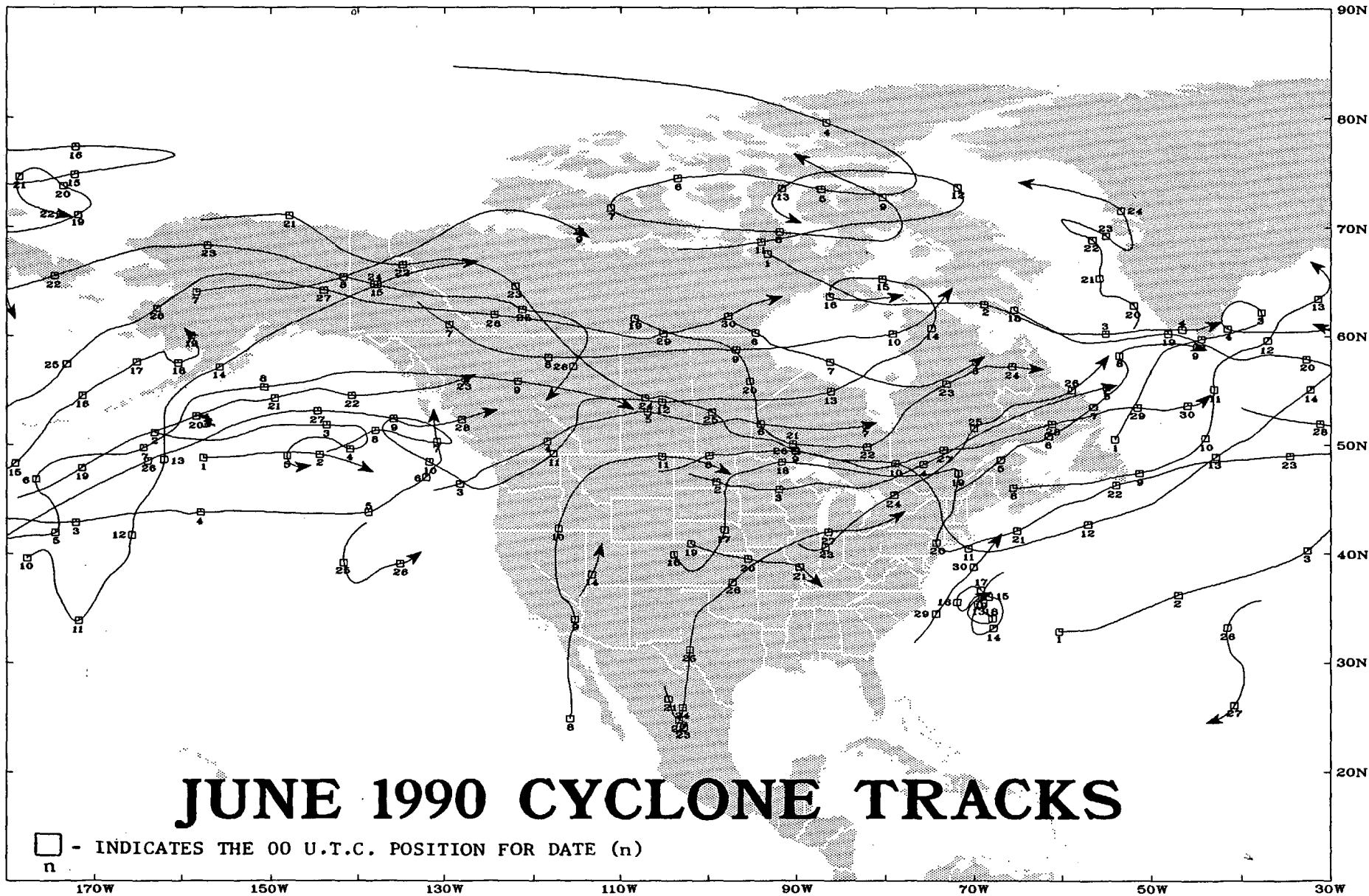
Forecaster at the Cleveland office of the NWS in 1987 and then to Lead Forecaster at the Boston office in July of 1989.

He shared the 1989 National Weather Association award for outstanding operational performance as well as co-authored the paper "Synoptic Weather Patterns Associated with the Milwaukee, Wisconsin Flash Flood of 6 August 1986" which appeared in the December 1989 issue of Weather and Forecasting.

OUTSTANDING STORMS OF THE MONTH



5



1. PRECIPITATION AND TEMPERATURE ANOMALIES - JUNE 1990

Most of the United States was warmer and drier than normal in June 1990. Table 1 shows the June 1990 temperature and precipitation rankings for the nine climatically homogeneous regions shown in Fig. 1. Nationally, June 1990 was the third driest June of record (since 1895). Regionally, the Southeast and South reported the 2nd and 5th driest June ever; however, the East-North Central had its 6th wettest June of record (Figs. 2 and 3 on the following page). Almost all of the U.S. reported above normal temperatures for June 1990 (Fig. 4 on page 8). The Southwest and South regions recorded their warmest and fourth warmest June of record, respectively.

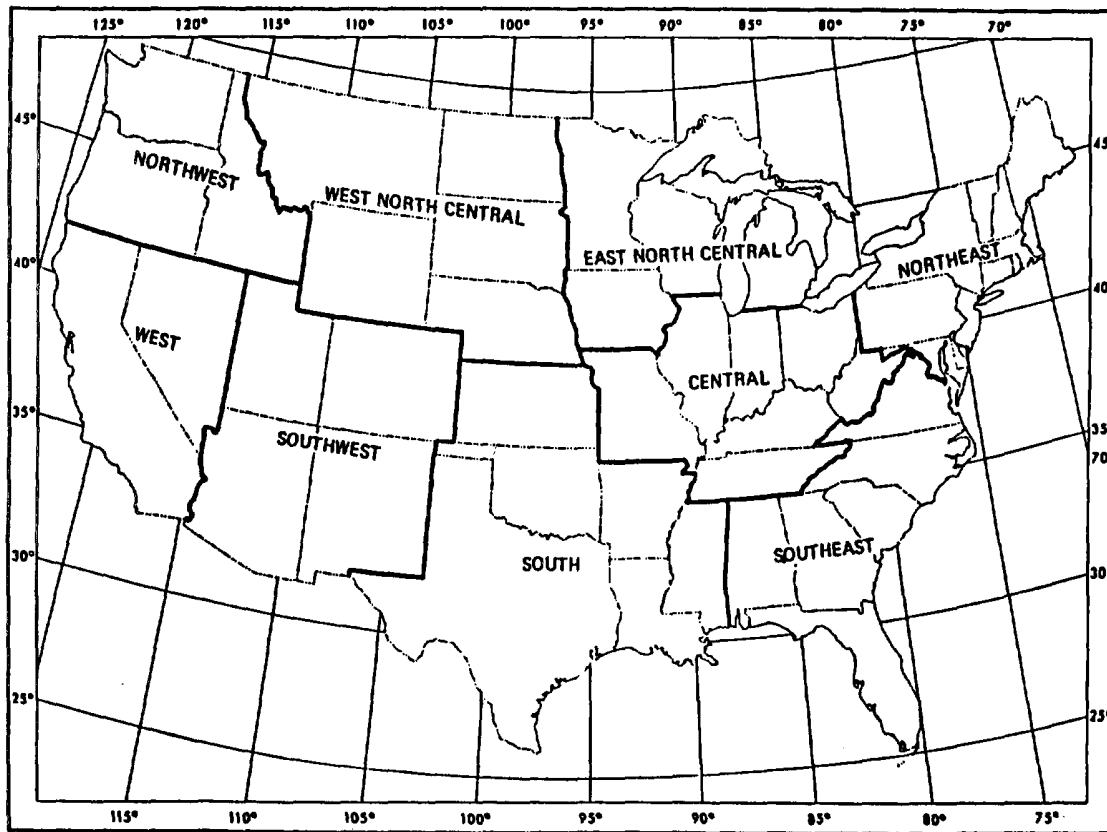
TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR JUNE 1990, BASED ON THE PERIOD 1895-1990.

1 = DRIEST/COLDEST, 96 = WETTEST/HOTTEST.

<u>REGION</u>	<u>PRECIPITATION</u>	<u>TEMPERATURE</u>
Northeast	52	54
East North Central	91	65
Central	68	54
Southeast	2	62
West North Central	41	69
South	5	93
Southwest	13	96
Northwest	48	53
West	46	75
National	3	89

From National Climatic Data Center

Fig. 1



From National Climatic Data Center

Fig. 2

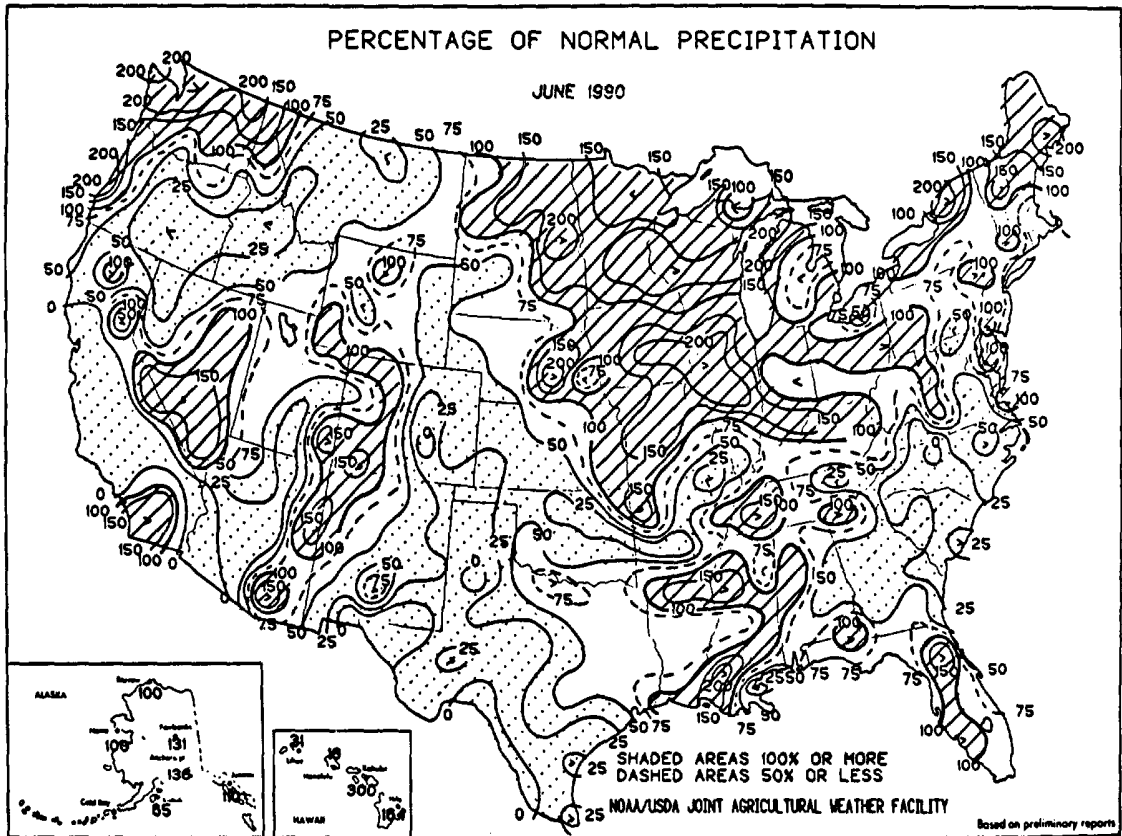
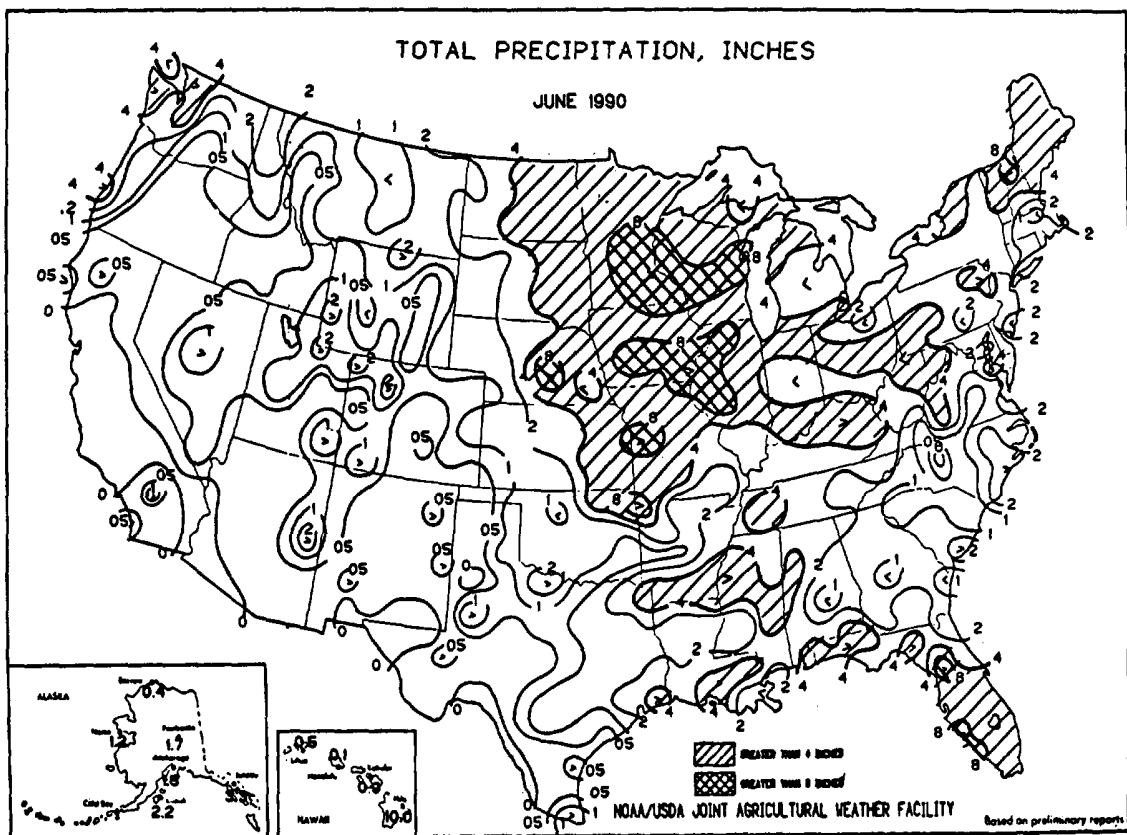
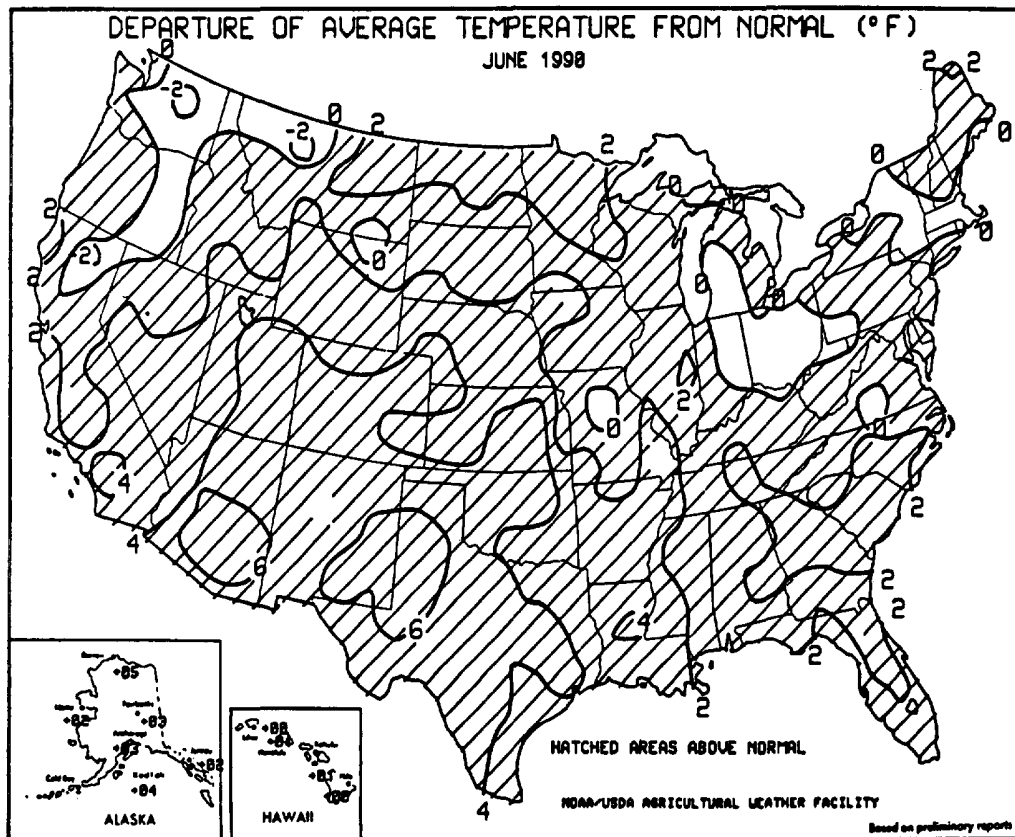


Fig. 3



Above figures reprinted from *Weekly Weather and Crop Bulletin* - July 10, 1990

Fig. 4



Reprinted from *Weekly Weather and Crop Bulletin* - July 10, 1990

2. SHADYSIDE, OHIO (AND ADJACENT AREA) FLOODING OF JUNE 14-15, 1990

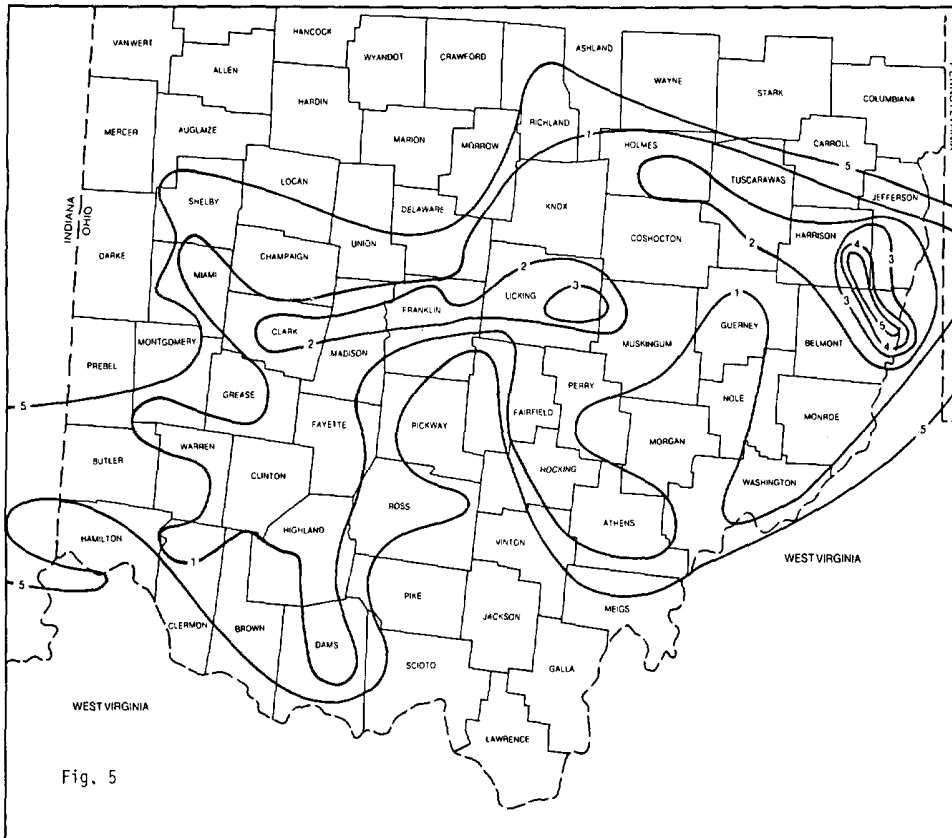
Heavy rain falling on already saturated soils caused flash flooding (mainly on the evening of the 14th) in parts of southeastern Ohio, the West Virginia panhandle, and western Pennsylvania; however, none was as severe as the flooding which occurred in the vicinity of Shadyside. An estimated 3 to 4 inches of rain fell between 8:30 p.m. and 9:45 p.m. (EDT) on the headwaters of Wegee and Pipe Creeks; the resultant 10- to 30-foot wall of water which began at the headwaters between 9:15 and 9:30 p.m. reached the Ohio River about 10:00 p.m. Twenty-four people



died in the Wegee and Pipe Creek watersheds; two others died in flooding which occurred along Cumberland Run, a small stream on the other side of the ridge separating it from the Wegee and Pipe Creek watersheds. Numerous vehicles were demolished, 80 residences were destroyed, and another 251 homes and businesses sustained damage in varying degrees.

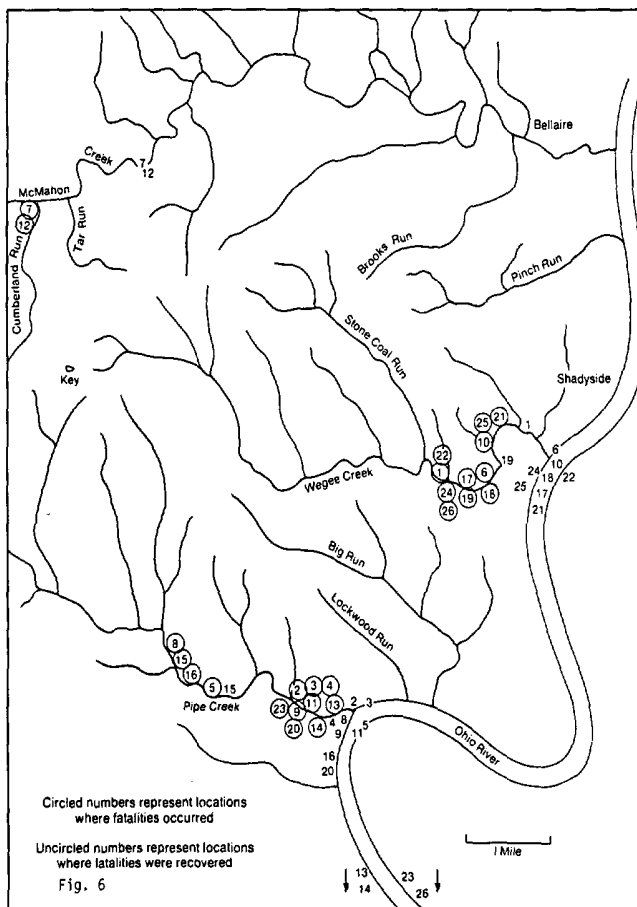
No official prior record of flash flooding existed along Pipe or Wegee Creeks; however, these streams are similar to other flash flood-prone streams common to western Pennsylvania and West Virginia. The extremely saturated soil conditions prior to the flood event undoubtedly contributed to the immediate runoff and flooding. One interviewed resident described ankle-deep water running down the hill side ("sheet flow") near his house while he was running to higher ground; grasses were also flattened down on hill sides.

Left: Typical vehicle and residential damage as a result of the flooding near Shadyside. Photo courtesy: Mike Wyatt; NWS Columbus, Ohio.

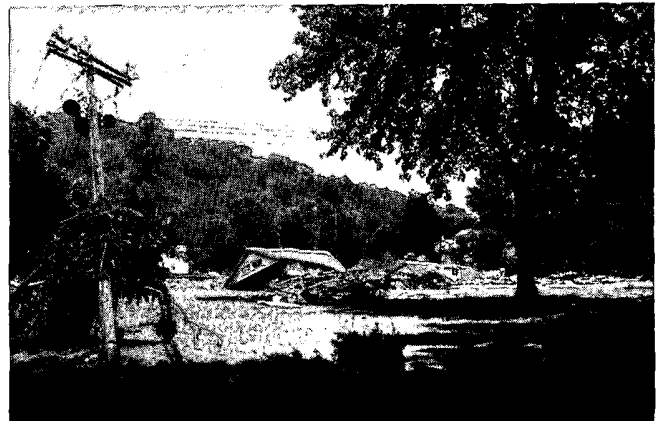


Left (map): 24-hour rainfall ending 8:00 a.m. EDT, June 15, 1990. Note the maximum near Shadyside (which is in Ohio's Belmont County). **Bottom (map):** Locations of fatalities - two of which were found in debris 30 miles downstream at the Hannibal Locks and Dam on the Ohio River. Maps from the NWS Natural Disaster Survey Report - SHADYSIDE, OHIO, FLASH FLOODS, JUNE 14, 1990.

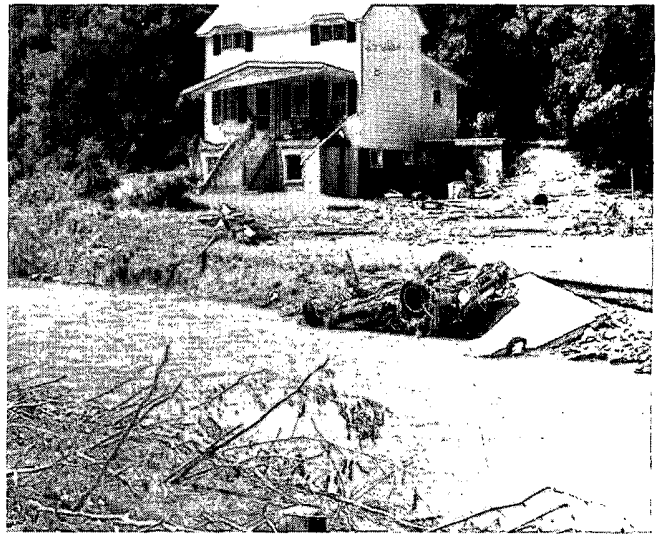
Fig. 5



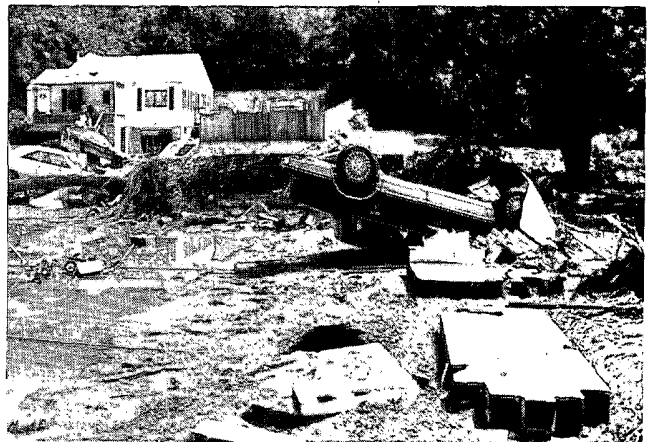
Circled numbers represent locations where fatalities occurred
 Uncircled numbers represent locations where fatalities were recovered
 Fig. 6

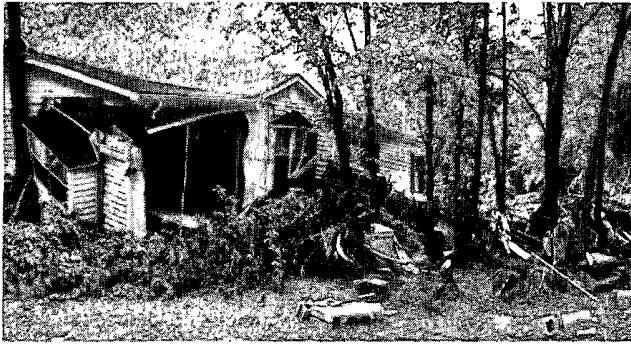


Photos: More damage and debris in the vicinity of Shadyside. Note the height of the debris on the utility pole in the top photo. Photos courtesy: Mike Wyatt, NWS Columbus, Ohio.



Left: Damage near Shadyside. Above: Aftermath of flash flood along Wegee Creek. Although many vehicles were swept away by floodwaters, no known fatalities occurred in vehicles. Photos courtesy: Scott McCloskey; News-Register; Wheeling, West Virginia. Bottom (4 photos): Damage near Shadyside. Photos courtesy: Mike Wyatt; NWS Columbus, OHIO.





Top (left and right): Damage near Shadyside. *Photos courtesy: Mike Wyatt; NWS Columbus, Ohio.* *Above (left and right):* Car and mobile home after being washed down Doolin Run in Wetzel County, West Virginia. *Photos courtesy: Barry Harter; Wetzel Chronicle; New Martinsville, West Virginia.*

3. JUNE 1990 TORNADOES

June was a record-breaking month for tornadoes in the U.S. as the national total of 329 tornadoes broke the previous June record of 252 tornadoes (set in 1982; tornado total records begin in 1952). June state records were set in Colorado with 33 tornadoes (old

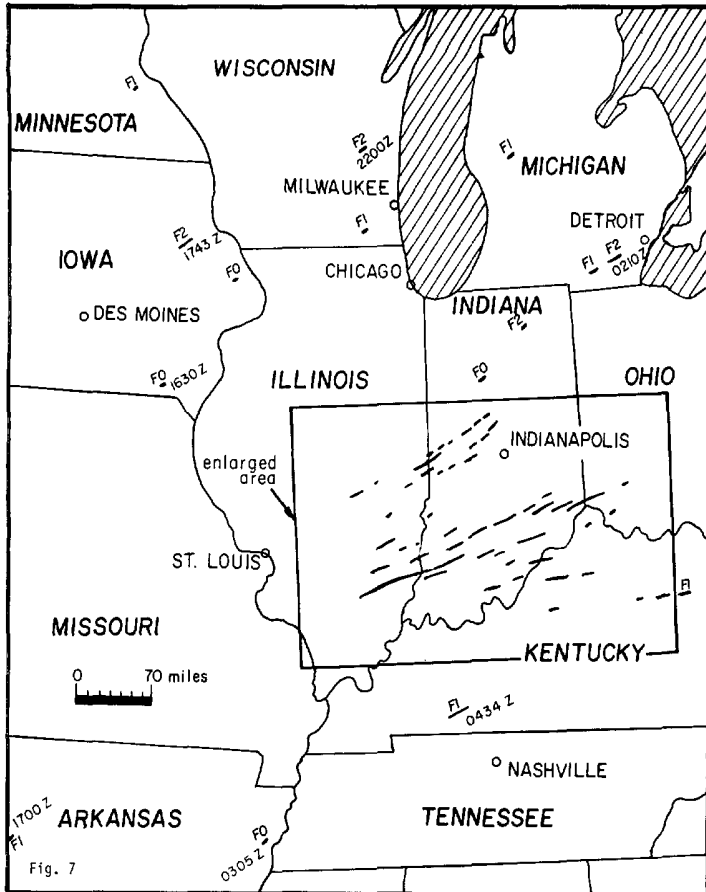
record 31 in 1982); Indiana with 44 tornadoes (old record of 30 in 1983); Kentucky with 15 tornadoes (old record of 7 in 1973); and Nebraska with 39 tornadoes (old record of 36 in 1984). Five of the June tornadoes were killer tornadoes.

3(a). OUTBREAK OF JUNE 2ND AND 3RD

On June 2-3, 1990, the largest outbreak of tornadoes since the Super Outbreak of April 3-4, 1974, produced 64 tornadoes in parts of the Midwest, Great Lakes, and Ohio River Valley (Fig. 7). The most heavily damaged area was from southeastern Illinois through southern Indiana to southwestern Ohio and north-central Kentucky, where several strong to violent tornadoes struck, including seven of F4 intensity. In the four Lower Ohio River Valley states of Illinois, Indiana, Ohio, and Kentucky, there were 55 tornadoes (see Fig. 8 and Table 2); 12 in Illinois, 37 in Indiana, 3 in Ohio, and 9 in Kentucky. Four of the Illinois tornadoes crossed the Indiana border, one Indiana tornado crossed into Ohio, and another Indiana tornado crossed into Kentucky. The aforementioned 55 tornadoes produced damage paths totaling nearly 500 miles, killed nine people (one in Illinois and eight in Indiana) and injured over 250.

Red Cross surveys of Illinois, Indiana, and Kentucky found 313 homes and 141 mobile homes destroyed and another 892 homes and 173 mobile homes damaged. Hundreds of barns and other farm buildings were also damaged or destroyed. Thousands of trees were uprooted, snapped off at the base or severely damaged.

Indiana was hardest hit. For the state, the 37 tornadoes and eight deaths made this the largest and most deadly tornado outbreak since the Super Outbreak of April 3, 1974. The event broke Indiana records for most tornadoes in a day (37 - previous record was 21 on April 3, 1974), most tornadoes in a month (44 - previous record was 30 in June 1973), and most tornado deaths in June (8 - previous record was 4 on June 20, 1942).



Above: This photo (taken near Golden Gate, Illinois shortly after the tornado formed near Barnhill, Illinois) shows one vortex to the left of the main tornado, and two apparent vortices further left over the utility pole and above the tree. Photo courtesy: Mary Hurley; Ellery, Illinois. Maps by Brian E. Smith, NSSFC, based on surveys and information from WSFOs and WSOs in Illinois, Indiana, Ohio, and Kentucky.

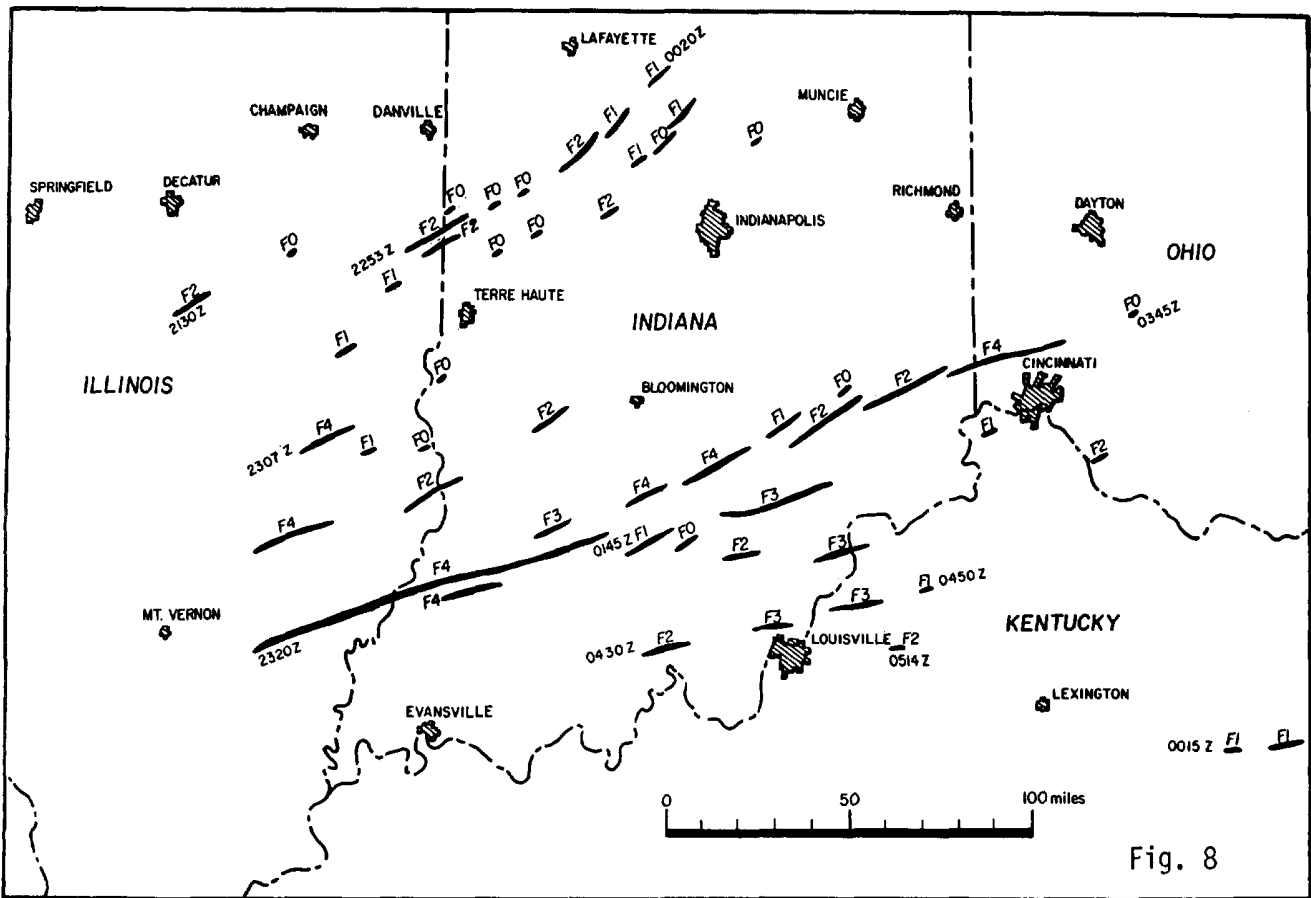


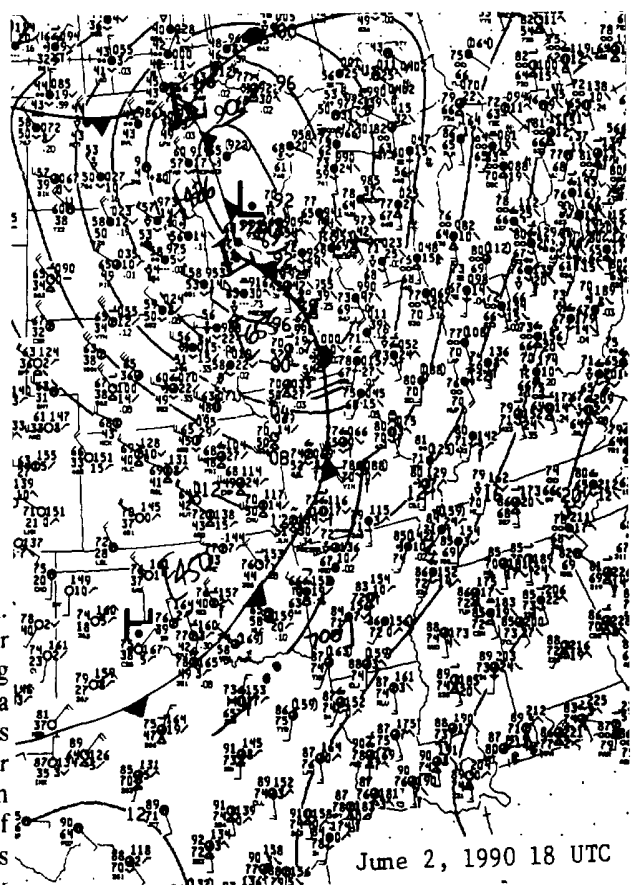
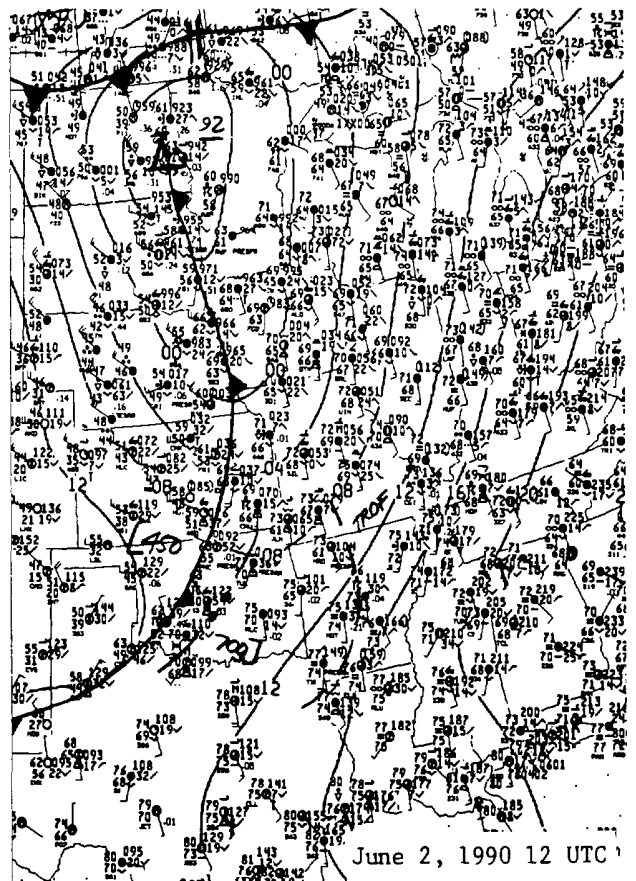
Fig. 8

Mapped by Brian E. Smith, NSSFC based on surveys and information from WSFOs and WSOs in IL, IN, OH, KY.

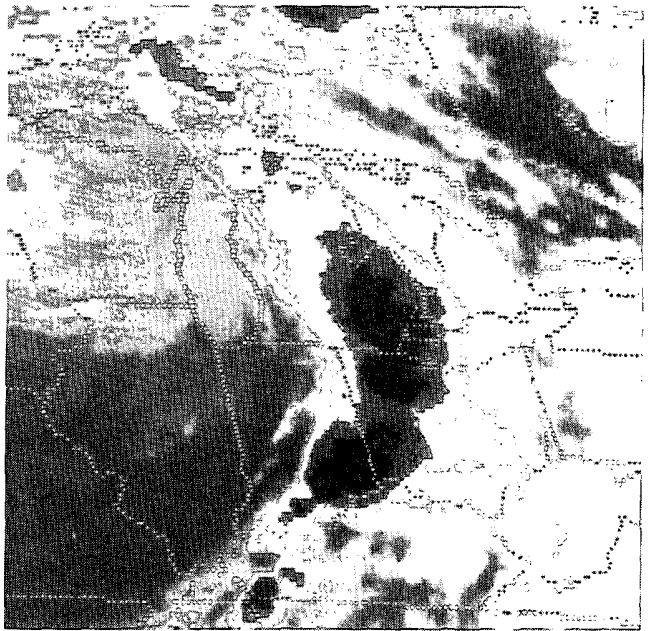
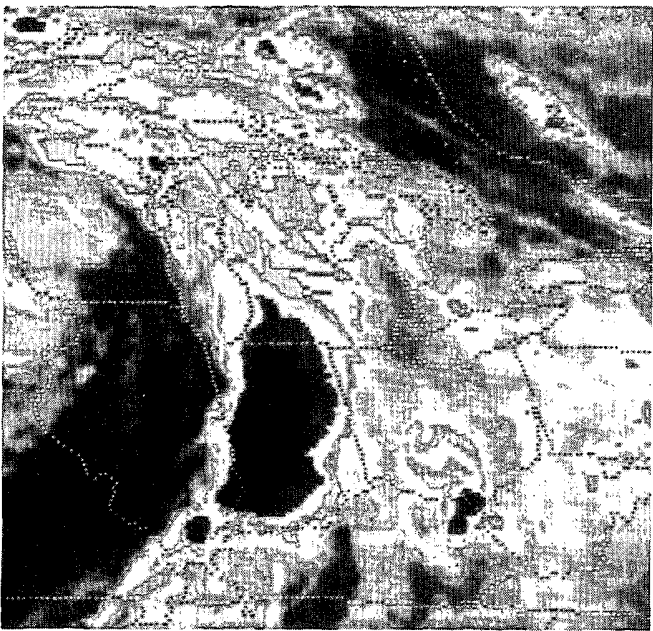
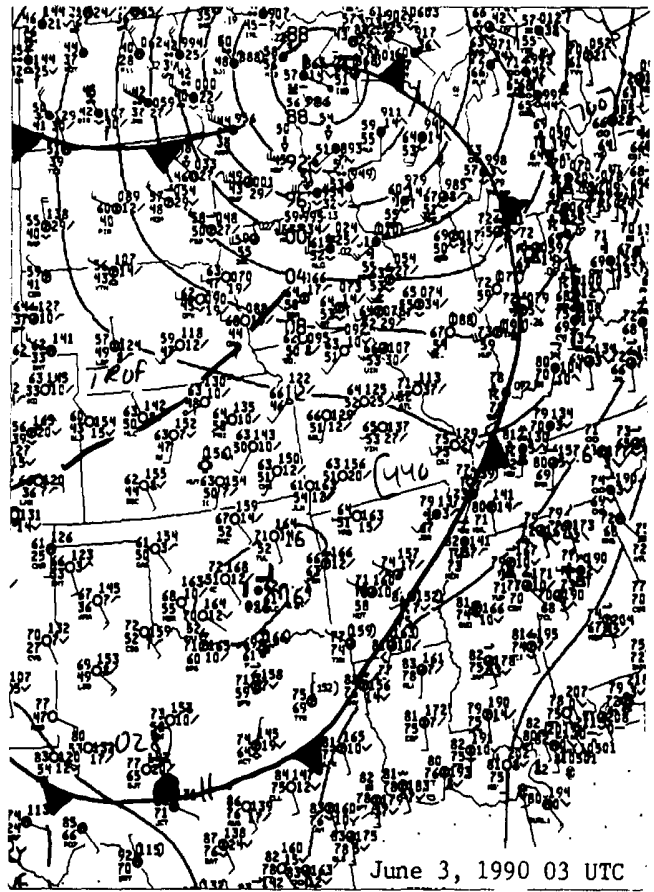
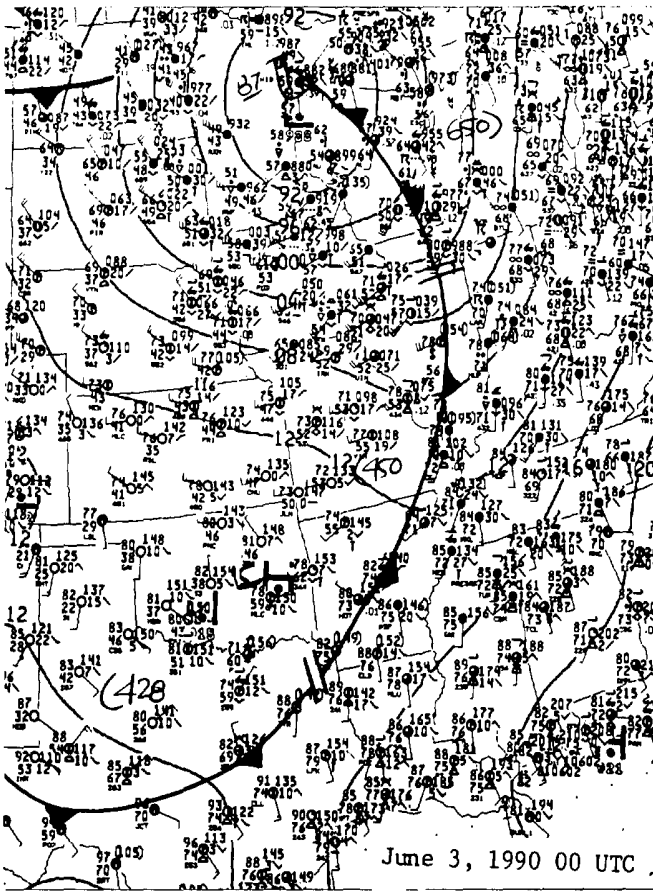
Table 2. June 2-3, 1990 TORNADOES OVER THE LOWER OHIO VALLEY

Tornado Name	F	Length	Dead	Injured
Wolflake Tornado IN*	2	3.5	0	9
Georgetown Tornado IN*	0	0.1	0	0
Findlay Tornado IL	2	8.0	0	2
Arcola Tornado IL	0	0.5	0	0
B Horace/Dana Tornado IL/IN	2	18.0	0	0
North Dana Tornado IN	0	1.0	0	0
Annapolis Tornado IN	0	0.5	0	0
Byron Tornado IN	0	0.2	0	0
Crawfordsville Tornado IN	2	10.0	0	12
Thorntown Tornado IN	1	4.5	0	1
Frankfort Tornado IN	1	6.0	0	0
C Grandview Tornado IL	2	11.0	0	0
Paris/St. Bernice Tornado IL/IN	2	8.0	0	6
Lebanon Tornado IN	1	0.5	0	0
Gadsden Tornado IN	0	6.0	0	0
Terhune Tornado IN	1	7.0	0	5
D Casey Tornado IL	1	0.5	0	0
Catlin Tornado IN	0	0.5	0	0
Hollandsburg Tornado IN	0	0.2	0	0
New Maysville Tornado IN	2	3.5	1	6
Noblesville Tornado IN	0	0.2	0	0
E Newton Tornado IL	4	12.5	0	6
Fairbanks Tornado IN	0	0.1	0	0
Oblong Tornado IL	1	3.0	0	0
Palestine Tornado IL	0	3.0	0	0
F Rinard Tornado IL	4	19.0	0	2
Pinkstaff/Oaktown Tornado IL/IN	2	13.0	0	1
Switz City Tornado IN	2	10.0	0	0
G Loogootee tornado IN	3	7.0	0	0
Bedford Tornado IN	4	11.0	1	51
Clear Spring Tornado IN	4	18.0	0	9
Reddington Tornado IN	1	10.0	0	2
Westport Tornado IN	0	0.1	0	0
Hayden Tornado IN	2	18.0	0	0
Holton Tornado IN	2	25.0	0	3
Bright/Harrison Tornado IN/OH	4	28.0	0	37
Clarksville Tornado OH	0	1.0	0	0
Barnhill/Hazleton Tornado IL/IN	4	94.0	1	13
Orangeville Tornado IN	1	11.5	0	0
Campbellsburg Tornado IN	0	3.5	0	0
Muscatauck River Tornado IN	3	29.0	0	0
Burlington Tornado KY	1	0.8	0	0
Petersburg Tornado IN	4	13.0	6	60
Salem Tornado IN	2	4.5	0	2
Marysville/Bedford Tornado IN/KY	3	17.0	0	5
Point Pleasant Tornado OH	2	4.0	0	0
Carefree Tornado IN	2	11.0	0	9
Floyds Knobs Tornado IN	3	12.0	0	7
La Grange Tornado KY	3	9.0	0	5
Franklinton Tornado IN	1	1.0	0	0
Shelbyville Tornado KY	2	1.0	0	0
Allensville Tornado KY *	1	10.0	0	0
Pomeroyton Tornado KY #	1	2.0	0	0
Grassy Creek Tornado KY #	1	6.0	0	0
Flatgap Tornado KY * #	1	1.0	0	0
TOTAL: 55 Tornadoes		498.7	9	253

* Not shown on enlarged area map of Lower Ohio Valley
 # Eastern Kentucky tornadoes associated with separate squall line
 Tornado numbers correspond to supercells in radar presentation on Page 15.



The surface weather maps for June 2nd at 12 UTC (7:00 a.m. EST) and 1800 UTC (1:00 p.m. EST) show warm, moist air over the Ohio River Valley. A strong cold front was advancing east into the Midwest. At 0700 UTC (2:00 a.m. EST), a Convective Outlook was issued by the National Severe Storms Forecast Center (NSSF) stressing the likelihood of a major tornado outbreak by forecasting a HIGH risk for "...the eastern portions of the mid-Mississippi Valley and the western half of the Ohio Valley this afternoon and evening." The update of this outlook at 1500 UTC (10:00 a.m. EST) continued the HIGH risk forecast and included the statement: "Destructive tornadoes are likely with these thunderstorms, so strongly worded public awareness statements are in order today to emphasize this threatening situation." *Maps courtesy: National Climatic Data Center.*

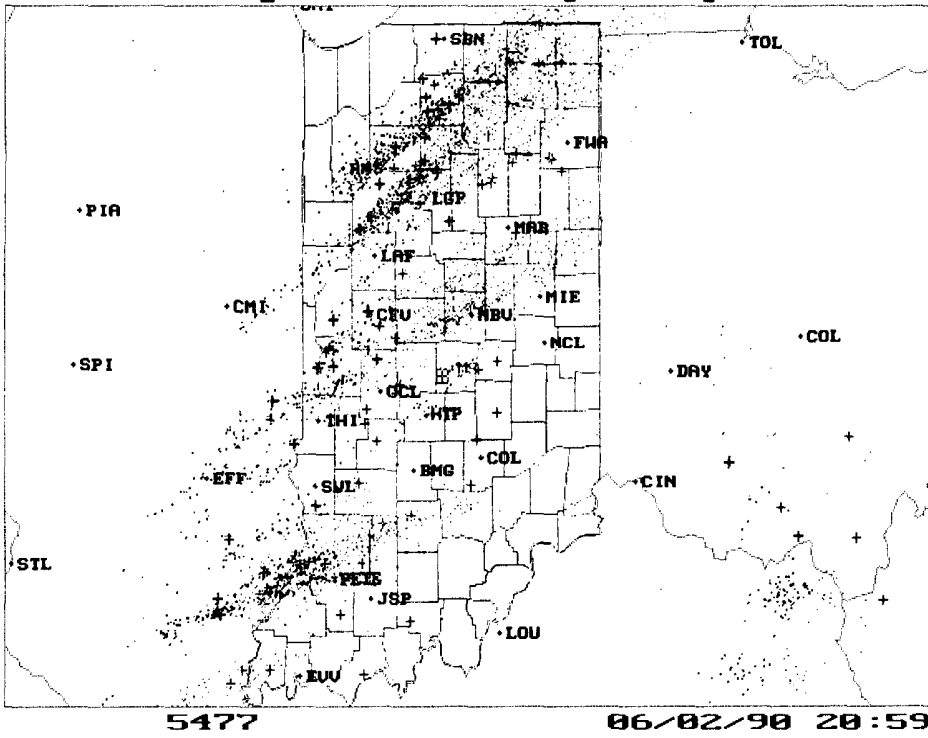


By midafternoon, a squall line began to develop ahead of the cold front over central and southern Illinois. Thunderstorms exploded across east-central and southeastern Illinois in the late afternoon--spawning several tornadoes. Severe storms raced northeast and east across Indiana during the evening at about 50 mph, and continued into southeastern Indiana, southwestern Ohio, and north-central Kentucky in the late evening and early morning hours. *Maps courtesy: National Climatic Data*

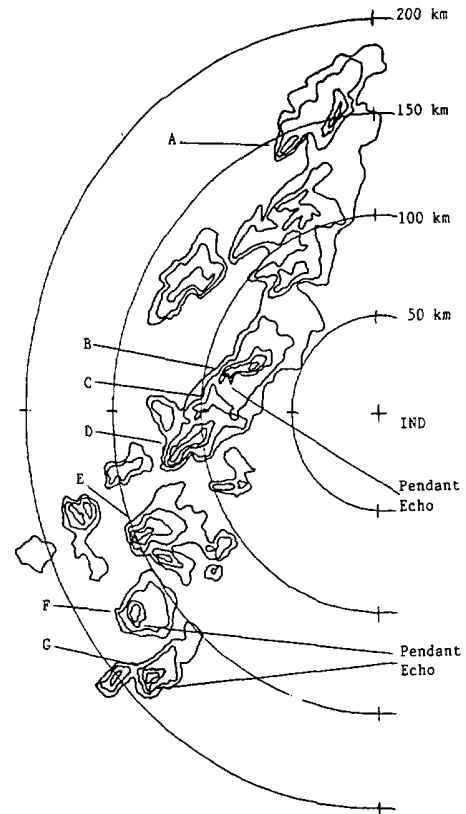
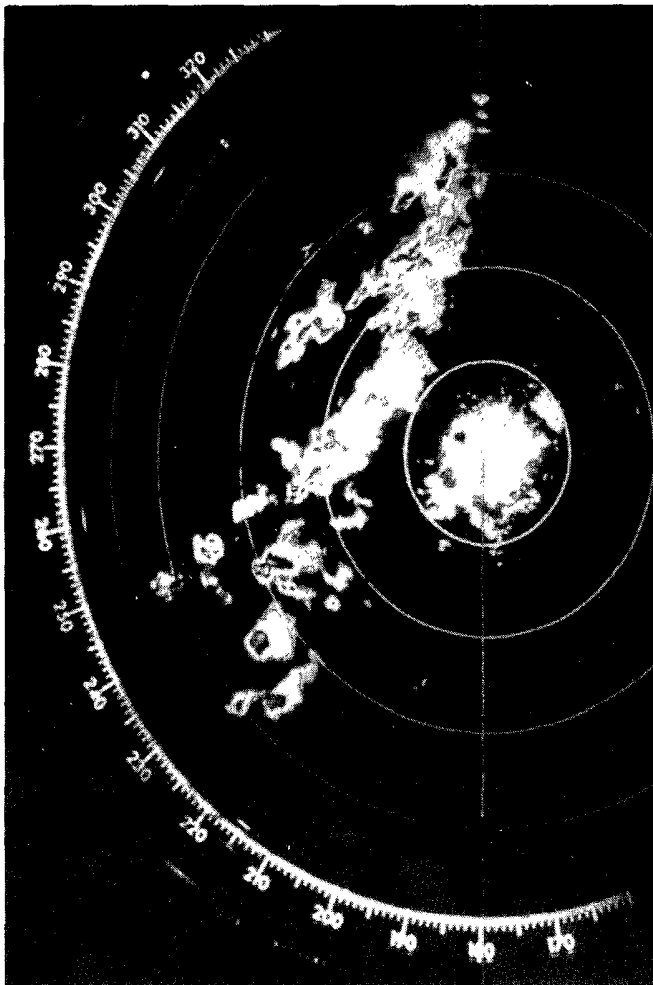
Center; satellite photos courtesy: NSSFC.

A total of 10 tornado watches were issued by NSSFC during the afternoon and evening. All the deaths (Table 2) occurred in tornado watches; the deaths occurred at least 4 hours after watch issuance. These watches carried the seldom used phrase: "This is a particularly dangerous situation with the possibility of very damaging tornadoes."

SUNY-Albany National Lightning Network



Left: The lightning detection graphic shows the location of cloud to ground lightning strokes from 2300 UTC (6:00 p.m. EST) to 0159 UTC (8:59 p.m. EST). The paths of individual storms show up well. *Courtesy:* State University of New York-Albany (research funded by Electric Power Research Institute, Palo Alto, CA). *Below (left):* Indianapolis (Indiana) WSR-74C radar presentation at 2307 UTC (6:08 p.m. EST). *Below (right):* Tracing from the same WSR-74C radar presentation. *Radar picture and tracing courtesy:* Ron Przybylinski; NWS Indianapolis, IN.



2 June 1990
2328 UTC
WSFO IND
EL 0.5

Reflectivity contours
VIP levels 1 - 5

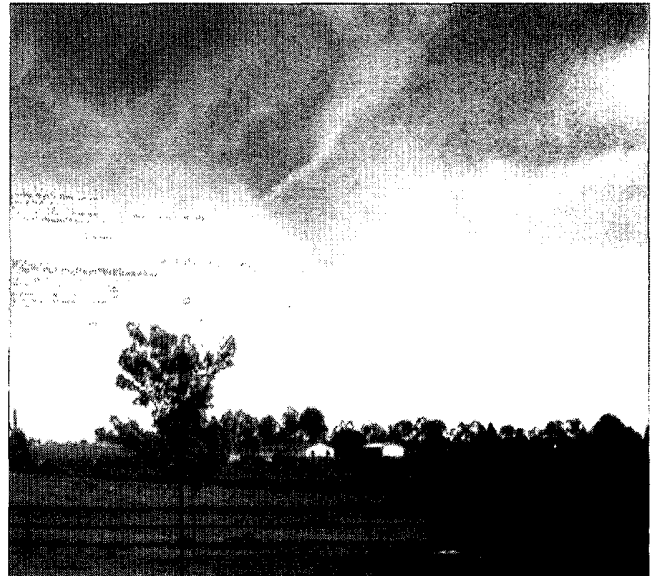
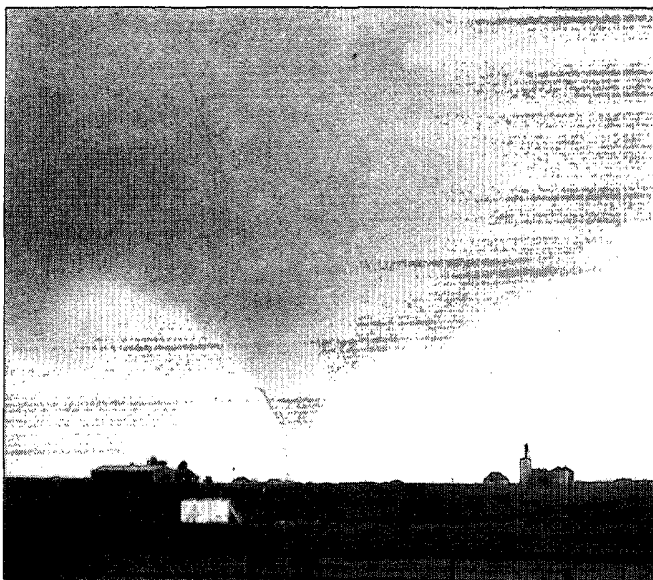
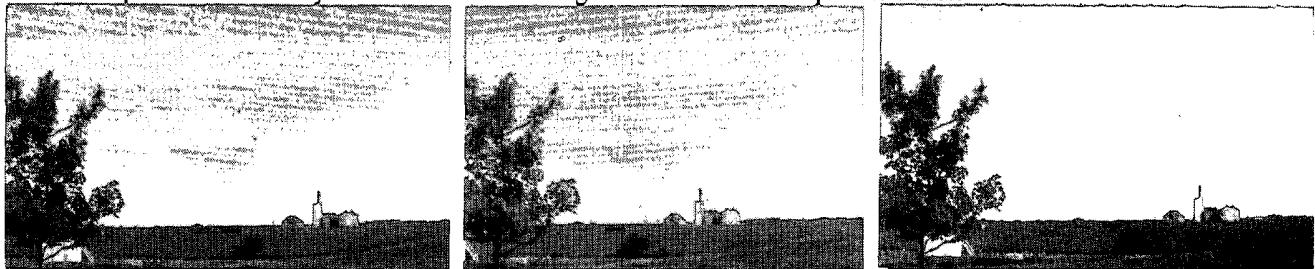
The 2328 UTC (6:28 p.m. EST) radar presentation and tracing (opposite page) shows seven supercells (A through G; see table on page 13 which identifies tornadic supercells B through G). Supercell B which spawned the Dana, Indiana tornadoes generated a family of tornadoes across west-central Indiana, including the F2 intensity Crawfordsville, Indiana tornado. At 6:28 p.m. EST Cell B was approximately 15 miles southwest of Crawfordsville. The pendant echo located near the right rear flank of the storm was partially manifested in moderate precipitation. Witnesses south and east of Crawfordsville observed moderate to heavy precipitation swirling around the large vortex. Further upstream, Cell C produced additional weak F0 and F1 tornadoes near Lebanon and Terhune, Indiana. This storm cell continued to show subtle echo characteristics compared with its neighbors. Supercell D, located 110 km west of Indianapolis, maintained strong classic supercell characteristics as it moved rapidly across west-central Indiana. This storm spawned the New Maysville, Indiana tornado which reached strong F2 intensity. One of the nine fatalities reported the evening of June 2nd was linked to this tornado about 3 miles northeast of New Maysville, Indiana.

Further south, Supercell E, located 150 km west-southwest of Indianapolis, weakened as it traveled across west-central Indiana. This storm produced a second weak tornado near Fairbanks, Indiana. Weaker convective cells south and east of the parent storm likely inhibited the inflow region

of this storm.

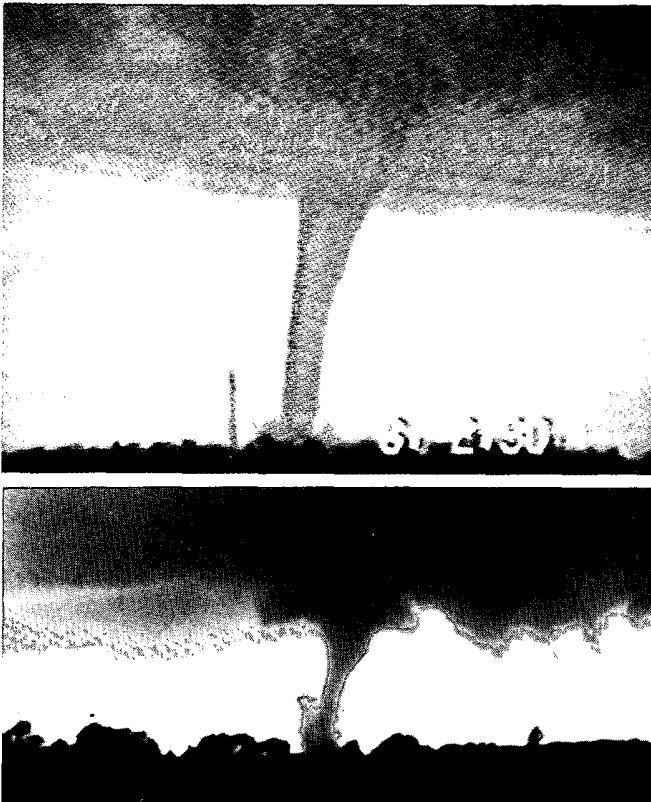
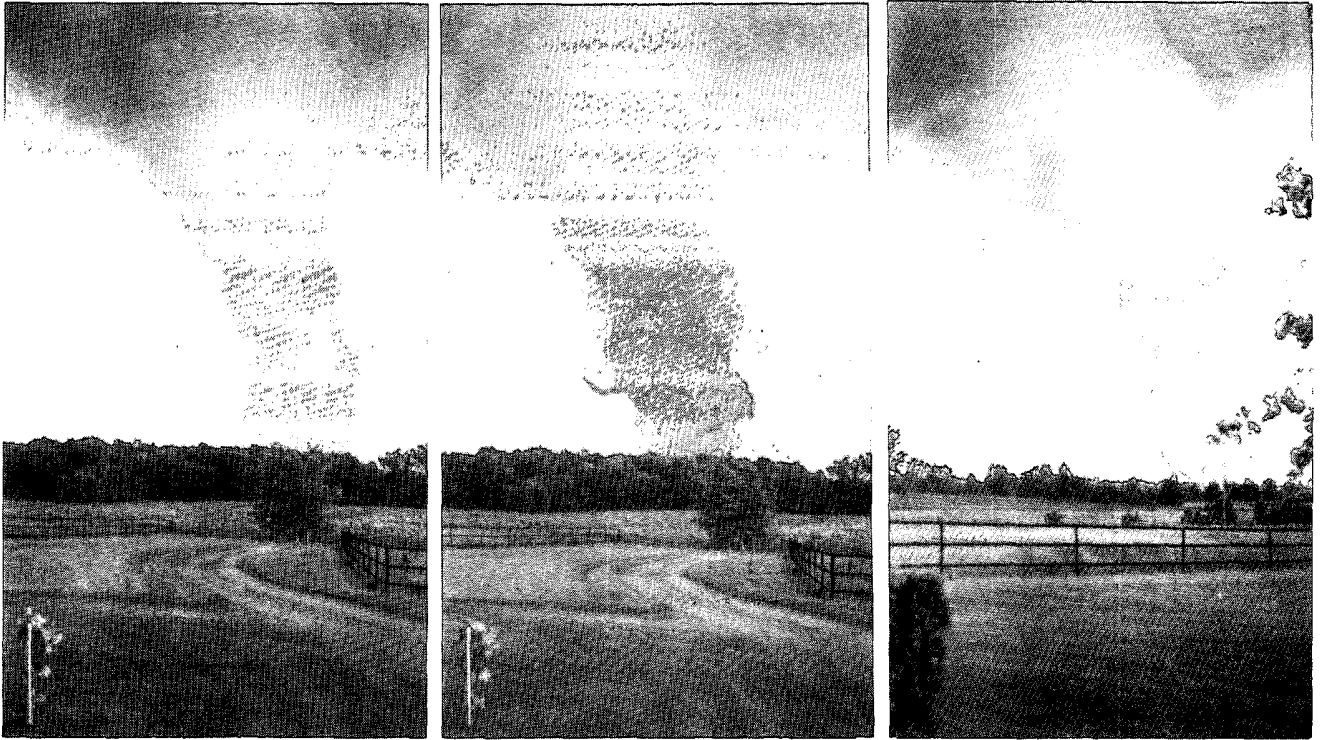
Supercells F and G located 150 and 200 km southwest of Indianapolis at 6:28 p.m. EST spawned several strong tornadoes over parts of southwest and south-central Indiana. Both storms displayed nearly classic supercell structure (shown at this time) to HP ("heavy precipitation" or "wet") structure after 8:30 p.m. EST. Pendant echoes were identified near the southern flank of both storms at this time. Supercell F, which spawned the Worthington Indiana tornado, weakened after 8:00 p.m. EST. In contrast, Supercell G maintained quasi-steady state characteristics and vigor through midnight as it moved across south-central Indiana. This storm spawned a family of tornadoes including: (1) Montgomery-Loogootee tornado (F3); (2) Bedford, Indiana tornado (F4); (3) Clear Springs tornado (F4); (4) Reddington tornado (F1); (5) Hayden tornado (F2); (6) Holton tornado (F2); and (7) the Bright, Indiana tornado (F4). Several tornadoes associated with Supercell G after 9:00 p.m. EST were partially obscured by moderate to heavy rainfall.

The radar echo pattern of Cell G at 6:28 p.m. EST was one of the nearly classic supercell structure. A well-defined pendant echo and inflow notch located near the southern flank of the storm was noted at this time. The first tornado (Montgomery-Loogootee tornado) occurred about 45 minutes after the identification of the pendant echo and supercell structure.



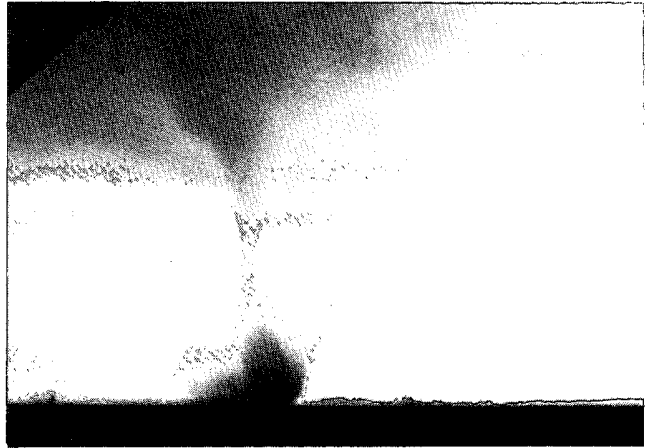
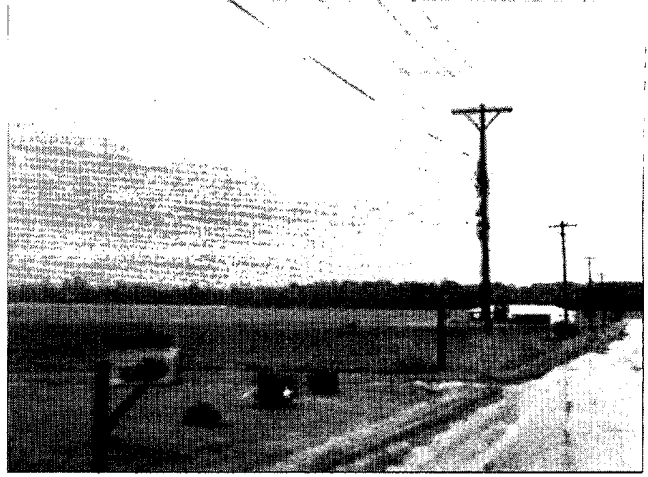
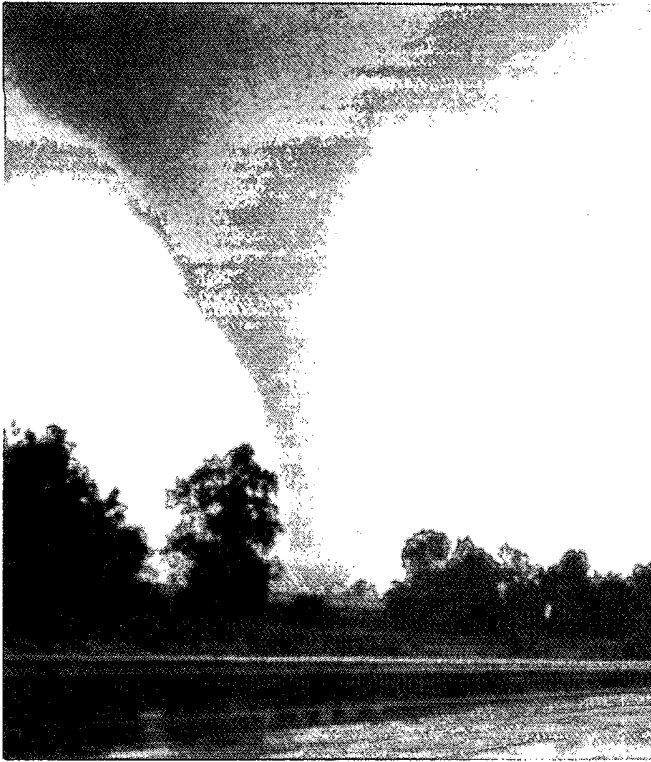
The above pictures show the tornado which produced the longest continuous damage track of the outbreak. It touched down near Barnhill, Illinois and lifted 94 miles later in Lawrence County, Indiana. F4 damage was produced at times by this tornado. The sequence begins by

looking southwest at the approaching tornado which eventually passes within 1 mile to the south of the photographer. The photo site is near Golden Gate, Illinois.

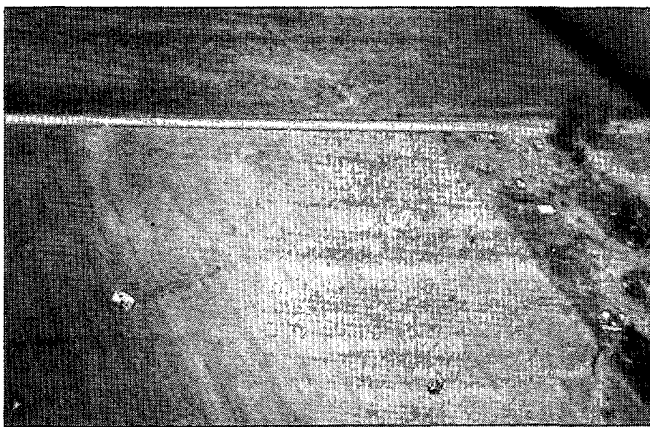
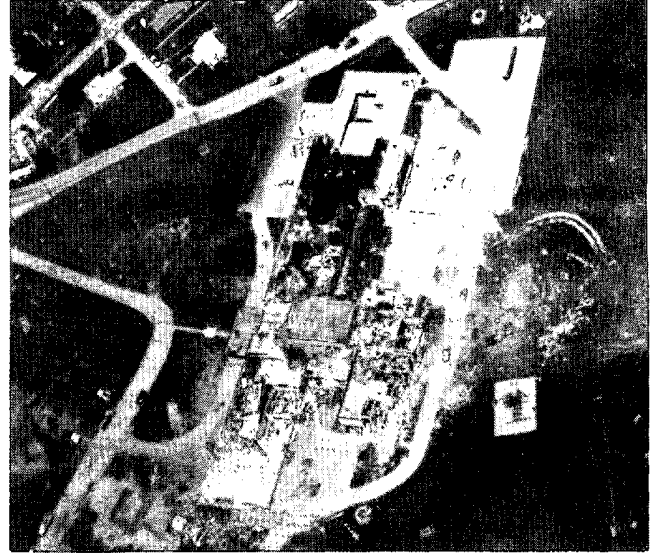


Top (3 photos): Continuation of photos from the preceding page. (The photo on page 12 was taken immediately after the top, middle photo.) The "satellite" tornadoes pictured on some of these photos were noted in at least three of the tornadoes produced by this outbreak. These "satellite"

tornadoes were mostly weak (F0), 20 to 30 yards wide, and had paths 1 to 3 miles long. The damage paths were evident only on the south side of the larger tornadoes. *Photos courtesy: Mary Hurley, Ellery, Illinois. Left (center):* The same tornado near Browns, Illinois; the only fatality produced by the storm occurred near Browns. *Photo courtesy: Mary Fran Messman; Browns, Illinois. Right:* The same tornado as it struck Mt. Carmel, Illinois. *Photo courtesy: Larry Reynolds; Mt. Carmel (Illinois) Daily Republican. Left (Bottom):* This strong (F3) tornado formed just north of Montgomery, Indiana and passed just north of Loogootee. The thunderstorm which produced this tornado produced eight more tornadoes, including violent (F4) tornadoes at Bedford, Indiana; northwest of Brownstone, Indiana; and from Bright, Indiana to Harrison, Ohio. *Photo courtesy: Deputy Tony Dant; Martin County (Indiana) Sheriff's Department.*



Top (left): Looking south-southwest from just southwest of Worthington, Indiana at an F2 tornado. *Photo courtesy: David Clary; Worthington.* **Top (right):** The same tornado as seen from two miles northeast of Linton, Indiana, looking east-northeast. The tornado was midway between Switz City and Worthington. *Photo courtesy: Dick Gray; Linton.* **Right (middle) and left (bottom):** This strong (F2) tornado picked up a lot of dirt, but did little damage as it moved across an open field just south of Dana, Indiana. It was the first of 37 tornadoes to hit Indiana on June 2nd, having touched down first near Horace, Illinois. The parent thunderstorm produced another F2 tornado near Crawfordsville, Indiana about an hour later. *Photo courtesy: Charlene Androuskey; Dana.* **Right (bottom):** The F2 tornado which touched down near Crawfordsville tracked to near Darlington, Indiana, where it threw a doublewide mobile home across the road, which then disintegrated. The frame can be seen in the background. The six occupants were injured, one seriously. *Photo courtesy: Jim Allsopp; NWS Indianapolis.*



Top (left): Tornado damage west of Brownstown, IN. *Photo courtesy: Aubrey M. Woods; Seymour (Indiana) Daily Tribune.* *Top (right):* The essentially destroyed elementary school on the southeast side of Petersburg, IN. The tornado which caused this damage (F4 at times) killed seven people, making it Indiana's deadliest tornado since April 3, 1974. *Left:* Oil barrel blown across an open field east of Rinard in northern Wayne County, IL. *Photos courtesy: NWS Evansville, IN; aerial surveys courtesy Indiana State Police*

and Illinois State Police. *Right (Middle):* F4 damage to shops and apartment buildings just north of the intersection of Indiana 37 and US-50 on the southern edge of Bedford, IN. The tornado was 0.5 miles wide at this point. *Photo courtesy: Ron Przybylinski; NWS Indianapolis.* *Left:* Brick homes leveled to the foundation (F4 damage) at Still Meadows, IN, near Bright, IN. *Right (bottom):* This mobile home was destroyed at New Baltimore, OH by the Bright tornado; the plants sitting on a slab on empty cans (lower right) were untouched. *Left (bottom):* Twenty-five planes were damaged or destroyed at the airport in Harrison, OH by the same tornado. *Photos courtesy: Phillip Manuel, NWS Cincinnati.*



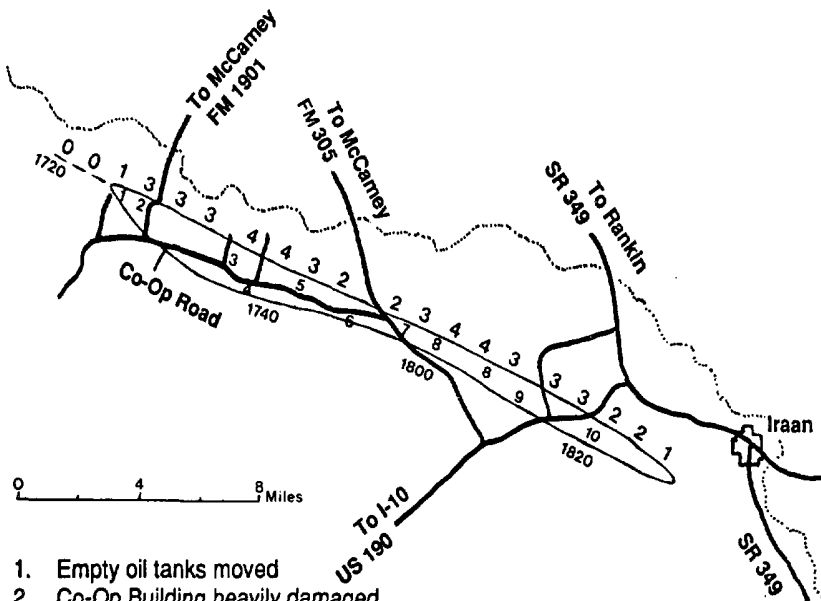
Left: This 75-foot-tall Waffle House sign at Harrison, Ohio was bent to the ground. The supports were 18 inches wide, made of 5/8-inch-thick steel, and buried in 12 feet of concrete. The sign was engineered to withstand 250 mph straight-line winds. *Photo courtesy: Phillip Manuel, NWS Cincinnati.*

3(b). THE BAKERSFIELD VALLEY (TEXAS) TORNADO OF JUNE 1ST

Five tornadoes struck parts of southwestern Texas (to the south and southwest of Midland--generally within about 15 miles of the Pecos River) during the afternoon and evening of June 1, 1990 (see Fig. 9). By far the worst was the violent (F4) tornado which passed directly over the unincorporated community of

Bakersfield Valley (BV for brevity). The BV tornado killed two people and injured 21; its track length was almost 22 miles, with an average path width of 0.7 miles--varying from 0.3 to 1.3 miles (see Fig. 10). Although no known pictures of the tornado exist, eye witnesses described the tornado as a low, turbulent, debris-filled cylinder extending to the cloud base. Nearly 60 vehicles were destroyed by the tornado; some motorists drove into the tornado--apparently unable to discern it due to the precipitation in which it was embedded.

The BV tornado is the most intense and longest-lived tornado documented west of the Pecos River in Texas. The BV tornado removed nearly 300 feet of blacktop asphalt from Co-Op Road, about three miles west of Farm-to-Market Road 305; 1 mile further east, two smaller patches of asphalt were also removed by the tornado. No evidence was found of asphalt removal by flooding or missiles. The BV tornado also rolled two oil tanks (full with 500 barrels of oil and weighing about 90 tons each) a distance of 3 miles; the tanks came to rest 600 feet up the side of a mountain with approximately a 40-degree incline. A total of 57 pump jacks (oil well pumps) were also destroyed or damaged south of US-190.



1. Empty oil tanks moved
2. Co-Op Building heavily damaged
3. Foster residence and outbuildings heavily damaged
4. McKenzie residence destroyed
5. 300 ft. asphalt removed
6. Vehicle fatality
7. Vehicle fatality
8. 500-barrel oil tanks moved 3 mi.
9. Tucker residence destroyed
10. 57 pump jacks damaged/destroyed

Path Length = 22 miles
 Avg. Path Width = 0.7 miles
 Maximum Path Width = 1.3 miles

Fig. 10

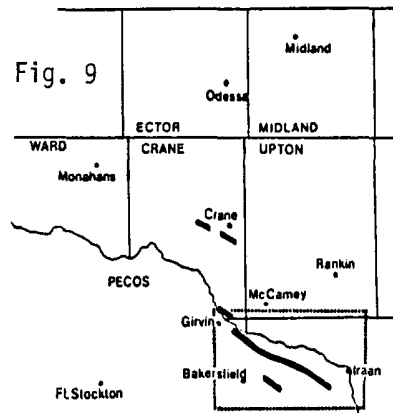
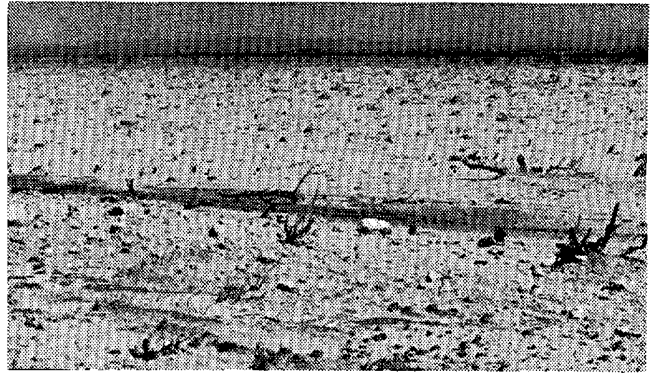
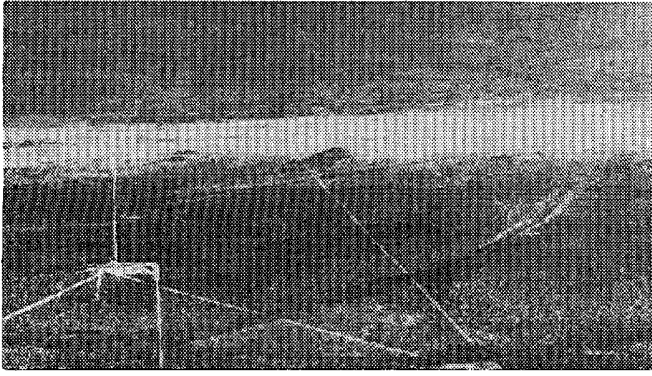
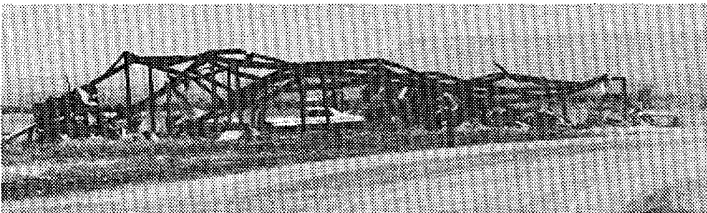
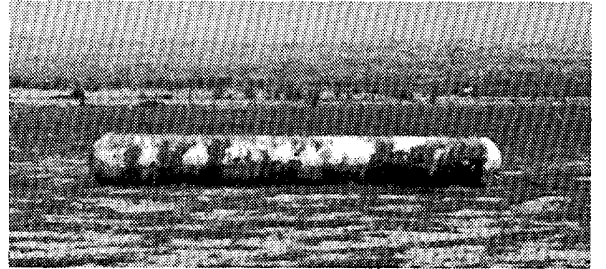
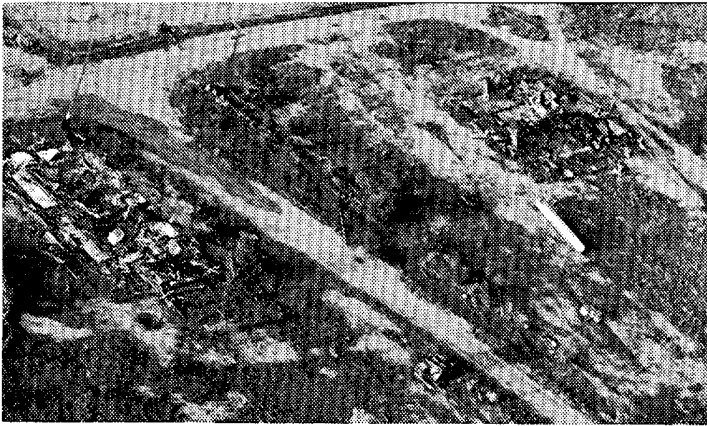


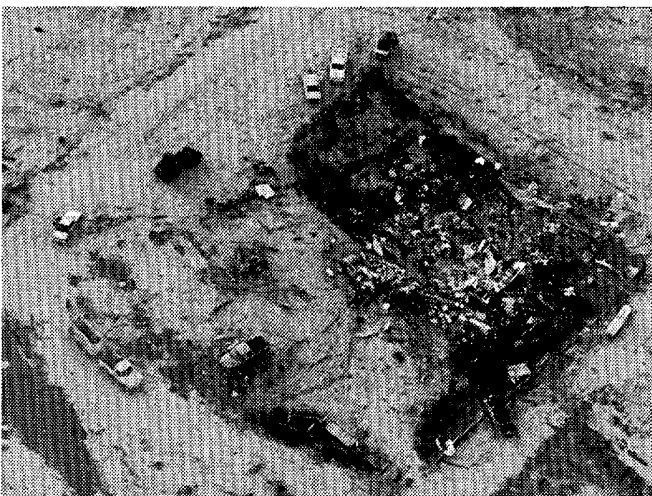
Fig. 9: Location of five southwest Texas tornadoes. Dashed box indicated approximate area of Fig. 10. *Fig. 10:* Damage track of BV tornado. Numbers inside track indicate documented damage. Numbers above track denote estimated intensity, and numbers below track indicate approximate time (CDT). *Figures courtesy: John Wright, MIC-WSO Midland; and Gary Woodall, WPM-WSFO Lubbock.*

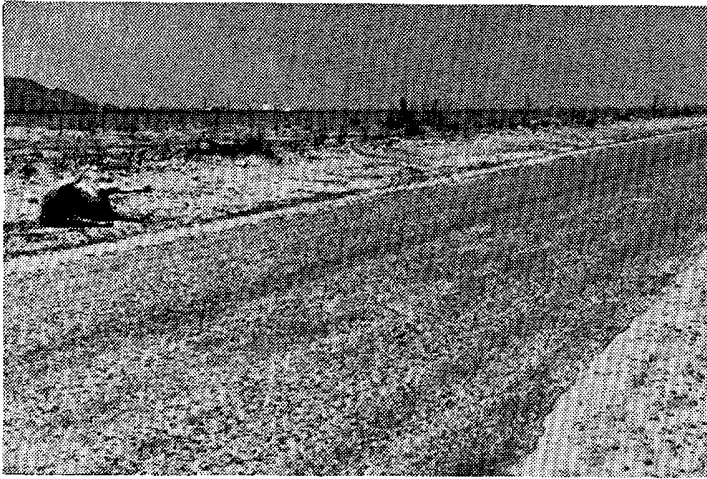


Above (left): The "light" strip from left to right in this aerial photograph indicates the path of the tornado. *Above (right):* The scouring action of the tornado left only a few rocks and an occasional greasewood or mesquite stump.

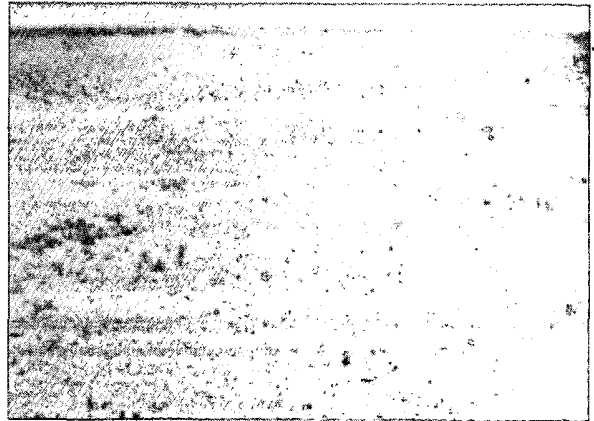


Clockwise (from above-left): Damage (some F3) to the Bakersfield Co-Op and gin. The anhydrous ammonia tank was moved some distance from the Co-Op. Note also some scouring of vegetation. *Below (left and right):* F4 damage to the McKenzie home--which was originally a two-story house constructed of solid adobe brick. The McKenzies were at home and survived by lying down in the interior hallway of the first floor. The commode was found 3 miles from the house.





Top (left): The tornado removed the top layer of asphalt from this roadway. *Top (right):* Not a tumbleweed...but a mass of wire which collected debris as it was apparently rolled and tumbled by the tornado. *Left (center):* The cement in this irrigation ditch was shattered and tossed about by the tornado. *Left (bottom):* Numerous oil wells were damaged with pump jacks being overturned. Oil storage tanks were moved, causing some oil spills. *These photos and photos on preceding page courtesy: Wayne Green; Iraan (Texas) News.*



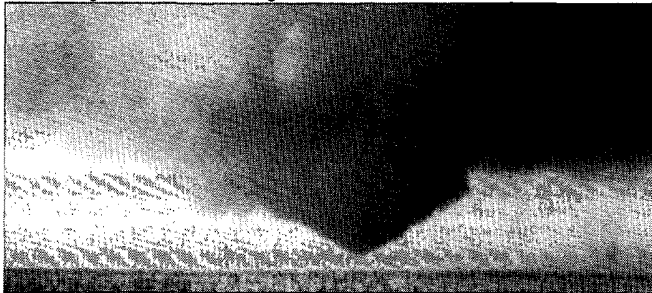
Right (middle): The path of an oil storage tank (full with 500 barrels of oil and weighing 90 tons) shows as the light swath from the lower right to near the top of the photo. It came to rest 600 feet up a slope with a 40 degree incline--after being rolled about 3 miles. *Right:* Four people survived the tornado by hiding under a sofa in the Foster home. *Photos courtesy: Gary Woodall; WPM-WSFO Lubbock.*



3(c). EASTERN COLORADO TORNADOES OF JUNE 6TH

Severe thunderstorms produced numerous reports of large hail, torrential rains, and nine tornadoes across scattered sections of the High Plains of eastern Colorado (mainly well east of the Denver and Colorado Springs metropolitan areas) during the late afternoon into the nighttime hours of June 6, 1990. The most damaging tornado scored a direct hit on Limon just after 7:00 p.m. MST. Two hundred

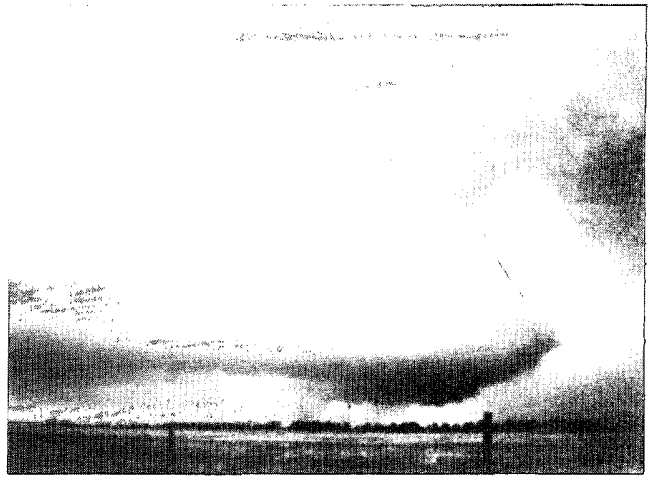
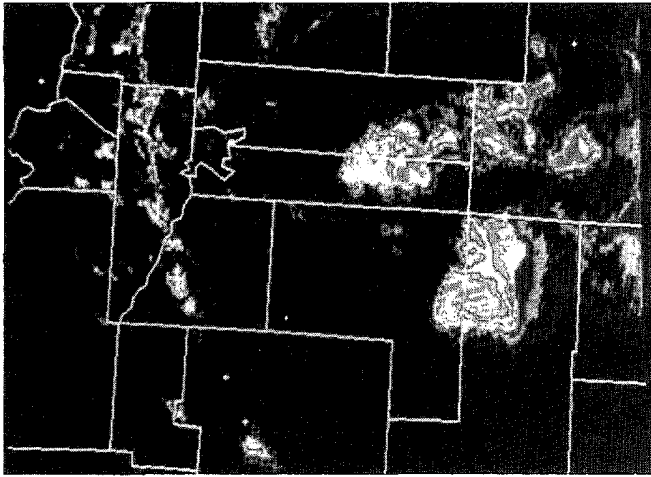
twenty-eight of the town's homes and trailers were either damaged or destroyed by the tornado; nearly 80% of the central business district was destroyed. Hail also damaged at least the roofs of over 90% of the houses in Limon. Total losses in the Limon vicinity were estimated at \$12.8 million; 14 people were injured by the tornado.



Above (left): View of mesocyclone and its funnel about to touch down at 6:07 p.m. MST about 11 miles WSW of Limon (look NNW from a position on US-24 about 2.5 miles from the storm). *Above (right):* Zoomed-in view (at 6:11 p.m. MST) from the same site as the previous picture. This tornado dissipated by 6:17 MST, but the same mesocyclone moved ENE and produced the tornado which struck Limon just after 7:00 p.m. MST. *Photos courtesy and ©: Eugene W. McCaul, Jr.*



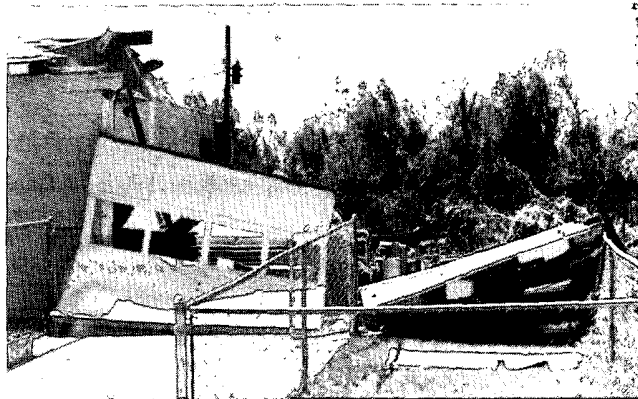
Middle: Looking west from 5 miles south of Limon at 6:38 p.m. MST. Easterly inflow into the storm was averaging about 45 mph at this time. *Photo mosaic courtesy: Richard Slonaker; NOAA/FSL.* *Above:* The tornado which hit Limon, from a site about 13 miles southeast of Limon. *Photo courtesy: Steve Albers; NOAA/FSL.*



Above (left): Mile-high radar presentation just prior to the Limon tornado. A hook echo (WSW of Limon) is evident on the southwestern flank of the southeastern storm. *Above (right):* Looking northeast at the Limon mesocyclone about 8:20 p.m. MST from 10 miles southeast of Limon. *Photo courtesy: Steve Albers; NOAA/FSL.*



Above: Residents and volunteers sift through the rubble of mobile homes in Limon's Vista Village Mobile Home Park. *Photo courtesy: The Limon (Colorado) Leader.* *Left:* Main Street in Limon the day after the tornado struck. *Photo courtesy: Charles R. Bigger; Colorado Springs (Colorado) Gazette Telegraph.*

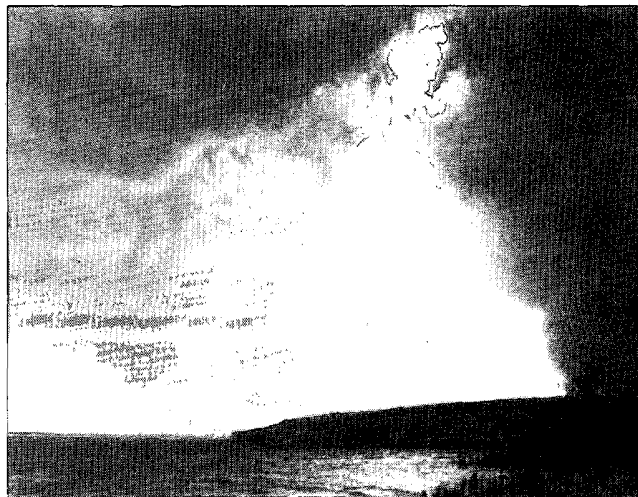


Above (left): Damage to a sales yard (left) and funeral home (right) in Limon's business district. *Above (right):* Residential damage in Limon. *Photos courtesy: Jim Taylor; Electronics Program Manager; NWS Central Region.*

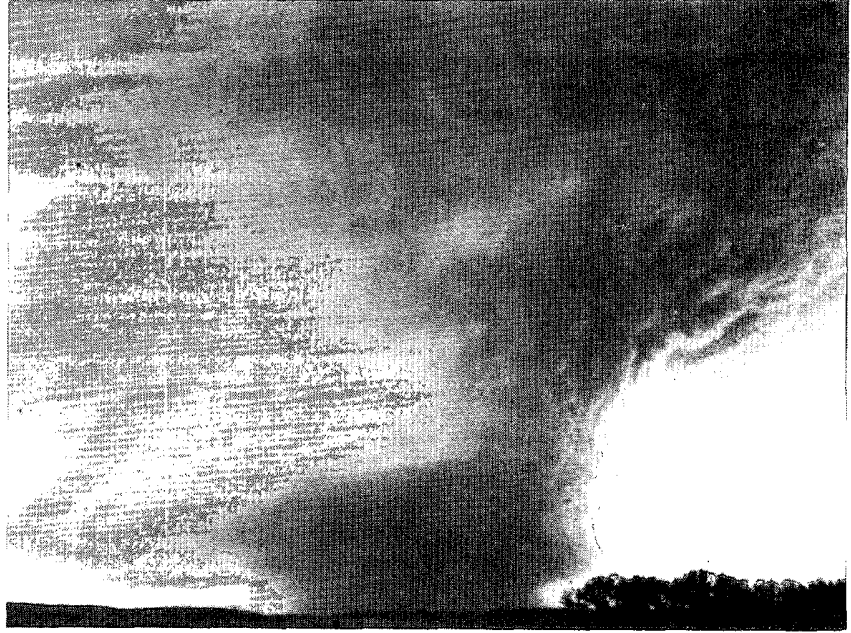
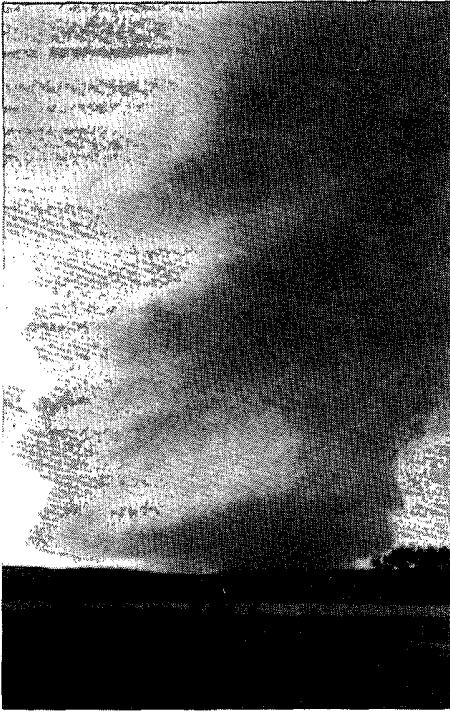
A tornado touched down (about 9:30 p.m. MST) 55 miles southwest of Limon near the small community of Rush and destroyed three trailer homes; two people were seriously injured. They were found under their waterbed some 75 feet from their trailer--three hours after the tornado had hit. *Left:* Destroyed trailer in Rush. *Photo courtesy: Bob Jackson; Colorado Springs (Colorado) Gazette Telegraph.*

3(d). SOUTHWESTERN NEBRASKA TORNADO OF JUNE 15TH

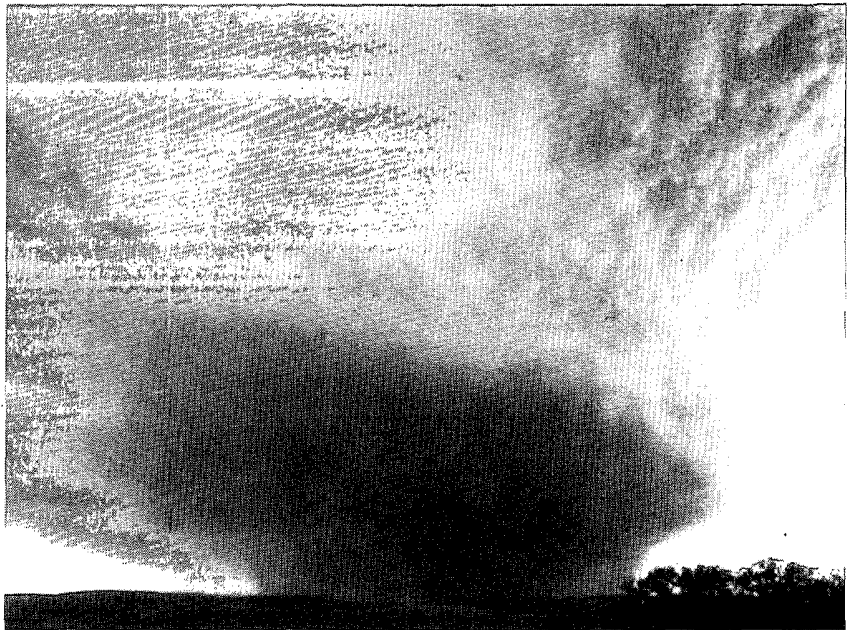
A supercell thunderstorm produced a violent (F4) tornado which tracked an occasionally 1.5-mile-wide swath across a 28-mile-long path from the northwestern edge of Stratton to 5 miles northeast of McCook on June 15, 1990. As some of the following pictures show, the mesocyclone which produced the tornado was at times unobscured by intervening low or mid-level clouds.

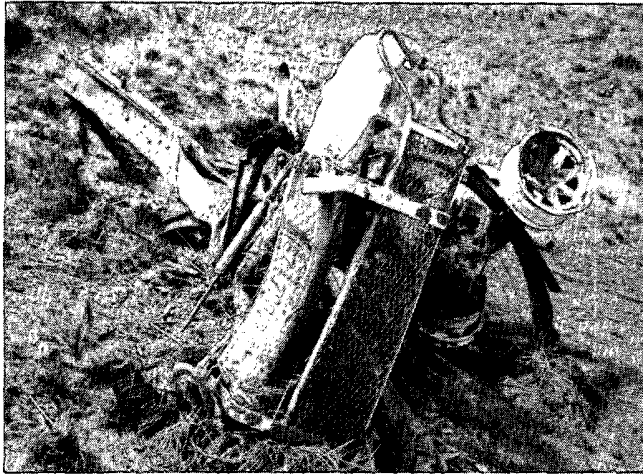


Left: Looking northwest from 2 miles east of Max, NE. The funnel (no ground contact was reported at this time) is 4 miles from the photographer. *Photo courtesy: Mrs. Clyde Brown of Max; and The Hitchcock County News; Trenton, NE.* *Above:* Looking west across the northern side of Swanson Reservoir, with the tornado on the right edge of the photo. *Photo courtesy: Ken Crawford; Oberlin, Kansas.*



Clockwise (from top-left to right-middle): Looking west at approaching tornadic mesocyclone (distances about 6 miles, 2 miles, and 1 mile) from the same site as the cover photo. *Photos courtesy: Calvin Brown of Eugene, Oregon.* *Below:* Justis Brown of rural Culbertson looks through the remains of his second-floor bedroom. *Photo courtesy: McCook (Nebraska) Daily Gazette.* *Below (right):* Looking SE (from north of Stratton) at 1.5-mile-wide tornado which is 3.5 miles distant. *Photo courtesy: Ann Sutton; Stratton, Nebraska.*

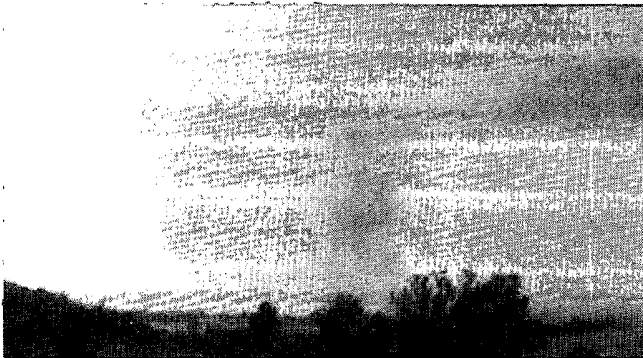




Top (left): Part of a 1978 Ford pickup - which had been in good shape. This is 0.5 mile east of its starting point. The owners also had a van for which they needed to find an identifiable part for insurance purposes; they found its fire wall 7 miles to the east. *Photo courtesy: David and Beth Hiatt; Stratton, Nebraska.* **Top (right):** The remains of the originally two-story Hidy residence early on the morning after the tornado. The tornado did the cleanup. *Photo courtesy: Jim Robison; Trenton, Nebraska.* (The site of both photos is about 3 miles north and 1 mile west of Trenton. The tornado damage occurred at about the same time that the cover photo was taken.)

4. JUNE 1990 WEATHER POTPOURRI

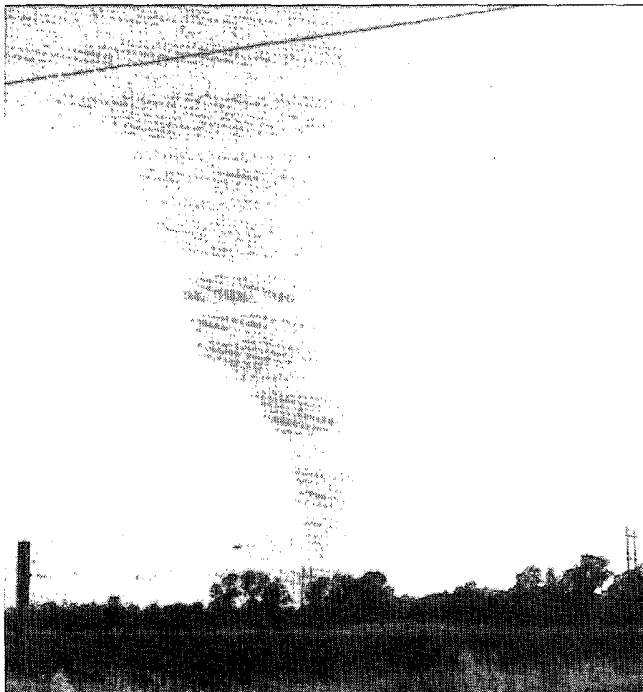
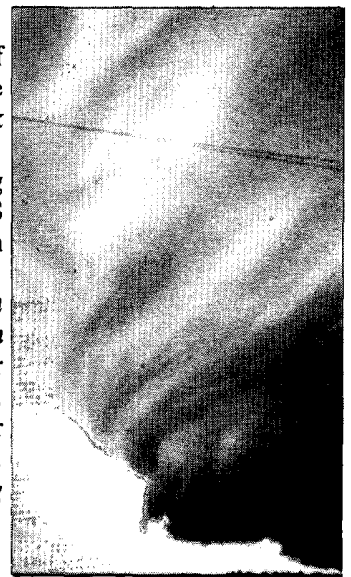
For further details concerning the following pictures, see the appropriate date and state information in the "Storm Data and Unusual Weather Phenomena" section which begins on page 31.

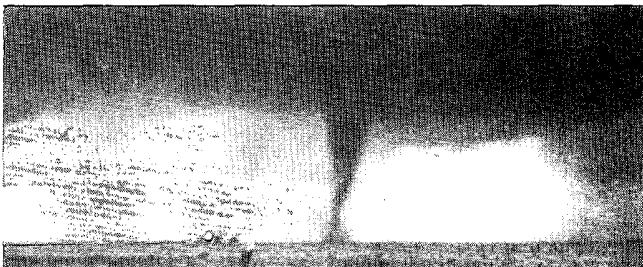
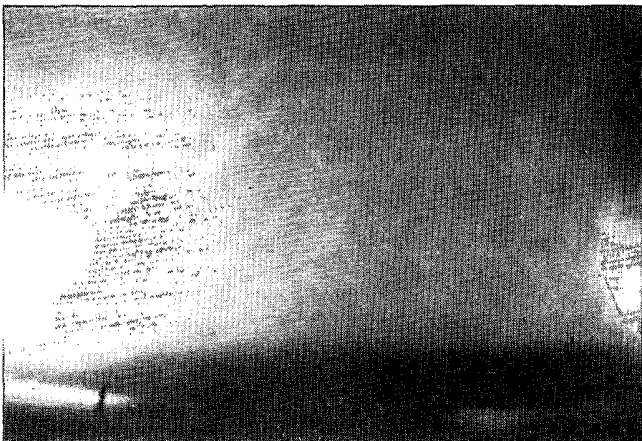


Left: F3 tornado WNW of Broken Bow, NE on June 1st. *Photo courtesy: Erik Rasmussen; Boulder, CO.*

Bottom (left): Looking southwest from Emporia, KS at approaching F2 tornado on June 7th. *Photo courtesy: Gene Morrow, Lyon County Deputy.*

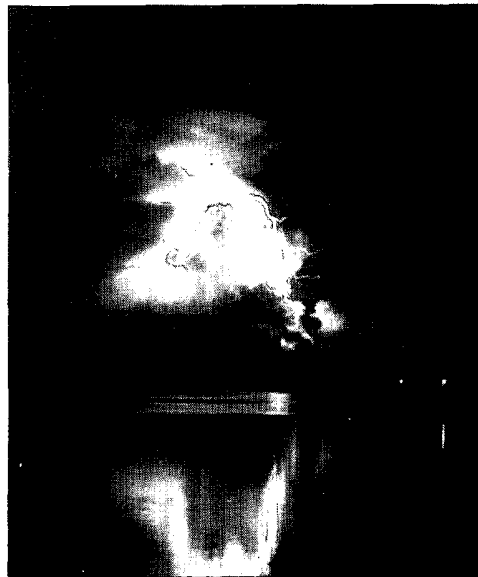
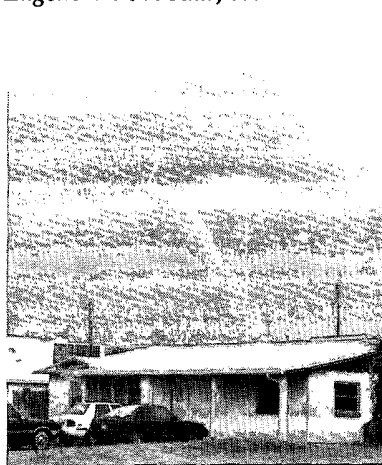
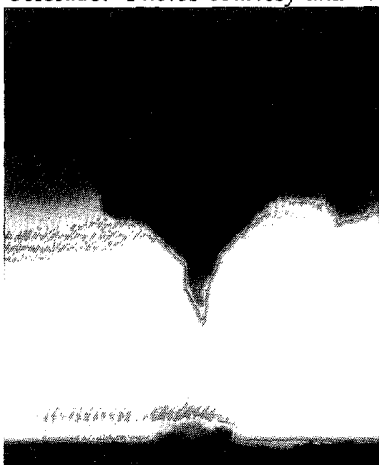
Bottom (right): Weak tornado near Overbrook, KS on June 7th. **Right:** Striated updraft near Topeka, KS on June 8th. *Photos courtesy: Doug Nelson, Alma, KS.*



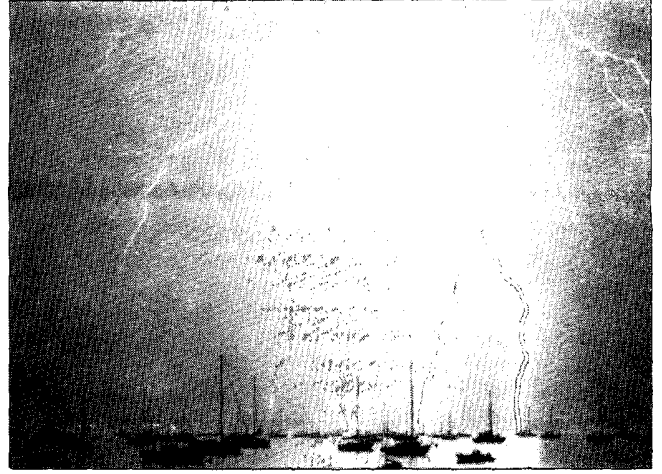


Above (left): Supercell thunderstorm near Akron, Colorado on June 14th. *Photo courtesy: Steve Albers; NOAA/FSL.* **Top (right):** Same storm looking west from the Akron Flight Service Station. *Photo courtesy: David Thede; Metropolitan State College; Denver Colorado.* **Left:** Wide-angle view of same storm looking southwest from 10 miles east of Akron at

7:15 p.m. MST. **Above:** Tornado from same storm, looking west-northwest at 7:53 MST from 8.5 miles south of Otis, Colorado. *Photos courtesy and ©: Eugene W. McCaul, Jr.*



Above (left): Tornado SW of Republican City, Nebraska at 4:37 p.m. CST on June 16th. *Photo courtesy and ©: Gene Rhoden; Norman Oklahoma.* **Above (middle):** F1 tornado over Cape Canaveral, Florida on June 24th. *Photo courtesy: Shelly Hartmann; Cape Canaveral.* **Above (right):** Lightning over the southwestern Florida Everglades on June 21st. *Photo courtesy and ©: Jack "Thunderhead" Corso; Harrison, New York.* **Left:** Thunderstorm wind damage at Stewart Air Force Base in Newburgh, New York. *Photo courtesy: Melissa Flint.*



Above (left): Thunderstorm wind damage near Mill City, Oregon on June 21st. *Photo courtesy: Tom Ainsworth, NWS Portland Oregon.* *Above (right):* Lightning to ground, lightning to water, and forked lightning to boats at City Island, Bronx, New York. *Photos courtesy and ©: Jack "Thunderhead" Corso; Harrison, New York.*

5. WESTERN UNITED STATES HEAT

June 1990 was a hot month over most of the United States; record and near record heat peaked over much of the western half of the United States generally between the 26th and the 28th. Some cities which set all-time record high temperatures (for any date) include: Phoenix, Arizona (122° on the 26th); Tucson, Arizona (117° on the 26th); Los Angeles (Civic Center), CA (112° on the 26th); Lubbock, Texas (110° on the 24th), and Pueblo, Colorado (108° on the 29th).

The table below lists the location and date of the highest temperature (if ≥ 100) for June 1990 for each state in the western half of the United States.

State	High	Date	Location
Arizona	125a	26	Litchfield Park
California	126b	26	Mecca Fire Station
Colorado	111c	28	Springfield 7 WSW
Idaho	106	30+	Swan Falls Power House
Kansas	111	28	Russell Springs
Montana	107	26	Terry
Nebraska	109	28	Beaver City
Nevada	122d	26	Laughlin
New Mexico	115e	24	Waster Isoltn Pilot Plant
Oklahoma	108	26	Chatnooga 3 NE; Weatherford
		28	Buffalo
Oregon	104	21	Medford; Pelton Dam
South Dakota	106	27	Oelrichs
Texas	114	25	Red Bluff Dam; Ysleta
Utah	112	27	Zion National Park
Wyoming	107	30	Worland FAA Airport

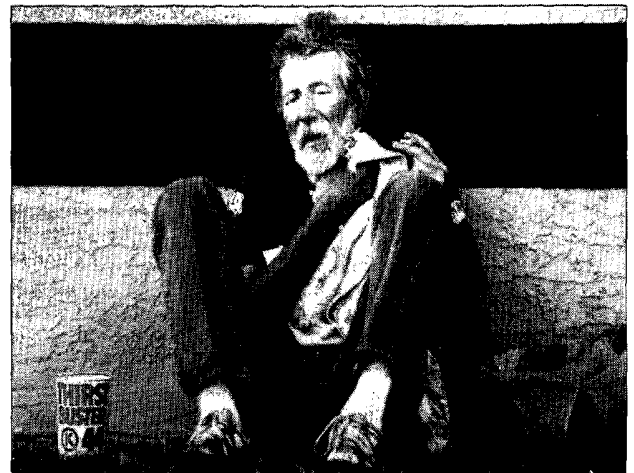
NOTE: Above data from individual states *Climatological Data*. Temperatures are in degrees Fahrenheit. Due to differences in observing times and methods and quality control problems, dates above may vary from dates published in the individual states *Climatological Data* by one calendar day.

- + And on previous date or dates.
- a 2° shy of all-time state record for any day.
- b 121° at Death Valley on the 26th.
- c 2° shy of the Colorado record June high temperature.
- d Ties all-time state record for any day.
- e 1° shy of all-time state record for any day.

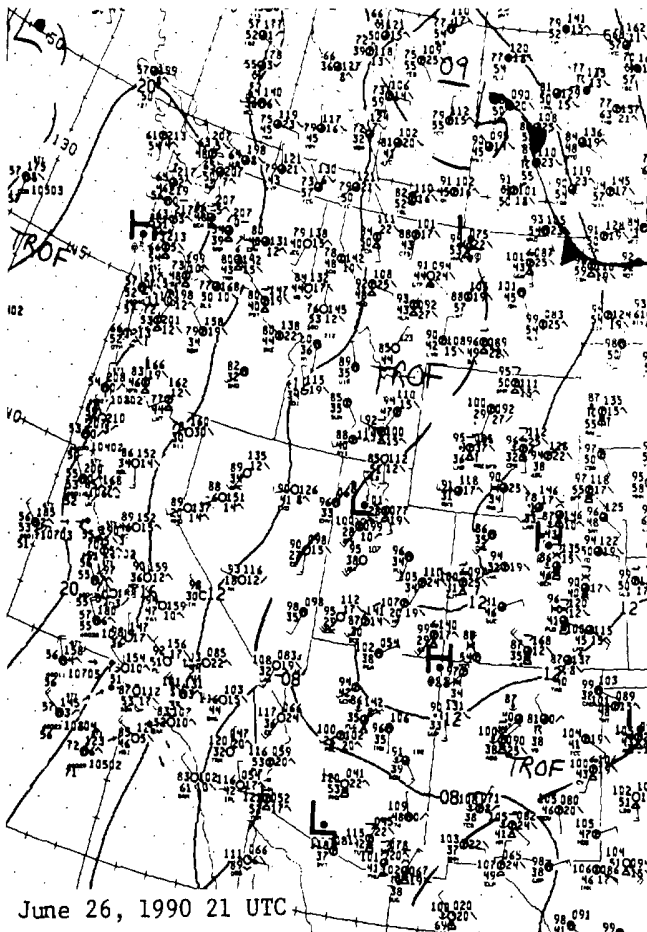
5(a). ARIZONA HEAT AND FIRE

Phoenix, Arizona set a new all-time record high (for any day) of 120° on June 25, 1990; the previous all-time record was 118°. This record lasted one day, as a new all-time record was recorded on June 26th. The following are the high and low temperatures recorded in Phoenix June 23rd-29th:

DATE	23	24	25	26	27	28	29	30
HIGH	113	113	120	122	118	118	108	112
LOW	84	87	88	91	92	87	88	91



It's tough to keep cool when the temperature is 122°!
Photo courtesy and ©: The Phoenix Gazette; Phoenix, Arizona; June 27, 1990; Photographer: M. Chow.



Left: The surface map for 2100 UTC (2:00 p.m. MST) on June 26th. Note the temperature of 120° at Phoenix and 115° at Tucson. *Map courtesy: National Climatic Data Center.*

Lightning started a fire in the Tonto National Forest on the 25th; the fire destroyed 28,500 acres and a score of homes. This fire destroyed about 28 million board feet of trees. On the 26th, downburst winds from a dry thunderstorm spawned by the fire fanned flames in all directions as fire fighters were fighting the fire; six people died. *Above and below (two photos):* Trees ablaze in the fire. *Photos courtesy: Don Rose, Payson (Arizona) Fire Department. Below (left):* After the fire. *Photo courtesy: Pat Velasco; Payson (Arizona) Ranger District.*



A special thank you goes to the following people (who may not have been previously credited) for providing information, press clippings, leads, and/or pictures for this issue of **STORM DATA**:

Jim Allsopp, NWS Indianapolis, IN; Jim Ammerman, NWS Louisville, KY; Mike Baker, NWS Denver, CO; Ken Batty, NWS Charleston, WV; Cermit and Marge Brown, Culbertson, NE; Christopher P. Cappella, East Haven, CT; Norm Carroll, NWS Evansville, IN; John Curran, NWS Indianapolis, IN; Jon Davies, Pratt, KS; Dan Eckstein, USDA Payson, AZ; Bill Fortune, NWS Topeka, KS; Robert Goree, NWS Melbourne, FL; Phillip Gray, NWS Indianapolis, IN; Leo Grenier, NSSFC Kansas

City, MO; Steve Haines, NWS Indianapolis, IN; David and Beth Hiatt, Stratton, NE; Bob Johns, NSSFC Kansas City, MO; Russ Marshall, NWS Fort Wayne, IN; Ron Przybylinski, NWS Indianapolis, IN; Gene Rhoden, NSSL Norman, OK; John Robinson, NWS Cincinnati, OH; Steve Runnels, NWS Evansville, IN, Clint Simpson, NWS Chicago, IL; Patrick Spoden, NWS Evansville, IN; Pete Stamus, NOAA/FSL; Steven Summy, NWS Evansville, IN; Keith Westerlage, Atlanta, GA; Gary Wiese, NWS Omaha, NE.

A belated thank you goes to Roy Britt of Richmond, Virginia for his invaluable help in providing information which was used in the March 1990 **STORM DATA**.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ALABAMA

Monroe County	01	1445CST			0	0	0	0	Thunderstorm Winds
Numerous trees were blown down at scattered locations in Monroe County.									
Shelby County	02	2010CST			0	0	?	?	Hail (1.75)
Golf ball-size hail fell at Columbiana.									
Calhoun County	07	1455CST			0	0	?	?	Thunderstorm Winds
Trees were blown down at Anniston.									
Coffee County	08	1545CST			0	0	?	?	Thunderstorm Winds
Strong thunderstorm winds blew down trees in scattered areas of Enterprise. One tree crushed a car. Another fell onto and damaged a house.									
Etowah County	09	1145CST			0	0	?	?	Thunderstorm Winds
Strong thunderstorm wind blew out a plate glass window and damaged the inside of an automobile dealership at Rainbow City. There was also some wind damage to cars parked outside.									
Morgan County	09	1630CST			0	0	?	?	Thunderstorm Winds
Storage sheds at Decatur were damaged and blown over by strong thunderstorm winds. Also at Decatur, strong winds blew out a large stained glass church window valued at \$100,000. In the same area the winds damaged seven to eight businesses and destroyed two cars.									
Talladega County	09	1645CST			0	0	?	?	Thunderstorm Winds
Numerous large trees were blown down in Talladega. Also at Talladega, the balcony of a hotel partially collapsed and shingles were blown off roofs.									
Madison County	09	1745CST			0	0	?	?	Hail (0.75)
Dime-size hail fell at Huntsville.									
Walker County	18	1228CST			0	0	?	?	Thunderstorm Winds
Trees were blown down at Carbon Hill, Saragossa, and Townley. At Townley, a house and an automobile were damaged by falling trees.									
Fayette County	18	1337CST			0	0	?	?	Thunderstorm Winds
	18	1340CST			0	0	?	?	Thunderstorm Winds
At 1337 CST strong thunderstorm winds blew antennas off buildings in Fayette. At 1340 CST trees and power lines were blown down 5 miles north of Fayette.									
Tuscaloosa County	18	1454CST			0	0	?	?	Thunderstorm Winds (G60)
Strong thunderstorm winds that gusted to 60 mph caved in a hangar and damaged planes at the Tuscaloosa Airport.									
Blount County	21	0930CST			0	0	?	?	Thunderstorm Winds
	21	0935CST			0	0	?	?	Lightning
At 0930 CST numerous large trees were blown onto power lines at Blountsville and Brookville. At 0935 CST a house was destroyed by a fire caused by lightning at Sneed. Lightning caused fires at numerous other houses in the same general vicinity.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ALABAMA Cont'd

Jefferson County	21 1255CST	0	0	?	?	Thunderstorm Winds (G60)
	21 1255CST	1	1	0	0	Lightning
	21 1315CST	0	0	?	?	Thunderstorm Winds (G58)

At about 1255 CST lightning killed a man standing under a tree in Hoover. A 31-year-old woman standing under the same tree was slightly injured. At 1255 CST thunderstorm winds were estimated at 60 mph about 1 mile south of downtown Birmingham and in Homewood. A tractor-semitrailer was blown over a freeway in the same area. At 1315 CST a wind gust to 58 mph was recorded at the Birmingham Airport. There were reports of minor street flooding throughout the immediate Birmingham area. Lightning (M410).

Lawrence County	21 1313CST	0	0	?	?	Hail (0.75)
	21 1336CST	0	0	?	?	Hail (0.75)
		0	0	?	?	Lightning
		0	0	?	?	Thunderstorm Winds (G60)

Dime-size hail fell at Moulton at 1313 CST. At 1336 CST, also at Moulton, lightning struck a home and caused a fire. Thunderstorm winds gusted to 60 mph in the same area.

Shelby County	21 1315CST	0	0	?	?	Hail (0.75)
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Dime-size hail fell in the Inverness area of north Shelby County.

Autauga County	21 1445CST	0	0	?	?	Hail (0.75)
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Dime-size hail fell at Marbury.

Tuscaloosa County	21 1500CST	0	0	?	?	Thunderstorm Winds
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Strong thunderstorm winds damaged a pier on the Black Warrior River at Tuscaloosa and blew down trees at Coker.

Franklin County	21 1648CST	0	0	?	?	Hail (1.00)
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Quarter-size hail fell at Red Bay.

Tuscaloosa County	22 1500CST	0	0	?	?	Hail (1.75)
	22 1518CST	0	0	?	?	Thunderstorm Winds
	22 1529CST	0	0	?	?	Hail (1.75)

Golf ball-size hail fell at Tuscaloosa at 1500 CST and at Cottondale at 1529 CST. At 1518 CST trees were blown down 8 miles south of Tuscaloosa.

Jefferson County	22 1515CST	0	0	?	?	Hail (0.75)
	22 1540CST	0	0	?	?	Thunderstorm Winds
	22 1630CST	0	0	?	?	Thunderstorm Winds

At 1515 CST dime-size hail fell in the eastern section of Birmingham and at Trussville. At 1540 CST trees were blown down at Forestdale. At 1630 CST trees and power lines were blown down at Bessemer.

Saint Clair County	22 1520CST	0	0	?	?	Thunderstorm Winds
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Trees were blown down 8 miles northeast of Leeds.

Perry County	22 1710CST	0	0	?	?	Thunderstorm Winds
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Trees were blown down at Heilberger.

Chilton County	22 1725CST	0	0	?	?	Thunderstorm Winds
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Trees and power lines were blown down at Clanton.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ARKANSAS Cont'd

Jefferson County
Redfield 02 2025CST 0 0 0 0 **Funnel Cloud**
 A funnel cloud was sighted near the Channel 7 television tower near Redfield.

Monroe County
Dagmar 02 2100CST 0 0 0 0 **Funnel Cloud**
 A funnel cloud was reported by the public.

Crittenden County
Clarkedale 02 2105CST 0.1 20 0 0 0 0 **Tornado (F0)**
 A small tornado touched down briefly in open country.

Union County 03 0400CST-
 1000CST 0 0 4 0 **Flash Flood**
Calhoun County 03 0400CST-
 1000CST 0 0 3 0 **Flash Flood**
Ouachita County 03 0400CST-
 1000CST 0 0 3 0 **Flash Flood**
Dallas County 03 0400CST-
 1000CST 0 0 3 0 **Flash Flood**

Rainfall of 4 to 5 inches caused small streams to overflow their banks and numerous roads to flood. In Union County, numerous county roads flooded, especially around Calion, where unofficially 7.50 inches of rain fell.

In Calhoun County, Arkansas Highway 203 from Hampton to Woodberry was closed, and Arkansas Highway 172 south of Hampton was also closed.

In Ouachita County, U.S. Highway 79 south of Camden was closed along with other county roads.

In Dallas County, a creek overflowed closing a couple of county roads.

Columbia County 03 0900CST-
 1500CST 0 0 3 0 **Flash Flood**
Lafayette County 03 0900CST-
 1500CST 0 0 4 0 **Flash Flood**
Nevada County 03 0900CST-
 1500CST 0 0 3 0 **Flash Flood**

Rainfall of 4 to 5 inches flooded numerous roads and caused small streams to overflow their banks.

In Nevada County, numerous county roads were flooded. In Lafayette County, several roads were closed around Lewisville, and in Columbia County, the story was the same around Waldo.

Bradley County 03 0930CST-
 1530CST 0 0 3 0 **Flash Flood**

Heavy rain flooded numerous roads across the county. Arkansas Highway 160 around Hermitage was flooded at several locations.

Ashley County 03 1400CST-
 2000CST 0 0 3 0 **Flash Flood**

Heavy rain caused small streams to overflow their banks and flood county roads, especially just west of Crossett.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L O M E T E R S	I M P R O P E R T Y	P R O P E R T Y	C R O D S	

ARKANSAS Cont'd

Benton County
Prairie Creek 08 0510CST 0 0 4 0 **Lightning**
Lightning started a fire that destroyed a garage and also heavily damaged a car inside. Much of the rest of the home sustained smoke and water damage.

Benton County
Bella Vista 09 0900CST 0 0 4 0 **Thunderstorm Winds**
Thunderstorm winds took a section of roof off a grocery store. The falling debris hit a car in the parking lot, causing about \$4,000 damage.

Lee County
15 SE Marianna 09 1530CST 0 0 0 0 **Hail (1.00)**
09 1530CST 0 0 2 0 **Thunderstorm Winds**
Thunderstorm winds downed trees and power lines near Beach Point.

Phillips County
Marvell 09 1600CST 0 0 0 3 **Hail (0.75)**
09 1600CST 0 0 2 0 **Thunderstorm Winds**
Thunderstorm winds uprooted trees across northern Phillips County. Hail also damaged at least 300 acres of cotton.

Benton County
Rogers 10 0900CST 0 0 4 0 **Flash Flood**
Nearly 3 inches of rain fell in 30 minutes resulting in flash flooding. Streets flooded, trapping some cars, and a few stores and homes sustained water damage. All of Walnut Plaza Shopping Center was flooded.

Hempstead County
Blevins 10 1515CST 0 0 3 0 **Thunderstorm Winds**
Thunderstorm winds downed trees and power lines, blocking a county road near Blevins.

Jefferson County
Pine Bluff 19 Unknown 1 0 0 0 **Heat**
A woman died from heat-related causes. (F67P)

Benton County
Rogers 21 0956CST 0 0 3 0 **Lightning**
Lightning struck a major power line in Rogers, knocking out power to several downtown businesses as well as the police and fire departments.

Benton County
Siloam Springs 21 1745CST 0 0 2 0 **Thunderstorm Winds**
3 N Siloam 21 1745CST 0 0 2 0 **Thunderstorm Winds**
Siloam Springs 21 1745CST 0 0 2 0 **Thunderstorm Winds**
Thunderstorm winds blew the windows out of a mobile home near Siloam Springs. Trees were also downed along County Roads 290 and 7.

Benton County
Siloam Springs 21 1750CST 0 0 0 0 **Hail (0.75)**

Washington County
Tontitown 21 1750CST 0 0 3 0 **Thunderstorm Winds**
Thunderstorm winds blew down trees, some of which fell on a house and a church.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ARKANSAS Cont'd

Carroll County Beaver	21	1810CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds downed trees along Arkansas Highway 187.
Washington County Fayetteville	21	1820CST			0	1	2	0	Thunderstorm Winds Thunderstorm winds blew down trees, injuring one man.
Madison County Wesley	21	1822CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds blew down several trees.
Boone County Alpena	21	1830CST			0	0	3	0	Thunderstorm Winds Thunderstorm winds downed trees and power lines.
Madison County Hindsville	21	1845CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds blew down trees.
Boone County Alpena	21	1847CST							Funnel Cloud Skywarn spotters reported three funnel clouds near Alpena.
Washington County Spring Valley	21	1910CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds blew down trees along Arkansas Highways 303 and 68.
Boone County 15 N Harrison	21	1915CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds downed trees.
Marion County Yellville	21	1925CST			0	0	3	0	Thunderstorm Winds Thunderstorm winds downed trees and power lines.
Van Buren County 3 W Dennard	21	1945CST			0	0	2	0	Thunderstorm Winds Thunderstorm winds downed trees along Arkansas Highway 254.
Baxter County Midway	21	2010CST			0	0	3	0	Thunderstorm Winds Thunderstorm winds downed trees that blocked Arkansas Highway 5 near Midway.
Baxter County Gamaliel	21	2020CST			0	0	3	0	Thunderstorm Winds Thunderstorm winds downed trees that blocked Arkansas Highway 101 near Gamaliel.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ARKANSAS Cont'd

Fulton County Salem	21	2030CST			0	0	3	0	Thunderstorm Winds
Thunderstorm winds downed power lines in Salem.									
Faulkner County Conway	21	2045CST			0	0	0	0	Hail (1.75)
Faulkner County Lake Conway	21	2048CST			0	0	0	0	Hail (1.00)
Stone County Blanchard Springs	21	2050CST			0	0	2	0	Thunderstorm Winds
Thunderstorm winds blew down trees which blocked Arkansas Highway 14 near Blanchard Springs.									
Izard County Horseshoe Bend	21	2100CST							Funnel Cloud
Jackson County Swifton	21	2100CST			0	0	3	0	Thunderstorm Winds
Newport Newport	21	2100CST			0	0	3	0	Thunderstorm Winds
Newport Newport	21	2100CST			0	0	0	0	Hail (0.75)
Thunderstorm winds blew down trees which blocked U.S. Highway 67 near Swifton and in Newport.									
Faulkner County Gold Creek	21	2100CST			0	0	4	0	Hail (2.75)
Baseball-size hail fell at Gold Creek. The hail broke windows, damaged roofs, and killed a 150-pound goat.									
Sharp County Ash Flat	21	2120CST			0	0	3	0	Thunderstorm Winds
Thunderstorm winds downed power lines.									
Faulkner County Lake Conway	21	2133CST			0	0			Hail (4.50)
Hail up to the size of a softball fell near Lake Conway.									
Cleburne County 2 NW Heber Springs	21	2140CST			0	0	0	0	Thunderstorm Winds (G52)
Thunderstorm winds estimated up to 60 mph blew along Greers Ferry Lake.									
Faulkner County Mayflower	21	2155CST			0	0	0	0	Hail (1.75)
Golf ball-size hail fell just south of Mayflower.									
Poinsett County Trumann	21	2200CST			0	0	3	0	Thunderstorm Winds
Thunderstorm winds downed trees and power lines across northern Poinsett County, especially in and around Trumann.									
Jefferson County Jefferson	21	2204CST			0	0	0	0	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C O R P S	

ARKANSAS Cont'd

Craighead County

Cash

21	2215CST								
21	2215CST				0	0	0	3	Hail (1.75)
					0	0	4	0	Thunderstorm Winds

Thunderstorm winds took the roof off a house. Golf ball-size hail also covered the ground. Several rice and soybean fields nearby were heavily damaged by the hail.

Greene County

Evening Star

21	2230CST								
					0	0	4	0	Thunderstorm Winds

Thunderstorm winds took most of the roof off a shed and the flying debris then hit three pickup trucks and the cab of a tractor-semitrailer. Damage was estimated at \$5,000. At another residence, a wood and metal shed was blown apart and a 40-foot tall television antenna was blown down. Damage was estimated at \$2,500.

Lonoke County

Cabot

21	2240CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds downed power lines.

Lonoke County

Cabot

21	2246CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds downed trees. A carport was damaged by one downed tree.

Crittenden County

Turrell

21	2345CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds downed trees and power lines.

Crittenden County

Marion

21	2345CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds downed trees and power lines.

Monroe County

Brinkley

21	2355CST								
					0	0	0	0	Hail (0.75)

Mississippi County

Osceola

22	0015CST								
					0	0	2	0	Thunderstorm Winds

Thunderstorm winds blew down trees.

Sevier County

DeQueen

22	0030CST								
					0	0	4	0	Thunderstorm Winds

Thunderstorm winds blew a large tree onto the house of the county sheriff.

Garland County

Hot Springs

22	0045CST								
					0	0	2	0	Thunderstorm Winds

Thunderstorm winds downed trees in and around Hot Springs.

Clark County

3 E Arkadelphia

22	0130CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds blew down some trees which fell on a house.

Calhoun County

Hampton

22	0135CST								
					0	0	3	0	Thunderstorm Winds

Thunderstorm winds downed trees and power lines.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ARKANSAS Cont'd

Nevada County Cale	25	1420CST			0	0	0	0	Hail (1.75)
Nevada County 5 S Bluff City	25	1430CST			0	0	0	0	Hail (1.75)
Columbia County 8 E Magnolia	25	1440CST			0	0	0	0	Hail (1.75)
Nevada County 3 E Prescott	25	1450CST			0	0	0	0	Hail (1.75)

Scott County Bates	25	1505CST			0	0	2	0	Thunderstorm Winds
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Thunderstorm winds downed trees.

Columbia County Ebenezer	25	1515CST			0	0	0	0	Hail (1.75)
Nevada County Young	25	1520CST			0	0	0	0	Hail (1.75)
Union County El Dorado	25	1559CST			0	0	0	0	Hail (1.75)
Clark County Gurdon	25	1600CST			0	0	0	0	Hail (1.75)
Howard County 5 N Nashville	25	1633CST- 1635CST	0.25	50	0	0	2	0	Tornado (F0)

A small tornado, reported by the Arkansas State Police, knocked down a few trees and kicked up some dust.

Howard County Center Point	25	1700CST			0	0	3	0	Thunderstorm Winds
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Thunderstorm winds damaged farm buildings.

Sevier County Lebanon	25	1700CST			0	0	2	0	Thunderstorm Winds
	25	1700CST			0	0	0	0	Hail (1.00)

Thunderstorm winds downed trees.

Pike County 6 E Langley	25	1710CST- 1713CST	0.5	50	0	0	0	0	Tornado (F0)
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A small tornado touched down briefly in open country.

Howard County Tollette	25	1745CST			0	0	4	0	Lightning
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A fire from a lightning strike burned down a home.

Howard County Nashville	25	1745CST			0	0	3	0	Thunderstorm Winds
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Thunderstorm winds downed trees and power lines.

Howard County Dierks	25	1745CST			0	0	3	0	Thunderstorm Winds
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Thunderstorm winds damaged farm buildings.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ARKANSAS Cont'd

Miller County
Texarkana 25 1800CST 0 0 2 0 **Thunderstorm Winds (G51)**
 Thunderstorm winds around 60 mph downed trees.

Benton County
Bella Vista 26 0800CST 0 0 3 0 **Lightning**
 A lightning strike destroyed the communication system of the Bella Vista Sheriff, Fire, and Police Departments.

CALIFORNIA, Northern

Kern County
Mojave, Rosamond,
California City 06 1600PDT-
 07 0100PDT 0 0 0 0 **High Wind**

A cold front moving through central California caused strong winds on the south side of the Tehachapi range. Many reports of winds exceeding 60 mph were received with a report of 71 mph received from Mojave.

CALIFORNIA, Southern

CAZ013 06 0100PST 0 0 ? 0 **High Winds**

Strong winds over the Tehachapi Mountains of southern California. Sustained winds of 40 mph with gusts to 52 mph were observed at Sandberg, near Interstate 5.

CA019
Kern County 07 0020PST 0 0 ? 0 **High Winds**

Strong winds blowing out of the Tehachapi Mountains, hit the Mojave Desert area of Kern County. The airport at Mojave reported wind gusts to 62 mph, with other areas in Mojave reporting wind gusts from 50 to 90 mph. Near zero visibilities were reported in areas of blowing dust and sand.

CAZALL 09 All Day 2 0 ? ? **Thunderstorms
Heavy Rain**

Thunderstorms and some heavy rain hit many parts of southern California, mainly in San Diego County. The storms were the result of moist unstable air from the remnants of Hurricane Boris. San Diego was hit with a record rainfall for the date, with 0.87 inch. Mt. Laguna had 1.41 inches, Escondido 0.98 inch, and Fallbrook 0.87 inch. Two people were killed in automobile accidents.

San Diego County
San Diego 09 0530PST 0 0 4 0 **Lightning**

Lightning hit the roof of an apartment building. Also, many communities in San Diego County were without electricity. An estimated 10,000 residents were affected.

Riverside County
65 E Los Angeles 09 1545PST 0 0 ? 0 **Lightning**

An American Airlines jet was struck by lightning, but landed safely at Los Angeles International Airport.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

CALIFORNIA, Southern Cont'd

CAZALL	26	All Day							
	27	All Day							
	28	All Day			1	0	0	?	Heat Wave

Record high temperatures were set over all of southern California, as a result of strong high pressure centered near the four corners area. High temperature at the Los Angeles Civic Center on the 26th was 112°, an all-time record high. Most valley areas had highs from 106 to 114° and deserts from 118 to 122°. Numerous fires burned over the area due to the hot and dry weather. A boy who was accidentally locked in an abandoned car died of heat exhaustion. M04V

COLORADO

Boulder County 36 W Boulder	01	Overnight							Snow Storm
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A sudden late-season snow storm caught three experienced hikers on top of Arapahoe Peak 36 miles west of Boulder. Wind and snow reduced visibilities to zero at times for the hikers. Scrambling for shelter, a male hiker, 21, was killed when he slipped and fell nearly 500 feet down an ice-covered slope, fracturing his head on rocks. A second victim died from hypothermia as she hid from the blinding snow under a boulder with a third hiker. The remaining hiker climbed to safety the next morning suffering only minor cuts and bruises.

Mesa County Grand Junction	01	1230MST							Thunderstorm Winds (G50) Wind Damage
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A thunderstorm wind gust of 58 mph (50 knots) was clocked at 1230 MST at Grand Junction's Walker Field Airport. At about the same time, strong downdraft winds hurled an 8-foot length of lumber through a car windshield. Six other vehicles were damaged in the same area when winds blew building materials off a grocery store loading dock. A 60 x 60-foot section of roof from a downtown business fell on three parked cars causing extensive damage. Several power lines were downed resulting in minor power outages across the city.

Boulder County Boulder	01	1405MST							Thunderstorm Winds (G55)
Weld County Briggsdale	01	1415MST							Thunderstorm Winds (G51)
Greeley 5 N Brighton		1430MST							Thunderstorm Winds (G50)
		1505MST							Funnel

Pueblo County Pueblo Memorial Airport	01	1600MST							Thunderstorm Winds (G55)
Weld County 5 E Greeley	01	1602MST							Thunderstorm Winds (G50)
Greeley Airport Boulder County 20 NW Denver	01	1603MST	0.2	20					Tornado (F0)

A small tornado touched down in a farmer's unplowed field between the towns of Louisville and Lafayette.

El Paso County Colorado Springs Municipal Airport	01	1620MST							Wind (G50)
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Strong winds blew across the area ahead of an approaching cold front.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

Adams County 3 W Brighton	01	1625MST	0.1	15	0	0	0	0	Tornado (F0)
National Weather Service Doppler radar indicated a small tornado (later confirmed by ground reports) in an open field 3 miles west of Brighton along County Highway 7.									
Weld County 9 SE Greeley	01	1626MST			0	0	0	0	Thunderstorm Winds (G71)
3 SW Greeley		1635MST			0	0	0	0	Hail (1.00)
Hereford		1636MST			0	0	0	0	Thunderstorm Winds (G52)
Weld County 8 SE Greeley	01	1648MST			0	0	0	0	Thunderstorm Winds (G52)
Brief heavy rain and marble-size hail were also reported with the gusty winds. Minor damage to trees 3 miles south of Kersey.									
Weld County Hudson	01	1650MST			0	0	0	0	Funnel
Washington County Akron/Washington County Airport	01	1651MST			0	0	0	0	Thunderstorm Winds (G61)
Pueblo County Pueblo Memorial Airport	01	1700MST			0	0	0	0	Thunderstorm Winds (G50)
Weld County near Roggen Briggsdale	01	1705MST 1705MST	0.5	60	0 0	0 0	0 0	0 0	Tornado (F1) Thunderstorm Winds (G56)
A north-south line of thunderstorms moved across the county, spawning a brief, highly visible tornado (indicated on NWS Doppler radar and later confirmed by storm spotter reports) near the town of Roggen. In northern Weld County, thunderstorm winds clocked to 65 mph (56 kts) caused minor tree damage in Briggsdale.									
Morgan County Fort Morgan	01	1705MST			0	0	0	0	Thunderstorm Winds (G67)
6 N Woodrow		1735MST			0	0	?	?	Thunderstorm Winds (G83)
Countywide		Evening			0	0	5	0	Wind Damage
A slow-moving line of severe thunderstorms raked nearly all of Morgan County with 60 to 70 mph (61 knots) winds during much of the evening and into the early morning hours of the following day. Winds snapped power and light poles from Wiggins to Brush causing intermittent power outages throughout the evening. Thunderstorm winds estimated at 60 mph (52 knots) left a hangar at the Brush Airport in a pile of twisted tin and splintered timbers. Estimated damage to hangar put at \$4,500.									
Washington County Woodrow	01	1737MST			0	0	?	?	Thunderstorm Winds (G79)
2 W Akron		1751MST			0	0	5	5	Thunderstorm Winds (G61)
Strong thunderstorm winds blasted northern portions of Washington County for much of the evening. Wind damage around Akron alone amounted to tens-of-thousands of dollars. Grain bins and a trailer house were upended and smashed south of Otis. A roof was torn from a garage and trees were snapped like tinkertoys. Sixty to 70 power poles were blown down by the hurricane-force winds. Cost of replacing each pole was put at close to \$900. A wind gust of 70 mph (61 knots) was recorded at the Flight Service Office at the Akron/Washington County Airport.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

metropolitan areas earlier that afternoon. Thunderstorm growth was exacerbated by the approach and passage of a vigorous mid-tropospheric weather disturbance that evening. One particular supercell thunderstorm developed along this convergence line in eastern Douglas County, then moved northeast across Elbert County where it produced 1- to 3-inch rainfalls in less than 30 minutes. At 1810 MST, the public and a NCAR storm chase team reported and photographed a large, rain-shrouded tornado approximately 12 miles southwest of Limon. The twister tracked northeast across open fields of prairie grass destroying three cow trough windmills near the junction of U.S. Highway 24 and County Road 169. The tornado dissipated at 1817 MST, 5 to 6 miles west of Limon.

Lincoln County
5 S Limon
5 S Limon

06	1820MST				0	0	3	0	Hail (1.75)
	1830MST				0	0	3	0	Hail (2.50)
	1845MST				0	14	7	6	Tornado (F3)

The supercell thunderstorm mentioned above continued to track northeast across neighboring Lincoln County where it dropped golf ball- to tennis ball-size hail on the National Weather Service weather radar site 5 miles south of Limon. A second, slightly smaller tornado spawned from the same storm cell, touching down 6 miles south-southwest of Limon (70 miles east of Denver) on open rangeland. Based on a storm movement of between 10 to 15 mph, the tornado affected Limon and surrounding ranchlands from 1845 MST to 1915 MST. The massive tornado moved north-northeast striking the south side of Limon at 1908 MST, knocking electrical power out to its 1,800 inhabitants. The tornado continued on its northeast path across Limon right down the center of town, destroying nearly 80% of the central business district, causing an estimated loss of \$7.1 million. Residential losses were put at \$1.7 million as 228 of the town's 750 homes and trailers were either damaged or destroyed. Agricultural losses were estimated at \$2.1 million - including damage sustained in neighboring El Paso and Elbert counties. The inverted pear-shaped tornado exited Limon around 1918 MST, but not before causing extensive damage and several injuries in a northeast side trailer park, near the junction of Interstate 70 and State Highway 71. Four Union Pacific Railroad box cars and two tractor-semitrailers were also overturned by the tornadic winds. A local grain elevator was totally destroyed with less than \$100,000 in damage to the state's new medium security prison under construction 2 miles south of Limon. Total losses in and around Limon were put at \$12.8 million with the most serious injury a broken hip.

Lincoln County
6 S of Limon
3 SW of Limon

06	1851MST	0.10	10	0	0	0	0	Tornado (F0)
	1900MST			0	0	0	0	Hail (2.00)

A tornado briefly touched down approximately 1 mile south of National Weather Service radar site. Minutes later, hen egg-size hail was reported by the public 3 miles southwest of Limon.

Arapahoe County
0.6 S Strasburg

06	1910MST				0	0	0	Hail (1.75)
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Golf ball-size hail was reported by a ham radio operator just outside of Strasburg on Interstate 70.

El Paso County
12 SE Colorado Springs

06	1947MST	0.10	10	0	0	0	0	Tornado (F0)
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El Paso County
5 W Calhan

06	2005MST	0.20	10	0	0	0	0	Tornado (F0)
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A small tornado was reported by the public in open rangeland 5 miles west of Calhan. The same tornado was spotted on the ground 1 mile west of Calhan at 2030 MST, moving east across open grasslands.

Adams County
2 E Bennett

06	2010MST				0	0	0	Hail (1.75)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

Weld County
13 NE Fort Collins 09 1609MST 23 200 0 0 4 0 Tornado (F2)

The same thunderstorm mesocyclone that produced the 1604 MST tornado northwest of Wellington was responsible for spawning a second, somewhat larger tornado, which first touched down in a farmer's field 2 miles northeast of Wellington. The twister moved east-northeast, shrouded in a large cloud of dust, passing 5 miles northwest of Nunn (at 1615 MST). The tornado then veered north along U.S. Highway 85 meandering across miles of open sage brush and prairie grassland where it dissipated just southwest of the town of Carr at 1628 MST. Damage was confined to power poles and trees within this sparsely populated area.

Weld County
5 NW Nunn 09 1635MST 0 0 0 0 Hail (2.00)

Reports of hen egg-size hail pummeled fields and pasture land 5 to 8 miles northwest of Nunn. The hail fell from the same storm cell which produced the tornado that skipped through the area 20 minutes earlier.

Weld County
Nunn 09 1639MST 0 0 0 0 Hail (1.50)

Weld County
8 NW Nunn 09 1641MST 3 40 0 0 0 0 Tornado (F0)

A small tornado moved northeast just east of Interstate 25 before dissipating a few miles later at 1647 MST.

Weld County
Carr 09 1645MST 0 0 0 0 Hail (1.50)
16 NE Fort Collins 1650MST 0 0 0 0 Hail (1.50)

El Paso County
10 SE Colorado Springs 09 1655MST 0.1 15 0 0 0 0 Hail (0.75)

El Paso County
11 SE Colorado Springs 09 1658MST 0.1 15 0 0 3 0 Tornado (F0)

A tornado touched down along Fountain Creek just north of the town of Fountain. Damage was limited to broken tree branches and a blown over billboard.

Weld County
10 N Greeley 09 1659MST 3 25 0 0 0 0 Tornado (F0)

A small tornado formed just north of Ault and moved away from the town toward the northeast. The twister was reported to the National Weather Service in Denver by several Skywarn spotters and the public, yet local officials were unable to see the tornado. The tornado dissipated a couple of miles northeast of Ault at 1710 MST. The Eaton City Police Department and the Weld County Sheriff's Department said no damage was reported in the area.

El Paso County
10 SE Colorado Springs 09 1705MST 20 50 0 0 0 0 Tornado (F0)

The public and a National Weather Service employee at the Colorado Springs Airport watched as a small tornado moved northeast across open rangeland. The twister passed 5 miles northwest of the town of Yoder (20 miles east of Colorado Springs) at 1712 MST dissipating minutes later north of Yoder.

El Paso County
Calhan 09 1730MST 0 0 0 0 Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

Elbert County
Elbert 09 1730MST 0 0 0 0 Hail (1.00)

Lincoln County
Boyero 09 1741MST 0 0 0 0 Hail (1.00)
Hugo 1745MST 0 0 4 0 Hail (1.75)

Golf ball-size hail pelted portions of Hugo. Damage was reported to several car windshields, building siding, trees, and roofs.

Kiowa County
3.5 S Eads 09 1855MST 0.2 25 0 0 4 0 Tornado (F0)

A thunderstorm spawned a brief tornado which damaged the roof on a barn south of the town of Eads.

Morgan County
8 W Wiggins 14 1658MST 0 0 0 0 Hail (0.75)
1 E Wiggins 1703MST 0 0 0 0 Hail (0.75)
3 NE Wiggins 1720MST 0 0 0 0 Hail (1.25)
Fort Morgan 1748MST 0 0 0 0 Hail (1.75)
7 S Brush 1850MST 0 0 0 0 Hail (1.50)

A line of intense thunderstorms developed along a strong wind gust front that pushed east across the county. The first report of severe weather came in from a spotter near Exit 57 on Interstate 76, 8 miles west of Wiggins. Hail 1.25-inch in diameter fell northeast of Wiggins, with golf ball-size hail reported in Fort Morgan and walnut-size hail reported by the public 7 miles south of Brush. Scattered damage reported to building and automobile windows and roofs in the Fort Morgan area.

Morgan County
12 S Brush 14 1850MST 7 100 0 0 5 0 Tornado (F2)
1 N Woodrow 1850MST 0 0 4 0 Hail

Skywarn storm spotters tracked a large tornado as it moved northeast along State Highway 71, just north of the Morgan/Washington County line. The twister reportedly caused \$50,000 to \$100,000 in damage along its 7-mile path. The tornado destroyed one house and overturned two mobile homes, toppled several utility poles, mangled a large pivot irrigation sprinkler north of the town of Woodrow, and flattened a 60 x 100-foot storage shed. The tornado dissipated 10 minutes later over open range land 10 miles southeast of Brush. Hail from this storm also caused extensive damage to a grain bin just north of Woodrow.

Morgan County
7 E Brush 14 1904MST 0 0 0 0 Hail (1.50)

Walnut-size hail stones covered the ground, which fell just minutes before a storm spotter came across them while driving south on State Highway 71 near the junction of County Road 30.

Washington County
Akron 14 1915MST 0 0 4 0 Hail (1.75)
3 S Akron 1930MST 0 0 0 0 Hail (1.50)
1 S Akron 1936MST 0 0 5 4 Hail (2.75)

Golf ball-size hail pummeled portions of Akron causing moderate damage to roofing material, trees, numerous windows, and automobiles. Dime-size hail fell minutes later at the Akron/Washington County Airport. As the thunderstorm intensified moving southeast away from the city, tennis ball-size hail fell (at 1930 MST) onto open range land 3 miles south of Akron. Baseball-size hail caused extensive damage to several businesses, farm buildings, cars, trucks, tractors, and several acres of wheat just south of Akron along State Highway 63.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

Washington County

8 SW Otis	14	1945MST	2	80	0	0	0	0	Tornado (F1)
6 S Otis		2000MST	1	50	0	0	0	0	Tornado (F0)
9 SE Otis		2019MST	0.3	25	0	0	0	0	Tornado (F0)

A huge supercell thunderstorm lingered almost stationary over northern Washington County between 1900 MST and 2100 MST. NCAR and Skywarn storm chasers photographed one of the most impressive looking wall clouds ever seen by this author. The storm spawned three separate tornadoes, each over open, uncultivated fields. The first tornado, the largest of the three, dissipated at 2001 MST. The second twister lifted back into the clouds at 2015 MST, and the third and smallest tornado dissipated at 2021 MST.

Weld County 30 NNE Fort Collins

	15	1550MST			0	0	?	0	Hail (1.75)
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Golf ball-size hail pelted traffic for several minutes along a stretch of Interstate 25 just south of the Colorado/Wyoming state line. Reports of actual damage were not available.

Sedgwick County Julesburg

	15	1600MST			0	0	0	0	Hail (1.75)
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Weld County 7 E Roggen

	15	1728MST	10	75	0	0	0	0	Tornado (F1)
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National Weather Service radar indicated a tornado forming just east of Roggen at 1710 MST, 7 miles east of Roggen. The highly visible twister skipped northeast across corn, alfalfa, bean, sugar beet, and open fields before dissipating 2 miles southwest of Wiggins just inside Morgan County at 1738 MST.

Larimer County Fort Collins

	16	1555MST			0	0	0	0	High Wind (G58)
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A strong cold front passage produced a wind gust of 67 mph (58 knots) at the Foothills Campus of the Colorado State University on the west side of Fort Collins.

Boulder County Boulder

	19	1625MST			0	0	2	0	Lightning
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Thunderstorms rumbled over the foothills just west of Boulder throughout much of the afternoon, before drifting over the city a little after 1600 MST. Lightning from one thunderstorm cell struck the roof of a house on the south side of Boulder. Residents of the house were able to extinguish the ensuing fire with a garden hose, but not before several shingles had burned.

Prowers County Lamar Wiley 7 SE Lamar 2 SW Granada 2 SW Holly 6-15 SW Holly 3-7 S Granada

19	1900MST				0	0	4	0	Hail (0.75)
	1940MST				0	0	4	6	Hail (1.75)
	1958MST	0.1	15		0	0	0	0	Tornado (F0)
	2005MST	0.2	20		0	0	0	0	Tornado (F0)
	2020MST	0.1	20		0	0	0	0	Tornado (F0)
	2030MST				0	0	4	6	Hail
	2030MST				0	0	4	6	Hail

Small tornadoes were spotted by the public and Skywarn spotters 7 miles southeast of Lamar, 2 miles southwest of Granada and 2 miles southwest of the town of Holly. The same complex of thunderstorms produced hard marble-size hail that wiped out several hundred acres of wheat 8 miles south of Holly. Pea- to marble-size hail piled up several inches deep. Corn and wheat fields were also severely damaged by the hail 6 to 15 miles southwest of Holly. Local farmers claimed that the year's wheat crop would have been the best crop ever. The hail storm was also responsible for flattening corn, wheat, and melon fields between 3 and 7 miles south of Granada. Numerous windows were broken and roofs sustained significant damage in the Holly and Granada areas. Insurance claims from hail damage across the county was put at \$1.6 million.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

COLORADO Cont'd

Pueblo County
Pueblo 29 2022MST 0 0 0 0 **Thunderstorm Winds**
 A sudden microburst from a high-based thunderstorm was clocked to 69 mph (60 knots) at Pueblo's Memorial Airport.

Adams County
10 NE Denver 30 1550MST 0.1 20 0 0 0 0 **Tornado (F0)**
 A small twister touched down in an open field just north of the Rocky Mountain Arsenal. It dissipated at 1555 MST.

Lincoln County
5 S Limon 30 1900MST 0 0 0 0 **Thunderstorm Winds (G50)**

CONNECTICUT

Fairfield County
Danbury 29 1945EST Short 10 0 7 3 0 **Tornado (F0)**
Fairfield County
Danbury 29 1940EST-2000EST 0 0 5 0 **Thunderstorm Winds (65 kts)**

A squall line moved eastward from New York state into Fairfield County. In Danbury, a severe thunderstorm spawned a small tornado. Trees were blown down in a circular pattern near Lake Kenosia. Seven people were injured by flying glass in nearby Vespucci Lodge when a 3 x 5-foot window shattered and a second window was broken by a falling limb. Thunderstorm winds blew down trees and limbs in the surrounding area of Danbury knocking out power to hundreds of electric customers. Some homes and autos were damaged by falling trees and limbs.

New Haven County
Wallingford 29 2030EST 0 1 0 0 **Lightning**
 A man was struck by lightning and knocked unconscious as he was leaving his house. His injuries were reported to be minor burns to the shoulders.

DELAWARE

Kent County
New Castle County 08 1808EST 0 0 3 0 **Thunderstorm Winds**

Law enforcement agencies reported trees, poles, and wires down in the northeastern part of Kent County. Scattered areas of New Castle County reported minor wind damage.

New Castle County
Newark 09 1845EST-2000EST 0 0 3 0 **Thunderstorm Winds**
Hail (0.88)

The Newark area was hit by strong winds and nickel-size hail around 1900 EST and another thunderstorm occurred about an hour later. There were scattered areas of downed power lines and minor damage to homes within the county.

FLORIDA

Monroe County
8 N Key West 01 1719EST **Waterspout**

National Weather Service personnel observed a waterspout.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Martin County Hobe Sound	02 0700EST								Waterspout The Beach Patrol observed a waterspout just offshore.
Lee County Fort Myers	02 1540EST	Short	0	0	0	0			Tornado (F0) Federal Aviation Administration tower personnel observed a tornado 1 mile south of Regional Southwest Airport.
Lee County Fort Myers	02 1611EST	Short	0	0	0	0			Tornado (F0) Federal Aviation Administration tower personnel observed a tornado 4 miles north of Paige Airport.
Orange County Lockart	03 1400EST			1	1	0	0		Lightning Lightning struck and killed a woman and injured a companion while standing beside a car. (F260.)
St Johns County Hastings	03 1500EST	Short	0	0	0	0			Tornado (F0) A brief tornado did no known damage.
Highlands County Venus	03 1650EST	Short	0	0	0	0			Tornado (F0) A brief tornado did no known damage.
Suwanee County Live Oak	03 1705EST			0	0	2	0		Thunderstorm Winds A large sign was blown down damaging a vehicle.
Dade County 10 S Miami	04 1345EST			0	0	4	0		Thunderstorm Winds Eleven aircraft were damaged at Tamiami Regional Airport.
Broward County 10 NW Fort Lauderdale	04 1627EST	Short	0	0	0	0			Tornado (F0) Federal Aviation Administration tower personnel observed a brief tornado touchdown.
Indian River County Wabasso Vero Beach	04 1720EST 1737EST			0	0	6	0		Thunderstorm Winds Thunderstorm Winds (G62) Hail (0.75) Thunderstorm winds caused widespread damage to homes, large trees, signs, aircraft, and power lines. More than half of the mobile homes in two communities suffered substantial damage.
Highlands County Lake Placid	05 1954EST			0	0	3	0		Thunderstorm Winds A thunderstorm gust did \$5,000 damage to a house roof.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Monroe County 3 NW Cudjoe Key	06	1050EST							Waterspout
Air Force personnel sighted a waterspout.									
Collier County Naples	06	1630EST			0	0	0	0	Thunderstorm Winds
Trees were blown down.									
Broward County 2 SE Fort Lauderdale	07	1050EST							Waterspout
Flight service station personnel observed a waterspout.									
Monroe County 5 SE Marathon	07	1110EST							Waterspout
Coast Guard personnel sighted a waterspout.									
Citrus County Dunellon	07	1415EST			0	0	3	0	Thunderstorm Winds
Trees were blown down and a shed was destroyed.									
Duval County Mandarin	07	1510EST			0	0	0	0	Hail (1.00)
Quarter-size hail was reported.									
Duval County Jacksonville	07	1530EST			0	0	0	0	Thunderstorm Winds
Trees and power lines were down.									
Hernando County 2 E Brooksville	07	1545EST			0	0	4	0	Thunderstorm Winds
Trees were blow down and several sheds were destroyed.									
Pinellas County St Petersburg	07	1627EST			0	0	0	0	Hail (0.75)
Three-quarter-inch-size hail was reported.									
Hillsborough County Tampa	07	1645EST			0	0	0	0	Thunderstorm Winds
Several trees were blown over.									
Pinellas County St Petersburg	07	1655EST	Short		0	0	3	0	Tornado (F0)
A brief tornado downed trees and power lines and damaged signs.									
Monroe County 8 E Key largo	10	0730EST							Waterspout
Coast Guard reported a waterspout.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

FLORIDA Cont'd

Clay County Middleburg	10	1500EST			0	0	2	0	Thunderstorm Winds Thirty to 40 trees were uprooted and a roof shed was blown off.
Polk County Bradley	10	1737EST	Short		0	0	0	0	Tornado (F0) A brief tornado formed from one of two funnel clouds.
Monroe County 8 W Key West	11	0730EST							Waterspout Flight service station spotted a waterspout.
Monroe County 1 W Key West	11	0913EST							Waterspout Flight service station observed a waterspout.
Monroe County 5 S Boca Grande	11	1040EST							Waterspout A ship reported a waterspout.
Dade County 10 NNE Miami	11	1730EST							Funnel Cloud The public reported a funnel cloud.
Manatee County 5 E Bradenton	16	1800EST			0	0	0	0	Thunderstorm Winds Fifteen trees were damaged.
Dade County 5 W Miami	19	1340EST	Short		0	0	0	0	Tornado (F0) Pilot and weather observer reported a tornado.
Palm Beach County West Palm Beach	19	1500EST			0	2	0	0	Lightning Two construction workers were injured by a nearby lightning strike.
Broward County Margate	20	1525EST	Short		0	0	0	0	Tornado (F0) A brief tornado did no apparent damage.
Monroe County 2 N Key West	21	1728EST							Waterspout National Weather Service personnel observed a waterspout
Volusia County Deland	21	1800EST			0	0	4	0	Lightning A house suffered \$40,000 damage after a lightning-initiated fire.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Hillsborough County Plant City	22	1315EST	Short		0	0	0	0	Tornado (F0)
									A brief tornado did no damage.
Polk County Lakeland	22	1345EST	Short		0	0	0	0	Tornado (F0)
Desoto County Arcadia	22	1645EST			0	0	0	0	Thunderstorm Winds
									Trees were blown down.
Citrus County 10 W Crystal River	23	0813EST							Waterspout
									A waterspout was sighted near Crystal River Nuclear Power Plant.
Hendry County Clewiston	23	1600EST			0	0	2	0	Thunderstorm Winds
									The roof was blown off a carport.
Broward County 5 NW Ft Lauderdale	23	1610EST			0	0	5	0	Thunderstorm Winds
									One aircraft was destroyed and another damaged at Fort Lauderdale Executive Airport.
Palm Beach County West Palm Beach	23	1800EST			0	0	4	0	Lightning
									A lightning-initiated fire damaged a school.
Monroe County 2 E Marathon	24	1440EST							Waterspout
									The Sheriff's Department reported a waterspout.
Dade County Miami	24	1640EST	Short		0	0	0	0	Tornado (F0)
									The air traffic control tower at Miami International Airport sighted a tornado.
Brevard County 1 NW Cape Canaveral 1 N Cocoa Beach	24	1655EST- 1730EST	4	30	0	0	5	0	Tornado- Waterspout (F1)
									A tornado began in Cape Sierra and moved slowly southeast. Several unoccupied cars were stacked on top of each other. Numerous buildings received slight to moderate damage.
Polk County Bartow	25	0730EST			0	0	4	0	Lightning
									Lightning strikes did a total of \$10,000 to \$15,000 damage to three separate houses.
Monroe County 1 E Cudjoe Key	25	1015EST							Waterspout
									Air Force personnel sighted a waterspout.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Broward County Davie	25	1135EST			1	1	0	0	Lightning
One lawn worker was killed and a second injured by a single lightning strike. (M220)									
Dade County North Miami	25	1255EST			1	0	0	0	Lightning
A man sitting underneath a tree was killed by lightning. (M340)									
Polk County Mulberry	25	1530EST			1	0	0	0	Lightning
Lightning struck a crane and killed its operator. (M390)									
Broward County Dania	25	1800EST			0	1	3	0	Lightning
A man was injured when a lightning-initiated fire damaged a mobile home.									
Pinellas County Tarpon Springs	26	1145EST							Funnel Cloud
The public reported a funnel cloud.									
Volusia County Osteen	26	1149EST			0	0	0	0	Hail (1.00)
One-inch-size hail was reported.									
Brevard County Cocoa Beach	26	1330EST			0	0	5	0	Thunderstorm Winds Hail (1.75)
8 E Titusville		1337EST			0	0	0	0	Thunderstorm Winds (G50)
Wind damaged several roofs while hail damaged roof shingles on others. Shuttle landing facility recorded wind gust.									
Lake County Clermont	26	1400EST			1	0	0	0	Lightning
A man looking for golf balls was killed by lightning. (M270)									
Putnam County Interlachen	26	1400EST			0	0	0	0	Thunderstorm Winds
Tree limbs were blown down.									
Citrus County Hernando	26	1430EST			0	0	0	0	Thunderstorm Winds
Trees and power lines were blown down.									
Orange County 5 N Apopka	26	1430EST			0	1	0	0	Lightning
A 12-year-old girl was injured by lightning while standing outside her mobile home.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Alachua County Unknown	26	1530EST			0	0	0	0	Thunderstorm Winds
									Power lines were blown down.
Madison County Pinetta	26	1730EST			0	0	3	0	Thunderstorm Winds
									Tree limbs were blown down and several houses suffered minor damage.
Broward County Coral Springs	26	1755EST							Funnel Cloud
									A funnel cloud was reported.
Monroe County 30 W Cape Sable	26	1757EST							Waterspout
									A pilot reported a waterspout in Florida Bay.
Monroe County 15 N Key West	26	1809EST							Waterspout
									A pilot reported a waterspout.
Dade County Opa Locka Airport	27	1600EST			0	0	5	0	Thunderstorm Winds (G70)
									A wind gust measured at 70 knots heavily damaged five light aircraft.
Monroe County Bahia Honda Park	27	1610EST							Waterspout
									Park personnel sighted a waterspout.
Lee County Fort Myers	28	1615EST	Short		0	0	4	0	Tornado (F0)
									A brief tornado knocked several trees onto houses, destroyed several sheds, and peeled the roof off a lumber company building.
Collier County 3 NE Naples	29	1425EST	Short		0	0	0	0	Tornado (F0)
									The Sheriff's Office reported a tornado.
Manatee County Ellenton	29	1800EST- 1807EST			0	0	0	0	Thunderstorm Winds
Manatee County Ellenton	29	1800EST- 1807EST	1.0	20	0	0	5	0	Tornado (F1)
									A tornado moved through a mobile home park damaging eight units, three of them heavily, and caused \$100,000 damage.
Pinellas County St Petersburg	30	1602EST			0	0	3	0	Thunderstorm Winds
									Power lines were blown down and several windows blown out.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

FLORIDA Cont'd

Columbia County Lake City	30	1645EST			0	0	0	0	Thunderstorm Winds Lightning
					1	0	0	0	

A man standing in a field was struck and killed by lightning. The same thunderstorm downed several large trees. M290.

GEORGIA

Carroll County 8 S Carrollton	06	2010EST			0	0	?	0	Lightning
Carrollton	06	2050EST			0	0	?	0	Thunderstorm Winds
Bowdon	06	2130EST			0	0	?	0	Lightning

Around 2010 EST, a fire set by lightning destroyed a mobile home south of Carrollton. At Bowdon, lightning struck a tree and dug trenches in the yard as it traveled to the house. The bolt wrenched off siding on both sides of the home, damaged the kitchen and its contents, along with small electrical appliances and audio-video equipment.

3 NE Mt. Zion	07	0050EST			0	0	?	0	Lightning
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Lightning struck and damaged the attic fan of a home, although no fire resulted.

Gordon County Calhoun	07	1350EST			0	0	0	0	Hail (0.75)
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Early County 6 N Blakely	08	1400EST			0	0	?	?	Thunderstorm Winds
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Several trees and power lines were blown down in the Kolomoki Mounds Historic Park in northwest Early County.

Houston County Elko	08	1621EST			0	0	?	?	Thunderstorm Winds Small Hail
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Scattered trees and power lines were blown down along Georgia Highway 26.

Whitfield County Southern Whitfield County	09	1415EST			0	0	?	?	Thunderstorm Winds Small Hail
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About ten trees were blown down by thunderstorm winds, along with a few power lines.

Burke County 13 NNE Waynesboro	09	1530EST			0	1	?	?	Thunderstorm Winds Small Hail
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Thunderstorm winds, estimated to be between 55 and 65 mph, overturned a mobile home.

Richmond County Augusta	09	1605EST			0	0	0	0	Hail (1.75)
	09	1615EST			0	0	?	0	Thunderstorm Winds

Thunderstorm winds, estimated to be between 50 and 60 mph, wrapped a storage building around a telephone pole.

Clarke County 5 W Athens	09	1900EST			0	0	0	0	Hail (1.00) Lightning
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

GEORGIA Cont'd

Athens	09	1905EST			0	0	?	?	Thunderstorm Winds Small Hail
4 SE Athens	09	1910EST			0	0	0	0	Hail (0.88)
	09	1910EST			0	0	?	0	Thunderstorm Winds

Numerous large trees were uprooted and blown down across the roadways in downtown Athens and in several neighborhoods, resulting in many power outages. In west Athens, a lightning ball, about the size of a softball, rolled through a home and gave a man a mild shock.

Oconee County Watkinsville	09	1900EST			0	0	?	?	Thunderstorm Winds
Countywide	09	1915EST			0	0	?	?	Thunderstorm Winds Small Hail

Numerous large trees were blown down across Oconee County, mainly along U.S. Highway 441, resulting in power outages in several areas. During the height of the storm, the entire city of Watkinsville was blacked out due to damages to power lines caused by the winds and falling trees. A portion of the roof of a business was blown away by the winds at the intersection of U.S. Highway 441 and Georgia Highway 207. Winds damaged several smaller structures. Small hail occurred about 1900 EST.

Oglethorpe County Southwestern Oglethorpe County	09	1905EST			0	0	?	?	Thunderstorm Winds Small Hail
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A large area of southwestern Oglethorpe County was left without electrical power after thunderstorm winds downed several trees.

Twiggs County Bullard	21	2030EST			0	0	0	0	Hail (0.75)
Wilkinson County 2 SE Irwinton	21	2030EST			0	0	?	?	Thunderstorm Winds

Scattered trees were blown onto power lines by thunderstorm winds.

Barrow County Winder	22	1220EST			0	0	?	?	Thunderstorm Winds Small Hail
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Power outages resulted when approximately 25 trees were blown down by strong winds around Winder. A mobile home's roof was lifted off during the storm.

Jackson County 8 NW Athens	22	1245EST			0	0	?	?	Thunderstorm Winds
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Three large trees were blown down across power lines in southern Jackson County, resulting in power outages. Numerous tree limbs were broken off, blocking roadways.

Troup County LaGrange	22	1900EST			0	0	?	?	Thunderstorm Winds
Countywide	22	1945EST			0	0	?	?	Thunderstorm Winds

Scattered trees were blown down over Troup County by the winds.

Catoosa County 12 SW Ringgold	22	2240EST			0	0	?	?	Thunderstorm Winds
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Scattered trees and power lines were blown down by thunderstorm winds over western Catoosa County in the Burning Bush community.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CRODSS	
Whitfield County Northeast Whitfield County	22	2310EST			0	0	?	?	Thunderstorm Winds
Lowndes County Valdosta	28	1200EST			0	0	?	0	Lightning
IDAHO									
IDZ002	09	1535MST- 1540MST			0	0	0	0	Funnel Cloud
A funnel cloud was sighted for 5 minutes before it went back up in the clouds.									
IDZ002	09	1545MST- 1550MST			0	0	4	0	Tornado (F2)
A small tornado demolished two new feeding sheds for cattle, causing about \$30,000 in damage. Each shed was about 180 feet long, 10 feet wide and made of concrete walls, steel poles, and heavy laminated timbers. Several cows had cuts and abrasions.									
IDZ002	10	1510MST- 1515MST			0	0	3	0	Tornado (F1)
A small tornado lifted a heavy metal roof off a cattle shed.									
IDZ003	14	1145MST- 1155MST			0	0	0	0	Funnel Cloud
A funnel cloud was sighted briefly before it dissipated.									
ILLINOIS									
Madison County Edwardsville	02	1430CST Estimated			0	3	4	?	Thunderstorm Wind
One person was injured when struck indirectly by lightning and two students had to swim to shore after their boat was capsized on Tower Lake. Damage was also done to power lines and trees.									
Overview	On June 2nd, for about two hours southeastern Illinois was struck by a severe weather system that spawned 12 tornado tracks. One person was killed, 14 seriously injured; damage estimated at \$20 million. Ten counties were declared a State Disaster Area: Clay, Crawford, Edgar, Edwards, Jasper, Lawrence, Richland, Shelby, Wabash, and Wayne. Floods from May continued through June and were compounded by more severe thunderstorms and flash floods so that parts of Illinois were declared Federal Disaster Areas.								
Shelby County Westervelt Findlay	02	1530CST Estimated	8.0	600	0	2	6	?	Tornado (F2)
A tornado touched down briefly at a farm 0.5 mile west of Westervelt and damaged a barn and trees. It touched down again just east of Illinois Highway 182 about 3 miles west-southwest of Findlay. It moved east-northeast through the western and northern parts of Findlay and ended near Lake Shelbyville about 2.5 miles east-northeast of Findlay. At least 60 homes were damaged and 16 homes destroyed besides other destruction to structures and trees.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

**Jasper County
Newton**

02 1707CST 12.5 200 0 6 5 0 Tornado (F4)

A tornado touched down on the north edge of Newton Lake, moved northeast and entered Newton at 1716 CST. It demolished seven homes and damaged others. It demolished two homes 5 miles northeast of Newton and did more structural damage on the south side of Hunt City and then moved across a small field and lifted.

**Jasper,
Crawford Counties
Near Oblong**

02 1720CST 3.0 50 0 0 4 0 Tornado (F1)

The tornado touched down about 3 miles southwest of Oblong and moved northeast across farm fields into Crawford County. It did structural damage to grain bins and a garage and lifted at 1725 CST just south of Oblong.

**Hamilton, Wayne,
Edwards, Wabash
Counties**

02 1720CST 43.0 300 1 ? 6 ? Tornado (F4)

The tornado touched down north of Aden in Hamilton County, moved northeast across flooded farmland to Interstate 64 at 1736 CST, overturned a truck and littered the highway with trees. It reached Barnhill, Wayne County at 1730 CST, destroyed 10 homes, and damaged 24 others. One minor head injury occurred as a mobile home was disintegrated. The man saw the tornado out his bedroom window and held onto his mattress for safety. He regained consciousness about 100 feet away, still on top of his mattress. The tornado continued moving northeast, damaging a church, other homes, and structures. It reached Albion, Edwards County at 1804 CST and destroyed the Luber-Finer Plant and many other homes and structures. At 1809 CST it moved into Browns, where the only fatality of the day's tornados occurred. An occupant of a destroyed home was thrown 40 feet and was found dead with part of the home on top of her. The tornado moved east-northeast, damaged other homes and structures and at 1825 CST reached the Mt. Carmel city limits. Extensive damage was done to Wabash Valley College and 17 homes. At 1829 CST it crossed the Wabash River and skipped across Indiana another 51 miles for a total length of 94 miles. F54P

**Crawford County
Near Palestine**

02 1740CST 3.0 50 0 0 0 ? Tornado (F0)

The tornado touched down at 1740 CST 2 miles south of Palestine, in east Crawford County, moved northeast across trees and farmland and apparently lifted along the Wabash River about 1.5 miles east of Palestine at 1745 CST.

**Lawrence County
Near Pinkstaff**

02 1745CST 10.0 50 0 1 5 ? Tornado (F2)

A tornado touched down just south of Pinkstaff, northeast Lawrence County, moved northeast and demolished a mobile home and trees. At 1756 CST it was 1 mile east of Birds, where it destroyed a farm and injured a man when it lifted a tractor and set it back down on his leg. The man, his father, and brother were sheltering under the tractor in a barn. At 1800 CST the tornado reached the Wabash River and lifted as it moved into Indiana, but touched down again for a total track length of 13 miles.

**La Salle County
Peru, La Salle**

02 1900CST 0 0 4 3 Thunderstorm Wind
Estimated

Trees were blown over and damaged cars, homes, and structures. Corn and soybeans damaged by winds.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

ILZ001-002-003-
004-009-010

03 1200CST 0 7 5 ? High Wind

Widespread strong winds to near 60 mph caused scattered damage from northern Illinois through east-central Illinois. A 13-mile stretch of Interstate 57 was closed from Arcola to Mattoon because of blowing dust. An accident attributable to blowing dust injured five people. Other people were injured by wind-blown objects. Damage was mostly to trees, power lines, and roofs. Highest recorded wind was 54 knots from the west at 1307 CST at O'Hare Airport, Chicago.

ILZ003

05 1230CST 1 0 4 ? High Wind

Strong gradient winds aided by thunderstorm winds caused damage to power lines, trees, and roofs. At about 1230 CST a man drowned when his boat capsized on Crooked Lake, near the city of Lake Villa in Lake County. Highest recorded wind was 55 knots from the south at 1358 CST at O'Hare Airport, Chicago. (M??O)

Macoupin County
Gillespie

05 1839CST 0 0 ? ? Hail (0.75)

Wayne County
Near Fairfield

06 Early
Estimated 0 0 4 0 Lightning

Lightning killed seven cows huddled together near a wire fence.

Jackson County
2 S
Murphysboro

06 1155CST 0 0 ? ? Hail (1.75)

Calhoun, Jersey,
Madison, Monroe,
Randolph, St. Clair,
Bond, Clinton,
Perry, Washington
Counties
Southwestern
Illinois

06 1700CST 0 0 6 6 Flash Flood
Estimated damage

Widespread flash flooding occurred after heavy thunderstorm rains fell on already soaked soils and drainage areas. The flooding began after morning rains were followed by more thunderstorms in the afternoon. Newspaper accounts indicate although flooding was widespread, no particular location was hard hit or unprepared.

Fayette County
Near Vandalia
St. Clair, Monroe
Counties
E. St. Louis

07 0015CST 0 0 ? ? Hail (1.00)

07 0900CST
Estimated 0 0 ? ? Flash Flood

Flash flooding occurred after heavy thunderstorm rains fell on already soaked soils and full drainage areas.

Franklin County
Ziegler
McDonough County
MaComb

07 1545CST 0 0 ? ? Hail (1.75)

07 2050CST 0 0 ? ? Hail (1.00)

Tazewell County
Pekin, Morton

08 0100CST 0 0 ? ? Flash Flood

Flash flooding occurred after heavy thunderstorm rains fell on already full drainage areas and soaked soils.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Woodford County Near Washburn	13	1950CST			0	0	?	?	Thunderstorm Wind (G52)
3 W Eureka	13	1957CST	0.1	50	0	0	0	0	Tornado (F0)
A brief tornado touched down.									
McLean County Near Bloomington	13	2003CST	?	?	0	0	?	?	Tornado (F1)
A tornado touched down and caused some damage.									
La Salle County Near Ottawa	13	Evening			0	0	?	?	Hail (2.00)
Near Streator	13	2115CST			0	1	4	?	Thunderstorm Wind
Trees were uprooted by thunderstorm winds. A police officer was reported injured, no details available.									
Du Page	13	2115CST			0	0	?	?	Thunderstorm Wind
Power lines were knocked down over the county.									
Cook, Lake Counties	13	2130CST			0	0	?	4	Thunderstorm Wind (G52)
Many trees were uprooted by winds estimated to at least 60 mph in south Lake and north Cook counties. A probable downburst caused a half-mile-wide strip of damage to buildings through the center of Wheeling to near Northbrook. Near Killdeer, Lake County, a bolt of lightning hit a car, knocked it 4 feet and off the road. The driver was shaken but not injured.									
Jackson County 7 WSW Murphysboro	14	1006CST	0.2	50	0	0	4	0	Tornado (F1)
Emergency Services and Disaster Agency reported a tornado touched down and damaged a house and TV antenna.									
Whiteside, Rock Island Counties	16	1130CST Estimated			1	3	6 Estimated	6 Estimated	Flash Flood
One crewman was killed and three others injured when a train derailed on a bridge embankment that had washed away. Widespread flooding occurred in the area around Moline when train-echo thunderstorms caused heavy rain on already soaked soils and full drainage areas. Rainfall amounts were mostly near 6 inches.									
Hancock County Nauvoo State Park	16	1600CST			0	0	5	?	Tornado (F1)
A tornado damaged buildings and valuable trees in Nauvoo State Park. Trees were blown onto homes in Nauvoo with winds estimated at 70 mph.									
Hancock County 26 S BRL	16	1610CST			0	0	4	0	Thunderstorm Wind (G56)
Thunderstorm winds with falling trees damaged two homes and a car.									
Whiteside, Rock Island Counties	16	1800CST Estimated			0	0	5 Estimated	5 Estimated	Flash Flood
Train-echo thunderstorms caused heavy rain to fall on already flooded areas.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Hancock County	16	1900CST Estimated			0	0	4	4	Flash Flood
							Estimated		Flooding occurred after heavy thunderstorm rains.
Carroll County Near Mt. Carroll	17	0130CST			0	0	4	0	Thunderstorm Wind
									Damage to buildings and trees near Mt. Carroll.
Whiteside County 30 NE MLI	17	0215CST			0	0	3	0	Thunderstorm Wind
									Damage to trees and homes at Erie.
Ogle County 25 SW RFD	17	0323CST			0	0	3	0	Thunderstorm Wind
									Two large trees were blown down on Lowden Road, 2 miles south of Oregon in Ogle County.
Lee County 30 S RFD	17	0331CST			0	0	4	0	Thunderstorm Wind
									Several large trees and power lines down in Dixon.
DeKalb County 30 SE RFD	17	0345CST			0	0	4	0	Thunderstorm Wind
									A barn and row of trees downed 6 miles west of DeKalb.
Whiteside, Rock Island Counties	17	0400CST Estimated			0	0	5	5	Flash Flood
									Train-echo thunderstorms caused heavy rain to fall on already flooded areas.
De Witt County Midland City	17	1605CST			0	0	?	?	Hail (1.75)
Piatt County Bement	17	1800CST			0	0	4	0	Thunderstorm Wind
									Thunderstorm winds damaged trees, cars, and buildings.
Champaign County 9 SW Champaign	17	1830CST			0	0	4	0	Thunderstorm Wind
									Four grain bins were ripped from concrete foundations and destroyed 4 miles south of Sadorus.
Madison County Godfrey 7 WNW ALN	17	1832CST			0	0	?	?	Hail (1.75)
Montgomery County Litchfield	17	1900CST			0	0	?	?	Hail (0.75)
Grundy County 2 E Morris	17	1910CST			0	0	?	?	Hail (0.75)
Crawford County Robinson	17	2130CST			0	0	3	0	Thunderstorm Wind
									A few trees were downed by thunderstorm winds.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Mason County
Havana

19	2330CST Estimated			0	0	?	?	Thunderstorm Wind (G61)
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Estimated 70 mph thunderstorm winds.

Menard County
Near SPI

20	0005CST			0	0	?	?	Thunderstorm Wind (G65)
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Windows were blown out of a house 5 miles east of Oakford. Damage to trees by winds and small hail 8 miles east of Petersburg.

Logan County
Chestnut

20	0005CST Estimated			0	0	5	?	Thunderstorm Wind
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A 500,000-bushel grain elevator sustained heavy damage. Trees and roofs were damaged throughout Logan County.

Sangamon County
5 W SPI

20	0015CST	0.2	100	0	0	4	?	Tornado (F1)
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A brief tornado touch down stripped bark and twisted off some trees. Winds were reported 70 mph (61 knots) 0.5 mile north of junction Illinois Routes 97 and 125. Other trees were damaged in Springfield.

De Witt County
Clinton

20	0030CST			0	0	4	?	Thunderstorm Wind
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Thunderstorm winds damaged many trees, structures, and power lines. A truck and trailer were turned over.

Macon County
4 WNW DEC

20	0035CST			0	3	5	?	Thunderstorm Wind
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Four miles west-northwest of Decatur a trailer home was destroyed and 2 occupants injured. Another injury was reported and other barns destroyed, details unavailable.

Woodford County
21 NE PIA

20	0045CST			1	4	5	?	Flash Flood
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One fire fighter was killed and four others badly injured when a bridge collapsed under their emergency van as it was crossing. The collapse was caused by the flooding waters and these men were on a rescue mission. The death occurred when a 41-year-old crew member stepped from the van to check on another crew member and disappeared. The bridge had collapsed from under him. A search through the morning and day did not find his body. (M41V)

Macon County
Decatur

20	0054CST			0	0	?	?	Thunderstorm Wind (G65)
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**Champaign, Douglas
Counties**
Pesotum, Villa
Grove
9 SE CMI

20	0055CST	8.0	100	0	0	6	?	Tornado (F2)
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A tornado touched down in Pesotum and skipped south and then east-southeast to Villa Grove. It destroyed and damaged buildings and trees. It did extensive damage at a farm 1 mile east of Pesotum. An estimated \$1 million damage was done to a grain elevator near Royal. Other scattered damage to trees and structures in Champaign County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Douglas County Villa Grove	20	0110CST			0	0	6	?	Thunderstorm Wind Heavy damage to trees and buildings.
Coles County Mattoon	20	0123CST			0	0	4	?	Thunderstorm Wind (G56) Central Illinois Public Service Company recorded a 65 mph wind gust and 1.65 inches of rain. Thunderstorm winds caused damage from Mattoon to Charleston.
Christian County Taylorville	20	0125CST			0	0	?	?	Hail (1.75)
Moultrie County Sullivan	20	0140CST			0	0	4	?	Thunderstorm Wind Heavy damage to trees, roofs, and power lines.
Rock Island, Henry Counties	20	0100CST Estimated			0	0	5	5	Flash Flood Heavy rain from thunderstorms caused flash flooding.
Mercer County	20	0141CST			0	0	?	?	Flash Flood A mudslide closed a 2 mile section of U.S. Route 67 south of Viola. Other flash flooding throughout the county.
Cumberland County Neoga	20	0230CST			0	0	3	?	Thunderstorm Wind Damage to trees and structures.
Crawford County 4 N Robinson	20	0230CST	4.0	100	0	0	4	?	Tornado (F1) An intermittent tornado was first reported as a funnel cloud west of Trimble and then touched down, destroyed and damaged buildings for about 4 miles to west of Mount Ephraim.
Cass, Morgan Counties	20	0300CST			0	0	5	5	Flash Flood At Ashland in Cass County, 6.50 inches of rain in 6 hours caused extensive flooding and damage. Flooding also over Morgan County.
De Witt County	20	0300CST			0	0	4	?	Thunderstorm Wind Scattered heavy damage to trees and power lines.
Warren, Tazewell, Knox, Fulton, Hancock, Woodford, McDonough, Schuyler, Peoria Counties	20	0400CST Estimated			0	0	5	5	Flash Flood Widespread flash flooding caused by train-echo thunderstorms with heavy rain on already flooded drainage areas and soaked soils.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

ILLINOIS Cont'd

**Sangamon, Cumberland,
Coles, Clark,
Edgar Counties**

20 0500CST
Estimated 0 0 5 5 Flash Flood

Widespread flash flooding caused by train-echo thunderstorms with heavy rain on already flooded drainage areas and soaked soils.

**Marion County
Centralia**

20 Morning 0 0 ? ? Thunderstorm Wind

Thunderstorm winds damaged trees with localized flooding reported.

**Grundy County
Morris**

20 1500CST 0 0 4 0 Thunderstorm Wind

Grundy County Emergency Services reported a severe thunderstorm caused damage to trees, electrical wires, and structures. During a 1-hour period, winds gusted to 60 mph, rainfall totaled 1.25 inches, and hail to 1 inch covered the ground. Lightning struck a mobile home which was destroyed by fire. Numerous vehicles were damaged by hail. In Morris several roads were closed for 3 hours due to fallen trees.

Grundy County

21 1530CST 0 0 ? 4 Hail (1.00)

Crop damage due to wind and hail was reported in northwest Grundy County, totally destroying crops in some fields. Other crops may be stunted but should recover.

**Adams County
Quincy**

22 0600CST
Estimated 0 0 3 0 Thunderstorm Wind

Damage occurred to trees and power lines.

**Kankakee, Iroquois
Counties
Near Chebanse**

22 1725CST 3.0 100 0 0 5 0 Tornado (F2)

A tornado touched down on northeast Chebanse and skipped southeast across Interstate 57 for a total path length of 3 miles. Damage was heavy to a four-block area of Chebanse, then a barn near Interstate 57 was destroyed. Other buildings, trees, and power lines were damaged. A trucker southbound on Interstate 57 saw the tornado and parked his rig across the road to block traffic from danger.

**Adams County
Quincy**

22 1749CST 0 0 ? ? Thunderstorm Wind (G56)

Winds of 64 mph measured at Quincy Airport were caused by thunderstorm gusts combined with strong gradient winds.

**Woodford County
Germantown Hills**

22 1800CST 0.5 50 0 0 4 0 Tornado (F1)

A tornado damaged the water district building and a garage roof. It was seen by a number of residents, who reported seeing birds caught in it. A funnel cloud was sighted near Washington.

**Adams County
Near Kingston**

22 1820CST 0 0 0 ? Thunderstorm Wind (G61)

Winds of 60 to 70 mph, small hail, and small trees downed just west of Kingston.

Pike County

22 1842CST 0 0 4 ? Thunderstorm Wind (G52)

Winds above 60 mph were caused by thunderstorm gusts combined with gradient winds to damage trees and power lines from Griggsville to Pittsfield.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Montgomery County	22	2000CST Estimated			0	0	3	0	Thunderstorm Wind
Damage was reported to trees and power lines. Funnel clouds were sighted near Litchfield and south of Hillsboro.									
Madison County	22	2020CST			0	0	4	0	Thunderstorm Wind (G52)
Thunderstorm winds combined with gradient winds caused damage to trees and power lines from Livingston to Edwardsville.									
Rock Island County Andalusia	27	1850CST			0	0	4	?	Thunderstorm Wind (G52)
Trees were blown down on house and power lines.									
Mercer County 15 SW MLI	27	1856CST			0	0	?	?	Thunderstorm Wind (G52)
Thunderstorm winds reported to 60 mph with tree limbs downed.									
Carroll County 50 SW RFD	28	1504CST			0	0	0	?	Thunderstorm Wind
Trees down at Mt. Carroll.									
Ogle County 30 SW RFD	28	1512CST			0	0	0	?	Thunderstorm Wind
Winds in excess of 60 mph downed trees 2 miles east of Forreston.									
Whiteside County Near Erie	28	1600CST			0	0	3	0	Thunderstorm Wind
Damage to trees and fences.									
Ford County Paxton	28	1800CST			0	0	?	0	Thunderstorm Wind
Trees were damaged.									
Livingston County Near Pontiac	28	1813CST			0	0	4	0	Thunderstorm Wind
Trees and buildings damaged.									
Winnebago County Rockton	29	0005CST Estimated			0	0	6	?	Thunderstorm Wind
Thunderstorm winds damaged trees and homes.									
Boone County Belvidere	29	0015CST			0	0	4	?	Thunderstorm Wind
Thunderstorm winds damaged trees and power lines.									
Stephenson County 20 NW RFD	29	0015CST			0	0	?	?	Thunderstorm Wind
Large tree limbs downed near Dakota. Reported by Stephenson County Sheriff's Department.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

McHenry County Woodstock	29	0035CST			0	0	?	?	Thunderstorm Wind (G63)
Thunderstorm winds reported at 73 mph.									
Winnebago County Rockford	29	0040CST			0	0	4	3	Thunderstorm Wind
Trees and power lines downed all across Rockford.									
Ogle County 10 SW RFD	29	0105CST			0	0	3	0	Thunderstorm Wind
Power lines downed at Davis Junction and trees downed at Byron.									
DeKalb County 25 SE RFD	29	0115CST			0	0	3	0	Thunderstorm Wind
Trees and power lines downed at Sycamore.									
Jo Daviess County 60 W-50 W RFD	29	0120CST			0	0	4	0	Thunderstorm Wind
Trees and power lines downed at Elizabeth and Stockton.									
Stephenson County 35 W RFD	29	0125CST			0	0	0	?	Thunderstorm Wind
Trees downed on a house in Pearl City.									
Carroll County 55 SW RFD	29	0130CST			0	0	0	?	Thunderstorm Wind
Trees downed at Thomson.									
Lee County 35 SW-45 SW RFD	29	0145CST			0	0	4	?	Thunderstorm Wind
Trees and power lines downed at Dixon and Harmon.									
Henry County Kewanee	29	0200CST			0	0	4	0	Thunderstorm Wind
Damage to trees and power lines.									
DeKalb County	29	0200CST			0	0	4	0	Thunderstorm Wind
Damage to trees and power lines.									
La Salle County	29	0200CST			0	0	4	0	Thunderstorm Wind
Damage to trees and power lines throughout the county. House roof destroyed 2.5 miles northwest of Grand Ridge.									
Rock Island, Henry Counties	29	0400CST			0	0	?	?	Flash Flood
Thunderstorms caused heavy rainfall from about 0200 CST to 0600 CST. The ground and waterways were already full, so widespread flooding resulted over much of northwestern Illinois. Rock Island County had flash floods by 0400 CST. Rain amounts were from 3.00 to 6.50 inches.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Lake County
Near Round Lake

29 0515CST 0.5 100 0 0 4 0 Tornado (F1)

A tornado touched down and tossed storage sheds hundreds of feet, shifted trailers, and damaged porches. Other wind damage reported in southwest Lake County.

Cook County
Streamwood
14 W ORD

29 0710CST 1 6 7 0 Thunderstorm Wind (G130+)

A microburst wind estimated more than 150 mph did extensive damage at a business and construction complex. Concrete walls were blown down. A combination concrete block and brick wall collapsed on a man, who died several days later. Three other people were injured seriously. At least \$10 million damage was done to 25 stores and industrial buildings. Radar and eyewitness accounts indicated no rain or thunderstorms in the immediate vicinity of the damaged area at the time of the event. Thunderstorms associated with the overhead anvil clouds were at least 60 to 90 miles southwest-west-northwest of Streamwood. Rain was falling just south of Streamwood. (M210)

Cook County
ORD

29 0724CST 0 0 ? 0 Wind (G50)

Strong outflow from thunderstorms 50 to 80 miles away to the south-southwest and west peaked at 0724 CST with a gust of 50 knots at O'Hare Airport, Chicago.

Tazewell, McLean, Peoria, Woodford Counties

29 0830CST
Estimated 0 0 ? ? Flash Flood

Heavy rain from slow-moving thunderstorms caused widespread floods over central Illinois. These areas already had full waterways and saturated soils.

Whiteside County

29 0900CST
Estimated 0 0 ? ? Flash Flood

Flash flooding resulted from slow-moving thunderstorms earlier in the morning. The rain fell on already flooded waterways.

Kankakee County

29 1000CST 0 0 4 ? Thunderstorm Wind

Damage to trees, power lines, structures, and vehicles scattered throughout the county.

Peoria, Tazewell, Mason Counties

30 0200CST
Estimated 0 0 ? ? Flash Flood

Thunderstorms with heavy rain moved across already flooded areas and caused localized flash flooding.

Wabash County
29 NNW EVV

30 1135CST 0 0 ? ? Thunderstorm Wind

Several trees downed at Mt. Carmel.

Cook County
20 NW ORD

30 1405CST 0 0 ? ? Hail (0.75)

Lake County
Near Lake Forest

30 1430CST 0 0 ? ? Hail (0.75)

Large hail and heavy rain stopped traffic on Interstate 94.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ILLINOIS Cont'd

Peoria, Tazewell,
Woodford Counties

30	1500CST Estimated			0	0	?	?	Flash Flood
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Thunderstorms with heavy rain moved across already flooded areas and caused localized flash flooding.

INDIANA

Newton County
Brook

02	1740EST			0	0	0	0	Thunderstorm Wind
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Fountain County
Kingman

02	1800EST			0	0	0	0	Thunderstorm Wind
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Trees were blown down.

Vermillion County
2 SW Dana
5 E Dana
.5 N Dana

02	1811EST-			0	0	5	?	Tornado (F2)
	1818EST	6.5	150	0	0	4	?	Tornado (F0)
02	1815EST	1	40	0	0	4	?	

Parke County
.5 NW Annapolis
1 SW Byron

02	1823EST	0.5	50	0	0	0	?	Tornado (F0)
02	1828EST	0.2	30	0	0	3	?	Tornado (F0)

Montgomery County
2 S Crawfordsville
1 SE Darlington

02	1850EST-			0	12	6	?	Tornado (F2)
	1900EST	10	100	0	12	6	?	

Boone County
5 W Thornstown
2 SE Colfax

02	1910EST	4.5	30	0	1	4	?	Tornado (F1)
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Clinton County
2 SE Frankfort
Michigantown

02	1925EST-			0	0	4	?	Tornado (F1)
	1934EST	6	30	0	0	4	?	

A supercell thunderstorm produced a series of tornadoes. The first tornado touched down 1 mile southwest of Horace, Illinois at 1753 EST. The tornado lifted 3 miles east-northeast of Horace but touched down again about 2 miles west of the Indiana border and entered Indiana 2 miles southwest of Dana. The total length of the tornado was 18 miles. The tornado moved from just south of Dana to near the intersection of S.R. 63 and U.S. 36. A second smaller tornado touched down briefly on the north side of Dana.

A funnel cloud was observed north of Montezuma. A tornado touched down briefly near Annapolis and again near Byron. The small tornadoes caused tree damage. A porch was damaged near Byron. A funnel cloud was spotted again passing over Turkey Run State Park.

In Montgomery County the storm reached its greatest intensity. The funnel was observed northwest of New Market and southwest of Crawfordsville. The tornado touched down on the south side of Crawfordsville and produced a nearly continuous path of damage through the south and east side of Crawfordsville to Garfield to just south of Darlington. Fourteen homes and two mobile homes were extensively damaged and several others had minor damage. A lumber yard and apartment complex southeast of Crawfordsville were damaged. A tractor-semitrailer was blown off Interstate 74 injuring two people. Two other people were injured in vehicles in the Crawfordsville area. Several barns and outbuildings were flattened northeast of Crawfordsville. A double wide mobile home near Darlington was picked up and thrown across a road where it disintegrated. Six occupants were injured, one seriously.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

The Thorntown town marshal witnessed three funnel clouds approaching 5 miles west of town. One dipped down briefly destroying two barns and damaging a house. The funnels turned north where the Colfax town marshal witnessed two brief touchdowns southeast of town. Windows were blown out at a home and a barn and some trees were damaged. The skipping tornado was on the ground about 10% of the time.

The same storm produced a brief tornado near Frankfort which damaged the roof of The Red Barn, a dinner theater. A barn and trees were hit by the tornado near Michigantown. This skipping tornado was also on the ground about 10% of the time.

Vermillion County									
.5 W St. Bernice	02	1825EST-							
3 NE St. Bernice		1830EST	4	100	0	6	5	?	Tornado (F2)
Boone County									
2 SSE Lebanon	02	1935EST	0.5	30	0	0	5	?	Tornado (F1)
3 W Gadsden	02	1937EST-							
2 ESE Elizaville		1943EST	6	30	0	0	4	?	Tornado (F0)
4 SW Terhune	02	1943EST-							
4 WSW Ekin		1951EST	7	30	0	5	4	?	Tornado (F1)

Another supercell thunderstorm produced a series of mostly weak short tornadoes. The most extensive damage was in St. Bernice where 20 homes were damaged. An old three-story brick building was leveled. The building was once the high school but was converted to a sewing factory. A convenience store was also damaged. This tornado began 8 miles east-northeast of Paris, Illinois. The total length was 8 miles.

The storm didn't produce another tornado until it reached central Boone County. Two hangars and six planes were damaged at the Lebanon Airport, causing \$200,000 damage. Another weak tornado damaged several barns, tree tops, and tree limbs west and north of Gadsden before ending southwest of the intersection on Highways 47 and 421. At the same time, another tornado developed about a mile north and produced intermittent damage to barns and trees. Windows were blown out at a farm home near Terhune injuring five people. The tornado moved from Boone County to the extreme southeast corner of Clinton County 2 miles northeast of Terhune and into Hamilton County, 3 miles northeast of Terhune.

Starke County									
5 S Knox	02	1840EST			0	0	?	0	Thunderstorm Wind

Several large trees were down blocking the road at Bass Lake and Range Road.

Parke County									
2 S Catlin	02	1845EST	0.5	20	0	0	0	?	Tornado (F0)
2 S Hollandsburg	02	1900EST	0.2	20	0	0	0	?	Tornado (F0)
Putnam County									
2 W Morton									
Fincastle	02	1910EST			0	0	?	?	Hail (1.75)
Putnam, Hendricks Counties									
New Maysville	02	1930EST-							
3 S North Salem		1935EST	3.5	50	1	6	5	?	Tornado (F2)
Hamilton County									
4 NNE Noblesville	02	2020EST	0.2	20	0	0	0	?	Tornado (F0)

A third supercell produced a series of weak to strong tornadoes in central Indiana. Small tornadoes caused tree damage near Catlin and Raccoon Lake. A strong tornado demolished a mobile home near New Maysville killing a woman and injuring her husband. Another farm home was also damaged. The tornado crossed into Hendricks County 2 miles northeast of New Maysville where it destroyed a house, injuring five people. A nearby mobile home was also destroyed. Tornado (F56M).

Spotters in Hamilton County saw a tornado touch down briefly near Morse Reservoir and north of Noblesville, where two trees were uprooted.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

INDIANA Cont'd

Sullivan County 1 W Fairbanks	02	1845EST	0.1	30	0	0	0	?	Tornado (F0)
Marshall County 4 S Plymouth	02	1850EST			0	0	?	0	Thunderstorm Wind
Several large trees were blown down at 13th Road and U.S. 31.									
White County Brookston	02	1855EST			0	0	0	0	Thunderstorm Wind
Trees were blown down and a farm building was damaged west of Brookston.									
Knox County 4 WSW Oaktown Oaktown	02	1900EST- 1910EST	4	50	0	0	4	?	Tornado (F0)
Greene County 2.5 WNW Switz City, 4 E Worthington	02	1930EST- 1940EST	10	50	0	0	6	?	Tornado (F2)

A tornado formed 1.5 miles north of Bridgeport, Illinois, south of Pinkstaff. The tornado moved northeast, then lifted as it crossed the Wabash River into Indiana 4 miles west-southwest of Oaktown. It touched down briefly in an open field near Oaktown, downing tree limbs and power lines. Total length was 13 miles.

A funnel cloud was spotted near Goose Pond, 2 miles south of Linton. The funnel passed over the southern part of Linton and then touched down 2.5 miles west-northwest of Switz City. It skipped northeast. It then produced nearly continuous damage from 0.5 mile southeast of Worthington to just west of Calverville. Four homes were destroyed and several others were damaged. Many trees were uprooted or broken. Several farm buildings were destroyed. Several hogs and 50 rabbits were lost at farms. The most intense damage was on hills either side of the White River south and southeast of Worthington.

Pulaski County 4 W Winimac	02	1904EST			0	0	?	0	Thunderstorm Wind
Several large trees and power lines were blown down.									
Cass County Georgetown Eastern Cass County	02	1910EST	0.1	20	0	0	0	?	Tornado (F0)
	02	1925EST			0	0	?	0	Thunderstorm Wind

A brief touchdown of a "mini" tornado was seen at Georgetown by a spotter. A funnel cloud was spotted over Logansport minutes later. Trees were blown down in eastern Cass County.

Daviess, Martin Counties 1 SW Montgomery 1.5 N Loogootee	02	1919EST- 1929EST	7	200	0	0	5	6	Tornado (F3)
Lawrence County 2 NE Bryantsville 5 ENE Bedford	02	1950EST- 2015EST	11	400	1	51	6	?	Tornado (F4)
Jackson County 5 SW Clear Spring 3 NW Seymour	02	2020EST- 2045EST	18	200	0	9	6	?	Tornado (F4)
Jackson, Jennings Counties 1 SW Reddington 2 NE Scipio	02	2055EST- 2110EST	10	40	0	2	4	?	Tornado (F1)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Decatur County 20 S Greensburg	02	2115EST	0.1	10	0	0	?	?	Tornado (F0)
Jennings County 2 W Hayden 1.5 NE Zenas	02	2105EST- 2125EST	18	60	0	0	5	?	Tornado (F2)
Ripley, Dearborn Counties 2 NW Holton 1 E New Alsace	02	2130EST- 2200EST	25	0.25	0	3	5	?	Tornado (F2)
Dearborn County 2 W Bright 1 S West Harrison	02	2200EST- 2210EST	6	0.5	0	21	6	?	Tornado (F4)

A tornado set down just southwest of Montgomery, damaging eight homes and tearing the roofs off several businesses. The tornado moved through open farmland destroying farm outbuildings and trees. The tornado entered Martin County 1.5 miles north-northwest of Loogootee. High tension towers were destroyed 3.5 miles east-northeast of Cannelburg.

A second tornado was spawned by this storm in Lawrence County. The twister struck several homes and mobile homes along U.S. 50. The tornado reached its maximum intensity when it hit several businesses at U.S. 50 and State Road 37. At this point the damage path was 0.5 mile wide. The tornado crossed the White River destroying high tension towers, cabins, and trees. A mobile home park was hit. Several trailers were destroyed. A 15-month-old baby was killed. In Lawrence County 12 homes and 29 trailers were destroyed. Tornado (M01M).

A third tornado mowed through rural Jackson County. The tornado leveled hundreds and hundreds of trees up and down hills. Forty-four homes were damaged in Jackson County. Ten homes were leveled and 11 mobile homes were destroyed. Many barns and other farm buildings were also damaged or destroyed. A second weak (F0) tornado paralleled the parent vortex 2 miles south of Clear Springs and 3.5 miles northwest of Brownstown near State Road 135. The length of the small tornado was 1.5 miles and the width 30 yards. The total width of the damage from the twin tornadoes was 0.4 of a mile. The tornado lifted 1 mile northeast of Cortland.

A weak tornado re-formed near Reddington and skipped along to near Scipio. The tornado crossed into Jennings County 2 miles northeast of Reddington. The storm continued into southern Decatur County where spotters observed a brief touchdown 10 miles south of Greensburg.

Radar showed that the complex supercell that produced these tornadoes developed another mesocyclone south of this path. While weak (F0) tornadoes were produced by the original weakening mesocyclone at Scipio and in Decatur County, a new mesocyclone spawned funnel clouds near Medora, west and north of Brownstown. A tornado developed in Jennings County 2 miles west of Hayden and moved north of North Vernon damaging the airport. Eight planes were destroyed. The terminal building was shifted off its foundation and other buildings and hangars were damaged. Twenty-two homes were damaged. Three brick homes on State Road 3, 1.5 miles north of North Vernon, had their roofs completely taken off. The twister weakened and skipped along to near Zenas.

Another tornado developed in Ripley County near Holton. It crossed into Dearborn County 1 mile southeast of Sunman. The tornado damage was mostly to trees. In western Ripley County, Hopewell Church, which was built in 1838, was completely destroyed. The tornado dissipated near New Alsace but another tornado developed 2 miles west of Bright. This tornado was stronger. Four brick homes in Still Meadows were taken to the ground. Homes in Bright and West Harrison were severely damaged. Over 50 homes were destroyed in Dearborn County. The tornado crossed into Ohio 1 mile south of West Harrison and continued. The total path length of the tornado was 28 miles.

LaGrange County
Howe

02	1920EST			0	0	4	0	Thunderstorm Wind
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Numerous trees and power lines were downed 0.5 mile east of Howe.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

**Knox, Gibson, Pike,
Daviss, Martin,
Orange, Lawrence
Counties**

Orrville 02 1929EST-
2 SE Huron 2045EST 57 200 0 11 6 6 Tornado (F4)

Orange County

1.5 SW
Orangeville 02 2054EST-
1 E Orleans 2110EST 11.5 50 0 0 1 ? Tornado (F1)

Washington County

1.5 SW
Campbellsburg 02 2117EST-
2 NE 2120EST 3.5 30 0 0 0 ? Tornado (F0)

**Washington, Jackson,
Scott, Jefferson
Counties**

1 S Millport 02 2125EST-
1 NE Lancaster 2217EST 29 150 0 0 5 ? Tornado (F3)

Jennings County

Commiskey 02 2150EST 0 0 ? ? Thunderstorm Winds

A tornado touched down near Aden, Illinois. It lifted briefly as it crossed the Wabash River into Indiana just north of East Mt. Carmel in Knox County. The tornado crossed into Gibson County 2 miles west of Hazleton, into Pike County 4 miles east of Hazleton. It moved along the White River straddling Knox, Pike, and Daviss counties from 1 mile northwest of Bowman to 7 miles northeast of Petersburg. The tornado destroyed a barn near Orrville, then skipped along the White River before dropping to the ground to stay at 1940 EST 3 miles west of Hazleton. The tornado damaged a home and left a path of downed trees before it crossed U.S. Highway 41. As the tornado passed through Hazleton, it damaged or destroyed many homes and downed hundreds of trees. The tornado moved along the White River through southern Knox and northern Pike counties, causing extensive damage to wooded areas. Several high tension towers were severely twisted between Highways 61 and 57 about 4 miles north of Petersburg. The damage path was 300 yards wide in this area. The tornado caused over \$1 million in damage to homes and farm outbuildings in southern Daviss County. Ten homes were destroyed and 35 were damaged. A small (F0) tornado was observed 0.4 of a mile south of the parent vortex 2 miles northwest of Alfordsville. The length of the mini tornado was 1.5 miles and the width was 30 yards. The tornado moved into Martin County near Whitfield. Four people were injured when a tree crushed a cabin at Hindustan Falls, south of Shoals. Several other cabins were also damaged. The tornado then skipped through the Hoosier National Forest downing many trees. The tornado entered Orange County 3 miles south-southwest of Huron and entered Lawrence County 3 miles south-southeast of Huron. The total damage path through Illinois and Indiana was 94 miles. There was one injury in Gibson County, six minor injuries in Daviss County and four in Martin County. Over 60 homes were damaged in Indiana by this tornado.

A weak tornado skipped through Orangeville and Orleans and another touched down briefly near Campbellsburg. Another tornado touched down near Millport. This tornado toppled trees along the Muscatatuck River and crossed into Jackson County 3 miles south of Tampico. At this point a weak (F0) tornado paralleled the parent vortex 0.3 of a mile south. The length of the mini tornado was 3 miles and the width was 30 yards. The tornado moved into northern Scott County 2 miles east of Crothersville. It skipped across northern Scott County and moved through northwest Jefferson County 2 miles southeast of Paris Crossing. It was around 0.5 mile wide at this point. It ended near Lancaster. Damage was mainly to trees and farm buildings. Fifteen homes were damaged, five severely. One was completely destroyed. Downburst winds blew down trees in Commiskey, north of the track of the tornado. The storm moved into Ohio County where a funnel was spotted near Rising Sun.

Fulton County
1 N Fulton
Akron

02 1945EST 0 0 3 0 Thunderstorm Wind
02 1945EST 0 0 3 0 Thunderstorm Wind

A garage and storage shed were damaged by thunderstorm winds near Fulton. At Akron, numerous large trees were downed, one damaging a house. Some shingles and tin were peeled off roofs.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Cass, Miami Counties

02	2005EST			0	1	4	0	Thunderstorm Wind
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Trees were blown down north and east of Logansport and between Denver and Macy. A trailer was damaged in Miami County injuring one person.

Kosciusko County State Road 15 at Wabash County Line Silver Lake Wabash County North Manchester 3 W N. Manchester

02	2000EST			0	0	?	?	Hail (0.75)
02	2025EST			0	0	?	?	Hail (1.00)
02	2000EST			0	0	4	?	Hail (1.00)
02	2010EST			0	0	?	?	Hail (1.75)

Hail caused automobile and minor home damage at North Manchester.

Hamilton County Sheridan

02	2003EST			0	0	3	0	Thunderstorm Wind
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Power lines and tree limbs were down west of Sheridan. Store front windows were blown out in Sheridan.

Gibson, Pike Counties 2 W Union Alford Washington County 1.5 SE Salem 1 NW South Boston Clark, Jefferson Counties 1 SE Marysville 6 ENE New Washington

02	2017EST- 2045EST	13	200	6	60	7	6	Tornado (F4)
02	2203EST- 2209EST	4.5	150	0	2	5	?	Tornado (F2)
02	2240EST- 2255EST	11	0.25	0	4	5	?	Tornado (F3)

A tornado touched down 2 miles west of Union in Gibson County and crossed into Pike County at Union. A house was blown 30 feet off its foundation, but left intact. A house across the street was totally disintegrated, killing both occupants. The tornado moved east-northeast leaving a well marked path through wooded areas just south of Bowman and parallel to State Road 56. The tornado struck Petersburg at 2040 EST, destroying a nursing home, an apartment complex, and eight to ten homes. Three people were killed in this area. In Petersburg a woman was severely injured and she later died. This was Indiana's deadliest tornado since the super outbreak of April 3, 1974. The tornado moved through the business district where 19 businesses were destroyed. The tornado moved into a residential area destroying another 168 homes and damaging over 400. The elementary school on the southeast side of town was also damaged. Tornado M76P, F76P, M79P, F84P, M74M, F66P.

A tornado struck the west edge of the Southway Villa Trailer Court south of Salem. Seven mobile homes were destroyed and around 15 were damaged. The tornado then damaged several homes and destroyed a barn south of Harristown where the railroad tracks cross State Road 160.

A tornado touched down near Marysville and created a continuous damage path to the Ohio River near the partially constructed Marble Hill Nuclear Power Plant. Hundreds of trees were uprooted or broken. The damage path was 0.5 mile wide in places north and northeast of New Washington but the core of the most intense damage was about 200 yards wide. Many farm buildings and several homes and mobile homes were severely damaged. The tornado moved from Clark into extreme southern Jefferson County 3 miles east-northeast of New Washington. The tornado crossed the Ohio River into Trimble County, Kentucky and ended northeast of Bedford. Total length was 17 miles.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Noble County	02 2032EST				0	0	3	0	
Kendalville	02 2033EST				0	0	3	0	Thunderstorm Wind
3 N Merriam									Thunderstorm Wind

Numerous trees and power lines were downed by thunderstorm winds.

Madison County	02 2035EST				0	0	?	?	Hail (1.00)
Anderson									Thunderstorm Wind

Quarter-size hail fell and trees were blown down.

Whitley County	02 2040EST				0	0	4	0	Thunderstorm Wind
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Numerous trees were blown down and several barn roofs were blown off throughout the county.

Dekalb County	02 2040EST				0	0	5	0	Thunderstorm Wind
Auburn	02 2046EST				0	0	4	0	Thunderstorm Wind
Waterloo									

Winds estimated at 80 mph caused major damage to eight aircraft at the Dekalb County Airport just south of Auburn. Major damage was also done to several hangars. Total damage was estimated at \$480,000. In Waterloo, numerous 3- to 4-inch tree limbs were downed and one 12-inch diameter limb was downed.

Noble County	02 2040EST	3.5	220		0	9	5	4	Tornado (F2)
4 W Merriam									
3 NNW Merriam									

A tornado touched down near County Roads 500W and 500S and ended near 200W and 200S. Two mobile homes were destroyed and another received major damage. Three barns were destroyed and a fourth was knocked off its foundation. Trees were damaged and a silo was destroyed.

Delaware County	02 2100EST				0	0	?	0	Thunderstorm Wind
Gaston to Eaton									

Tree limbs were blown down and a tree fell across the railroad tracks at Eaton.

Whitley County	02 2107EST				0	0	?	?	Hail (0.75)
Collins									

Allen County	02 2120EST				0	0	3	0	Thunderstorm Wind
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A number of trees were reported down just south of the Allen/Dekalb County line, just off of Interstate 69.

Dekalb County	02 2140EST				0	0	4	0	Thunderstorm Wind
Waterloo to Hamilton									

Numerous trees were downed. There was damage to a home roof northeast of Waterloo.

Warrick County	02 2145EST				0	0	?	0	Thunderstorm Wind
Tecumseh									

Thunderstorm winds uprooted several trees.

Crawford, Harrison Counties	02 2230EST- 2242EST	11	100		0	9	5	?	Tornado (F2)
Riddle									
5 ENE Carefree									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Floyd, Clark
Counties
1 NW Galena
Sellersburg

02 2257EST-2310EST 12 300 0 7 6 ? Tornado (F3)

A tornado touched down near Interstate 64 at Riddle where a tractor-semitrailer was blown off the highway. Three 400-foot-long broiler buildings at a food processing plant were destroyed at Magnolia. Damage to the buildings was \$260,000. Four homes were destroyed and several others damaged 2 miles north of Carefree, injuring several people. An oak tree crushed a car on State Road 66 injuring the driver. The tornado ended at the Blue River just across the Harrison County line about 6 miles east-northeast of Carefree.

Another tornado formed near Galena and moved east-northeast through Floyds Knobs, Hamburg, and Sellersburg. Over 25 homes and mobile homes were destroyed. A bowling alley and several other businesses were heavily damaged in Sellersburg. The damage path was around one quarter of a mile wide in the Floyds Knobs area and 200 yards wide in the Hamburg and Sellersburg area. The historic (1895) New Albany-Paoli Pike Tollhouse was destroyed near Galena.

INZ001-007

03 Late Mrng and Aftn 0 0 ? ? High Wind Blowing Dust

There were sustained winds of 25 to 30 mph and gusts over 40 mph over northern Indiana. The strong winds picked up dust from freshly plowed fields reducing visibility to near zero at times. There were several car accidents. The most notable was a 16-car pileup near South Bend at around 1500 EST. Five people were injured and the U.S. Highway 31 bypass on the west side of South Bend had to be closed.

Clinton County
Mulberry

03 1419EST 2 2 0 0 Thunderstorm Wind

Two children were killed and two other people were injured in Mulberry when a tree blew down in a park. Wind (M060 M090).

Marion County
W side of
Indianapolis

03 1515EST 0 0 0 0 Thunderstorm Wind

A large tree blew down near Rockville Road and Interstate 465.

Montgomery County
Linnsburg

03 1546EST 0 0 0 0 Thunderstorm Wind

A tree was uprooted.

Howard County
Kokomo

03 1515EST 0 0 ? 0 Thunderstorm Wind (G59)

Tipton County
2 E Sharpsville
Groomsville

03 1525EST 0 0 3 0 Thunderstorm Wind
03 1530EST 0 0 4 0 Thunderstorm Wind

Hamilton County
Sheridan

03 1541EST 0 0 ? 0 Thunderstorm Wind

Madison County
Elwood
Alexandria

03 1542EST 0 0 4 0 Thunderstorm Wind

Hamilton County
Atlanta

03 1600EST 0 0 ? 0 Thunderstorm Wind

Marion County
NE side of
Indianapolis

03 1610EST 0 0 ? 0 Thunderstorm Wind

Delaware County
Muncie

03 1610EST 0 0 ? 0 Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Wells County									
Bluffton	03	1615EST			0	2	4	0	Thunderstorm Wind
Jay County	03	1620EST			0	0	4	0	Thunderstorm Wind
Hancock County	03	1630EST			0	0	?	0	Thunderstorm Wind
Henry County									
Parker City, Deerfield	03	1630EST			0	0	?	0	Funnel Cloud
Knightstown, Middleton	03	1640EST			0	0	?	0	Thunderstorm Wind
Randolph County									
Winchester, Ridgeville, Farmland	03	1645EST			0	0	?	0	Thunderstorm Wind
Rush County									
Manilla	03	1707EST	0.1	10	0	0	0	0	Tornado (F0)
Fayette County									
Fairview, Bentonville	03	1715EST			0	0	?	0	Thunderstorm Wind
Rush County									
Arlington, Rushville	03	1710EST			0	0	?	0	Thunderstorm Wind
Bartholomew County									
Edinburgh, Taylorsville	03	1730EST			0	0	0	0	Funnel Cloud

Strong gradient winds were over Indiana June 3rd. During the mid and late afternoon a line of thunderstorms moved through central and east Indiana. The combined strength of the gradient wind and thunderstorm gusts produced widespread damage. There were numerous reports of trees, tree limbs, and power lines down in the counties listed above.

In Bluffton, a tree fell on a van injuring two people and causing \$10,000 in damage. A tree also fell on a house. In Groomsville, Tipton County, a barn roof was blown off costing \$8,000. Near Sharpsville six utility poles went down like dominos. A tree fell on a house in Elwood. Power poles were down on the north side of Indianapolis. Two foot diameter trees were blown down in southwest Hancock County. A car was damaged by a 55-gallon drum blown across a parking lot at the Jay County Hospital. A state trooper witnessed a brief mini tornado near Manilla in an open field. There was no damage. A cooperative observer in Kokomo recorded a 68 mph wind gust.

LaPorte County

Hanna	05	1930EST			0	0	?	0	Thunderstorm Wind
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A 150-foot transmission tower was blown over.

Gibson County									
Princeton	06	1325EST			0	0	2	0	Thunderstorm Wind
Posey County									
Mt. Vernon	06	1348EST			0	0	2	0	Thunderstorm Wind
Vanderburgh County									
5 W Evansville	06	1350EST			0	0	2	0	Thunderstorm Wind
2 W Evansville	06	1352EST-1357EST	1.1	10	0	0	2	0	Tornado (F0)
Evansville	06	1410EST			0	0	0	0	Thunderstorm Wind
Warrick County									
Elberfield	06	1407EST			0	0	4	0	Thunderstorm Wind
Spencer County									
Eureka, Patronville	06	1425EST-1440EST	6	50	0	0	3	?	Tornado (F0)

Thunderstorm winds uprooted trees at Princeton, Mt. Vernon, and west of Evansville on Mt. Vernon Road. A weak tornado uprooted trees and tore limbs out of tree tops west of Evansville. Another downed trees and damaged outbuildings in Spencer County. Thunderstorm winds (possibly a tornado) damaged buildings at a turkey plant at Elberfield. Winds were estimated at 60 mph on the south side of Evansville.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

**Harrison County
Corydon** 06 1518EST 1 25 0 2 4 0 Tornado (F1)

A small tornado touched down just south of Corydon and destroyed two mobile homes and several barns. Two houses were damaged. Two people were injured in one of the mobile homes.

**Floyd County
Georgetown** 06 1537EST 0.5 25 0 0 3 0 Tornado (F0)

A tornado uprooted trees, downed power lines, and damaged a barn.

Gibson County 07 0137EST-
0345EST 0 0 ? ? Flash Flood

Knox County 07 0137EST-
0845EST 0 0 ? ? Flash Flood

**Daviess, Martin
Counties** 07 0205EST-
0845EST 0 0 ? ? Flash Flood

Pike County 07 0205EST 0 0 ? ? Flash Flood

Heavy rains from thunderstorms flooded many roads in Gibson County near Princeton. Thunderstorms produced 5.12 inches of rain in Vincennes where significant street flooding occurred. Also in Vincennes, Kelso Creek overflowed, flooding a nearby shopping center. Most Knox County roads were under water. Six inches of rain fell in Daviess County and 4.17 inches fell in the Martin State Forest. Highway 450 between Shoals and Dover Hill was closed. Many other roads were closed including Highway 50 between Washington and Montgomery in Daviess County. The water was a foot deep in places. Significant street flooding was also reported in Washington and Montgomery. Over 3 (3.36) inches of rain fell in Pike County. Most low-lying roads were flooded as well as streets in Petersburg.

Orange County 07 0353EST 0 0 ? ? Hail (1.75)

Harrison County 07 0420EST 0 0 ? ? Hail (1.75)

**Crawford, Harrison,
Orange, Washington
Counties** 07 0700EST 0 0 6 ? Flash Flood

Around 5 inches of rain fell over southern Indiana in 24 hours forcing many creeks and streams out of their banks. The worst flooding occurred in English, Crawford County. Over 9 feet of water covered part of the downtown area, forcing nearly 300 people to evacuate their homes. Damage estimates ranged from \$3 to \$5 million. Several houses in Marengo and Milltown were also flooded. Water was reported over roads around Paoli, Orange County.

**Floyd County
New Albany** 07 0743EST 0 0 3 0 Thunderstorm Wind

Strong thunderstorm winds flipped over a car.

**Harrison County
Corydon** 07 0800EST 0 0 2 0 Thunderstorm Wind

Several large trees were blown down.

**Hamilton, Madison
Counties** 08 0240EST 0 0 0 0 Flash Flooding

**Delaware, Randolph
Counties** 08 0340EST 0 0 0 0 Flash Flooding

A weather observer at Sheridan measured 3.75 inches of rain between 1245 and 0240 EST. The Sheridan town marshal reported 2 feet of water on Second Street. An observer at Alexandria had 2.80 inches from midnight to 0240 EST. At 0340 EST the sheriff's department reported flooding of streets throughout Delaware County. Two to 3 feet of water covered roads in the northeast part of Randolph County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	
INDIANA Cont'd									
Madison County Anderson	08	0245EST			0	0	5	0	Lightning
									Lightning struck a utility pole over the manufacturing section of the Anderson Mattress Company, sending a torch-like flame down an electric drop into the building. The fire caused \$2 million damage.
Wells County 3 SW Ossian	08	0900EST	0.1	15	0	0	2	0	Tornado (F0)
									A tornado touched down briefly in a wooded area producing little damage except for broken tree limbs.
Vanderburgh County Evansville	08	1712EST			0	0	0	?	Hail (2.75)
3 SE Evansville	08	1725EST			0	0	0	?	Hail (1.00)
Madison County Alexandria	09	0355EST			0	0	?	0	Thunderstorm Wind
									Wind gusts estimated at 60 mph by a spotter.
Delaware County Gaston	09	0405EST			0	0	?	?	Thunderstorm Wind
Yorktown	09	0414EST			0	0	?	?	Hail (1.75)
									Golf ball-size hail was reported at Yorktown. Downed power lines and marble-size hail were reported at Gaston.
Randolph County	09	0500EST			0	0	0	0	Flash Flooding
Delaware County	09	0537EST			0	0	0	0	Flash Flooding
									Heavy rain caused flooding of State Road 32 near Maxville and Fairland and flooding of State Road 28 and State Road 3 north of Muncie and at Albany.
Sullivan County .5 N Sullivan	17	2227EST	0.1	10	0	0	0	0	Tornado (F0)
									Sullivan Police witnessed a brief mini tornado or "gustnado" touchdown just north of Sullivan. A few tree limbs were blown down.
Green, Clay, Sullivan Counties Shakamak State Park	17	2245EST			0	0	?	0	Thunderstorm Wind
Clay County 2 NE Jasonville	17	2245EST			0	0	?	0	Thunderstorm Wind
Greene County 1 NW Linton	17	2300EST			0	0	?	0	Thunderstorm Wind
									A tree was down on Highway 59 in southern Clay County near the Greene County line. There were a number of tree limbs blown down in southern Clay, west and central Greene County, and at Shakamak State Park.
Adams County Decatur	20	0300EST			0	0	4	0	Lightning
									Lightning struck a home producing an 8-foot by 8-foot hole in the roof and completely destroying the entire electrical wiring in the home. The lightning struck with such force it blew the plastic plate off a light switch and embedded it in the opposite wall.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Knox County									
Bicknell	22	1404EST			0	0	2	?	Thunderstorm Wind
Vincennes	22	1415EST			0	0	2	?	Thunderstorm Wind
Bruceville	22	1419EST			0	0	2	?	Thunderstorm Wind

Daviess County									
5 N Plainville	22	1424EST			0	0	3	?	Thunderstorm Wind
Martin County									
SW part of county	22	1440EST			0	0	2	?	Thunderstorm Wind

Thunderstorm winds uprooted trees and downed power lines.

Lagrange County									
Cedar Lake	27	1549EST			0	0	4	?	Hail (1.75)
Plato	27	1610EST			0	0	4	?	Hail (1.75)

Golf ball-size hail damaged cars.

Noble County									
Rome City	27	1700EST			0	0	3	?	Thunderstorm Wind

Trees were downed.

Franklin County									
	27	1708EST			0	0	?	0	Thunderstorm Wind

Some large and small tree limbs were blown down.

Switzerland County									
Vevay	27	1810EST			0	0	?	0	Thunderstorm Wind

Trees were blown down.

Gibson County									
Princeton	30	1304EST			0	0	2	?	Thunderstorm Wind

Thunderstorm winds uprooted trees.

Delaware County									
2 S Muncie	30	1645EST			0	0	?	?	Hail (1.00)
Fulton County									
5 E Rochester	30	1830EST			0	0	?	?	Hail (1.75) Thunderstorm Wind

Large trees and power lines were downed. Golf ball-size hail fell.

Wells County									
Liberty Center	30	1830EST			0	0	?	?	Hail (2.75)

Baseball-size hail was reported at Liberty Center.

Miami County									
Denver	30	1835EST			0	0	?	0	Thunderstorm Wind

Several trees were blown down north of Denver.

Allen County									
Fort Wayne	30	2008EST			0	0	0	0	Hail (0.75)

Three-quarter-inch-size hail fell on the southeast side of Fort Wayne.

Carroll County									
2 W Delphi	30	2021EST			0	0	?	?	Hail (0.88)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

INDIANA Cont'd

Carroll County NW Carroll County	30	2030EST			0	0	0	0	Flash Flooding
Yeoman	30	2051EST			0	0	0	0	Flash Flooding
Flora	30	2110EST			0	0	0	0	Flash Flooding
White County Brookston	30	2115EST			0	0	0	0	Flash Flooding
Tippecanoe County Nrn Tippecanoe County	30	2255EST			0	0	0	0	Flash Flooding

Thunderstorms produced torrential rain which caused flash flooding. Police and amateur radio operators reported that state and county roads were flooded throughout northwest and central Carroll, southern White, and northern Tippecanoe counties. Burnett Creek in northern Tippecanoe County was out of its banks.

IOWA

Pocahontas County Palmer 4 NE Palmer	01	2245CST- 2250CST	3.8	50	0	0	4	3	Tornado (F1)
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An isolated thunderstorm developed over northwestern Iowa. For a brief time, it became severe. A tornado touched down near Palmer. It tracked through a rural area, so damage was quite limited.

Polk County Des Moines Arpt	02	0945CST			0	0	5	3	Thunderstorm Winds (G50)
Emmet County Estherville	02	1020CST			0	0	5	3	Thunderstorm Winds (G62)
Jasper County Newton	02	1030CST			0	0	5	3	Thunderstorm Winds (G62)
Van Buren County 1 SW Cantril	02	1035CST	0.5	25	0	0	4	3	Tornado (F0)
Jasper County Sully	02	1041CST			0	0	4	4	Thunderstorm Winds (G56)
Keokuk County Sigourney	02	1100CST			0	0	4	3	Thunderstorm Winds (G50+)
Marshall County Marshalltown	02	1110CST			0	0	5	3	Thunderstorm Winds (G60)
Story County Nevada	02	1113CST			0	0	4	3	Thunderstorm Winds (G50+)
Poweshiek County Brooklyn	02	1115CST			0	0	5	3	Thunderstorm Winds (G52)
Tama County Tama	02	1117CST			0	0	4	3	Thunderstorm Winds (G50+)
Jones County Monticello	02	1120CST			0	0	5	3	Thunderstorm Winds (G60)
Floyd County Charles City	02	1128CST			0	0	4	3	Thunderstorm Winds (G50+)
Buchanan County Winthrop	02	1142CST			0	0	5	4	Thunderstorm Winds (G61)
Buchanan, Delaware Counties 3 E Quasqueton 3 SW Manchester	02	1143CST- 1158CST	9.5	65	0	0	5	4	Tornado (F2)
Howard County Cresco	02	1145CST			0	0	4	4	Thunderstorm Winds (G58)
Chickasaw County Fredericksburg	02	1145CST			0	0	4	3	Thunderstorm Winds (G50)
Delaware County Manchester	02	1148CST			0	0	5	4	Thunderstorm Winds (G61)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K	I	P	C	

IOWA Cont'd

Washington County Washington	02	1150CST			0	0	5	3	Thunderstorm Winds (G50+)
Delaware County 3 SE Dundee	02	1150CST			0	0	5	4	Thunderstorm Winds (G61)
Delhi	02	1157CST			0	0	4	3	Thunderstorm Winds (G50+)
Delhi	02	1157CST			0	0	3	3	Hail (1.00)
Delaware	02	1200CST			0	0	4	3	Thunderstorm Winds (G50+)
Hopkinton	02	1200CST			0	0	4	3	Thunderstorm Winds (G50+)
Earlville	02	1203CST			0	0	5	4	Thunderstorm Winds (G50+)
Greeley	02	1210CST			0	0	4	3	Thunderstorm Winds (G50+)
Winneshiek County Decorah	02	1201CST			0	0	5	4	Thunderstorm Winds (G61)
Dubuque County Luxemburg	02	1225CST			0	0	4	2	Thunderstorm Winds (G50+)
Jackson County 3 S Maquoketa	02	1412CST	1.0	40	0	0	4	2	Tornado (F1)
Maquoketa	02	1415CST			0	0	5	4	Thunderstorm Winds (G65)

A narrow line of thunderstorms developed ahead of a cold front. The storms first fired up in southwestern Iowa, then quickly formed into a fast-moving line. For the most part, severe weather was limited to high winds. There was some small hail as well. Wind gusts of 70 to 75 mph caused considerable damage in Estherville, Marshalltown, Newton, and Maquoketa. In Maquoketa, winds toppled tombstones and broke off several trees that were 3 feet in diameter. The winds blew out several plate glass windows in Des Moines, about 2 miles east of the Des Moines Airport. One tornado touched down in Buchanan County, and moved into Delaware County. Considerable damage was done to several farmsteads in the area. Two hogs were killed on a farm as the tornado destroyed the building housing 500 hogs. A second tornado touched down briefly in Van Buren County. Some building damage was reported on a farm southwest of Cantril. A second tornado touched down south of Maquoketa. It struck a rural area and a grove of cottonwood trees. The trees were broken off and carried 100 feet away. Delaware County was hard hit by high winds. There were numerous reports of farm buildings being destroyed as well as numerous trees and power lines downed. There was some livestock loss near Greeley.

IAZ001-002-003-004-
005-006-007-008-009-
010-011-013-014-015-
SDZ018-ILZ004
Much of Iowa

02	1400CST- 2300CST			0	1	5	3	High Winds
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An intense low pressure system developed north of Iowa. The circulation around this low was quite strong. Sustained winds of 30 to 45 mph were common, with occasional gusts of 50 to 60 mph. There were scattered reports of power outages, as many tree limbs were blown down. One injury was recorded as high winds blew over a train car on an amusement ride, injuring one in Vinton.

IAZ001-002-003-004-
005-006-007-009-
010-011-013-014-
SDZ018-ILZ004
Much of Iowa

03	0600CST- 1900CST			0	0	5	3	High Winds
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Intense low pressure remained over Lake Superior through much of the day. The circulation around the low was quite strong, as it was on the 2nd. Sustained winds of 30 to 40 mph were common, with occasional gusts to around 60 mph. There were reports of scattered power outages, as many tree limbs were downed by the winds. Visibilities were reduced at times due to blowing dust.

Woodbury County
Sioux City Arpt
Sioux City

04	2333CST			0	0	4	2	Thunderstorm Winds (G51)
05	0010CST			0	0	5	2	Thunderstorm Winds (G50+)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Plymouth County									
LeMars	05	0026CST			0	0	4	2	Thunderstorm Winds (G50+)
Calhoun County									
Manson	05	0540CST			0	0	4	3	Thunderstorm Winds (G52)
Pottawattamie County									
Council Bluffs	05	0600CST			0	0	3	1	Thunderstorm Winds (G50+)
Treynor	05	0610CST			0	0	3	1	Thunderstorm Winds (G50+)
Butler County									
3 NW Kelsey	05	0825CST			0	0	3	4	Hail (1.00)

An area of thunderstorms developed over northwestern Iowa. The most significant feature with these storms was the high wind. The first damage occurred over northwestern Iowa. Trees and power lines were downed in Woodbury and Plymouth counties. There were numerous reports of winds over 50 mph. Winds gusted to 60 mph at Manson. In addition to the winds and heavy rains, several reports were received of pea- to marble-size hail.

Ringold County

5 SW Mount Ayr	06	0930CST			0	0	4	0	Lightning
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As a thunderstorm passed southwest of Mount Ayr, lightning struck a Department of Natural Resources shop and house. The lightning caused a small fire.

Pottawattamie County

Council Bluffs	07	0910CST			0	0	0	0	Funnel Cloud
Council Bluffs	07	0910CST			0	0	3	1	Thunderstorm Winds (G50+)
Council Bluffs	07	0910CST			0	0	3	2	Hail (1.50)
Neola	07	0910CST			0	0	4	3	Thunderstorm Winds (G50+)
Weston	07	0913CST			0	0	4	1	Thunderstorm Winds (G50+)
20 E Council Bluffs	07	0915CST			0	0	0	0	Funnel Cloud
4 E Minden	07	0915CST			0	0	4	1	Thunderstorm Winds (G50+)
Treynor	07	0915CST			0	0	0	0	Funnel Cloud
4 N Carson	07	0915CST			0	0	0	0	Funnel Cloud
Shelby County									
Shelby	07	0920CST			0	0	4	4	Thunderstorm Winds (G50+)
Freemont County									
1 W Riverton	07	0930CST	0.1	20	0	0	1	1	Tornado (F0)
Dallas County									
8 W Adel	07	1035CST			0	0	4	3	Thunderstorm Winds (G65)
Perry Arpt	07	1040CST			0	0	4	2	Thunderstorm Winds (G52)
10 S Perry	07	1042CST			0	0	4	3	Thunderstorm Winds (G50+)
5 N Redfield	07	1045CST			0	0	4	3	Thunderstorm Winds (G50+)
Minburn	07	1050CST			0	0	5	4	Thunderstorm Winds (G70)
Dallas Center	07	1050CST			0	0	0	0	Funnel Cloud
Waukee	07	1050CST			0	0	4	3	Thunderstorm Winds (G50+)

A cluster of thunderstorms developed to the west of Iowa during the night. These storms moved into the western counties after sunrise. There were reports of funnel clouds as they passed over the Council Bluffs area. One and one-half-inch diameter hail fell at Council Bluffs, and trees and power lines were downed. A shed was destroyed at Weston, while two farm buildings were destroyed west of Minden. A tornado touched down briefly west of Riverton, but there was little damage reported. As the storms moved east, gusty winds and heavy rains occurred. There were several reports of 50 mph winds over western Iowa. Both Harlan and Clarinda recorded 50 mph winds. One of the storms became severe over Dallas County. There was considerable damage around the Minburn area as a downburst produced winds of 80 to 85 mph. One mobile home was destroyed there. It was not occupied at the time. Numerous reports of damage to farm sheds, trees, and power lines were received. The storm weakened rapidly as it moved into Polk County. Winds were in the 40 to 50 mph range as the storm passed north of Ankeny.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Johnson County
Coralville 07 1435CST 0 0 4 0 **Lightning**

Lightning struck three houses in Coralville, causing a fire in two of them. The third house was not set on fire, but had the water main blown up by the lightning.

Cass County
Anita 12 1420CST 0 0 5 3 **Thunderstorm Winds (G61)**
3 W Anita 12 1420CST 1.0 30 0 0 5 3 **Tornado (F1)**
Massena 12 1430CST 0.2 15 0 0 3 2 **Tornado (F0)**

Adair County
Bridgewater 12 1455CST 0 0 4 3 **Thunderstorm Winds (G50+)**

Bremer County
3 N Waverly 12 1600CST 0 0 4 3 **Thunderstorm Winds (G50+)**

Marshall County
Marshalltown 12 1612CST 0 0 4 3 **Thunderstorm Winds (G50+)**

An area of strong thunderstorms developed over southwestern Iowa. Early in its development, two tornadoes touched down in Cass County. The first caused considerable damage to a farmstead west of Anita. The second tornado touched down briefly in a rural area near Massena. As the storms moved into Adair County, trees and power lines were downed near Bridgewater. The storms weakened as they moved east. Pea- to marble-size hail and 50 to 55 mph winds were reported over Polk County. In Marshalltown, high winds downed a few trees and bent the top of a radio tower.

Bremer County
Sumner 12 1642CST 0 0 4 3 **Thunderstorm Winds (G52)**
Sumner 12 1642CST 0 0 3 4 **Hail (0.75)**

Fayette County
2 E Sumner 12 1650CST 0 0 4 3 **Thunderstorm Winds (G52)**
3 W Hawkeye 12 1700CST 0 0 5 4 **Thunderstorm Winds (G50+)**
2 W Eldorado 12 1715CST-
Eldorado 1919CST 2.0 25 0 0 5 3 **Tornado (F1)**

Wright County
1 S Dows 12 1840CST 0.4 15 0 0 4 2 **Tornado (F0)**

Mitchell County
Osage 12 1854CST 0 0 4 3 **Thunderstorm Winds (G52)**

Butler County
Allison 12 1920CST 0 0 5 4 **Thunderstorm Winds (G70)**

Cerro Gordo County
Rockwell 12 2010CST 0 0 3 3 **Thunderstorm Winds (G50+)**

Floyd County
2 N Rockford 12 2020CST 0 0 0 0 **Funnel Cloud**
Rockford 12 2030CST 0 0 0 0 **Funnel Cloud**

Chickasaw County
Nora Springs 12 2030CST 0 0 4 3 **Thunderstorm Winds (G55)**
New Hampton 12 2044CST 0 0 4 3 **Thunderstorm Winds (G50)**

Winneshiek County
Fort Atkinson 12 2050CST 0.1 15 0 0 3 2 **Tornado (F0)**

Fayette County
3 W West Union 12 2109CST 0.2 20 0 0 4 2 **Tornado (F0)**

Howard County
Cresco 12 2120CST 0 0 3 4 **Hail (0.75)**

Winneshiek County
2 SE Ossian 12 2148CST-
2 NW Castalia 2150CST 2.0 40 0 0 5 3 **Tornado (F1)**

Allamakee County
Rossville 12 2150CST 0 0 5 3 **Thunderstorm Winds (G55)**
Frankville 12 2150CST 0 0 4 3 **Thunderstorm Winds (G50+)**

Chickasaw County
2 W Alta Vista 12 2157CST 0 0 4 3 **Thunderstorm Winds (G50+)**

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

A cluster of strong thunderstorms developed over Webster and Wright counties. There were numerous reports of pea- to marble-size hail and gusty winds. One cell spawned a tornado south of Dows. The tornado touched down briefly in a rural area and only caused minor damage. The area of thunderstorms developed to the northeast. In Butler County, a roof was torn off a school in Allison by high winds. One tree was twisted off below ground level. A tornado touched down west of West Union. Another touched down between Ossian and Castalia. A mobile home was taken off its foundation there. A tornado touched down in the Eldorado area. Major damage was done to two farmsteads there. Two funnel clouds were observed in Floyd County, near Rockford. High winds later knocked down a barn and calving pens in Winneshiek County.

Dickinson County									
Milford	12	2053CST			0	0	4	3	Thunderstorm Winds (G52)
Spirit Lake	12	2110CST			0	0	4	3	Thunderstorm Winds (G52)
Winneshiek County									
Frankville	12	2130CST			0	0	4	3	Thunderstorm Winds (G50+)
Harrison County									
Mapleton	12	2350CST			0	0	4	3	Thunderstorm Winds (G50+)
Harrison County									
Missouri Valley	13	0010CST			0	0	3	1	Thunderstorm Winds (G50+)
Crawford County									
Charter Oak	13	0012CST			0	0	4	2	Thunderstorm Winds (G50)
Harrison County									
Logan	13	0020CST			0	0	4	3	Thunderstorm Winds (G52)
Dunlap	13	0022CST			0	0	4	3	Thunderstorm Winds (G50)
Little Sioux	13	0026CST			0	0	5	4	Thunderstorm Winds (G57)
Crawford County									
Denison	13	0038CST			0	0	4	3	Thunderstorm Winds (G50+)
Greene County									
Cooper	13	0145CST			0	0	4	3	Thunderstorm Winds (G50+)
Franklin County									
Hampton	13	0236CST			0	0	4	3	Thunderstorm Winds (G50+)

A third area of thunderstorms developed over northwestern Iowa. It expanded to the south and west. The storms took on a bow-echo configuration. There were numerous reports of high winds, resulting in downed trees and power lines. A few storms also spread into the northeastern counties of the state. Wind damage was reported in both Winneshiek and Franklin counties.

Grundy County									
Reinbeck	13	0330CST			0	0	5	4	Thunderstorm Winds (G75)

An isolated severe thunderstorm developed over Grundy County. Winds of 80 to 90 mph swept through Reinbeck, taking part of a roof off a house and shaking it off its foundation.

Pottawattamie County									
5 S Griswold	13	1636CST			0	0	0	0	Funnel Cloud

As a thunderstorm moved over Pottawattamie County, a funnel cloud was sighted south of Griswold.

Clayton County									
Elkader	13	1720CST-							
1 NW Garnavillo		1737CST	8.0	65	0	0	5	4	Tornado (F2)
8 N Guttenburg	13	1739CST			0	0	5	4	Thunderstorm Winds (G50+)
Clayton	13	1745CST			0	0	4	3	Thunderstorm Winds (G50+)

A small area of thunderstorms developed over Clayton County and became severe. A tornado was spawned from Elkader to near Garnavillo. The worst damage occurred northwest of Garnavillo with numerous buildings damaged. Most of the tornado's track was in rural areas. High winds north of Guttenburg ripped the roof off a house there.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Pottawattamie County									
10 SE Oakland	13	1736CST			0	0	0	0	Funnel Cloud
Cass County									
2 W Lewis	13	1738CST			0	0	0	0	Funnel Cloud
Adair County									
3 N Bridgewater	13	1738CST			0	0	0	0	Funnel Cloud
Fontanelle	13	1738CST			0	0	3	3	Hail (0.50)
Fremont County									
8 W Randolph	13	1925CST			0	0	0	0	Funnel Cloud
4 W Randolph	13	1935CST-							
1 W Imogene		2003CST	10.5	65	0	0	5	3	Tornado (F2)
1 SW Imogene	13	2005CST			0	0	0	0	Wall Cloud
5 W Essex	13	2008CST			0	0	0	0	Funnel Cloud
Pottawattamie County									
Oakland	13	2030CST			0	0	4	4	Hail (1.75)
3 SE Treynor	13	2030CST			0	0	5	4	Hail (2.75)
Hancock	13	2035CST			0	0	4	4	Hail (1.75)
5 E Oakland	13	2049CST			0	0	0	0	Wall Cloud
Union County									
1 W Creston	13	2100CST			0	0	0	0	Funnel Cloud
2 N Creston	13	2130CST			0	0	0	0	Funnel Cloud
5 E Creston	13	2145CST			0	0	0	0	2 Funnel Clouds
Lorimor	13	2205CST			0	0	4	3	Thunderstorm Winds (G52)
Polk County									
Pleasant Hill	13	2224CST			0	0	0	0	Funnel Cloud
Jasper County									
1 S Prairie City	13	2321CST			0	0	3	2	Thunderstorm Winds (G48)
5 W Monroe	13	2333CST	0.1	15	0	0	3	2	Tornado (F0)

During the late afternoon and early evening hours, a mesoscale convective system formed over southern Iowa. There were numerous reports of funnel clouds, pea- to marble-size hail, and 50 mph winds. There were only a few severe reports. Sixty mph winds were recorded at Lorimor, in Union County. Two tornadoes touched down. The most significant was in Fremont County. That tornado brushed the northeast part of Randolph. Eight homes were damaged, along with several mobile homes, campers, and farm buildings. The roof was taken completely off one house. Several head of livestock were missing near Randolph. The second tornado touched down briefly in rural Jasper County. Golf ball-size hail pelted parts of Pottawattamie County, with some up to baseball-size southeast of Treynor. Windows were broken there, along with damage to cars and trees.

Fremont, Page Counties	13	2314CST-							
	14	0300CST			0	0	5	4	Flash Flood

Heavy rains of 2 to 4 inches fell in southwestern Iowa. Flash flooding occurred in Fremont and Page counties as the rain fell on already saturated ground.

Guthrie County									
Panora	14	1645CST			0	0	3	0	Lightning
Guthrie Center	14	1945CST			0	0	3	0	Lightning

As thunderstorms rolled across Guthrie County, lightning struck two buildings. Only minor damage occurred, with wall sockets being blown out. In Panora, a house was struck, while a drive-in was struck in Guthrie Center.

Crawford County	15	0015CST-0310CST			0	0	5	5	Flash Flood
Carroll County	15	0051CST-0310CST			0	0	5	5	Flash Flood

Heavy rains of 1 to as much as 3 inches fell over Crawford and Carroll counties. These areas had already been saturated from rainfall from previous days. Flash flooding was reported, though the damage was relatively minor.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Wayne County
2 NW Humeston

15 1005CST 0 1 3 0 **Lightning**

Lightning struck a man while inside a farm house. The man received minor injuries. Damage to the house was minimal.

Shelby County

16 0315CST-0700CST 0 0 6 5 **Flash Flood**

The West Nishnabotna River flooded homes and businesses in and around the Harlan area. A number of basements collapsed. Crops were damaged and a number of roads were flooded.

Pottawattamie County

16 0500CST-1200CST 0 0 5 6 **Flash Flood**

Flooding along the West Nishnabotna River flooded about 4,000 acres of farmland, streets, businesses, and damaged four houses in Avoca. A bridge was damaged in Oakland.

Polk County
Urbandale

16 0515CST 0.1 15 0 0 2 1 **Tornado (F0)**

Dallas County

16 0600CST-1100CST 0 0 6 6 **Flash Flood**

Jasper County
3 W Monroe

16 0607CST 0.2 15 0 0 3 2 **Tornado (F0)**

Wapello County
8 SW Ottumwa

16 1233CST-1252CST 6.5 55 0 0 5 4 **Tornado (F2)**

4 S Ottumwa

16 1305CST 0 0 5 4 **Thunderstorm Winds (G70)**

4 S Ottumwa

Henry County
2 N Mt. Pleasant

16 1415CST 0 1 4 3 **Thunderstorm Winds (G50+)**

A mesoscale convective system developed over central Iowa, and moved slowly southeast. There were two small tornadoes in central Iowa, but damage from them was minor. As the system moved through the Ottumwa area, a tornado touched down southwest of town. The tornado downed buildings on several farms there. One house was nearly destroyed. The storm decayed after that. As the tops collapsed, winds around 80 mph occurred from Ottumwa south to the Davis County line. Two houses received structural damage. Numerous trees were downed in the area. High winds struck the Mt. Pleasant area. Three farms were damaged there and one person was injured by flying debris. The storms produced nearly 6 inches of rain at Van Meter in a little over 2 hours. Rainfall amounts of 2 to 4.50 inches in 3 hours or less were common.

Srn Polk County

16 0541CST-0845CST 0 0 6 4 **Flash Flood**

Scott, Clinton, Cedar, Muscatine Counties

16 0652CST-1800CST 1 0 7 5 **Flash Flood**

Srn Dallas County

16 0622CST-1030CST 0 0 5 4 **Flash Flood**

Marion, Warren, Madison Counties

16 0816CST-1100CST 0 0 5 4 **Flash Flood**

Johnson County

16 0848CST-1145CST 0 0 5 4 **Flash Flood**

Union County

16 1236CST-1430CST 0 0 5 4 **Flash Flood**

Thunderstorms produced very heavy rainfall amounts over central, south-central, and into east-central Iowa. Amounts of 2 to 5 inches in a 3-hour period were common. In southern Dallas County, nearly 6 inches of rain fell at Van Meter in a little over 2 hours. Flash flooding along Walnut Creek in the Des Moines area, as well as along the Four Mile Creek, affected 1,200 homes and 100 businesses. One death occurred in Scott County. A girl was playing in the flood waters when she was swept into a culvert in Le Claire. Damage in Scott County amounted to over \$33 million with 1,500 to 2,000 homes damaged in Bettendorf and Davenport alone. About 7 inches of rain fell in the Quad Cities area. (F110)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Lucas County Chariton	16	1820CST			0	0	0	0	Funnel Cloud
Monroe County Melrose	16	1840CST			0	0	0	0	Funnel Cloud
Appanoose County 3 E Plano	16	1959CST	0.1	15	0	0	3	2	Tornado (F0)
1 W Centerville	16	2017CST	0.1	20	0	0	3	2	Tornado (F0)
Wapello County 1 W Blakesburg	16	2052CST	0.1	15	0	0	3	2	Tornado (F0)
Palo Alto County 5 SW Graettinger	16	2110CST			0	0	5	4	Thunderstorm Winds (G50+)
Wapello County Eldon	16	2140CST	0.2	20	0	0	4	2	Tornado (F0)
Keokuk County Delta	16	2140CST	0.1	15	0	0	3	2	Tornado (F0)
Henry County Winfield	16	2210CST			0	0	4	3	Thunderstorm Winds (G50+)
Des Moines County 1 W Pilot Grove	16	2250CST			0	0	4	5	Hail (1.75)

An isolated thunderstorm developed over Madison County. It produced small hail and 50 mph winds there. As it progressed slowly southeast, funnel clouds were reported over Lucas and Monroe counties. There were no reports of high winds due to the slow movement of the storm. When the storm moved over Appanoose County, it dropped a tornado east of Plano and just west of Centerville. Neither of them did much damage as they touched down in open areas. There were several other small tornadoes, but they only touched down briefly, then retreated back into the clouds. As the storms moved farther east, there were scattered reports of high winds and some hail. The largest hail was golf ball-size in the Pilot Grove area.

Lyon County George	16	1915CST			0	0	5	4	Thunderstorm Winds (G65)
Sioux County Sioux Center	16	1915CST			0	0	5	4	Thunderstorm Winds (G71)
Woodbury County Sioux City	16	1916CST			0	0	4	3	Thunderstorm Winds (G56)
Plymouth County 8 N Sioux City	16	1920CST			0	0	5	4	Thunderstorm Winds (G70)
Merrill	16	1936CST			0	0	4	3	Thunderstorm Winds (G50+)
Kingsley	16	1940CST			0	0	5	4	Thunderstorm Winds (G50+)
Woodbury County Sioux City	16	1920CST			0	0	5	3	Thunderstorm Winds (G50+)
Moville	16	1925CST			0	0	5	4	Thunderstorm Winds (G50+)
Salix	16	1930CST			0	0	5	4	Thunderstorm Winds (G50+)
1 1/2 N Bronson	16	1932CST			0	0	4	3	Thunderstorm Winds (G50+)
2 E Luton	16	1933CST			0	0	4	3	Thunderstorm Winds (G50+)
Anthon	16	1935CST			0	0	4	3	Thunderstorm Winds (G50+)
Climbing Hill	16	1935CST			0	0	5	3	Thunderstorm Winds (G50+)
Sloan	16	1940CST			0	0	0	0	Funnel Cloud
8 W Correctionville	16	1945CST			0	0	5	4	Thunderstorm Winds (G50+)
4 1/2 W Correctionville	16	1945CST			0	0	5	4	Thunderstorm Winds (G50+)
6 SW Correctionville	16	1948CST			0	1	4	3	Thunderstorm Winds (G50+)
2 N Correctionville	16	1950CST			0	0	4	3	Thunderstorm Winds (G50+)
Correctionville	16	1950CST			0	0	4	3	Thunderstorm Winds (G50+)
Monona County 12 N Onawa	16	1945CST-2015CST			0	0	5	5	Thunderstorm Winds (G50+)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

O'Brien County 4 N Paullina	16	2005CST			0	0	4	3	Thunderstorm Winds (G50+)
Cherokee County Meriden	16	2015CST			0	0	5	3	Thunderstorm Winds (G50+)
5 E Cleghorn	16	2015CST			0	0	5	4	Thunderstorm Winds (G50+)
1 S Cherokee	16	2020CST			0	0	4	3	Thunderstorm Winds (G50+)
Buena Vista County Alta	16	2020CST			0	0	5	4	Thunderstorm Winds (G61)
2 W Alta	16	2025CST	0.4	30	0	0	5	3	Tornado (F1)
Clay County Everly	16	2025CST			0	0	5	4	Thunderstorm Winds (G61)
Royal	16	2027CST			0	0	5	4	Thunderstorm Winds (G61)
Spencer Arpt	16	2028CST			0	0	6	5	Thunderstorm Winds (G91)
Spencer	16	2030CST			0	0	5	4	Thunderstorm Winds (G61)
Emmet County Estherville	16	2105CST			0	0	4	3	Thunderstorm Winds (G52)
Winnebago County Leland	16	2115CST			0	0	5	4	Thunderstorm Winds (G50+)
Cylinder	16	2120CST			0	0	4	3	Thunderstorm Winds (G50+)
Lake Mills	16	2120CST			0	0	4	3	Thunderstorm Winds (G50+)
Pocahontas County 1 N Havelock	16	2125CST			0	0	4	3	Thunderstorm Winds (G50+)
Woodbury County Salix, Merville	16	2125CST			0	0	5	4	Thunderstorm Winds (G50+)
Pottawattamie County Council Bluffs	16	2145CST			0	0	4	3	Thunderstorm Winds (G50+)
Harrison County Mondamin	16	2210CST			0	0	4	1	Thunderstorm Winds (G50+)
Pottawattamie County 6 E Oakland	16	2230CST	0.3	20	0	0	4	2	Tornado (F0)
Freemont County Sidney	16	2245CST			0	0	4	3	Thunderstorm Winds (G50+)
Floyd County 3 NE Nora Springs	16	2254CST-							
5 1/2 N Rudd		2306CST	5.0	30	0	0	5	4	Tornado (F1)
Pottawattamie County 3 N Crescent	16	2259CST			0	0	0	0	Funnel Cloud
Ringgold County 6 N Mt Ayr	16	2340CST			0	0	5	4	Thunderstorm Winds (G65)
Dallas County Van Meter	16	2345CST			0	3	4	4	Thunderstorm Winds (G50+)
Polk County Des Moines	17	0003CST			0	0	4	2	Thunderstorm Winds (G50)
Nwrn Des Moines	17	0009CST			0	0	4	2	Thunderstorm Winds (G50+)
Marion County Knoxville	17	0128CST			0	0	0	0	Funnel Cloud
Scott County 3 W Eldridge	17	0210CST			0	0	0	0	Funnel Cloud
Lee County Keokuk	17	0230CST			0	0	5	3	Thunderstorm Winds (G61)

A line of thunderstorms developed ahead of a cold front in northwestern Iowa. These storms advanced southeast through the state during the night. Severe weather with the line was mostly due to winds. Most areas had at least 40 to 50 mph winds. There were scattered reports of small hail. Northwestern Iowa was hard hit, with the worst damage in Woodbury County. Sixty to 80 mph winds occurred there. Reports of trees and outbuildings being downed were too numerous to mention. Extensive damage was reported southeast of Salix. Six-inch diameter tree limbs were thrown through the side of a trailer, and 2-x-4s from one building were impaled 2 to 3 feet into the ground. Parts of two buildings were blown two to three blocks away from their origin. Extensive damage was also reported from Climbing Hill as well as Correctionville. Thirty hogs were killed when a confinement building was blown down 4.5 miles southwest of Correctionville. There was one minor injury 6 miles southwest of Correctionville when a person

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K	I	P	C	

IOWA Cont'd

was struck by flying debris. In Sioux City itself, extensive damage occurred in the city. Many cars were damaged and the roof was blown off a cattle confinement building at the stockyards. Damage across Woodbury County included damage to 68 farm and homesteads, 35 grain bins, five irrigation systems, and considerable power line damage. The hardest hit was in a path ranging from about 100 yards to over 2 miles in width. In what appeared to be a microburst, winds of 105 mph were recorded at the Spencer Airport. Damage around the area was extensive. Several planes were damaged and crops in the area were flattened. In Cherokee County, the roof was taken off one house east of Cleghorn, and roof damage also occurred south of Cherokee. Trees and a barn were downed in Winnebago County at Leland. A short time later, several empty rail cars were blown over in Cylinder. During the evening, the storms weakened somewhat and became more widespread. There were scattered reports of severe weather. In southeastern Iowa, high winds caused damage in Keokuk. A tornado touched down briefly west of Alta, in Buena Vista County. A small cluster of storms developed behind the main line during the late evening. Wind damage was reported in parts of Woodbury County from these. Significant wind damage occurred in the Van Meter area, where several trucks were blown over. Three people were injured. A tornado touched down in Floyd County, damaging at least two farmsteads in the northwestern part of the county. Damage was extensive to the farm buildings there. The last report from this line was a funnel cloud in Scott County. A tornado touched down east of Oakland in Pottawattamie County. The tornado picked up several outbuildings on a farm there. One contained three hogs as it was picked up. The hogs were unharmed.

Carroll County	16	2330CST-								
	17	0520CST			0	0	6	5	Flash Flood	
Deatur, Ringgold, Union Counties	17	0046CST-			0	0	5	5	Flash Flood	
Story County	17	0100CST-			0	0	6	5	Flash Flood	
		0700CST								
Johnson County	17	0100CST-			0	0	7	5	Flash Flood	
		1500CST								
Crawford County	17	0214CST-			0	0	5	4	Flash Flood	
		0515CST								
Washington County	17	0309CST-			0	0	5	4	Flash Flood	
		0615CST								

Heavy rains once again moved over areas where the ground was saturated. Rainfall was generally in the 1 to 2 inch range, most of which fell in an hour. There were spotty reports of 3 inches. Damage was very extensive in the Coralville area. Damage in the county was estimated at \$11,800,000. Interstate 80 was closed for a 14-hour period by the high waters.

Pottawattamie County	18	1830CST			0	0	3	4	Hail (1.75)	
Council Bluffs	18	1830CST			0	0	4	3	Thunderstorm Winds (G50+)	
Mills County										
5 NW Glenwood	18	1906CST			0	0	2	3	Hail (0.75)	
Malvern	18	1906CST			0	0	2	3	Hail (0.75)	
Shelby County										
Elkhorn	18	2015CST			0	0	3	3	Hail (1.00)	

An area of thunderstorms moved into southwestern Iowa during the early evening hours. There were several reports of hail. The largest was golf ball-size in the Council Bluffs area. One-inch-diameter hail fell at Elkhorn. High winds also caused some damage in Council Bluffs.

Lyon County										
3 NW Doon	19	0300CST			0	0	5	4	Thunderstorm Winds (G50+)	
Sioux County										
1 1/2 N Newkirk	19	0315CST			0	0	5	3	Thunderstorm Winds (G50+)	
2 E Hospers	19	0318CST			0	0	4	3	Thunderstorm Winds (G50+)	

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Dickinson County									
5 W Wapeton	19	0325CST			0	0	4	3	Thunderstorm Winds (G50+)
Arnolds Park	19	0325CST			0	0	4	3	Thunderstorm Winds (G52)
Sioux County									
1 1/2 N Newkirk	19	0330CST	0.2	20	0	0	5	3	Tornado (F0)
Dickinson County									
Spirit Lake	19	0335CST			0	0	5	4	Thunderstorm Winds (G67)
Dickinson County									
Chalstrom Beach	19	0340CST			0	0	4	3	Thunderstorm Winds (G65)
Humboldt County									
Gilmore City									
Pioneer	19	0500CST			0	0	5	4	Thunderstorm Winds (G50+)
Webster County									
Moorland	19	0510CST			0	0	4	4	Thunderstorm Winds (G50+)
Fort Dodge	19	0514CST			0	0	4	3	Thunderstorm Winds (G53)
Gilmore	19	0515CST			0	0	4	3	Thunderstorm Winds (G50+)
Pocahontas, Calhoun Counties									
16 N Manson	19	0515CST-0539CST	16.0	75	0	0	6	5	Tornado (F2)
Webster County									
Duncombe	19	0533CST			0	0	5	4	Thunderstorm Winds (G50+)
Hamilton County									
Webster City	19	0540CST			0	0	5	4	Thunderstorm Winds (G56)
Stratford	19	0545CST-0600CST	6.5	50	0	0	5	3	Tornado (F1)
Stanhope									
Webster County									
4 W Jewell									
Jewell	19	0600CST			0	0	5	4	Thunderstorm Winds (G50+)
Randall	19	0615CST			0	0	5	4	Thunderstorm Winds (G50+)
Story County									
Roland	19	0620CST			0	0	4	3	Thunderstorm Winds (G50+)

A cluster of thunderstorms developed during the early-morning hours over northwestern Iowa. Winds of 76 mph were recorded in Spirit Lake. Scattered reports of wind damage extended from northwest into central Iowa. High winds on a farm near Doon spread debris nearly a mile away from its origin. One tornado touched down in Calhoun and Pocahontas counties. Several barns were blown down by the tornado. The roof was taken off a church in Manson, and there was extensive damage to several other buildings. Another tornado touched down in Sioux County. It was on the ground briefly, but did strike one farm. Two buildings were destroyed, two others damaged. In Hamilton County, high winds blew over several rail cars in Randall, while west of Jewell, 30 hogs were killed when high winds destroyed a confinement building. A tornado touched down in the western part of Hamilton County. It was on the ground for over 6 miles between Stratford and Stanhope.

Washington County

Washington	19	2100CST			0	0	4	0	Lightning
As thunderstorms moved through the Washington area, lightning struck two houses in the city. A small fire was started in each of them.									
Madison, Warren Counties	19	1804CST-2300CST			0	0	5	5	Flash Flood
Marion County	19	1804CST-20 0300CST			0	0	5	5	Flash Flood
Mahaska, Keokuk, Washington Counties	19	1905CST-20 0500CST			0	0	5	5	Flash Flood
Clarke, Decatur, Lucas, Ringgold, Union, Wayne Counties	19	2019CST-20 0030CST			0	0	6	5	Flash Flood

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Appanoose, Monroe,
Davis, Jefferson,
Van Buren, Wapello
Counties

19 2138CST-	20 0300CST	0	0	6	5	Flash Flood
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Heavy rains moved into parts of central and southeastern Iowa. These rains caused considerable flash flooding in about 18 counties. Rainfall amounts were generally in the 1.00 to 2.50 inch range, with spotty reports of 2.50 inches to nearly 4 inches. The rain fell over areas that were affected by flash flooding just a few days prior, so the ground was already saturated. Numerous roads were closed with some washed out. Many thousands of acres of agricultural lands were under water.

Franklin County

Popejoy	26 1520CST	0	0	4	5	Hail (1.75)
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Guthrie County

2 E Panora	26 1809CST	0	0	4	4	Hail (1.00)
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Stuart

26 1845CST	0	0	5	5	Hail (2.50)
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Hardin County

Radcliffe	26 1717CST	0	0	4	5	Hail (1.75)
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Adams County

Nevinville	26 2001CST	0	0	4	4	Hail (0.875)
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An area of thunderstorms developed over northern into northeastern Iowa during the afternoon hours. They moved southeast, ahead of an upper air high pressure ridge. There were reports of gusty winds, heavy rain, and pea- to marble-size hail in many areas. Some of the largest hail reported was 2.50 inches in diameter at Stuart. The hail was large enough to dent cars in the area. Golf ball-size hail was reported in Popejoy and Radcliffe.

Mitchell County

Osage	27 1340CST	0	0	4	5	Hail (3.00)
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Bremer County

2 S Tripoli	27 1414CST	0	0	0	0	Funnel Cloud
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Linn County

Nrn Cedar Rapids	27 1415CST	0	0	4	4	Hail (1.75)
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Palo

27 1434CST	0	0	4	5	Hail (1.75)
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Butler County

Clarksville	27 1500CST	0	0	4	3	Thunderstorm Winds (G50+)
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Chickasaw County

5 1/2 SW Fredericks-	27 1510CST	0	0	5	4	Thunderstorm Winds (G50+)
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Bremer County

5 N Dunkerton	27 1515CST	0	0	4	4	Thunderstorm Winds (G50+)
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Black Hawk County

Gilbertville	27 1521CST	0	0	3	5	Hail (0.75)
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Raymond

27 1530CST	0	0	3	5	Hail (0.75)
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4 E Waterloo

27 1530CST	0	0	4	4	Hail (1.75)
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3 S Waterloo

27 1530CST	0	0	0	0	Funnel Cloud
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Bremer County

Tripoli	27 1530CST	0	0	5	4	Thunderstorm Winds (G65)
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Black Hawk County

2 N Gilbertville	27 1545CST	0.2	25	0	0	Tornado (F0)
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Fayette County

Oelwein	27 1615CST	0	0	3	0	Lightning
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Buchanan County

27 1615CST	0	0	4	2	Thunderstorm Winds (G50+)
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A thunderstorm complex moved into north-central Iowa. Baseball-size hail fell in Osage, breaking windows there, both in cars and in buildings. As the area moved and developed to the southeast, dime- to golf ball-size hail was reported. Two of the cells were noteworthy. The first moved through the Waterloo area, and eventually produced a small tornado east of town. The other produced 70 to 80 mph winds in Tripoli. Large trees and power lines were downed. Two mobile homes were destroyed in Tripoli. At the Tripoli Country Club, a new pole building was destroyed along with several golf carts. A thunderstorm became severe over Chickasaw County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

IOWA Cont'd

Major damage was done on a farm there. Two by fours were blown through a car by the force of the wind. A machine shed and several trees were downed in Buchanan County. Lightning struck a house in Oelwein, caused a small fire and damaged several appliances.

Lyon County 1 3/4 E Inwood	27	2315CST			0	0	6	4	Thunderstorm Winds (G70)
Osceola County Ocheyedan	27	2345CST			0	0	5	3	Thunderstorm Winds (G50+)
Clay County Everly	28	0000CST			0	0	5	5	Thunderstorm Winds (G84)
O'Brien County Hartley	28	0015CST			0	0	4	3	Thunderstorm Winds (G50+)
Sanborn	28	0015CST			0	0	4	3	Thunderstorm Winds (G50+)
Clay County Everly	28	0025CST			0	0	4	4	Thunderstorm Winds (G53)
O'Brien County Primghar	28	0025CST			0	0	4	4	Hail (1.00)
O'Brien County Hartley	28	0030CST			0	0	4	3	Thunderstorm Winds (G56)
Plymouth County Remsen	28	0030CST			0	0	4	3	Thunderstorm Winds (G50+)
Pocahontas County Laurens	28	0051CST			0	0	4	3	Thunderstorm Winds (G50+)
Sioux County Hull	28	0210CST			0	0	4	3	Thunderstorm Winds (G60)
Orange City	28	0210CST			0	0	4	5	Hail (2.00)
Boyden	28	0215CST			0	0	5	3	Thunderstorm Winds (G50+)
Boyden	28	0220CST			0	0	4	3	Thunderstorm Winds (G60)
Boyden	28	0220CST			0	0	4	5	Hail (2.50)
O'Brien County 5 E Hospers	28	0235CST			0	0	5	5	Hail (3.00)
2 NE Sutherland	28	0245CST			0	0	5	5	Thunderstorm Winds (G61)
Guthrie County 1 E Guthrie Center	28	0400CST			0	0	4	3	Thunderstorm Winds (G52)
Panora	28	0405CST			0	0	3	3	Thunderstorm Winds (G52)
Monroe County Loville	28	0600CST			0	0	4	3	Thunderstorm Winds (G52)
Dallas County Adel	28	0807CST			0	0	3	4	Hail (1.75)

Thunderstorms rolled into northwestern Iowa with high winds and hail. Winds of just under 100 mph caused tremendous damage in the Everly area. The power poles themselves were broken off by the winds. Damage was widespread as 60 to 65 mph winds accompanied many of the storms as they moved from northwest into central Iowa. Very large hail fell east of Hospers. The hail was 2 to 3 inches in diameter and accumulated to a depth of 2 to 6 inches. Reports indicated some of the stones were 7 to 8 inches across. Large hail also fell in the Boyden areas. Some of the hail stones hit with such force that they punched through the roofs of houses in both Boyden and east of Hospers. The storms produced golf ball-size hail in central Iowa, as they moved through the Adel area. A few storms developed on the lead edge of the main area. Strong winds buffeted Monroe County from these storms.

Kossuth County Bancroft	28	1045CST			0	0	5	5	Hail (2.50)
Wright County Belmond	28	1125CST			0	0	4	4	Thunderstorm Winds (G56)
Clarion	28	1134CST			0	0	3	3	Thunderstorm Winds (G51)
Franklin County Hampton	28	1200CST			0	0	4	5	Hail (1.75)
2 SE Hampton	28	1200CST-							
Falkner		1215CST			0	0	5	6	Thunderstorm Winds (G50+)
Butler County Austinville	28	1215CST-			0	0	5	4	Thunderstorm Winds (G50+)
Applington		1230CST							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Franklin, Hardin Counties

7 NW Ackley	28	1209CST- 1229CST	9.0	90	0	0	6	4	Tornado (F3)
2 SE Ackley									
Grundy County									
3 N Wellsburg	28	1230CST			0	0	4	3	Thunderstorm Winds (G50+)
4 W Hampton	28	1230CST			0	0	5	4	Thunderstorm Winds (G50+)
Hardin County									
5 NE Owasa	28	1235CST	0.1	15	0	0	4	3	Tornado (F0)
1 NW Eldora	28	1244CST			0	0	0	0	Funnel Cloud
Grundy County									
Conrad	28	1250CST			0	0	3	3	Thunderstorm Winds (G54)
Holland	28	1300CST			0	0	4	4	Thunderstorm Winds (G50+)
3 W Reinbeck	28	1310CST			0	0	5	3	Thunderstorm Winds (G50+)
2 S Grundy Center	28	1315CST- 1321CST	5.5	30	0	0	6	3	Tornado (F1)
Benton County									
1 SW Van Horn	28	1347CST	0.1	20	0	0	3	2	Tornado (F0)

A second round of severe thunderstorms dropped rapidly southeastward ahead of an upper-level high pressure area. Hail 2.50 inches in diameter pelted Kossuth County. High winds and pea-to marble-size hail were common over north-central into central Iowa. Two tornadoes touched down in Franklin and Hardin counties. The largest touched down 7 miles northwest of Ackley. It caused considerable damage in Ackley with garages down and damage to homes. The roof was taken off a large building in Ackley. There were numerous reports from surrounding farmsteads of barns and silos being completely demolished. Reports by spotters indicated that the tornado took on a twin structure as it moved into Ackley itself. A tornado touched down in Grundy County, and was on the ground for a little over 5 miles. Several farmsteads were hit by this tornado, resulting in significant damage to many buildings. Another tornado touched down briefly, northeast of Owasa. Another brief touchdown occurred in Benton County, southwest of Van Horn. Aside from the tornadoes, there was a lot of damage caused by high winds. Southeast of Hampton, hundreds of trees were blown down. This damage extended to the Falkner area. Crop damage was extensive due to the combination of high winds and pea-to marble-size hail. Some golf ball-size hail was reported around the Hampton area. Numerous outbuildings were destroyed. In Grundy County, a 3-foot-diameter tree was uprooted. Windows were blown out and half a chimney was blown off a building west of Hampton.

Allamakee County Dorchester

28	2305CST				0	0	4	3	Thunderstorm Winds (G52)
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Thunderstorms moved through the Dorchester area with 60 mph winds. Large trees were downed, along with several power lines. One tree was felled onto a dump truck and end loader.

Allamakee, Clayton Counties

29	0130CST- 0700CST				0	0	6	5	Flash Flood
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Heavy rains fell over Allamakee and Clayton counties. Up to 4 inches of rain was reported in a 3 to 4 hour period in Waukon. Mud slides were reported along with some trees taken down by the floods around Marquette.

Scott County

29	0545CST- 1100CST				0	0	6	5	Flash Flood
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Thunderstorms dumped heavy rains on Scott County during the early morning hours, causing extensive flash flooding for the second time in 2 weeks. Three and one-half inches of rain fell across the county during a 3-hour period between 0300 CST and 0600 CST. There were spotty reports of 4 inches or more of rainfall in the county. Flooding was once again extensive along the Duck Creek basin.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

Wright County	29	1841CST	0.2	20	0	0	3	2	Tornado (F0)
Eagle Grove	29	1845CST			0	0	4	3	Thunderstorm Winds (G50+)
Holmes	29	1845CST-							
Eagle Grove		1850CST	3.0	40	0	0	3	4	Tornado (F1)
Holmes									
1 W Clarion									

An isolated thunderstorm developed rapidly over Wright County. A small tornado touched down at Eagle Grove. Another stronger tornado touched down in the Holmes area, and moved east to near Clarion. The tornado did little damage, as it moved through open fields for around 3 miles. High winds caused some damage in the county. The storm then dissipated as rapidly as it formed.

Van Buren County	30	0725CST-							
Bonaparte		0729CST			0	0	4	5	Hail (1.75)

An isolated thunderstorm developed over Van Buren County. The storm dropped golf ball-size hail in Bonaparte.

Davis, Van Buren Counties	30	0800CST-							
		1400CST			0	0	6	5	Flash Flood

Very heavy thunderstorms developed over Davis and Van Buren counties. Rainfall from them totaled up to 7 inches in a few hours time. Flash flooding resulted in many areas of these counties.

Madison County	30	1425CST			0	0	4	5	Hail (1.75)
1/2 W St Charles	30	1425CST			0	0	4	4	Thunderstorm Winds (G50+)

Warren County	30	1440CST			0	0	0	0	Wall Cloud
New Virginia	30	1450CST			0	0	3	4	Hail (0.75)
1 S New Virginia	30	1510CST			0	0	0	0	Wall Cloud

Decatur County	30	1515CST			0	0	4	5	Hail (1.75)
LeRoy	30	1550CST			0	0	4	5	Hail (1.75)
2 1/2 S Leon	30	1600CST			0	0	5	4	Thunderstorm Winds (G50+)
2 1/2 S Davis City									

Clark County	30	1645CST			0	0	4	3	Thunderstorm Winds (G50+)
Murray									

Very strong thunderstorms developed over central Iowa and developed to the south and southwest. There were numerous reports of marble- to golf ball-size hail with these storms. A highway patrol car was nearly blown off the road west of St. Charles. Hail damaged a patrol car in Decatur County. There were scattered reports of damage caused by the high winds. The strongest winds were in Decatur County, where winds downed trees and power poles. A barn was also destroyed in Clark County.

IAZ001-004-005-006-									
007-008-009-010-011-									
012-013-014-015-SDZ018-									
NEZ010-ILZ004-	15	Morning-							
Most of Iowa	30	All Day			1	1	8	8	Major Flooding

Major flooding occurred on most rivers and streams in Iowa during the last half of June. Rainfall for the month averaged 8.03 inches, making it the wettest month since 8.23 inches fell in August of 1977. The range was from 6.62 inches in the north-central districts, to 11.43 inches in the east-central. East-central Iowa had the most rainfall ever recorded for any month in their 118 years of record. Flooding in the state resulted in 13 record crests being established during the month. A total of 44 counties were declared Disaster Areas by the Governor and 33 counties were declared Disaster Areas by Presidential Declaration. There were two flood-related

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

IOWA Cont'd

deaths in the state. The first was mentioned previously, the second was an 18-year-old girl in Benton County. She died as she drove into an obscured washout in the highway, 2.5 miles northeast of Mt. Auburn. Her passenger was also injured. Damage from the flooding was extensive. Non-agricultural damage totaled approximately \$100 million - \$150 million. Agricultural land flooded included over 1 million acres of corn and 800,000 acres of soy beans. Losses on these acres ranged anywhere from 1 to 100%, but total losses were estimated at \$150 million to \$200 million and possibly even more. About 3,000 miles of terraces were washed away by the floods. Soil erosion was extensive, with anywhere from 20 to 100 tons per acre being washed away. The month began with some minor flooding along the Skunk River, caused by heavy rains in May. Rains began again by the 12th of the month, with up to 3 inches in west-central Iowa, and 1 to 2 inches over much of the northwest two-thirds of the state. Another 1 to 2 inches fell over the southeast half of the state on the night of June 13th and 14th. Additional rainfall of 1 to 2 inches fell over the southwest half of the state overnight June 15th and 16th, with the northeast receiving 0.50 to 1.00 inch. These rain events saturated the soil over almost all of Iowa. The real excessive rainfalls began around sunrise on the 16th. Thunderstorms developed from about 20 miles west of Des Moines, eastward to the Quad Cities. Rainfall amounts of 3 to over 6 inches occurred in a 1-to 3-hour period of time along this entire line. Seven inches fell at Van Meter, in central Iowa. The rain area developed and moved southeast. Initially, there was a considerable amount of flash flooding. By mid to late afternoon, major river flooding was reported over most of southern and eastern Iowa. During the evening of the 16th and early morning of the 17th, another round of heavy rains rolled over the state. Over 5 inches of rain fell in 90 minutes over the far northwest, in Rock Valley. Two to 3 inches were common over west-central, south-central, central, and east-central Iowa. To give some example of the rainfall amounts, Cedar County received between 8 and 12 inches of rain between Friday night and early Sunday morning. In Mt. Vernon, in southeast Linn County, the observer there recorded 12.20 inches in that same time period. Twelve inches of rain in 24 hours fell in Scott County, pushing Duck Creek 19 feet over flood stage. Record floods in Ames damaged 46 houses severely, and destroyed two others. The flood there was an all-time record event. There was a temporary break in the rain until the early morning hours of the 19th. Heavy rains that occurred in the early morning hours that day caused flooding of roads in northwestern Iowa. Rainfall of 1 to 2 inches was widespread in a band extending from northwest, through central, into east-central Iowa. Heavy rains developed once again during the early evening hours of the 19th. A "train echo" event took place over south-central into southeastern Iowa. Two to 6 inches of rain fell from these storms. These heavy rains dumped into rivers that were already over flood stage in most areas. The next rainfall event was on the night of the 21st. Rainfall of 0.50 to 1 inch covered most of the state, causing rises on rivers that had begun to recede but were still over flood stage. Another 0.50 to 1 inch fell over central and east-central Iowa during the night of the 22nd. Rainfall on the night of the 27th caused rises on the North Raccoon River and local flooding in the Waterloo and Cedar Rapids area. Two to 3 inches of rain fell over northwestern Iowa, causing flooding on the Floyd River. The next significant rainfall event was on the night of the 28th. Most of the northeast two-thirds of the state received another 1 to 3 inches of rain. The heaviest rain fell in eastern Iowa and caused some mud slides there, and renewed flooding in the Quad Cities. Although many river reporting stations had fallen below flood stage by the 23rd, this flood event was in many respects a continuous event as farm fields and cities that were flooded never had a chance to dry out before the next rain event occurred. Figures reported by the state by the time of this writing indicated that 78,000 farms in the state reported damage. That represents about half of all the farms in the state. Most farms had crop losses around 20%; however, 78 farms reported 100% crop losses. (F18V)

KANSAS

Sherman County 2 SW Goodland Airport	01	1612CST			0	0	3	3	Hail (1.75)
Sherman County 9 SW Goodland	01	1705CST			0	0	3	3	Hail (1.75)
Sherman County Goodland Airport	01	1707CST			0	0	3	3	Hail (0.75)
Sherman County 5 S Goodland	01	1727CST			0	0	3	3	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Sherman County Goodland	01	1737CST			0	0	3	3	Hail (0.75)
Cheyenne County 12 S Bird City	01	1830CST			0	0	3	3	Hail (1.00)
Rawlins County 5 S McDonald	01	1845CST			0	0	3	3	Hail (1.75)
Rawlins County 2 E McDonald	01	1855CST			0	0	3	3	Hail (1.75)
Smith County 15 NW Smith Center	01	2345CST			0	0	0	3	Hail (1.00)
Reno County Hutchinson	02	0800CST			0	0	6	4	High Wind (G70)

Strong, non-convective winds caused extensive damage across eastern Reno County between 0800 and 1000 CST. Twelve buildings in Hutchinson suffered major damage. Twenty-four thousand people were without electrical power due to downed power lines. Total property damage was nearly \$1 million.

McPherson County Canton	02	0900CST			0	0	4	0	High Wind (G56)
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Strong, non-thunderstorm winds, gusting over 65 mph, damaged several roofs and trees in the Canton area.

Doniphan County Highland	05	0820CST			0	0	5	0	Lightning
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Lightning struck the steeple of a church in Highland. A class was in session in the basement but there were no injuries. Damage to the church was confined to the belfry.

Washington County 4 S Hanover	06	0325CST			0	0	3	4	Hail (1.00)
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Jewell County Lovewell Lake	06	0430CST			0	0	3	4	Thunderstorm Winds (G52)
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Wind gusts over 60 mph near and just southeast of Lovewell Lake Dam damaged several farm buildings. One inch-diameter hail caused some crop damage.

Washington County Hanover	06	0455CST			0	0	3	4	Hail (0.75)
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Marshall County 5 NW Marysville	06	0530CST			0	0	6	0	Thunderstorm Winds (G90)
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Downburst wind from a thunderstorm blew 12 cars off a Union Pacific Railway train. The train was on an east-west track. Wind damage was also reported in Marysville with powerlines, trees, and roof damage. Total damage was set at \$1.75 million although nearly \$1 million of the total was due to the train derailment.

Nemaha County Sabetha	06	0545CST			0	0	5	0	Thunderstorm Winds (G70)
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Thunderstorms produced winds that damaged several farm buildings near Sabetha. Two 1,800-bushel grain bins were blown off their foundations. One bin was pushed three-fourths of a mile. Large trees and power lines were taken down in Sabetha. Several other locations reported wind damage during the same time period.

Shawnee County Topeka	06	0548CST			0	0	0	0	Thunderstorm Winds (G68)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Douglas County 1 N Lawrence	06	0549CST			0	0	0	0	Thunderstorm Winds (G60)
Pottawatomie County Wamego	06	0602CST			0	0	0	0	Thunderstorm Winds (G50)
Pottawatomie County Wamego	06	0607CST			0	0	0	0	Thunderstorm Winds (G69)
Pottawatomie County St. Marys	06	0617CST			0	0	0	0	Thunderstorm Winds (G60)
Jefferson County Oskaloosa	06	0633CST			0	0	0	0	Thunderstorm Winds (G60)
Marshall County Lillis	06	0633CST			0	0	0	0	Thunderstorm Winds (G60)
Gove County Park	07	0345CST			0	0	3	3	Hail (0.75)
Gove County Quinter	07	0345CST			0	0	0	3	Hail (0.75)
Brown County 6 E Hiawatha	07	0553CST			0	0	5	0	Flash Flood

US Highway 36 at Robinson Road was closed due to high water. One county road was washed out just east of Hiawatha.

Marshall County Frankfort	07	0815CST			0	0	0	0	Hail (0.75)
Nemaha County Baileyville	07	0827CST			0	0	0	0	Hail (0.75)
Brown County Horton	07	1230CST			0	0	0	0	Hail (0.75)
Nemaha County Baileyville	07	1235CST			0	0	3	4	Hail (1.00)
Brown County Everest	07	1245CST			0	0	0	0	Hail (0.75)
Shawnee County 11 S Topeka	07	1710CST	0.2	10	0	0	0	0	Tornado (F0)
Osage County 1 NW Overbrook	07	1715CST	1.0	10	0	0	0	0	Tornado (F0)
Shawnee County Richland	07	1720CST			0	0	0	0	Hail (0.75)
Douglas County 5 W Worden	07	1729CST			0	0	3	3	Hail (0.75)
Osage County 3 SW Overbrook	07	1748CST	4.0	10	0	0	5	0	Tornado (F1)

Tornado first hit in wooded area and moved east to about one mile north of Overbrook. Seven homes were damaged southwest of Overbrook and one house was destroyed north of Overbrook.

Osage County Overbrook	07	1814CST			0	0	0	0	Thunderstorm Winds (G65)
Lyon County 6 SW Emporia	07	1830CST	10.0	100	0	17	7	0	Tornado (F2)

A small but destructive tornado tore through the west side of Emporia striking several businesses and homes. Seventeen people were injured, two seriously. A man left his home carrying a three-month-old baby to seek shelter in a friend's basement. When he reached the door he was pulled away from the house. The baby was thrown several feet and was bruised badly. The father suffered a broken neck; both were in serious condition. A car dealer suffered extensive damage to the building and vehicles. Some of the vehicles were stacked on one another and others were rolled. The tornado lifted four miles north of Emporia after damaging several homes in a housing area. Total damage to Emporia was \$26 million.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

KANSAS Cont'd

Osage County 2 SW Carbondale	07	1840CST	6.0	10	0	0	5	0	Tornado (F0)
A tornado hit a barn and garage south of Carbondale, then moved across a wooded area damaging trees. It flipped a modular home completely off the foundation and lifted 4 miles northeast of Carbondale.									
Chase County Saffordville	07	1848CST			0	0	5	5	Hail (1.75)
Osage County Overbrook	07	1850CST			0	0	4	0	Flash Flood
High water closed US Highway 56 between Lawrence and Ottawa.									
Shawnee County 1 SW Auburn	07	1850CST			0	0	4	4	Hail (3.00)
Several cars lost windows and there was some crop damage from softball-size hail southwest of Topeka.									
Douglas County Wordern	07	1856CST			0	0	0	0	Thunderstorm Winds (G60)
Shawnee County Rossville	07	1920CST			0	0	0	0	Hail (0.50)
Shawnee County 1 N Silver Lake	07	1923CST			0	0	3	3	Hail (1.50)
Shawnee County Silver Lake	07	1935CST			0	0	3	3	Hail (3.00)
Johnson County Olathe (IXD)	07	1955CST			0	0	0	0	Thunderstorm Winds (G51)
Marion County 4 W Burns	07	1956CST			0	0	5	5	Hail (1.75)
Jefferson County Valley Falls	07	2000CST			0	0	0	0	Hail (1.50)
Butler County Cassoday	07	2003CST	1.0	50	0	0	0	0	Tornado (F0)
A weak tornado was sighted just north of Cassoday that moved northeast. The tornado lifted before crossing into Chase County.									
Marion County Burns	07	2010CST	2.0	75	0	0	5	0	Tornado (F1)
Two tornadoes were sighted in Marion County. The one east of Peabody touched down for a short time and caused no damage. The second tornado, at Burns, caused \$1 million in damage when it hit a cooperative grain elevator and damaged the roof of a bank.									
Marion County 1 SE Peabody	07	2014CST	1.0	50	0	0	0	0	Tornado (F0)
Sedgwick County 2 S Sedgwick	07	2040CST			0	0	3	3	Hail (0.75)
Sedgwick County Sedgwick	07	2040CST			0	0	3	3	Hail (0.75)
Harvey County Patterson	07	2045CST			0	0	3	3	Hail (1.00)
Sedgwick County Sedgwick	07	2056CST			0	0	0	0	Funnel Cloud
Butler County Rosalia	07	2100CST			0	0	0	0	Funnel Cloud

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Marion County 10 NW Lincolnvile	07	2110CST			0	0	3	3	Thunderstorm Winds (G65)
Marion County Peabody	07	2120CST			0	0	4	0	Thunderstorm Winds (G60)
Marion County Peabody	07	2125CST			0	0	6	5	Hail (3.00)

Large hail and damaging thunderstorm winds caused millions of dollars in damage to crops over southern Marion County. In the town of Peabody damage was estimated at \$2 to \$3 million when hail and winds damaged a large number of automobiles and homes.

Sedgwick County Mt. Hope	07	2142CST			0	0	3	3	Hail (1.50)
Reno County 3 E Pretty Prairie	07	2150CST	7.0	100	0	0	6	4	Tornado (F2)

A tornado began 3 miles east of Pretty Prairie and traveled northwest for about 7 miles. Six farmsteads were damaged, two barns destroyed, one barn roof blown off, one house lost the roof, and two garages were destroyed. Trees and telephone poles were blown down along the seven-mile-track from 3 miles east to 5 miles north-northwest of Pretty Prairie.

Reno County Pretty Prairie	07	2155CST			0	0	6	5	Hail (2.75)
Sedgwick County Wichita	07	2157CST			0	0	6	0	Thunderstorm Winds (G75)

Strong thunderstorm wind gusts damaged the city parking garage in Wichita causing a partial collapse.

Sedgwick County Wichita	07	2222CST			0	0	5	4	Hail (4.50)
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Hail 4.50 inches in diameter fell across northern Wichita. There were several reports of damage to cars, windows, and roofs.

Sedgwick County 4 N Cheney	07	2224CST			0	0	3	3	Hail (0.75)
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Reno County Pretty Prairie	07	2230CST			0	0	5	5	Thunderstorm Winds
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Hail up to 2.75 inches in diameter and strong thunderstorm wind gusts caused over \$500,000 in damage to homes and buildings in Pretty Prairie.

Kingman County Norwich	07	2305CST			0	0	3	3	Hail (0.75)
Harper County Runnymede	07	2338CST			0	0	3	3	Hail (1.75)
Sumner County Argonia	08	0010CST			0	0	3	3	Hail (0.75)
Montgomery County Coffeyville	08	0035CST			0	0	0	0	Thunderstorm Winds (G70)
Sherman County 12 NW Goodland	08	0540CST			0	0	0	3	Hail (0.75)
Sherman County 3 N Goodland	08	0605CST			0	0	0	3	Hail (0.75)
Butler County Towanda	08	0605CST			0	0	0	0	Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Brown County Hiawatha	08	1602CST			0	0	0	0	Hail (1.50)
Brown County 1 NE Hiawatha	08	1617CST			0	0	0	0	Hail (1.50)
Lyon County Hartford	08	1654CST			0	0	0	0	Hail (0.75)
Coffey County Ottumwa	08	1744CST			0	0	0	0	Hail (1.50)
Lyon County 1 S Emporia	08	1745CST			0	0	0	0	Hail (0.75)
Lyon County 3 S Emporia	08	1748CST			0	0	4	3	Hail (2.50)
Lyon County 1 S Emporia	08	1750CST			0	0	3	3	Hail (1.50)
Shawnee County Topeka	08	1816CST			0	0	0	0	Hail (0.75)
Shawnee County Topeka	08	1819CST			0	0	0	0	Hail (2.00)
Lyon County 3 S Emporia	08	1826CST	0.1	10	0	0	0	0	Tornado (F0)
Shawnee County 3 W Topeka	08	1830CST			0	0	0	0	Hail (1.50)
Shawnee County 2 SW Topeka	08	1834CST			0	0	0	0	Hail (2.50)
Shawnee County 4 SE Topeka	08	1839CST			0	0	3	3	Hail (2.50)
Douglas County Stull	08	1850CST			0	0	3	4	Hail (3.00)
Shawnee County 7 SE Topeka	08	1857CST			0	0	4	5	Hail (4.00)

Hail 4 inches in diameter covered the ground. Several cars were dented and crops were ruined across southern Shawnee and southern Douglas counties.

Butler County 3 N Andover	08	1905CST			0	0	3	3	Hail (4.00)
Sedgwick County 3 NNW Andover	08	1905CST			0	0	3	3	Hail (4.00)
Butler County Rose Hill	08	1910CST			0	0	3	3	Hail (1.50)
Greenwood County Madison	08	1910CST			0	0	0	0	Funnel Cloud
Johnson County Olathe (IXD)	08	1910CST	0.1	10	0	0	0	0	Tornado (F0)
Greenwood County Hamilton	08	1915CST	0.5	50	0	0	0	0	Tornado (F0)
Greenwood County Madison	08	1915CST			0	0	4	0	Thunderstorm Winds (G60)
Sedgwick County McConnell AFB	08	1920CST			0	0	5	0	Hail (2.50)

Several military aircraft were damaged when large hail fell at McConnell AFB, on the southeastern side of Wichita.

Douglas County Clinton Lake	08	1920CST			0	0	3	3	Hail (1.00)
Butler County 1 S Rose Hill	08	1935CST			0	0	3	3	Hail (1.50)
Osage County 2 S Carbondale	08	1935CST			0	0	0	0	Hail (1.50)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Douglas County Lecompton	08	1940CST			0	0	0	0	Thunderstorm Winds (G70)
Miami County 1 N Paola	08	2044CST			0	0	0	0	Hail (1.75)
Harper County Harper	08	2125CST			0	0	3	3	Hail (1.50)
Coffey County Countywide	09	0039CST			0	0	4	0	Flash Flood
Osage County Melvern Reservoir	09	0937CST			0	0	4	0	Flash Flood

Slow-moving and repetitive thunderstorms produced 6 to 8 inches of rain over southern Osage and Coffey counties. US Highway 75 was closed south of US Highway 57.

Gray County 5 S Cimarron	09	1550CST			0	0	0	4	Hail (1.00)
Gray County Copeland	09	1625CST			0	0	0	4	Hail (0.75)
Sherman County Goodland Airport	09	2113CST			0	0	3	0	Thunderstorm Winds (G50)
Sherman County 5 E Goodland	09	2127CST			0	0	3	0	Thunderstorm Winds (G59)
Grant County 12 E Ulysses	09	2150CST			0	0	0	0	Thunderstorm Winds (G50)

Late afternoon thunderstorms moved north from the Oklahoma Panhandle, intensified and produced large hail and strong winds.

Coffey County Waverly	10	1400CST			0	0	0	0	Flash Flood
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County Road 31 north of Waverly was closed where 4 inches of rain fell in two hours.

Osage County 2 E Reading	10	1415CST			0	0	0	0	Flash Flood
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Three to 6 inches of rain closed US Highway 170 two miles east of Reading.

Cherokee County Columbus	10	1433CST			0	0	0	0	Flash Flood
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Heavy rain flooded Kansas Highway 7, north of Columbus.

Waubausee County McFarland	13	0725CST			0	0	0	0	Thunderstorm Winds (G60)
Waubausee County Paxico	13	0730CST			0	0	3	0	Thunderstorm Winds (G65)

Windows were broken out and power lines were blown down when thunderstorm winds gusted over 70 mph.

Osage County Scranton	13	0830CST			0	1	5	0	Lightning
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A 31-year-old man was injured when lightning struck the top of the garbage truck he was driving. The truck was also damaged, with burn marks on the hood and most of the wiring shorted out. The man was treated and released.

Comanche County Protection	13	1900CST			0	0	0	4	Hail (1.00)
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Late-evening thunderstorms moved north out of the Oklahoma Panhandle.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Barton County Near Claflin	13	2044CST			0	0	3	3	Hail (1.75)
Barton County 7 W Great Bend	13	2045CST			0	0	3	3	Hail (0.75)
Barton County 7 W Great Bend	13	2045CST			0	0	3	3	Thunderstorm Winds (G52)
Barton County Great Bend	13	2140CST			0	0	3	3	Hail (0.75)
Washington County Washington	13	2220CST			0	0	3	3	Hail (0.75)
Washington County Washington	13	2231CST			0	0	3	3	Hail (1.00)
Washington County Hanover	13	2242CST			0	0	3	3	Hail (0.75)
Marshall County 7 S Marysville	13	2304CST	1.0	50	0	0	0	0	Tornado (F0)
Cloud County 8 NE Concordia	13	2318CST			0	0	0	0	Funnel Cloud
Marshall County 2 NW Frankfort	13	2335CST	2.0	50	0	0	0	0	Tornado (F0)
Marshall County Blue Rapids	13	2340CST			0	0	0	0	Thunderstorm Winds (G60)
Johnson County Olathe	14	1405CST			0	0	4	3	Hail (2.00)
Gray County 1 W Cimarron	14	1505CST			0	0	0	4	Hail (1.50)
Gray County 3 S Cimarron	14	1505CST			0	0	0	4	Hail (1.50)
Meade County Fowler	14	1510CST			0	0	0	3	Hail (1.50)
Saline County 5 E Assaria	14	1520CST			0	0	3	3	Hail (0.75)
Ford County Dodge City	14	1525CST			0	0	0	3	Hail (1.00)
Saline County Assaria	14	1530CST			0	0	3	3	Hail (1.00)
Ford County Dodge City Arpt	14	1530CST			0	0	0	3	Hail (0.75)

A cluster of severe thunderstorms developed around Meade, where an unconfirmed tornado was reported by the public, and dropped large, soft hail from Flower to Dodge City. Damage was minimal due to soft and infrequent hail drops.

Marion County Goessel	14	1530CST			0	0	0	0	Hail (0.75)
Harvey County Newton	14	1535CST			0	0	0	0	Hail (0.75)
Saline County 5 E Assaria	14	1540CST			0	0	3	3	Hail (1.75)
Marion County Goessel	14	1620CST			0	0	0	0	Hail (0.75)
McPherson County 10 NE McPherson	14	1625CST			0	0	3	3	Thunderstorm Winds (G52)
Ellsworth County 5 E Ellsworth	14	1627CST			0	0	3	3	Hail (1.75)
Ellis County Hays	14	1640CST			0	0	4	4	Hail (2.50)
Ellis County Hays	14	1647CST			0	0	4	4	Hail (1.75)
Dickinson County Hope	14	1655CST			0	0	3	3	Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Ellsworth County Ellsworth	14	1708CST			0	0	3	3	Hail (1.25)
Rooks County Codell	14	1715CST			0	0	4	4	Hail (1.50)
Butler County Potwin	14	1715CST			0	0	0	0	Hail (0.75)
Osborne County 8 N Natoma	14	1720CST	1.0	10	0	0	4	3	Tornado (F0)

A tornado touched down briefly 8 miles north of Natoma and damaged several farm buildings, uprooted some trees, and knocked down several power poles.

Rooks County Stockton	14	1720CST			0	0	4	4	Hail (0.75)
Saline County 4 S Salina	14	1740CST			0	0	3	3	Hail (0.75)
Osborne County 4 E Alton	14	1745CST			0	0	3	3	Hail (0.75)
Reno County Abbeyville	14	1800CST			0	0	0	0	Hail (0.75)
Cloud County Jamestown	14	1813CST			0	0	3	3	Hail (1.75)
Butler County Eldorado	14	1821CST			0	0	3	0	Hail (0.75)
Phillips County Phillipsburg	14	1823CST			0	0	4	4	Hail (1.00)

Hail the size of lemons fell across Phillips, Rooks, and Ellis counties.

Saline County Salina	14	1825CST			0	0	3	3	Hail (0.75)
Republic County Norway	14	1830CST			0	0	3	3	Hail (1.00)
Reno County Haven	14	1830CST			0	0	0	0	Hail (0.75)
Butler County 3 NE Eldorado	14	1835CST			0	0	0	0	Funnel Cloud
Butler County 3 NE Eldorado	14	1840CST			0	0	4	0	Hail (4.00)
Harvey County Newton	14	1905CST			0	0	3	0	Thunderstorm Winds

Thunderstorm wind gusts broke tree limbs that were 6 inches in diameter.

Marion County Peabody	14	1930CST			0	5	3	0	Lightning
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Lightning spawned fires that gutted two buildings and damaged a third. Five firemen were injured battling the fire.

Sedgwick County Maize	14	1930CST			0	0	0	0	Hail (0.75)
Smith County Harlan	14	1940CST			0	0	3	3	Hail (1.75)
Sedgwick County Wichita	14	1940CST			0	0	5	0	Hail (2.00)

One- to 2-inch-diameter hail fell across Wichita.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L I N G	I N J U R I E D	P R O P E R T Y	C R O S S	

KANSAS Cont'd

**Marion County
Goessel**

14 1945CST 0 0 3 0 **Flash Flood**

Rainfall of 3.60 inches caused creeks in Goessel to flood. Sand bagging was required around a few stores in town.

**Sedgwick County
Wichita**

14 1945CST 0 0 0 0 **Funnel Cloud**

**Sedgwick County
McConnell AFB**

14 2005CST 0 2 0 0 **Lightning**

Two Air Force personnel were injured when they were struck by lightning while they were towing an aircraft.

**Sedgwick County
McConnell AFB**

14 2020CST 0 0 6 0 **Hail (3.00)**

Large hail caused extensive damage at McConnell AFB southeast of Wichita.

**Cowley County
4 NNE Udall**

14 2056CST 0 0 3 0 **Hail (1.50)**

**Butler County
Douglas**

14 2100CST 0 0 0 0 **Hail (1.00)**

**Cowley County
5 E Rock**

14 2120CST 0 0 0 0 **Hail (0.75)**

**Washington County
Hanover**

15 0550CST 0 0 3 3 **Hail (0.75)**

**Clay County
NE part of county**

15 0615CST 0 0 4 3 **Flash Flood**

Two to 4 inches of rainfall in a short period caused flooding across eastern Washington and northeastern Clay counties. County roads were blocked for several hours and some rural bridges were washed out.

**Washington County
E part of county**

15 0615CST 0 0 4 3 **Flash Flood**

**Marshall County
Marysville**

15 0700CST 0 1 5 4 **Flood**

Heavy rain fell across Marshall County early on the 15th. Rainfall of 4.09 inches fell between 0720 and 0930 CST. This followed heavy rain from previous days. The Big Blue River west of Marysville rose outside its banks early on the 15th and continued to rise for two days. The crest came on the 16th at a level of 40.31 feet. Flood stage is 36 feet. A woman was injured slightly when her 4-wheel-drive Bronco was washed off US Highway 77. There were 2 feet of water in the city auditorium and a road that parallels the Big Blue River was washed out.

**Pottawatomie County
Wamego**

15 0848CST 0 0 0 0 **Thunderstorm Winds (G60)**

**Pottawatomie County
2 E St. Marys**

15 0900CST 0 0 0 0 **Flood**

US Highway 24 was closed due to high water for 3 hours.

**Shawnee County
Silver Lake**

15 0920CST 0 3 5 0 **Thunderstorm Winds (G70)**

**Shawnee County
Rossville**

15 0923CST 0 0 3 0 **Thunderstorm Winds (G70)**

Extensive damage to lumber yard in Silver Lake. Three customers received minor injuries. Total damage to just the lumber yard was \$250,000.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

**Shawnee County
Topeka** 15 0930CST 0 0 5 0 **Thunderstorm Winds (G74)**

A huge thunderstorm moved into northeastern Kansas producing severe weather along its entire path. The storm top was above 60,000 feet, based on NWS radar at Topeka. The storm produced 80 mph winds at Silver Lake where it damaged all the buildings at a lumber yard. When the storm reached Topeka it tore vents and parts of the roof from the Westridge Mall and overturned construction trailers in the area. From 100 to 200 trees were uprooted or damaged as the storm moved across Topeka from northwest to southeast. Damage was produced by stright-line winds from a microburst embedded within a larger downburst. Total damage in Shawnee County was \$350,000.

**Shawnee County
Topeka** 15 0950CST 0 0 0 0 **Hail (1.00)**
**Shawnee County
Topeka (Billard)** 15 0953CST 0 0 0 0 **Thunderstorm Winds (G55)**
**Shawnee County
Topeka** 15 1004CST 0 0 0 0 **Thunderstorm Winds (G60)**
**Shawnee County
Topeka (FOE)** 15 1011CST 0 0 0 0 **Thunderstorm Winds (G60)**
**Douglas County
Clinton Dam** 15 1023CST 0 0 5 0 **Thunderstorm Winds (G65)**

Six boats were damaged, three totally ruined. One hundred feet of boardwalk and docks were torn up.

**Osage County
Overbrook** 15 1027CST 0 0 4 0 **Thunderstorm Winds (G60)**
**Pottawatomie County
Emmett** 15 1041CST 0 0 0 0 **Flash Flood**

Four- and eight-tenth inches of rain fell in two hours.

**Osage County
County-wide** 15 1043CST 0 0 5 0 **Flash Flood**

Extensive damage to two bridges in Osage County after heavy rain fell across the area.

**Douglas County
Lawrence** 15 1100CST 0 0 0 0 **Flash Flood**

**Franklin County
Ottawa** 15 1100CST 0 0 0 0 **Flash Flood**

Heavy rain caused urban streets to be under 2 feet of water until late in the afternoon.

**Bourbon County
Fort Scott** 15 1215CST 1 0 0 0 **Lightning**

A 62-year-old man was killed by lightning in rural Fort Scott while he was on his riding lawn mower.

**Lane County
1 W Amy** 15 1632CST 1.0 100 0 0 0 0 **Tornado (F0)**

Tornado touched down in open country producing little or no damage.

**Ness County
Ransom** 15 1652CST 0 0 3 3 **Hail (1.50)**

**Ellis County
12 SW Hays** 15 1654CST 0 0 4 4 **Hail (1.00)**

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Ellis County 5 S Hays	15	1709CST			0	0	4	4	Hail (1.50)
Russell County 15 S Russell	15	1812CST			0	0	3	3	Thunderstorm Winds (G61)
Russell County 1 W Russell	15	1812CST			0	0	3	3	Thunderstorm Winds (G52)
Russell County Russell Airport	15	1827CST			0	0	3	3	Thunderstorm Winds (G64)
Russell County Wilson Lake Dam	15	1900CST			0	0	3	3	Thunderstorm Winds (G80)
Mitchell County 4 N Hunter	15	1905CST	0.1	10	0	0	0	0	Tornado (F0)
Ellsworth County Wilson	15	1918CST			0	0	3	3	Thunderstorm Winds (G61)
Lincoln County 2 SW Sylvan Grove	15	1918CST			0	0	3	3	Thunderstorm Winds (G56)
Lincoln County Lincoln	15	1924CST			0	0	3	3	Thunderstorm Winds (G52)

A severe thunderstorm developed west of Russell and moved east. The strong wind gusts damaged many farm buildings, uprooted trees, and knocked down power poles.

Mitchell County 8 SSW Beloit	15	1930CST	0.1	10	0	0	0	0	Tornado (F0)
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A large thunderstorm produced two small tornadoes as it moved slowly across Mitchell County. Damage was limited to the tops of trees.

Ellsworth County 2 SW Ellsworth	15	1935CST			0	0	3	3	Thunderstorm Winds (G61)
Phillips County 3 E Athol	16	1738CST	0.1	10	0	0	0	0	Tornado (F0)

Several funnel cloud sightings accompanied a large thunderstorm across Phillips and Smith counties. Only witnessed touch down was 3 miles east of Athol, KS. No damage occurred and the small tornado lasted only a minute or two.

Smith County 15 NW of Smith Center	16	1749CST			0	0	3	3	Hail (1.75)
Phillips County Phillipsburg	16	1834CST			0	0	3	3	Hail (1.00)
Jewell County Burr Oak	16	2001CST			0	0	3	3	Hail (2.00)
Osborne County 10 SW Osborne	16	2014CST			0	0	3	3	Hail (1.25)
Osborne County Portis	16	2020CST			0	0	3	3	Hail (1.25)
Jewell County Esbon	16	2027CST			0	0	3	3	Hail (2.00)
Jewell County Burr Oak	16	2039CST			0	0	3	3	Hail (0.75)
Jewell County Burr Oak	16	2050CST			0	0	3	3	Hail (0.75)
Cloud County Concordia Airport	16	2312CST			0	0	3	3	Thunderstorm Winds (G50)
Cloud County Clyde	16	2330CST			0	0	3	3	Thunderstorm Winds (G59)
Labette County Edna	18	0325CST			0	0	0	0	Hail (1.00)
Logan County Monument	18	1530CST			0	0	3	3	Hail (1.50)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Graham County 4 ENE St Peter	18	1605CST			0	0	3	3	Hail (1.00)
Mitchell County 3 S Cawker City	18	1740CST			0	0	0	0	Funnel Cloud
Russell County 1 N Russell	18	1740CST			0	0	0	0	Funnel Cloud
Mitchell County 3 NE Tipton	18	1745CST			0	0	3	3	Thunderstorm Winds (G52)
Russell County 4 SW Lucas	18	1748CST			0	0	0	0	Funnel Cloud
Mitchell County 1 N Glen Elder	18	1755CST			0	0	3	3	Thunderstorm Winds (G56)
Jewell County 4 W Burr Oak	18	1800CST			0	0	3	3	Thunderstorm Winds (G56)
Jewell County Esbon	18	1805CST			0	0	3	3	Thunderstorm Winds (G52)
Jewell County 7 N Esbon	18	1810CST			0	0	3	3	Thunderstorm Winds (G52)
Cloud County Concordia Airport	18	1815CST			0	0	0	0	Funnel Cloud
Barton County Hitschmann	18	1830CST			0	0	3	3	Hail (1.00)
Cloud County 5 E Concordia	18	1830CST	0.1	10	0	0	4	3	Tornado (F1)
Ellis County Ellis	18	1833CST			0	0	4	4	Hail (1.50)
Clay County Clay Center	18	1845CST			0	0	3	3	Thunderstorm Winds (G52)
Ellis County 5 W Hays	18	1846CST			0	0	4	4	Hail (1.75)
Ellis County Hays	18	1851CST			0	0	4	4	Hail (1.50)
Clay County 10 SE Clay Center	18	1910CST			0	0	3	3	Thunderstorm Winds (G52)
Washington County 15 SE Washington	18	1915CST			0	0	3	3	Thunderstorm Winds (G52)
Russell County 2 S Gorham	18	1935CST			0	0	3	3	Hail (1.75)
Russell County 5 S Russell	18	1948CST			0	0	3	3	Hail (0.75)
McPherson County Lindsborg	18	2020CST			0	0	3	3	Thunderstorm Winds (G52)

Severe thunderstorms moved across parts of central and north-central Kansas. They spawned several funnel clouds, high winds, large hail, and a tornado. A tornado touched down east of Concordia Airport and damaged several farm buildings and downed several power poles. Clay Center had some extensive tree damage, as did Great Bend, Lindsborg, and Burr Oak. Power poles were knocked down near Esbon and north of Esbon a hog shed was destroyed.

Chase County Cedar Point	18	2145CST			0	0	3	0	Thunderstorm Winds (G60)
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Winds from thunderstorms blew down limbs and power lines.

Barton County Great Bend Arpt	18	2350CST			0	0	3	3	Thunderstorm Winds (G61)
Barton County Great Bend	19	0015CST			0	0	3	3	Thunderstorm Winds (G52)
Coffey County Gridley	19	0950CST			0	0	4	0	Thunderstorm Winds (G60)

A mobile home rolled off its foundation.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Franklin County Ottawa	19	1025CST			0	0	4	0	Thunderstorm Winds (G65)
Franklin County Ottawa	19	1045CST			0	0	4	0	Thunderstorm Winds (G80)
Pawnee County Larned	19	1855CST			0	0	0	0	Thunderstorm Winds (G50)
Pratt County 6 NW Pratt	19	1910CST			0	0	0	0	Thunderstorm Winds (G50)
Pratt County Pratt	19	1915CST			0	0	0	0	Thunderstorm Winds (G50)
Reno County Turon	19	1935CST			0	0	5	4	Thunderstorm Winds (G90)

Winds uprooted trees and blew down a barn.

Kingman County 5 N Kingman	19	1955CST			0	0	5	4	Thunderstorm Winds (G100)
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Thunderstorm winds measured at 116 mph uprooted trees and tore down power lines in and around Kingman.

Reno County Lake Cheney	19	2005CST			0	1	6	6	Thunderstorm Winds (G90)
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Thunderstorm winds caused considerable damage to buildings, boats, trees, and power lines in and around Lake Cheney. A mobile home was destroyed, injuring one woman. Total damage to property and crops was \$1.3 million.

Sedgwick County Cheney	19	2005CST			0	0	4	4	Thunderstorm Winds (G70)
Sedgwick County Andale	19	2020CST			0	0	7	4	Thunderstorm Winds (G90)

Winds blew down a grain elevator causing \$6 million in damage. Heavy damage to trees, roofs, and power lines.

Sedgwick County Wichita	19	2041CST			0	26	8	5	Thunderstorm Winds (G100)
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Winds were measured at 68 mph at the NWS Office (Southwest Wichita) but based on damage, winds were estimated over 100 mph. There was extensive damage over the area, especially the northern half of the city. At 2145 CDT all TV and radio stations went off the air. Total damage in Wichita was estimated at \$60 million.

Ness County Ness City	19	2045CST			0	0	3	3	Hail (0.75)
Harvey County Sedgwick	19	2050CST			0	1	6	4	Thunderstorm Winds (G80)

One person was seriously injured when their mobile home was overturned. There was also considerable damage to homes, trees, and power lines.

Sedgwick County Park City	19	2055CST			0	0	6	4	Thunderstorm Winds (G90)
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Mobile home park sustained \$2.5 million in damages, with another \$1 million in damage to the city. Jbarra Airport reported that 13 private planes received \$500,000 worth of damage.

Butler County Augusta	19	2110CST			0	1	6	4	Thunderstorm Winds (G74)
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Winds over 80 mph tore down trees and power lines. Six businesses were damaged and a mobile home was destroyed and one person injured 8 miles SW of Augusta.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Harvey County Whitewater	19	2110CST			0	4	6	4	Thunderstorm Winds (G80)
Four people were injured near Whitewater when the damage occurred to homes. There was extensive damage across southeastern Harvey County. Total property damage nearly \$3 million.									
Butler County Eldorado	19	2125CST			0	0	6	4	Thunderstorm Winds (G75)
Extensive tree damage, power pole and line damage, and damage to several homes.									
Butler County Cassoday	19	2135CST			0	0	5	3	Thunderstorm Winds (G75)
Two flatbed railroad cars, carrying piggy-back trailers were knocked off the railroad tracks.									
Chase County Matfield Green	19	2135CST			0	0	5	3	Thunderstorm Winds (G80)
Trees and power lines down. Thunderstorm winds ravaged parts of south-central and southeastern Kansas on June 19th. The area hardest hit was a 25 mile-wide-swath from Pratt to Andale to Madison. This included the counties of southern Reno, northern Kingman, southern Harvey, Sedgwick (including Wichita), Butler, southeast Chase, and northern Greenwood counties. Thirty-three people were injured from the 80 to 120 mph winds. Power was out to over 40,000 people and over 100 utility poles were knocked down. Total damage to utility lines and poles was set at \$15 million. In Wichita, 30,000 people were without phone service. Total storm damage was over \$80 million to property and agriculture. The Governor of Kansas declared it a disaster area.									
Greenwood County Eureka	19	2135CST			0	0	5	3	Thunderstorm Winds (G70)
Tree and roof damage.									
Greenwood County Madison	19	2145CST			0	0	6	4	Thunderstorm Winds (G75)
Extensive tree and roof damage in Madison with as many as 130 power poles snapped between Madison and Hamilton. Total property damage in the county nearly \$2 million.									
Hamilton County 16 SE Syracuse	19	2200CST	1.5	150	0	0	5	5	Tornado (F2)
Tornado hit several farm houses, destroyed barns, sheds, grain bins, and other farm equipment. Large hail also caused extensive damage to wheat across the southern half of the county.									
Stanton County 12 NE Johnson	19	2205CST	1.5	150	0	0	5	5	Tornado (F2)
Tornado damage and hail damage covered a 5-square-mile area where four farm homes received extensive damage to roofs, windows, and siding. Smaller farm buildings were destroyed.									
Lane County Dighton	19	2207CST			0	0	4	4	Hail (0.75)
Barton County Great Bend	19	2215CST			0	0	5	3	Thunderstorm Winds (G80)
Grand County Ulysses	19	2220CST	20.0	300	0	2	6	6	Tornado (F2)
A super cell thunderstorm moved into western Kansas producing three tornadoes and large hail. The largest and most destructive tornado started 5 miles northwest of Ulysses and was on the ground for about 20 miles. One residence in Ulysses was destroyed and several were damaged.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Five trailer homes were destroyed and five others damaged. Two grain and implement companies were extensively damaged. The Red Rock School, 12 miles east of Ulysses was heavily damaged. The roof of the century-old school was taken off and blown onto a house nearby. A large swath of wheat was destroyed from 12 miles southeast of Syracuse to 12 miles east of Ulysses. The tornado lifted 12 miles east of Ulysses.

Barton County Ellinwood	19	2240CST			0	0	3	3	Hail (0.75)
Rice County Raymond	19	2240CST			0	0	4	3	Thunderstorm Winds (G61)
Rice County Sterling	19	2312CST			0	0	5	3	Thunderstorm Winds (G61)
McPherson County 5 S McPherson	19	2314CST			0	0	4	3	Thunderstorm Winds (G65)
McPherson County Inman	19	2330CST			0	0	4	3	Thunderstorm Winds (G65)

Several strong thunderstorms moved east across southern Barton, Rice, and McPherson counties. The storms caused wind gusts to near 100 mph (estimated). The winds destroyed some mobile homes, blew away farm buildings, downed power lines, and uprooted trees.

Reno County Nickerson	19	2340CST			0	0	3	3	Thunderstorm Winds (G60)
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Tree damage.

Reno County Haven	19	2355CST	0.5	440	0	0	4	3	Tornado (F1)
Sedgwick County 4 N Valley Center	19	2355CST	0.5	100	0	0	0	0	Tornado (F0)
Trego County 9 S Wakeeney	21	1300CST			0	0	4	4	Hail (1.50)
Stevens County Hugoton	21	1326CST			0	0	0	4	Hail (0.75)
Anderson County Colony	21	1345CST			0	0	4	0	Hail (2.00)
Ness County 8 N Ness City	21	1355CST			0	0	5	5	Hail (1.00)
Anderson County Garnett	21	1355CST			0	0	4	0	Hail (2.00)
Anderson County Garnett	21	1357CST			0	0	3	0	Thunderstorm Winds (G65)
Ness County Bazine	21	1420CST			0	0	5	5	Hail (1.50)

Large hail covered the ground in Bazine. Extensive damage occurred to windows of homes and cars.

Steward County Liberal	21	1430CST			0	0	3	0	Hail (0.75)
Thomas County Gem	21	1440CST			0	0	5	5	Hail (3.00)

Baseball-size hail caused major damage to homes and vehicles.

Chautauqua County Cedar Vale	21	1450CST			0	0	0	0	Thunderstorm Winds (G60)
Bourbon County Bronson	21	1455CST			0	0	0	0	Thunderstorm Winds (G60)

Tree damage.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Thomas County 11 E Mingo	21	1505CST			0	0	5	5	Hail (2.00)
Lyon County Emporia	21	1507CST			0	0	0	0	Hail (1.00)
Sheridan County 2 E Menlo	21	1515CST			0	0	3	3	Hail (1.50)
Sheridan County 5 N Grinnell	21	1520CST			0	0	0	0	Funnel Cloud
Pawnee County 7 SE Larned	21	1522CST			0	0	0	0	Thunderstorm Winds (G58)
Osage County Melvern Reservoir	21	1530CST			0	0	0	0	Hail (1.00)
Gove County Grinnell	21	1533CST			0	0	4	4	Hail (1.00)
Coffey County Ottumwa	21	1542CST			0	0	0	0	Hail (1.00)
Labette County Parsons	21	1605CST			0	0	0	0	Hail (0.75)

Trees were damaged.

Labette County Parsons	21	1605CST			0	0	0	0	Thunderstorm Winds (G60)
Hodgeman County 12 NW Jetmore	21	1614CST			0	0	0	0	Thunderstorm Winds (G58)
Gove County 10 SSE Gove	21	1615CST			0	0	4	4	Hail (1.00)
Linn County Blue Mound	21	1615CST			0	0	2	2	Hail (0.75)
Miami County 1 W Osawatomie	21	1615CST			0	0	2	2	Hail (0.75)
Trego County 10 S Wakeeney	21	1638CST			0	0	3	3	Hail (1.00)
Ness County 2 E Ransom	21	1655CST			0	0	3	4	Hail (1.50)

A temperature drop of 20° was recorded at Goodland between 1400 and 1600 CST on the 21st as thunderstorms moved through northwestern Kansas producing large hail.

Johnson County Olathe (IXD)	21	1705CST			0	0	0	0	Thunderstorm Winds (G50)
Barton County 15 SW Great Bend	21	1815CST			0	0	3	3	Thunderstorm Winds (G52)
Sherman County Goodland Airport	25	1617CST			0	0	0	0	Thunderstorm Winds (G55)
Sherman County Goodland Airport	25	1633CST			0	0	0	0	Thunderstorm Winds (G61)
Washington County 1 E Washington	26	0100CST			0	0	3	3	Thunderstorm Winds (G52)
Clay County 2 E Clay Center	26	0128CST			0	0	3	3	Thunderstorm Winds (G52)
Geary County Milford Lake	26	0154CST			0	0	3	0	Thunderstorm Winds (G58)
Dickinson County 5 NE Abilene	26	0210CST			0	0	3	3	Thunderstorm Winds (G52)

Several farm buildings were damaged and trees uprooted from thunderstorm wind gusts near Abilene and Clay Center.

Shawnee County 1 N Topeka	26	0248CST			0	0	3	0	Thunderstorm Winds (G73)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KANSAS Cont'd

Shawnee County Topeka	26	0250CST			0	0	3	0	Thunderstorm Winds (G55)
A large tree fell across two cars.									
Douglas County Lawrence	26	0315CST			0	0	0	0	Thunderstorm Winds (G53)
Hamilton County 4 E Syracuse	26	2335CST			0	0	0	0	Thunderstorm Winds (G58)
Hamilton County 8 N Syracuse	26	2335CST			0	0	0	0	Thunderstorm Winds (G58)
Kearney County 6 N Lakin	26	2348CST			0	0	0	0	Thunderstorm Winds (G58)
Kearney County 10 W Lakin	26	2350CST			0	0	0	0	Thunderstorm Winds (G58)
Kearney County 3 W Lakin	26	2355CST			0	0	0	0	Thunderstorm Winds (G60)
Kearney County 7 N Lakin	26	2358CST			0	0	0	0	Thunderstorm Winds (G58)
Pawnee County Burdett	27	0400CST			0	0	0	0	Flash Flood

Strong thunderstorms produced strong wind gusts and heavy rain. The heaviest rain fell in the Burdett area where flooding was reported in low areas.

Sherman County Goodland Airport	29	2132CST			0	0	0	0	Thunderstorm Winds (G59)
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KENTUCKY

Union County	01	0000CST			0	0	0	3	Flood
The lower Ohio River was in flood from the 1st until the 5th of the month. Only farmland was flooded.									
Carter County	02	1900EST			0	0	3	0	Thunderstorm Winds Flash Flood
Strong winds damaged a house and downed several trees 5 miles north of Olive Hill. Also several streams were out of their banks in the area.									
Meniffe County	02	1915EST	2	50	0	0	5	3	Tornado (F1)
A tornado destroyed one house and damaged several others one mile south of Pomeroyton. Two barns were also destroyed.									
Morgan County	02	1925EST	6	50	0	0	5	3	Tornado (F1)
This tornado touched down at Grassy Creek and stayed on the ground to Cottle. Five houses and two mobile homes were damaged. Many trees were also uprooted.									
Johnson County	02	2000EST	1	25	0	0	5	3	Tornado (F1)
This tornado touched down just east of Flatgap and moved through this small community. One food market and a mobile home were destroyed. Several other houses were damaged.									
Trimble County	02	2305EST	6	50	0	1	6	3	Tornado (F2)

A tornado which touched down in Clark County, Indiana crossed the Ohio River into Trimble County, moving across the small community of Mt. Pleasant. This tornado damaged 15 homes and 25 barns. One man was injured. In addition many trees and power lines were blown down.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

KENTUCKY Cont'd

Oldham County Henry County	02 2330EST- 2342EST	9	75	0	5	6	3	Tornado (F3)	
<p>A strong tornado touched down just east of Goshen and moved east across the county, moving 1 mile north of LaGrange. The tornado then moved into Henry County and through the small community of Jericho. In Oldham County three houses and three mobile homes were destroyed and twelve homes were damaged when the tornado moved through a subdivision of LaGrange. Five people sustained minor injuries. Three businesses also reported damage. Damage estimates ranged from \$2 to \$3 million. In Henry County a barn was damaged.</p>									
Henry County	02 2345EST	1	50	0	0	3	2	Tornado (F1)	
<p>A small tornado touched down just south of Franklinton. Several houses and a barn were damaged.</p>									
Logan County Olmstead to 5 SE Russellville	02 2234CST- 2245CST	11	100	0	0	4	2	Tornado (F1)	
<p>A weak tornado moved through southern Logan County from Allensville to Corinth. Several outbuildings and a house under construction were damaged.</p>									
Boone County	02 2340EST	0.75	150	0	0	5	0	Tornado (F1)	
<p>A tornado touched down just south of Burlington. Four houses sustained major damage and several houses had minor damages.</p>									
Carroll County	02 2353EST			0	2	4	0	Thunderstorm Winds	
<p>Strong winds flattened a mobile home, slightly injuring two people. In addition many trees and power lines were blown down.</p>									
Shelby County	03 0014EST	1	100	0	0	6	0	Tornado (F2)	
<p>A tornado touched down 1 mile north of Shelbyville. Sixteen homes and 12 barns were damaged. Damage estimates were over \$1 million.</p>									
Owen County	03 0015EST			0	0	4	3	Thunderstorm Winds	
<p>Strong winds destroyed three large barns, and damaged two others as well as an old house in New Columbus.</p>									
Mason County	03 0145EST			0	0	3	0	Thunderstorm Winds	
<p>Several large trees were blown down near Mt. Gillead Road.</p>									
Bracken County	03 0150EST			0	0	4	0	Thunderstorm Winds	
<p>High winds damaged several houses and blew down some trees.</p>									
Nicholas County	03 0200EST			0	0	5	3	Thunderstorm Winds	
<p>Strong winds destroyed a barn and silo as well as blew over several large trees which crushed three vehicles near Moorefield. A mobile home was also damaged.</p>									
Nicholas County	03 0215EST			0	0	4	4	Flash Flood	
<p>Heavy rain caused nearly every creek in the county to swell beyond the flooding point, causing crop and property damage in most low-lying areas across the county.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

KENTUCKY Cont'd

Menifee County	03	0315EST- 0415EST			0	0	5	3	Flash Flood
Near Frenchburg, 250 people were evacuated from 45 houses, after heavy rain caused flash flooding in the area. Six mobile homes were washed from their foundations. Half the 45 homes evacuated sustained water damage. Twelve vehicles were also damaged.									
Henderson County Alzey	06	1250CST			0	0	2	0	Thunderstorm Winds
Several large trees blown down.									
Union County 5 N Uniontown	06	1300CST			0	0	3	0	Thunderstorm Winds
Several large trees were uprooted by thunderstorm winds.									
Henderson County Henderson	06	1300CST- 1305CST			0	0	2	0	Thunderstorm Winds
Several large trees were blown down.									
Henderson County Niagara	06	1307CST	0.2	20	0	0	3	0	Tornado (F0)
A weak tornado downed 40 trees in a wooded area and damaged a roof to a house.									
Daviess County Owensboro	06	1320CST			0	0	3	0	Thunderstorm Winds
Thunderstorm winds uprooted several trees.									
Daviess County 12 E Owensboro	06	1325CST			0	0	3	0	Thunderstorm Winds
High winds ripped a roof off a house.									
Henderson County Poole	06	1342CST			0	0	3	0	Thunderstorm Winds
High winds blew down power lines and several trees.									
Hancock County Hawesville	06	1350CST			0	0	4	0	Thunderstorm Winds
Thunderstorm winds damaged a mobile home.									
Breckinridge County	06	1353CST	2	50	0	0	4	3	Tornado (F0)
A tornado touched down near Cloverport, destroying a shed and blowing down trees and power lines.									
Meade County	06	1510EST			0	0	4	2	Thunderstorm Winds
High winds damaged several homes and uprooted trees in Payneville.									
Hancock County Sunny Corner	06	1415CST	0.5	20	0	0	4	0	Tornado (F0)
A tornado briefly touched down uprooting a tree which fell on a nearby home.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KENTUCKY Cont'd

Jefferson County	06	1530EST			0	0	5	0	Thunderstorm Winds
Strong thunderstorm winds downed hundreds of trees and power lines, leaving thousands of residents without power. Several houses were damaged by falling trees. At least two downtown businesses were also damaged. The storm produced a wind gust of 73 mph at WSFO SDF.									
Bullitt County	06	1545EST- 1555EST			0	0	5	3	Thunderstorm Winds
Thunderstorm winds in excess of 80 mph damaged a mobile home and destroyed several barns as well as uprooting many trees across the area.									
Grayson County Millwood	06	1445CST			0	0	3	0	Thunderstorm Winds
Estimated 60 mph wind uprooted trees.									
LaRue County	06	1600EST			0	0	3	2	Thunderstorm Winds
Several large trees were down across the county.									
Oldham County	06	1609EST			0	0	3	2	Thunderstorm Winds
Trees blown down over Highway 42 in the western part of the county.									
Spencer County	06	1615EST- 1630EST			0	0	3	2	Thunderstorm Winds
Strong winds uprooted trees and knocked out power to approximately 100 residents.									
Shelby County	06	1620EST			0	0	5	2	Thunderstorm Winds
Strong thunderstorm winds knocked down power lines and trees, including one which damaged the porch of a business.									
Henry County	06	1620EST			0	0	5	2	Thunderstorm Winds
Strong winds damaged 16 houses in Eminence, Pleasureville, and Defoe. Also several barns and outbuildings were damaged.									
Franklin County	06	1622EST- 1640EST			0	0	4	0	Thunderstorm Winds
A 60 mph wind was reported at the Frankfort City Airport. Trees were blown down in the city and a car was damaged by a falling tree.									
Todd County Clifty	06	1524CST			0	0	2	0	Thunderstorm Winds
Thunderstorm winds downed a few trees.									
Trimble County	06	1633EST			0	0	4	2	Thunderstorm Winds
High wind destroyed several barns and outbuildings as well as damaging a mobile home. Many large trees were blown down.									
Logan County	06	1542CST			0	0	0	0	Hail (0.75)
Marion County Taylor County	06	1645EST			0	0	4	2	Thunderstorm Winds
Several large trees were blown down around Finley along the Marion and Taylor County line.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KENTUCKY Cont'd

Scott County 06 1650EST 0 0 3 0 **Thunderstorm Winds**

Trees were blown down in the eastern portion of the county.

Pendleton County 06 1655EST 0 0 3 0 **Thunderstorm Winds**

Numerous trees were blown down across the county.

Grant County 06 1700EST 0 0 3 0 **Thunderstorm Winds**

A barn was damaged and trees were blown down around Jonesville. At Williamstown several large trees were blown down. A high-tension wire blown down in the county cut power to many northern Kentucky counties.

Bracken County 06 1730EST 0 0 3 0 **Thunderstorm Winds**

Trees were blown down across the county.

Pendleton County 07 0308EST 0 0 2 0 **Thunderstorm Winds**

Several trees were blown down.

Marion County 07 0350EST 0 0 0 0 **Hail (1.75)**
Jefferson County 07 0450EST 0 0 3 0 **Thunderstorm Winds**

Nrn Bullett County

Several large trees and power lines were blown down.

Bullitt County 07 0830EST 0 0 3 0 **Thunderstorm Winds**

More trees were blown down in the northern part of the county.

Union County 08 1530CST 0 0 3 0 **Thunderstorm Winds**
6 N Sturgis

Thunderstorm winds downed large limbs and a few trees.

Henderson County 08 1540CST 0 0 2 0 **Thunderstorm Winds**
3 N Corydon

Several trees were blown down.

Henderson County 08 1636CST 0 0 0 0 **Hail (0.75)**
5 NE Henderson 08 1640CST 0 0 3 0 **Thunderstorm Winds**
Webster County

Thunderstorm winds downed trees and power lines in Sebree, Onton, and Slaughters.

Breckinridge County 08 1730CST 0 0 2 0 **Thunderstorm Winds**

Trees were blown down in the eastern portion of the county.

Jessamine County 08 2100EST 0 0 3 0 **Thunderstorm Winds**

Trees were blown down in the northern part of the county.

Jessamine County 08 2115EST 0 0 0 0 **Hail (0.75)**
Nicholasville

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KENTUCKY Cont'd

Daviess County Owensboro to Stanley	09 1445CST				0	0	4	3	Thunderstorm Winds Hail
Thunderstorm winds removed a roof in Owensboro and damaged several buildings in Stanley. The storm also dropped small hail that damaged a tobacco crop.									
Carroll County	14 1730EST				0	0	2	0	Thunderstorm Winds
Several trees uprooted near Ghent.									
Owen County	14 1745EST				0	0	2	0	Thunderstorm Winds
Trees uprooted in Owenton.									
Grant County	14 1805EST				0	0	4	2	Thunderstorm Winds
Winds estimated at 60 mph uprooted trees and downed power lines in Williamstown.									
Pendleton County	14 1833EST				0	0	4	2	Thunderstorm Winds
Strong winds destroyed several barns and damaged some houses. Trees were also uprooted.									
Bracken County	14 1855EST				0	0	4	2	Thunderstorm Winds
Thunderstorm winds destroyed barns and outbuildings near Germantown.									
Mason County	14 1900EST				0	0	5	2	Thunderstorm Winds
Strong winds ripped the roof off a car dealership. Several houses were also damaged.									
Bath County Clark County Estill County Fayette County Madison County Montgomery County Powell County	14 1955EST- 2130EST				0	0	5	4	Flash Flood
From 2 to 4 inches of rain fell in a two-hour period across north-central Kentucky. Many streams and creeks rose out of their banks, covering roads and forcing the evacuation of some homes in low-lying areas. Around ten mobile homes had water damage and many people reported water in their basements.									
Fleming County	14 2010EST				0	0	2	0	Thunderstorm Winds
Trees down in Flemingsburg.									
Jessamine County	14 2015EST				0	0	3	0	Thunderstorm Winds
Several trees reported down around the county.									
Madison County	14 2022EST				0	0	3	0	Thunderstorm Winds
Several trees blown down in Richmond.									
Woodford County	14 2034EST				0	0	3	0	Thunderstorm Winds
Trees uprooted across the county.									
Magoffin County	14 2225EST				0	0	4	2	Flash Flood
High water flooded the firehouse at Sayersville. Several roads in the town were also flooded.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KENTUCKY Cont'd

Logan County	18	0530CST- 0600CST			0	0	3	0	Thunderstorm Winds
									Trees and power lines were downed near Russellville.
Fayette County	22	0700EST			0	0	4	0	Thunderstorm Winds
									Strong winds downed trees and power lines in Lexington. One tree smashed a car. There were no injuries.
Trimble County	22	1639EST			0	0	4	2	Thunderstorm Winds
									Several large trees were uprooted; one of which damaged a car. Power lines were also reported down.
Pendleton County	22	1735EST			0	0	3	2	Thunderstorm Winds
									Trees and power lines blown down at Butler.
Campbell County	22	1740EST			0	0	3	2	Thunderstorm Winds
									Trees down in Alexandria.
Bracken County	22	1820EST			0	0	2	0	Thunderstorm Winds
									Power lines down in a subdivision near Blaketon.
Pulaski County	22	1820EST			0	0	3	3	Thunderstorm Winds Hail
									Trees and power lines blown down in the central part of the county. Also a tobacco crop was damaged from hail around the Science Hill area.
Laurel County	22	1853EST	12	50	0	0	5	3	Tornado (F1)
									A tornado was on the ground from 10 miles west of London to 2 miles northeast of London. The tornado moved through the small community of Pittsburg. Several mobile homes were damaged and many large trees were down as well as power lines. An auto sales building was also damaged.
Clay County	22	2020EST			0	0	3	0	Thunderstorm Winds
									Many trees were blown down in the western part of the county.
Clay County	22	2030EST	1	50	0	0	4	2	Tornado (F0)
									A tornado touched down 3 miles south of Manchester at Ham Hollow. The roof was blown off an entertainment center. Several vehicles were damaged; however, nearly 400 people at the center were uninjured.
Leslie County	22	2110EST	1	20	0	0	4	2	Tornado (F0)
									A tornado touched down 8 miles south of Hyden. Trees were uprooted and power lines were blown down.
Perry County	22	2125EST- 2132EST			0	0	3	2	Thunderstorm Winds
									Many trees and power lines were blown down across the county.
Knott County	22	2215EST			0	0	3	2	Thunderstorm Winds
									Large trees and power lines down 7 miles south of Hindman.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

KENTUCKY Cont'd

Letcher County	22	2225EST			0	0	3	2	Thunderstorm Winds
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Trees and power lines down around Whitesburg.

LOUISIANA

Vernon Parish Rosepine	03	1845CST			0	0	4	?	Thunderstorm Winds
Beauregard Parish 6 E DeRidder	03	1915CST			0	0	4	?	Thunderstorm Winds

A cluster of severe thunderstorms moved across western Vernon Parish into Beauregard Parish toppling trees and stripping trees of large branches. Near Rosepine, large trees fell onto several houses causing considerable roof damage and a barn was destroyed by the wind gusts. Near DeRidder, four mobile homes were damaged by falling trees and numerous trees were downed between DeRidder and Sugartown.

Orleans Parish New Orleans	08	0849CST			1	3	0	0	Lightning
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Lightning struck a young man as he was walking across the University of New Orleans campus. The lightning entered through his head and exited through his left foot, ripping his shoe and sock off his foot. Paramedics revived the young man, but he remained in a coma and died on June 14th. Three other students in the vicinity of the lightning discharge were knocked to the ground, but their injuries were relatively minor. M310.

Morehouse Parish 3 E Mer Rouge	10	1720CST			0	0	?	0	Thunderstorm Winds
Colliston	10	1730CST			0	0	?	0	Thunderstorm Winds
Quachita Parish Sterlington	10	1730CST			0	0	?	0	Thunderstorm Winds
Fairbanks	10	1810CST			0	0	?	0	Thunderstorm Winds
Union Parish Spencer	10	1805CST			0	0	?	0	Thunderstorm Winds
D'Arbonne	10	1845CST			0	0	?	0	Thunderstorm Winds
Bernice	10	1915CST			0	0	?	0	Hail (0.88)
Lincoln Parish Dubach	10	1920CST			0	0	?	0	Hail (1.00)
Simsboro	10	1930CST			0	0	?	0	Thunderstorm Winds

A severe thunderstorm brought damaging thunderstorm wind gusts and hail to widely scattered areas in northern Louisiana. Most of the damage was confined to downed trees and power lines.

St. Tammany Parish Mandeville	10	1500CST			0	1	0	0	Lightning
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A 16-year-old boy was injured when lightning struck a tree he was standing under. He lost consciousness for a few minutes but apparently suffered no long lasting injuries.

LAZALL

entire state

14	0600CST-				3	?	0	0	Extreme Heat
23	2300CST								

Unusually hot weather gripped the state for more than a week with daytime highs ranging from the mid 90s to around 100°, and overnight lows in the upper 70s to lower 80s. Lake Charles set a record high temperature for the month of June with a reading of 99° on June 19th. The heat, combined with high humidity levels, caused heat-related health problems for many state residents. The following three fatalities were directly attributed to heat stroke: a 52-year-old man in Shreveport, Caddo Parish on June 19th; a 75-year-old man in Shreveport, Caddo Parish on June 20th; a 46-year-old female in Eunice, St. Landry Parish on June 21st. M52P, M75P, F46P.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

LOUISIANA Cont'd

Franklin Parish

Griffin	18	1810CST			0	0	?	0	Hail (1.00)
Gilbert	18	1810CST			0	0	0	0	Hail (0.88)
Wisner	18	1825CST			0	0	?	0	Thunderstorm Winds

West Carroll Parish

Darnell	21	1600CST			0	0	0	0	Hail (0.88)
Epps	21	1600CST			0	0	?	?	Thunderstorm Winds

Afternoon thunderstorms brought a few occurrences of damaging wind gusts and hail to northeastern Louisiana.

St. Tammany Parish

Slidell	22	0630CST			0	0	4	0	Lightning
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Lightning struck a house, igniting a fire which caused \$28,000 damage to the structure.

DeSoto Parish

Logansport	24	1800CST			0	0	4	0	Lightning
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A fire, started by a lightning strike, destroyed a house near Logansport.

Calcasieu Parish

Vinton	25	1058CST			0	0	?	?	Hail (1.75)
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Ouachita Parish

5 W Calhoun	25	1335CST			0	0	0	0	Hail (0.88)
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5 N Calhoun	25	1350CST			0	0	?	?	Hail (1.00)
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Union Parish

1 W Downsville	25	1335CST			0	0	?	?	Hail (1.50)
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8 SW Farmerville	25	1445CST			0	0	?	?	Hail (1.75)
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Lincoln Parish

8 NE Choudrant	25	1340CST			0	0	?	?	Hail (1.00)
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5 NE Ruston	25	1350CST			0	0	0	0	Hail (0.88)
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8 W Dubach	25	1525CST			0	0	?	?	Hail (1.00)
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Webster Parish

Dubberly	25	1530CST			0	0	?	?	Hail (1.00)
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Bienville Parish

Pleasant Hill	25	1540CST			0	0	?	?	Hail (1.75)
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3 W Gibsland	25	1545CST			0	0	?	?	Hail (1.75)
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Sabine Parish

north portion	25	1630CST			0	0	4	?	Hail (1.00)
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Bossier Parish

Benton	25	1730CST			0	0	5	0	Lightning
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Bossier City	25	1740CST			0	0	?	?	Hail (1.00)
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Bellvue	25	1740CST			0	0	?	?	Thunderstorm Winds
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Natchitoches Parish

Robeline	25	1745CST			0	0	?	?	Thunderstorm Winds
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Hagewood	25	1750CST			0	0	?	?	Thunderstorm Winds
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Caddo Parish

Shreveport	25	1810CST			0	0	?	?	Thunderstorm Winds
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DeSoto Parish

Keatchie	25	1840CST			0	0	?	?	Thunderstorm Winds
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Severe thunderstorms developed over western Louisiana producing large hail and damaging wind gusts at scattered locations. Most of the wind damage was confined to downed trees and large branches ripped from trees. Hail up to golf ball-size fell at several locations. In northern Sabine Parish over 60 automobiles had significant hail damage. Lightning struck a small office building in Benton resulting in a fire which caused \$300,000 damage. Heavy rain from the thunderstorms produced 3 to 4 inches of rain over the extreme northwestern portion of the state with urban street flooding reported in the Shreveport area.

Calcasieu Parish

10 W Lake Charles	27	1325CST	0.20	25	0	0	0	0	Tornado (F0)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

LOUISIANA Cont'd

10 W Lake Charles	27	1325CST			0	0	0	0	Hail (1.00)
St. Landry Parish 6 S Port Barre	27	1620CST			0	0	3	0	Thunderstorm Winds

A thunderstorm west of Lake Charles produced 1- inch hail and spawned a weak tornado which touched down briefly. Near Pt. Barre, thunderstorm wind gusts overturned one mobile home and damaged two others.

MAINE

Androscoggin County

07	1240EST				0	0	3	0	Hail (0.75)
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A thunderstorm dropped three-quarter-inch hail in Mechanic Falls.

07	1250EST				0	0	3	0	Hail (0.75)
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Three-quarter-inch hail heavily covered the ground at Taylor Pond in Auburn.

07	1330EST				0	0	3	0	Hail (0.75)
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Golf ball-size hail fell in Durham and Lisbon.

York County

07	1335EST				0	0	3	0	Hail (0.75)
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Three-quarter-inch hail fell in East Waterboro.

07	1400EST				0	0	3	0	Thunderstorm Winds
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Trees and power lines were downed by wind in Watson Mills road in Saco.

19	Night				0	0	4	0	Lightning
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A Methodist Church steeple in West Kennebunk was struck by lightning and torn apart.

Piscataquis County

27	1415EST				0	0	5	0	Lightning
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Lightning struck a pine tree in front of a camp on Jay's Island on Ebeeme Pond, traveled underground and ignited two log cabins.

Penobscot County

27	1545EST- 1700EST				0	0	6	0	Lightning
					0	0	5	0	Lightning

Lightning struck and burned a house on Hammond Street and another on Kenduskeag Avenue in Bangor.

Hancock County

27	2310EST				0	0	3	0	Hail (0.75)
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Three-quarter-inch hail was reported on Branch Lake in Ellsworth.

MARYLAND and D.C.

Garrett County

Friendsville, 4 NW Friendsville	03	0000EST			0	0	4	0	Thunderstorm Winds
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At Friendsville a large tree was blown down onto two vehicles. Many homes in Friendsville and 4 miles northwest of Friendsville were damaged. Reports of a tornado could not be confirmed.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MARYLAND and D.C. Cont'd

trailers indicated some was caused by tornadic winds, but most of the damage in both counties occurred as a result of downburst straight-line winds. Damage from thunderstorm winds of an unspecified nature was also reported near Hickory. Some 50,000 were without power from this storm.

Harford County
Darlington 08 1745EST 0 1 0 0 **Thunderstorm Winds**

A woman was struck and slightly injured by a falling tree limb.

Cecil County 08 1745EST-1805EST 0 0 3 0 **Thunderstorm Winds**

Police and fire departments reported many large trees and power lines down especially in the northeastern part of the county. An outbuilding collapsed in Cecilton in the southern part of the county at 1803 EST. Near Earleville, about 30 houses were damaged by falling trees, and several mobile homes were shifted off their foundations.

Frederick County 09 1500EST 0 0 0 0 **Thunderstorm Winds**

Several trees downed along Route 28.

Montgomery County
Point of Rocks 09 1610EST 0 0 0 0 **Hail (0.75)**

Montgomery County
Darnestown 09 1730EST 0 0 ? 0 **Thunderstorm Winds**

A severe weather spotter recorded gusts to about 50 knots (55 mph).

Montgomery County
Rockville, Silver Spring, Gaithersburg 09 1710EST-1715EST 0 0 0 0 **Thunderstorm Winds**

Few trees and limbs down throughout those cities.

Prince Georges County
Bowie 09 1630EST 0 0 4 0 **Thunderstorm Winds**

About 400 trees downed. Thirty homes and several vehicles were damaged in Bowie from falling trees. About 3,800 homes were without power. Several Bowie residents said the storm could have been a tornado, but these reports could not be confirmed. The cost of tree removal was estimated at \$351,000.

District of Columbia 09 1600EST 0 0 3 0 **Thunderstorm Winds**

Power lines were downed at several places in the northwestern part of the city.

Cecil County
1 N Elkton 09 1830EST-1845EST 0 0 3 0 **Thunderstorm Winds**

Trees and power lines downed. Winds reported at 60 mph 1 mile north of Elkton at 1843 EST.

Baltimore County
Cockeysville 09 1745EST-1800EST 0 0 3 0 **Thunderstorm Winds**

Trees and power lines were downed, with some falling onto cars. Some 375 homes in the northeast part of the county were without power for 10 to 20 hours. About 40,000 customers lost power in Cockeysville.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MARYLAND and D.C. Cont'd

Anne Arundel County

Annapolis, Edgewater	09	1830EST			0	0	4	0	Thunderstorm Winds
Talbot County Piney Point, Trappe	09	1800EST-2045EST			0	0	3	0	Thunderstorm Winds

Trees, power lines, and several outbuildings were blown down.

Anne Arundel County

Annapolis	15	0230EST-0530EST			0	0	3	0	Flooding Heavy rain
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About 1.50 inches of rain in the Annapolis area caused flooding due to ponding of water. The heavy rains caused a tree branch to fall on power lines causing outages to 2,500 customers in the Crownsville and Millersville areas.

Washington County Hagerstown

	18	1410EST			0	0	4	0	Thunderstorm Winds Lightning
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Winds to about 50 knots (55 mph) were reported in western Washington County. A few power lines were downed in Hagerstown and trees fell onto two houses and a car. Near Hagerstown, eight heifers were killed by lightning as they stood under a tree.

Frederick County

	18	1413EST-1520EST			0	0	3	0	Thunderstorm Winds
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See details below.

Emmitsburg

	18	1432EST			0	0	3	0	Thunderstorm Winds
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A tree fell onto a house and power lines were also downed.

Mt. Airy

	18	1513EST			0	0	3	0	Thunderstorm Winds
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Winds gusting to 60 mph along with tree damage.

Frederick County 6 N Frederick

	18	1454EST			0	0	3	0	Thunderstorm Winds
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Several trees were blown down in Frederick. A store and a greenhouse 6 miles north of Frederick suffered about \$10,000 damage from winds that partially unroofed the buildings.

Walkersville Utica

	18	1530EST			0	0	3	0	Thunderstorm Winds
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Uprooted trees and storm damage were reported at Walkersville and Utica. Funnel clouds were reportedly seen at Walkersville but tornadic activity could not be confirmed.

Montgomery County Darnestown

	18	1500EST-1515EST			0	0	3	0	Thunderstorm Winds
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Straight-line winds estimated up to 60 knots downed trees and power lines. A house suffered minor damage to its roof from winds, and a falling tree crushed a fence.

Carroll County

	18	1500EST			0	0	3	0	Thunderstorm Winds Flooding
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County Civil Defense Director reported many large trees down in the south part of the county. A road was also reportedly washed out.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MARYLAND and D.C. Cont'd

Montgomery County Rockville	18	1558EST			0	0	0	0	Thunderstorm Winds
Cecil County 1 S Chesapeake	18	1900EST- 2100EST			0	0	3	0	Flooding

Flooding was reported on a state highway just south of Chesapeake City.

Harford County Forest Hill	18	2130EST			0	0	3	0	Lightning
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Lightning struck a house causing some \$30,000 damage.

Worcester County Ocean City	19	2000EST- 2100EST			0	0	3	0	Lightning
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Lightning struck a telephone company office at 0800 EST causing loss of service to about 8,000 in Ocean City.

Prince Georges, Anne Arundel, Calvert, Baltimore Counties	22	1800EST- 2000EST			0	0	4	0	Thunderstorm Winds
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A large tree was downed near the Severn River in Anne Arundel County. Tree limbs were downed in several places in northern Prince Georges County. Power outages affected 40,000 in southern Baltimore and Anne Arundel counties, and an additional 2,000 in northern Calvert County.

Calvert County Prince Frederick	24	2030EST- 2130EST			0	0	4	3	Thunderstorm Winds
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In Prince Frederick, numerous trees were downed, with the worst damage in the Hunters Ridge area. A tree fell onto power lines causing outages for 1,000 customers. Several cornfields suffered total crop loss.

Garrett County	29	1850EST			0	0	0	0	Thunderstorm Winds
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Sheriff's Department reported a tree down in the southern part of the county.

Garrett County Deep Creek	30	2100EST- 2200EST			0	0	0	0	Flooding
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Several roads in the Deep Creek area were closed due to flooding.

MASSACHUSETTS

Berkshire County Becket	19	1438EST			0	0	0	0	Funnel
Lee	19	1440EST			0	0	0	0	Funnel
Tyringham	19	1440EST			0	0	0	0	Funnel
Lee	19	1540EST			0	0	?	0	Hail (1.75)
Lee	19	1545EST			0	0	?	0	Thunderstorm Winds
Great Barrington	19	1551EST			0	0	?	0	Thunderstorm Winds

Funnel clouds were reported in the Berkshires during the early stages of rapid thunderstorm growth. About one hour later, large hail and wind caused unknown dollar value damage in

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MICHIGAN Cont'd

MIZ001-068
 All Lower **03 0700EST** **0 0 5 0** **Wind (G60)**

The center of a deep spring storm moved from northern Wisconsin Saturday evening to the upper peninsula of Michigan Sunday morning. Sustained winds of 25 to 40 knots were common during the daylight hours of Sunday, June 3, 1990. At the University of Michigan, the wind tower reported a gust to 60 knots around 1430 EST on Sunday. Extensive wind damage was reported across lower Michigan during the daylight hours of Sunday. These included many reports of trees falling on homes and cars, traffic lights down in many towns, and road and traffic signs down. Numerous reports of roads blocked by trees were also received. Almost 300,000 customers were without power by Sunday evening across lower Michigan. It took almost a week to restore power to some locations. All together damage is estimated around \$300,000.

Genesee County
 Grand Blanc **14 0622EST** **0 0 4 0** **Lightning**

Two homes hit by lightning, no injuries. Total damage \$17,000.

Lapeer County **18 0730EST** **1.0 20 0 0 4 0** **Lightning**

Empty barn destroyed after lightning hit the roof.

Kalamazoo County
 Gull Lake **22 1825EST** **1.0 20 0 0 0 0** **Tornado (F0)**

A small waterspout over Gull Lake moved onshore and quickly dissipated without causing any damage.

Saginaw County
 Thomas Township **23 0445EST** **0 0 5 0** **Lightning**

Lightning struck a home when no one was there. This allowed the fire to burn for two hours before discovery. The result was \$400,000 in damage.

Van Buren County
 Paw Paw **28 1743EST** **0 0 0 0** **Hail (1.75)**

Kalamazoo County
 I N Kalamazoo **22 1825EST** **0 0 0 0** **Hail (0.75)**

Calhoun County
 Battle Creek **28 1925EST** **0 0 4 0** **Lightning**

Lightning hit a large barn/garage and caused \$15,000 in damage.

Wexford County
 Mesick **30 1830EST** **0 0 4 0** **Thunderstorm Winds (G56)**

Numerous reports of downed trees and power lines were reported by the Wexford County Sheriff. Minor flooding was also reported with this storm along the Manistee River, near Mesick.

Macomb County
 St. Clair Shores **30 1830EST** **0.5 10 0 0 4 0** **Tornado (F1)**

A small tornado moved north for about 0.5 mile causing \$20,000 damage to buildings, cars, power lines, and trees.

MINNESOTA

Grant County
 Barrett **01 1819CST** **0 0 ? ?** **Hail (1.75)**

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MINNESOTA Cont'd

Pope County Terrace	01	1902CST			0	0	?	?	Hail (2.75)
Douglas County Brandon	01	1905CST			0	0	?	?	Hail (1.00)
Clay County 1 W Felton	01	1945CST			0	0	4	0	Thunderstorm Winds
Douglas County Osakis	01	1956CST			0	0	0	?	Hail (0.75)
2 SW Carlos to 3 NW Miliona	01	2030CST- 2055CST	10	20	0	0	5	0	Tornado (F2)

Golf ball to baseball-diameter hail fell near the town of Terrace. Wind knocked down trees and caused some minor structural damage just west of Felton along Highway 34. A tornado went through Carlos then moved north along Highway 65 passing just east of the town of Milton before dissipating. The tornado destroyed a barn resulting in the death of livestock. Large sheets of corrugated steel roofing material were ripped off and tossed in all directions while other trees were completely uprooted. Projectiles were generated that pierced the roofing and siding of homes. A trailer house was blown off its foundation just east of Parkers Prairie. Thunderstorm winds blew down a 100 foot pole building 3 miles west of Dent.

Ottertail County Parkers Prairie	01	2100CST			0	0	4	0	Thunderstorm Winds
3 W Dent	01	2130CST			0	0	4	0	Thunderstorm Winds
Lincoln County 4 NE Lake Benton	01	2325CST			0	0	3	0	Thunderstorm Winds
Stevens County 4 NE Morris	01	2339CST			0	0	4	0	Thunderstorm Winds

Thunderstorm winds flipped over a mobile home trailer northeast of Lake Benton and damaged boats and boat lifts along the north shore of the lake. A trailer house was also lifted and moved 3 feet off its foundation, northeast of Morris. A barn was damaged next door to the trailer and trees were twisted and uprooted.

Waseca County Waseca	02	1030CST			0	0	0	0	Thunderstorm Winds (G61)
Sherburne County Zimmerman	02	1100CST			0	0	3	0	Lightning

Fire damage to the attic of a home due to lightning.

Martin County 3 E Sherburn	02	1103CST			0	0	3	0	Thunderstorm Winds
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A barn east of Sherburn was moved off its foundation by as much as 20 feet by strong thunderstorm winds.

Blue Earth County 1 S Lake Crystal	02	1140CST			0	1	0	0	Thunderstorm Winds
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One mile south of Lake Crystal an injury resulted when winds snapped a large tree limb and blew it into an occupied automobile. The driver was hospitalized for injuries to his eyes caused by broken glass.

4 S Lake Crystal	02	1140CST			0	0	3	0	Thunderstorm Winds
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Farm buildings damaged or destroyed by strong winds.

11 NW Lake Crystal	02	1145CST			0	0	3	0	Thunderstorm Winds
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Farm buildings damaged or destroyed by strong winds.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MINNESOTA Cont'd

Winona County Lewiston	02	1145CST			0	0	3	0	Thunderstorm Winds
A shed was destroyed by strong winds and debris was strewn up to 50 feet away from the shed's original site. Several large trees downed.									
Goodhue County 2 S-ENE Goodhue	02	1150CST	4	50	0	0	4	?	Tornado (F1)
A tornado destroyed a barn 2 miles south of Goodhue spreading debris up to 1.5 miles. Equipment in the barn was largely undamaged. The tornado touched down again about 2 miles east-northeast where large trees were uprooted and buildings were damaged on three farms.									
Rice County Faribault	02	1155CST			0	0	5	0	Thunderstorm Winds (G61)
Strong thunderstorm winds caused damage in excess of \$150,000 to farm buildings and equipment near Faribault.									
Sibley County 7 SW Gaylord	02	1200CST			0	0	4	0	Thunderstorm Winds
Farm buildings near Gaylord suffered considerable damage and reports of many trees downed.									
Hennepin County Long Lake/Orano Eden Prairie	02	1220CST			0	0	4	0	Thunderstorm Winds
	02	1230CST			0	0	5	0	Lightning
Thunderstorm winds downed many tree limbs and some trees. This resulted in damage to numerous automobiles. Lightning struck the Eden Prairie Police Department's 100 foot radio antenna and destroyed 11 computers.									
Olmsted County Rochester Rochester	02	1223CST			0	0	?	?	Thunderstorm Winds (G60)
	02	1923CST			0	0	?	?	High Wind (G55)
High winds gusting from 58 to 63 mph persisted until around 0400 CST across portions of southeastern Minnesota causing damage to many trees and causing scattered power outages.									
Pope County Westport	11	0421CST			0	0	4	0	Lightning
McLeod County Hutchinson	11	0458CST			0	0	4	0	Lightning
Lightning caused considerable fire damage to a restaurant and lounge in Westport. Lightning also caused extensive fire damage to several town homes in Hutchinson.									
Clay County 10 W Felton	11	2105CST	0.2	10	0	0	0	0	Tornado (F0)
A tornado touched down briefly in an open field with no reported damage.									
Polk County 6 N Fosston	11	2245CST			0	0	3	0	Lightning
Lightning caused both external and internal damage to a residence near Fosston.									
Chippewa County Clara City	11	2350CST			0	0	4	0	Thunderstorm Winds
A mobile home was destroyed by strong thunderstorm winds.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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MINNESOTA Cont'd

Stearns County Belgrade	11	2355CST			0	0	?	?	Thunderstorm Winds (G61)
Morrison County 10 S Pillager	12	0030CST			0	0	?	?	Thunderstorm Winds
Randall	12	0030CST			0	0	?	?	Thunderstorm Winds (G57)

Numerous trees were downed between Pillager and Randall, blocking roads. Power was also disrupted in the same area. A road sign was bent in half to ground level by the force of the wind.

Cottonwood County 6 E Windom	12	1522CST			0	0	0	0	Funnel
Blue Earth County Mankato	12	1530CST			0	0	?	?	Thunderstorm Winds (G61)
6 SW Mankato	12	1550CST			0	0	?	?	Thunderstorm Winds (G61)
Nicollet County St. Peter	12	1555CST			0	0	4	5	Thunderstorm Winds (G61)

Thunderstorm winds estimated in excess of 70 mph and small hail caused considerable crop and property damage in and near St. Peter.

Le Sueur County Montgomery	12	1630CST			0	0	5	?	Thunderstorm Winds
Scott County Prior Lake	12	1630CST			0	0	?	?	Hail (0.75)
Savage	12	1635CST			0	0	?	?	Hail (0.75)
Hennepin County Bloomington	12	1640CST			0	0	?	?	Thunderstorm Winds (G52)
Le Sueur County 4 S New Prague	12	1650CST			0	0	?	?	Thunderstorm Winds (G62)
Goodhue County Lake Bullesby Reservoir	12	1725CST			0	0	?	?	Thunderstorm Winds

Large trees were downed.

Redwing Northwestern Section Watonwan County Southern Section	12	1750CST			0	0	?	?	Hail (1.75)
Brown County	12	1810CST			0	0	4	6	Hail (1.75) Thunderstorm Winds

Thunderstorm winds and hail up to golf ball-size damaged crops and farm buildings. Thunderstorm winds downed trees along southern Brown and northwestern Watonwan county line near Comfrey and Sveadahl to near Hanska and Searles.

Blue Earth County Mankato	12	1830CST			0	0	?	?	Thunderstorm Winds (G57)
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Thunderstorm winds gusting to 66 mph downed power lines after uprooting 30 full-grown trees. Several homes were also damaged.

Pipestone County Ederton	12	1855CST			0	0	?	?	Hail (1.75)
Fillmore County 7 S Spring Valley	12	1917CST			0	0	0	0	Funnel
Redwood County 3 S Redwood Falls	12	1930CST			0	0	4	?	Thunderstorm Winds
Rice County 6 W Shieldsville	12	2011CST			0	0	?	?	Hail (1.75)
Northfield	12	2038CST			0	0	?	?	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MINNESOTA Cont'd

Jackson County 9 SE Lakefield	12	2100CST			0	0	3	?	Thunderstorm Winds
Renville County Fairfax	12	2210CST			0	0	5	?	Thunderstorm Winds
Faribault County Walters	12	2307CST	0.2	15	0	0	4	?	Tornado (F1)

A tornado destroyed a barn and cut a 100-foot-swath through a grove of trees southeast of Walters.

Scott County Jordan	12	2336CST			0	0	?	?	Thunderstorm Winds
Freeborn County Conger	12	2345CST			0	0	4	0	Thunderstorm Winds

Intense thunderstorms produced destructive winds and hail across southern Minnesota during the afternoon and evening. Hail as large as golf balls caused extensive damage from Comfrey through the communities of Godahl, Hemska, La Salle, and Searles. Roofs were also damaged by the hail, windows were broken, and automobiles dented. Home owners in the Godahl area had to shovel hail out of their homes after the storm. A funnel was first sighted 6 miles east of Windom and moved east-northeast past Mountain Lake to near the Watonwan County line where it dissipated at approximately 1538 CST. Two barns were destroyed and a fire department ladder truck was blown into a ditch near Montgomery. Winds also caused considerable damage along the north and east shores of Lake Bullesby including damage to two garages and a 3-seasons porch. Three miles south of Redwood Falls winds picked up 30-foot-long irrigation pipes and wrapped them around trees located up to 30 feet away. A metal roof was also blown 125 yards over an adjacent building. In Fairfax a cinder block wall was battered down by thunderstorm winds. The roof of a fertilizer plant was also ripped off. Other damage included reports of trees and power lines downed and a number of farm sites reported destroyed sheds and outbuildings.

Wabasha County	13	0017CST			0	0	?	?	Flash Flood
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Heavy rains in excess of 4 inches caused flash flooding over parts of Wabasha County. This rapid rainfall caused mudslides and the subquent closure of several highways for 4 hours or more between the cities of Wabasha, Lake City, and Zumbro Falls. Due to the rapidly rising waters many of the populated low-lying areas near the Zumbro River were evacuated.

Freeborn County Albert Lea	13	0115CST			0	0	4	?	Thunderstorm Winds
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Thunderstorm winds damaged a barn and several outbuildings on a farm just southwest of Albert Lea.

Winona County Nodine	13	0215CST			0	0	4	?	Thunderstorm Winds
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An apparent thunderstorm downburst uprooted and snapped off about two dozen trees and damaged a barn and several outbuildings in a 0.5-mile-square area just east and southeast of Nodine. The barn was moved about 2 inches off its foundation and tilted from its upright position.

Washington County Cottage Grove	16	1730CST	0.1	10	0	0	0	0	Tornado (F0)
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A brief touchdown in open fields was reported with no damage.

4 W Bayport	16	1750CST			0	0	0	0	Funnel
4 NE Lake Elmo	16	1842CST			0	0	0	0	Funnel
Big Stone County Ortonville	16	1903CST			0	0	4	?	Thunderstorm Winds (G61)

Scattered reports of trees and power lines downed.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MINNESOTA Cont'd

Washington County
4 W Stillwater/
2 N Highway 36

16 1907CST 0.1 10 0 0 3 ? Thunderstorm Winds (G61)

A brief touchdown in open fields was reported, with no damage.

Lac Qui Parle County
Nassau

16 1920CST 0 0 3 ? Thunderstorm Winds (G61)

Scattered reports of trees and power lines downed.

Swift County
Appleton

16 1930CST 0 0 3 ? Thunderstorm Winds (G57)

Scattered reports of downed trees.

Nobles County
Worthington

16 2100CST-
17 0200CST 0 0 4 ? Flash Flood

Three to 6 inches of rain caused rapid rising in small streams causing flooding of nearby segments of Highway 60 and Interstate 90. Due to the swift nature of the water flow many of these road segments were closed between 2030 and 0200 CST.

Renville County
West third

16 2100CST-
17 0400CST 0 0 4 6 Flash Flood

Four to 8 inches of rain caused rapid small stream and river level rises subsequently causing county road and bridge damage. Rushing waters closed bridges and some road segments for several hours during the early morning hours of the 17th. Crop damage was widespread across the western third of the county where crop losses averaged 5 to 10% across approximately 140,000 acres. Early loss estimates place the value loss in excess of \$750,000.

NE Yellow Medicine
County
W Kandiyohi County
SE Chippewa County

16 2200CST-
17 0400CST 0 0 4 ? Flash Flood

Six- to 10-inch rains caused considerable personal and public property damage. Numerous culvert and road segments were washed out on Highway 212. Many road segments were closed to traffic or the traffic was limited to single lane for most of the weekend. Shortly after midnight two homes in Granite Falls had their basement collapse under the pressure of high water levels in the basements. In addition more than 200 homes suffered some structural or water damage due to the resultant flooding.

Meeker County
Litchfield

16 2210CST 0 0 ? ? Flash Flood

Two- to 5-inches of rain in 1 to 3 hours caused the closure of Highway 22 between Litchfield and Eden Valley. Many cars were abandoned as water levels approached 4 feet in some areas. Sections of Highway 22 were closed from 2300 to 0200 CST due to water flowing across the roadway in some areas and broad areas of standing water in low-lying areas.

Martin County
2 W Fairmont

16 2215CST 0 0 3 ? Thunderstorm Winds (G52)

Scattered reports of trees and power lines being downed.

Faribault County
Wells

16 2240CST 0 0 ? ? Thunderstorm Winds

Scattered reports of downed trees.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MINNESOTA Cont'd

Blue Earth County 18 E Fairmont		16 2245CST			0	0	3	?	Thunderstorm Winds
Scattered reports of trees and power lines being downed.									
Marshall County Stephen		18 2000CST			0	0	?	?	Thunderstorm Winds Hail (0.75)
Hail the size of ice cubes did severe damage to small grain crops. Individual farm losses estimated to be 50 to 100%. Several trees also downed by thunderstorm winds in the area. One downed tree had a 4-foot diameter.									
Marshall County 1 W Argyle		18 2015CST			0	0	0	0	Funnel
Lac Qui Parle County Marietta		19 0200CST			0	0	?	0	Lightning
Marietta-Nassan School was destroyed by fire following a lightning strike.									
Rock County 6 E Luverne		19 0230CST			0	0	?	0	Thunderstorm Winds (G61)
Rock County 2 W Beaver Creek		19 0244CST			0	0	?	?	Thunderstorm Winds Hail
Northern one-half of Rock County									Strong wind blew the camper from a pickup truck traveling on Interstate 90. The combination of strong winds and hail destroyed 15 to 20% of the soybean crop. Damage to corn crop less severe.
NW Nobles County NW Rock County		19 0245CST			0	0	?	?	Hail
Hail stones cut a path 1 mile by 5 miles north of Kenneth.									
Pope County Glenwood		19 0430CST			0	0	3	0	Lightning
Lightning caused minor damage to two homes.									
Carver County Watertown		19 0700CST			0	0	2	0	Thunderstorm Winds
Scattered trees downed by thunderstorm winds. County Highway 25 blocked by a downed tree until road crews removed tree.									
Redwood County Wabasso/Lucan/ Morgan		19 1330CST			0	0	0	0	Funnels
Several funnels sighted from 10 miles southwest to south of Redwood Falls.									
Jackson County Jackson		19 1520CST			0	0	3	?	Thunderstorm Winds (G59)
Washington County Woodbury		19 1555CST			0	0	?	?	Hail (1.75)
Houston County 1 W La Creasant		19 1925CST			0	0	?	?	Hail (1.00)
Marshall County 1 W Argyle		19 2015CST			0	0	0	0	Funnel

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

MINNESOTA Cont'd

Washington County 5 E Forest Lake	20	1700CST			0	0	?	?	Hail (0.75) Thunderstorm Winds
Reports of tree downed by strong winds.									
Stevens County Hancock	25	1930CST			0	0	?	?	Thunderstorm Winds (G52)
Scattered tree damage reported throughout the city.									
Southeastern Mower County	25	1730CST			0	0	?	?	Hail (1.75) Golf ball-size hail in a 2- to 3-mile swath from 3 miles north of Leroy south to the Iowa border. Reports of hail drifts 6 to 8 inches in depth. Numerous trees damaged in the Lake Louis State Park and surrounding farms suffered 50 to 100% crop loss due to the effects of hail and wind.
Carlton County 4 N Cromwell 4 SE Cromwell	26	1930CST			0	0	?	0	Hail (1.50)
	26	1930CST			0	0	?	0	Hail (1.00)
An unconfirmed funnel cloud was reported.									
Cloquet	26	2010CST			0	0	?	0	Hail (1.75) A swath of large hail were reported from 5 to 10 miles west of Cloquet.
Waseca County Waseca	27	1120CST			0	0	3	0	Hail (0.75) Thunderstorm Winds (G52)
Hennepin County Corcoran	27	1815CST			0	0	3	0	Lightning House fire resulting from lightning strike.
Rock County Beaver Creek/ Hills/Luverne	27	2100CST- 2300CST			0	0	3	?	Thunderstorm Winds (G77) Numerous trees downed causing power outages and structural damage to homes.
Hennepin County Minnetonka	27	2120CST			0	0	4	0	Lightning House fire resulting from lightning strike. Early loss estimates to exceed \$30,000.
Morrison County Upsala	28	0650CST			0	0	?	?	Hail (0.75)
Stearns County St. Stephen	28	0715CST			0	0	?	5	Hail
Considerable crop damage due to large quantities of one-quarter to one-half- inch-diameter hail.									
4 SE St. Cloud	28	0718CST			0	0	?	?	Hail (0.75)
5 NW St. Cloud	28	0720CST			0	0	?	?	Hail (1.00)
Central Renville County	28	0720CST- 0800CST			0	0	?	?	Thunderstorm Winds (G52) Reports of downed trees and damage to small grain crops.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MINNESOTA Cont'd

Swift County Danvers/ Holloway	28	0735CST			0	0	?	?	Thunderstorm Winds (G52) Trees downed between Danvers and Holloway. Also substantial damage to small grain crops.
Anoka County Elk River	28	0900CST			0	1	2	0	Lightning Lightning struck a porch causing minor damage. A young girl (5 years) leaning against the metal frame of a glass patio door was injured with minor burns to her right hand and forearm. The home sustained some minor damage.
Dakota County Invergrove	28	1930CST			0	0	4	0	Lightning Late 19th Century church steeple struck by lightning causing considerable fire damage.
Big Stone County Ortonville	28	2010CST			0	0	?	?	Thunderstorm Winds (G74) KDIO radio clocked thunderstorm winds at 80 to 85 mph for several minutes as thunderstorm passed. Reports of numerous trees downed and scattered power outages.
Rock County Luverne	28	2222CST			0	0	?	?	Thunderstorm Winds (G52)
Fillmore County 1 W Harmony	28	2230CST			0	0	5	0	Lightning A thunderstorm knocked out power to a 200 amp power main controlling a cattle barn exhaust fan system. Within several hours 50 dairy cattle had perished due to heat stress and a resulting lack of oxygen before the problem was discovered. Losses estimated to exceed \$50,000.
St. Louis County 10 E Bear River	29	1707CST			0	0	?	?	Hail (2.00) Hail 1 to 2 inches in diameter caused considerable personal property damage; dented autos, broken windows, and other home damage in and around Lindon.
Cook	29	1712CST			0	0	?	?	Hail (1.00)
Itasca County 3 SE Alvwood	29	1812CST			0	0	0	0	Funnel
St. Louis County 40 NNE Duluth	29	1832CST			0	0	?	?	Hail (0.75) Thunderstorm Winds (G52) Hail and wind damage near Lake Pequayam.
Itasca County 3 SE Alvwood	29	1850CST			0	0	?	?	Hail (0.75)
St. Louis County Duluth	29	1900CST			0	0	0	0	Funnel
Carlton County Cloquet	29	1855CST- 1905CST			0	0	0	0	Funnel
St. Louis County Duluth	29	1915CST			0	0	?	?	Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MISSISSIPPI

Jones County	01	1045CST-1415CST			0	0	?	0	Flash Flooding
Several roads in Jones County were closed due to high water. Several houses in southwestern Laurel had water up to their door steps.									
Marion County	01	1430CST-1900CST			0	0	0	0	Flash Flooding
Widespread flash flooding occurred across the county. Numerous county roads were flooded.									
Covington County Collins	01	1500CST			1	0	0	0	Lightning
A man was walking through some pine trees. There was a clothesline strung between two pine trees and as he walked under it, lightning struck a pine tree and ran through the line and hit him. He was dead on arrival at the hospital. M650									
Tippah County	03	0148CST			0	0	0	0	Thunderstorm Winds
Several trees were blown down east and west of Walnut along Highway 72.									
Bolivar County 3 E Rosedale	03	0210CST			0	0	3	0	Thunderstorm Winds
Numerous trees and power lines blown down. An airplane was flipped over and destroyed. Damage to the airplane was estimated at \$260,000.									
Smith County 5 S Raleigh	03	1505CST			0	0	3	0	Thunderstorm Winds
Several trees blown down. One big tree hit the roof of a house.									
Smith County 10 NE Taylorsville	03	1535CST			0	0	4	0	Thunderstorm Winds
Several trees blown down. One tree tore up a trailer.									
Wayne County Waynesboro	03	1640CST			0	0	4	0	Thunderstorm Winds
Several trees and power lines blown down. One tree fell on a car. Several businesses had roof damage and windows knocked out.									
George County 5 S Lucedale	03	1800CST			0	0	0	0	Thunderstorm Winds
Several trees blown down along Highway 63.									
Marshall County Holly Springs	09	1545CST			0	0	0	0	Thunderstorm Winds
Several trees were blown down.									
Alcorn County Corinth	09	1545CST			0	0	0	0	Thunderstorm Winds
Several large trees blown down. Also, marble-size hail.									
Lafayette County Oxford	09	1700CST			0	0	0	0	Thunderstorm Winds
A few trees were uprooted in the eastern sections of Oxford.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	POPS	

MISSISSIPPI Cont'd

Itawamba County	09	1725CST			0	0	0	0	Thunderstorm Winds
Trees were downed on power lines just northeast of Fulton, in Fairview, and north of Tremont.									
Tishomingo County 3 NW Iuka	09	1730CST			0	0	0	0	Thunderstorm Winds
Several trees were torn up in the Harmony community on Highway 25 North.									
Jones County PIB	10	1415CST			0	0	?	?	Thunderstorm Winds (G60)
Jones County 2 SW Laurel	10	1430CST			0	0	0	0	Thunderstorm Winds
Three large trees were blown down near Interstate 59.									
Jones County 10 SW Laurel	10	1431CST			0	0	0	0	Thunderstorm Winds
Two large trees were blown down northeast of the Centerville community.									
Pike County McComb	10	1615CST			0	0	0	0	Thunderstorm Winds
One tree was blown down and blocked a major highway in the city of McComb.									
Monroe County Becker	14	1600CST			0	0	4	0	Thunderstorm Winds
Several trees and power lines were blown down. One tree fell on a car.									
Jasper County Rose Hill	15	2220CST			0	0	0	0	Thunderstorm Winds
Several trees and power lines were blown down.									
Noxubee County 10 SE Macon	18	1520CST			0	0	0	0	Hail (1.75) Thunderstorm Winds
Several trees and power lines were blown down.									
Tallahatchie County Webb	18	1525CST			0	0	4	0	Thunderstorm Winds
Several large trees were blown down. Numerous telephone and power poles were blown down. A house was blown 100 feet off its blocks. Several small buildings were damaged.									
Kemper County 2 N DeKalb	18	1550CST			0	0	?	0	Thunderstorm Winds
Several trees were blown down on power lines.									
Sunflower County Drew	18	1605CST			0	0	3	0	Thunderstorm Winds
Several trees and telephone lines were blown down. Shingles were blown off several houses.									
Leflore County Greenwood	18	1620CST			0	0	4	0	Thunderstorm Winds
Numerous trees were blown down. Several houses had roof damage. A couple of windows were blown out of a house and several sheds were damaged.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MISSISSIPPI Cont'd

Monroe County 4 NW Aberdeen	18	1645CST			0	0	4	0	Thunderstorm Winds
A large tree fell on a truck and destroyed it. Two power poles and lines were blown down.									
Itawamba County 7 S Fulton	18	1650CST			0	0	?	0	Thunderstorm Winds
Several trees, power poles, and lines were blown down.									
Clay County 3 N West Point	18	1705CST			0	0	?	0	Thunderstorm Winds
Several power poles and lines were blown down. Four-hundred to 500 customers were without power.									
Neshoba County Philadelphia	18	1715CST			0	0	3	0	Thunderstorm Winds
Several trees were blown down in Philadelphia and the roof of a house was damaged 1 mile north of Philadelphia.									
Jones County 10 W, 11 N, and 12 E Laurel	18	1800CST			0	0	0	0	Thunderstorm Winds
Several trees were blown down at each location.									
Simpson County 3 S and 5 W Magee	18	1830CST			0	0	?	0	Thunderstorm Winds
Several trees were blown down on highways.									
Marion County Columbia	18	1915CST			0	0	3	0	Thunderstorm Winds (G42)
Several trees and power lines were blown down. One tree fell on a car.									
Tallahatchie County Cascilla	21	1230CST			0	0	0	0	Hail (1.00)
Carroll County Centerville	21	0035CST			0	0	0	0	Thunderstorm Winds
A couple of large trees were blown down and also marble-size hail was reported with the storm.									
Madison County Flora	21	1445CST			0	0	0	0	Hail (1.75)
In addition to golf ball-size hail in Flora a tree was also blown down.									
Noxubee County 2 SW Shuqualak	21	1500CST			0	0	0	0	Hail (0.75)
Panola County 1 W Batesville	21	1505CST			0	0	4	0	Thunderstorm Winds
High winds caused damage to several roofs, damaged a mobile home, and blew down several large trees.									
Panola County 6 W Batesville	21	1505CST			0	0	3	0	Hail (1.00) Thunderstorm Winds
A roof of one house was damaged. A few trees and limbs were blown down.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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MISSISSIPPI Cont'd

Lowndes County
Columbus 21 1630CST 0 0 ? 0 Hail (1.75)

Several large trees uprooted on the northside of Columbus.

Lowndes County
Columbus 21 1649CST 0 0 4 0 Hail (1.75)
Thunderstorm Winds

Golf ball-size hail caused minor roof damage to Leigh Mall in Columbus. Also, high wind uprooted several large trees and caused minor roof damage to a home 3 miles north-northeast of Golden Triangle Airport near Columbus.

DeSoto County 22 1330CST 0 0 0 0 Thunderstorm Winds

Winds blew a few trees down between Horn Lake and Nesbit, along Highway 51.

Calhoun County
5 SW Calhoun City 22 1340CST 0 0 0 0 Hail (0.75)

A tree was also blown down across Highway 8.

Lafayette County
Oxford 22 1515CST 0 0 0 0 Hail (0.75)

Hinds County
Utica 22 1830CST 0 0 0 0 Thunderstorm Winds

Several trees were blown down.

MISSOURI

De Kalb County
Stewartsville 02 UNKN 1 0 1 0 Thunderstorm Wind

According to a local paper, an 82-year-old woman was killed when she was struck by a large limb blown from a tree.

Saline County
Miami 05 1210CST 0 0 0 0 Hail (0.75)

Ray County
Lawson 06 0334CST 0 0 4 0 Hail (1.75)
Flooding

Cooper County
Boonville 06 0645CST 0 0 0 0 Hail (0.75)

Boone County
Rocheport 06 0645CST 0 0 0 0 Hail (1.75)

Platte County
Platte City 06 0730CST 0 0 0 0 Thunderstorm Wind

Thunderstorm wind gusts to 52 knots.

Platte County
MCI 06 0732CST 0 0 0 0 Thunderstorm Wind

Wind gusts to 58 knots.

Jackson County
Kansas City 06 0802CST 0 0 3 0 Thunderstorm Wind

Wind gusts to 50 knots with some power lines downed in Kansas City.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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MISSOURI Cont'd

Ray County
Lawson 06 0803CST 0 0 3 0 **Thunderstorm Wind**

Wind gusts to 50 knots with some power lines downed.

Jackson County
Blue Springs 06 0810CST 0 0 4 0 **Thunderstorm Wind
Flooding**

Winds downed trees and power lines. Flooding also was reported.

St. Charles County
Lincoln County 06 1210CST 0 0 0 0 **Flash Flooding**

Water reported over Highway 61 just north of Highway W on the St. Charles-Lincoln County Line.

**Franklin,
Jefferson,
Lincoln,
St. Charles,
St. Louis
Counties** 06 1430CST 0 0 5 0 **Flash Flooding**

Heavy rains from overnight and today produced widespread flash flooding. A radio station in Festus had measured 4.72 inches of rain during the morning.

Nodaway County
6 E Maryville 07 0800CST 0 0 5 0 **Thunderstorm Wind**

Thunderstorm downburst took a roof off a barn and downed trees and light poles in a one-quarter-mile area.

Clay County
Excelsior Springs 07 1201CST 0 0 0 0 **Hail (1.75)**

Moniteau County
Tipton 07 1225CST 0 0 4 0 **Hail (0.75)**

Moniteau County
Clarksburg 07 1245CST 0 0 4 0 **Hail (0.75)**

Moniteau County
Jamestown 07 1310CST 0 0 4 0 **Thunderstorm Wind**

Winds to 80 mph.

Miller County
Eldon 07 1315CST 0.25 50 0 0 5 0 **Tornado (F1)**

A tornado touched down briefly and produced damage, including blowing off a motel roof.

Cole County
Eugene 07 1322CST 0 0 0 0 **Hail (1.25)**

Crawford County
Jake Prairie 07 1449CST 0.25 50 0 0 2 0 **Tornado (F1)**

A tornado touched down briefly and produced minor damage.

Franklin County
Buford 07 1500CST 0 0 0 0 **Thunderstorm Wind**

Winds to 70 mph.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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MISSOURI Cont'd

St. Louis County Chesterfield	07	1605CST			0	0	6	0	Thunderstorm Wind
A micro-downburst produced considerable damage in the immediate area of the Spirit of St. Louis Airport. A roof was torn off a business building and several planes were damaged. A shed was flattened and trees and wires were downed.									
Cole County SE of Jefferson City	07	UNKN			1	0	0	0	Flash Flooding
A 65-year-old man drowned when his car was swept off the road in the Moreau River. His body wasn't found for several days after the event									
St. Charles County St. Charles	07	1513CST			0	0	0	0	Hail (0.75)
Hail to three-quarter-inch diameter reported by St. Charles Amateur Radio Club.									
St. Louis County Creve Coer	07	1530CST			0	0	4	0	Thunderstorm Wind
Large trees snapped off about 8 feet above the ground.									
Boone County Sturgeon	07	1740CST			0	0	0	0	Hail (1.25)
Boone County Centralia	07	1801CST			0	0	3	0	Hail (1.75)
Boone County Midway	07	1820CST			0	0	3	0	Hail (1.75)
Morgan County Fortuna	07	1940CST	0.25	50	0	0	0	0	Tornado (F1)
The sheriff reported a tornado touching down briefly. No damage was reported.									
Morgan County Syracuse	07	1940CST			0	0	0	0	Hail (1.75)
Morgan County Versailles	07	1948CST			0	0	0	0	Thunderstorm Wind
Winds to 60 mph.									
Moniteau County 2 N. High Point	07	1950CST	0.25	50	0	0	0	0	Tornado (F1)
Police and spotters reported a tornado touching down briefly but no damage reported.									
Moniteau County 2 S. High Point	07	2010CST	0.25	50	0	0	4	0	Tornado (F1)
Probable brief tornado touchdown.									
Moniteau County 2 S. High Point	07	2020CST	0.50	75	0	0	7	0	Tornado (F2)
A tornado totally destroyed two houses and produced extensive damage to five other houses. One home received minor damage. Numerous trees and lines were downed. This tornado seen by police.									

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MISSOURI Cont'd

Miller County Olean	07	2025CST	0.25	50	0	0	0	0	Tornado (F1)
A tornado was reported to touch down briefly. No damage.									
Miller County Eldon	07	2036CST	0.25	50	0	0	0	0	Tornado (F1)
A tornado touched down briefly.									
Clay County Excelsior Springs	08	1201CST			0	0	3	0	Hail (1.75)
Pettis County Sedalia	08	1343CST			0	0	2	0	Thunderstorm Wind
Winds measured at 70 mph by police instruments.									
Saline County 5 NE Marshall	08	1610CST			0	0	3	0	Hail (1.75)
Pulaski County Dixon	08	1630CST			0	0	4	0	Hail (2.00) Thunderstorm Wind Heavy Rain
Hail to two-inch-diameter was accompanied by strong winds which broke tree limbs. Two and one-half inches of rain fell within 45 minutes.									
Cass County Raymore	08	1744CST			0	0	3	0	Hail (1.75)
Cass County Pleasant Hill	08	1748CST			0	0	3	0	Hail (2.00)
Clay County Smithville	08	1805CST			0	0	3	0	Hail (1.75)
Clay County Kearny	08	1823CST			0	0	3	0	Hail (1.75)
Clay County Excelsior Springs	08	1830CST			0	0	3	0	Hail (1.75)
Clay County Mosby	08	1830CST			0	0	3	0	Hail (1.75)
Clay County Excelsior Springs	08	1833CST			0	0	3	0	Hail (1.75)
Benton County 3 W. Cole Camp	08	1850CST			0	0	4	0	Hail (1.75)
Boone County Columbia	08	1931CST			0	0	3	0	Thunderstorm Wind
Wind gusts to 64 mph measured at the National Weather Service Office.									
Johnson County Windsor	08	2035CST	0.25	50	0	0	0	0	Tornado (F1)
A tornado touched down briefly.									
Boone County Columbia	11	2338CST			0	0	0	0	Thunderstorm Wind
Winds to 58 mph at the National Weather Service Office.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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MISSOURI Cont'd

Johnson County Warrensburg	14	0710CST			0	0	4	0	Flash Flooding Cars swept off roads during widespread flooding and flash flooding.
Johnson County Warrensburg	14	0820CST			0	0	4	0	Flash Flooding Water to 1-foot depth on downtown streets.
Morgan County Gravois Mills	15	1325CST			0	0	4	0	Thunderstorm Wind Large trees blown down.
Miller County Elson	15	1330CST			0	0	4	0	Thunderstorm Wind Winds to 90 mph reported.
Platte County MCI	18	2137CST			0	0	0	0	Thunderstorm Wind Wind gusts at the National Weather Service Office to 59 mph.
Clay County Kearney	18	2155CST			0	0	0	0	Thunderstorm Wind Wind gusts to 60 mph.
Clay County Excelsior Spring	18	2200CST			0	0	5	0	Thunderstorm Wind Winds destroyed a barn and damaged some roofs.
Clay County Mosby	18	2200CST			0	0	5	0	Thunderstorm Wind Winds downed power lines and trees. A barn was destroyed.
Christian County Nixa	19	0310CST			0	0	4	0	Thunderstorm Wind Wind damage.
Taney County Ozark Beach	19	0600CST			0	0	4	0	Thunderstorm Wind Wind damage.
Vernon County Nevada	21	1630CST			0	0	0	0	Hail (0.75)
Stone County Cape Fear	21	1842CST			0	0	2	0	Thunderstorm Wind Power lines were downed.
Taney County Branson	21	1855CST			0	0	3	0	Thunderstorm Wind Trees and power lines down.

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MISSOURI Cont'd

Ralls County	22	1825CST			0	0	4	0	Thunderstorm Wind Winds to 60 mph downed tree limbs and power lines in several locations.
Pike County Center	22	1830CST			0	0	3	0	Thunderstorm Wind Winds to 60 mph.
Pike County Bowling Green	22	1843CST			0	0	3	0	Thunderstorm Wind Winds greater than 60 mph downed trees and large limbs south of Bowling Green.
Lincoln County	22	1925CST			0	0	5	0	Thunderstorm Wind Many trees and limbs downed in eastern portion of the county. The Lincoln County Deputy Sheriff described the winds as hellacious. The spotters estimated the winds at 60 to 75 mph.
St. Charles County	22	1935CST			0	0	4	0	Thunderstorm Wind The wind gusted to 50 mph at the National Weather Service Office in St. Peter. Winds blew boards off a fence at a softball field in Ofallon and blew limbs off trees north of St. Peters.
St. Louis County Lambert Field	22	1950CST			0	0	0	0	Thunderstorm Wind Winds were measured at 60 mph.
St. Louis County	22	2005CST			0	0	5	0	Thunderstorm Wind Winds estimated at 70 mph downed trees and power lines in west portions of the county.
St. Louis County	22	2013CST			0	0	4	0	Thunderstorm Wind A number of trees downed in northern portion of St. Louis County.
St. Louis City	22	2015CST			0	0	4	0	Thunderstorm Wind Wind damaged a home on North Grand in the northern portion of the city.
Pettis County Sedalia	25	0936CST			0	0	3	0	Hail (1.75)
Benton County 3 E. Warsaw	28	1900CST			0	0	4	0	Thunderstorm Wind Large trees were uprooted and power lines downed.

MONTANA

MTZ003	04	0800MDT-2000MDT			0	0	0	0	High Winds (G66) Choteau reported wind gusts to 76 mph and Cut Bank 64 mph.
Phillips County Whitewater	10	1000MDT			0	0	5	5	Hail (1.25) Cars dented, windows broken, trees down.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MONTANA Cont'd

Rosebud County Forsyth	10	1800MDT (eve)			0	0	5	5	Thunderstorm Wind
Roof damage to county shops. Airplane destroyed at Tillitt Airfield. One inch of rain in a short period of time.									
MTZ003	11	1450MDT- 2300MDT			0	0	0	0	High Winds (G56)
Cut Bank reported wind gusts to 64 mph.									
MTZ001, 003	12 13	2200MDT 0600MDT			0	0	3	0	Heavy Snow
Six to ten inches of snow fell at Logan Pass on the Going to the Sun Highway. Delayed opening of highway.									
MTZ004	14	0800MDT 1600MDT			0	0	0	0	Heavy Snow
Five inches of snow on the ground at Lima by afternoon. One inch at Elkhorn, Hot Springs, and Grant.									
Richland County Near Enid Near Fairview	25 25	2100MDT 2130MDT			0 0	0 0	0 0	0 0	Hail (0.75) Hail (0.75)
Yellowstone County Billings	25	2000MDT			0	0	5	3	Lightning
A fierce electrical storm caused damage to power poles, trees, and buildings. Several buildings set on fire. Very heavy rain over city.									
Roosevelt County Froid	26	1700MDT			0	0	4	5	Thunderstorm Wind (G57)
Trees down and several buildings damaged.									
Sheridan County Plentywood	26	1830MDT			0	0	5	5	Thunderstorm Wind (G52) Hail (0.75)
Uprooted trees and downed power lines.									
Sheridan County Westby	26	1900MDT			0	0	5	5	Thunderstorm Wind Hail (0.75)
Severe damage to the town. Buildings down and many roofs blown off. Damage to Court House and grain elevators.									
Medicine Lake	26	1900MDT			0	0	4	5	Thunderstorm Wind (G60) Hail (0.75)
Lots of hail damage around Medicine Lake.									
Musselshell County Roundup	27	1906MDT			0	0	5	5	Urban Flooding Hail (2.00)
Lots of damage on east side of Highway 87 in and north of city. One to 3 inches of rain fell causing urban flooding.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MONTANA Cont'd

Valley County Nashua	27	1925MDT				0	0	0	0	Hail (0.75)
Roosevelt County Poplar	27	1925MDT				0	0	5	5	Hail (0.25) Urban Flooding
Power lines and trees were downed. Lots of hail damage in and around Poplar. One and fifteen hundredths inches of rain fell in 30 minutes causing urban flooding.										
Garfield County 10 North of Rock Springs	27	2000MDT				0	0	4	4	Thunderstorm Wind
Grain bins were blown apart.										
Jordan	27	2000MDT				0	0	4	4	Thunderstorm Winds
Winds blew limbs off trees and did roof damage.										
Richland County 6 South Brockton	27	2000MDT		?	?	0	0	0	0	Tornado (F0)
A tornado touched down briefly.										
Rosebud County Forsyth	27	2105MDT				0	0	4	5	Thunderstorm Winds
Trees were downed and very heavy rainfall.										
Custer County Miles City	27	2330MDT				0	0	3	4	Thunderstorm Winds (G60)
Prairie County 15 East Fallon	27	2300MDT				0	0	5	5	Thunderstorm Winds (G60)
Trees down and damage to buildings. Lots of crop damage.										
Terry	27	2300MDT				0	0	5	5	Thunderstorm Winds
Airplane destroyed at Terry Airport. Lots of crop damage.										
Wibaux County Wibaux	27	2300MDT				0	0	4	5	Thunderstorm Winds
Lots of crop damage										
Dawson County Glendive	27	2318MDT				0	0	5	5	Thunderstorm Winds Urban Flooding
Two and thirty-six hundredths inches of rain fell at Glendive. Underpasses and basements flooded. Damage to automobiles and buildings.										
Richland County Between Sidney and Fairview	27	2330MDT				0	0	5	5	Thunderstorm Winds Hail (1.00)
Extensive crop damage and damage to farm homes and vehicles.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

MONTANA Cont'd

Blaine County Harlem	28	1230MDT				0	0	5	5	Thunderstorm Winds
Extensive crop damage and damage to trees and power lines.										
Cascade County Simms	28	1400MDT				0	0	0	0	Hail (0.75)
Valley County 25 Northwest of Wolf Point	28	1705MDT				0	0	4	5	Hail (1.25)
There was extensive crop damage.										
Culbertson	28	2200MDT				0	0	5	5	Thunderstorm Winds
Lots of crop damage with trees downed and windows broken. Small hail.										
Blaine County Harlem	30	2000MDT				0	0	4	5	Thunderstorm Winds
Lots of crop damage due to heavy rain and small hail.										

NEBRASKA

Sheridan County 4 E Gordon	01	1400CST- 1530CST				0	0	?	?	Hail (1.75)
Box Butte County 16 N Alliance	01	1657CST				0	0	?	?	Hail (0.75)
25 N Alliance	01	1707CST				0	0	?	?	Hail (1.75)
8 N 13 E Alliance	01	1730CST				0	0	?	?	Hail (1.75)
Keigh County 4 S Brule	01	1815CST				0	0	0	0	Hail (1.75)
Marble- to golf ball-size hail fell in a field with no apparent damage.										
Box Butte County 3 SE Alliance	01	1817CST				0	0	?	?	Hail (0.75)
5 E Alliance	01	1828CST				0	0	?	?	Hail (1.75)
Chase County 7 N Imperial to 15 NE Imperial	01	1830CST- 1845CST	15	50-100		0	0	7	4	Torando (F2)
A tornado damaged or destroyed rural farm houses, mobile homes, grain bins, farm buildings, and up to 150 irrigation systems. Damage to corn was extensive and fields had to be replanted. Wheat and hay fields were damaged. Twenty-five to 50 power poles were knocked down and trees were uprooted. The tornado lifted up and down as it moved east at 25 mph.										
Morrill County 4 E Bayard	01	1846CST				0	0	2	3	Hail (1.75)
Custer County 12 SW Broken Bow to 9 NE Sargent	01	1902CST- 1951CST	25	25-50		0	0	5	2	Tornado (F3)
4 E Gates to Sargent		1943CST				0	0	?	?	Hail (2.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

A tornado was up and down as it moved north-northeast at 30 mph. Houses on the east edge of Merna were damaged and five farm houses were destroyed. Irrigation center pivots were damaged, grain bins were destroyed, and power lines were knocked down. Baseball-size hail fell in advance of the tornado.

Perkins County
3 S Grant 01 2012CST-2014CST 0.5 25 0 0 2 1 Tornado (F1)

A tornado tore up power lines and left the town of Grant without power for a few hours. It moved northeast at 30 mph.

Loup County
4 NW Taylor 01 2015CST 0.5 50 0 0 4 0 Tornado (F0)

A tornado caused extensive damage to a house.

Dawson County
Gothenburg 01 2030CST 0 0 3 0 Thunderstorm Wind (G70)

Thunderstorm winds of 80 mph uprooted trees and damaged power lines in the south part of town.

Deuel County
Big Springs 01 2040CST 0 0 4 4 Thunderstorm Wind (G52)

Wind gusts estimated at 60 mph blew the roof off a motel and damaged a sign.

Dawson County
5 N Cozad 01 2050CST 0 0 0 0 Funnel Clouds

Two funnel clouds were sighted.

Lincoln County
Wallace 01 2105CST 0 0 4 3 Hail (1.75)

Golf ball-size hail fell in Wallace and damaged roofs, siding, windows, and crops. A wind gust of 50 mph blew a fire truck off the road.

5 S Dickens 01 2110CST 0 0 5 2 Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 mph destroyed a grain bin and six center pivot irrigation systems.

Hitchcock County
Stratton 01 2130CST-2133CST 0.1-0.5 25-50 0 0 3 0 Tornado (F1)
Stratton 01 2130CST 0 0 ? ? Hail (4.50)

A tornado touched down in the northwestern part of Stratton and damaged buildings and uprooted trees in the city park. Golf ball- to occasional softball-size hail fell in the Stratton area but no damage was reported.

Lincoln County
North Platte 01 2130CST 0 0 1 0 Thunderstorm Wind (G51)

Thunderstorm winds of 59 mph were recorded at the North Platte Airport and caused some tree damage.

Dawson County
5 SW Lexington 01 2225CST 0 0 4 0 Thunderstorm Wind (G70)
Lexington 01 2230CST 0 0 4 0 Thunderstorm Wind (G78)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Sarpy County La Vista	05	0645CST			0	0	2	1	Hail (0.75)
Harlan County Alma	06	0140CST			0	0	3	0	Hail (1.75)
Douglas County 5 S Elkhorn	07	0822CST			0	0	3	2	Hail (1.75)
Hall County Grand Island	07	0830CST			0	0	2	0	Lightning

Lightning struck a power line close to a house causing items to fly off the shelves and fuses to blow out.

Douglas County Omaha 4 SW OMA	07	0900CST			0	0	2	1	Hail (0.75)
Omaha 15 SW OMA	07	0907CST			0	0	0	0	Funnel Cloud
Omaha 4 WNW OMA	07	0907CST			0	0	0	0	Funnel Cloud

Three-quarter-inch hail was reported near 36th and Charles. Funnel clouds were reported near 168th and Gold and 42nd and Curtis.

Sarpy County Bellevue	07	0917CST			0	0	3	1	Thunderstorm Wind
5 NW Papillion	07	0920CST			0	0	0	0	Funnel Cloud
Papillion	07	0921CST			0	0	2	1	Hail (0.75)

Thunderstorm winds broke tree limbs and downed wires in Bellevue.

Washington County 1 W Blair	07	0925CST			0	0	0	0	Funnel Cloud
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Douglas County Omaha 14 SW OMA	08	0740CST			0	0	4	2	Hail (1.75)
Omaha 13 WSW OMA	08	0743CST			0	0	3	1	Hail (1.75)
Omaha 9 SW OMA	08	0810CST			0	0	3	1	Hail (1.50)
Omaha 10 SW OMA	08	0823CST			0	0	0	0	Funnel Cloud

Golf ball-size hail was reported at 142nd and Center. Three-quarter-inch-hail fell near 149th and Cuming. Walnut-size hail was reported at 95th and Dodge.

Platte County 2 SW Columbus	08	1810CST			0	0	0	0	Hail (1.00)
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Merrick County Chapman	10	1215CST			1	0	0	0	Lightning
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Lightning struck a 38-year-old male riding a tractor one-quarter mile south of Chapman. He was pronounced dead from cardiac arrest at 1:318 pm CST. (M38V).

Harlan County Wilcox	12	1751CST			0	0	3	0	Hail (1.75)
Kearney County 5 S Axtell to 5 N Minden	12	1804CST	12	100	0	0	4	0	Tornado (F1)

A tornado touched down in southwestern Kearney County and moved northeast. A grain bin was thrown into a field 3 miles north of Minden.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

NEBRASKA Cont'd

Kearney County Lowell

12	1815CST				0	0	3	3	Hail (2.75)
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Baseball-size hail stripped trees and damaged corn fields.

Buffalo County

4 S Gibbon	12 1821CST				0	0	3	0	Hail (1.75)
4 S Gibbon	12 1827CST				0	0	3	0	Hail (2.00)
Gibbon	12 1827CST				0	0	4	0	Thunderstorm Wind (G52)
Gibbon	12 1830CST				0	9	6	0	Hail (6.00)
Shelton	12 1835CST				0	0	3	3	Hail (2.75)

Thunderstorm winds gusting to 60 mph damaged trees and a grain elevator in Gibbon. Very large hail up to six inches in diameter, damaged 90% of the 475 houses in Gibbon. The houses had broken windows and roof damage. Most vehicles had broken windshields and dented roofs. One auto dealer had extensive damage to all 45 cars on the lot. Nebraska Civil Defense officials estimated damage would exceed \$1 million. Tennis- to baseball-size hail damaged houses and crops in Shelton.

Hall County

3 W 5 N Wood River	12 1840CST				0	0	3	3	Hail(2.50)
2 S Cairo	12 1845CST				0	0	3	0	Hail (1.75)
Cairo	12 1850CST				0	0	3	0	Hail (1.50)

Tennis ball-size hail damaged car windshields and crops.

Howard County

2 W Palmer	12 1910CST				0	0	0	0	Funnel Cloud
2.5 SE St. Paul	12 1915CST				0	0	3	0	Hail (1.75)

Nance County

Belgrade	12 1949CST				0	0	3	0	Hail (1.50)
Belgrade	12 1949CST	2	50		0	0	4	0	Tornado (F1)

A tornado touched down in Belgrade and moved northeast 2 miles before lifting. Some trees and power lines were destroyed.

Platte County

4 WSW Lindsey	12 1958CST				0	0	0	0	Hail (1.75)
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Howard County

Farwell to 1 W Farwell	12 2000CST				0	0	4	0	Hail (1.50)
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Walnut-size hail damaged vehicles and stripped leaves from trees.

Sherman County

2 N Elba	12 2037CST				0	0	2	0	Hail (1.75)
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Dawson County

3 N Sumner	12 2038CST	0.50	30		0	0	0	0	Tornado (F0)
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A tornado briefly touched down with no apparent damage.

Buffalo County Miller

12	2050CST				0	0	3	0	Thunderstorm Wind (G61)
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Thunderstorm winds gusting to 70 mph caused tree damage.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Merrick County
2 W Clarks to
3 NE Clarks

12 2230CST 5 100 0 0 4 0 Tornado (F1)

A tornado touched down in northeastern Merrick County and tore roofs off houses and damaged trees. It moved northeast and lifted in extreme northeastern Merrick County.

Note on crop damage in Buffalo and Merrick Counties on June 12th.

An estimated 44,000 acres of farmland were damaged in Buffalo County. Damage to corn, soybeans, and wheat from hail and wind totaled about \$2.6 million. Losses included corn \$2.3 million; soybeans \$150 thousand; and wheat \$120 thousand. An estimated 40 farm houses and outbuildings sustained \$160 thousand in total losses. Merrick County had 32,000 acres of corn pounded down, sustaining 25 to 28% damage. Ten sections of farmland near the Howard-Merrick County line were 75 to 80% damaged.

Colfax County
Leigh

12 2235CST 0 0 0 0 Hail (0.75)

Platte County
8 N Columbus

12 2240CST 0.1 20 0 0 45 0 Tornado (F0)

Garage destroyed.

Burt County
Tekamah

12 2352CST 0 0 3 1 Thunderstorm Wind

Thunderstorm winds broke tree limbs.

Platte and Colfax Counties

12 Late Evening to
13 Early Morning 0 0 0 0 Flash Flood

One to 3 inches of rainfall caused minor lowland flooding near Monroe in Platte County where a one-quarter- to one-half-mile stretch of Highway 22 was flooded apparently from nearby drainage ditches and Shell Creek briefly flooded at Platte Center in Platte County. A tributary of Maple Creek in northern Colfax County flooded Old Highway 91 near Howells.

Dodge County
5 N Fremont
5 NW Scribner

13 0000CST 0 0 2 1 Thunderstorm Wind
13 0030CST 0 0 4 3 Flash Flood

Thunderstorm winds broke tree limbs. Two to 3 inches of rain in a short period of time caused flash flooding along Pebble Creek which swept two vehicles off a road.

Johnson County
Sterling

13 2021CST 0 0 0 0 Funnel Clouds

Holt County

14 1842CST 0 0 0 0 Hail (1.75)

6 S Ewing

Antelope County

14 1845CST 0 0 0 0 Hail (1.75)

6 W Clearwater

14 1905CST 0 0 0 0 Hail (1.75)

Clearwater

Jefferson County

14 1912CST 0 0 ? ? Hail (2.50)

8 N Fairbury

Antelope County

14 1935CST 0 0 0 0 Hail (0.75)

Neligh

14 1956CST 0 0 0 0 Hail (1.75)

Oakdale

Madison County

14 2100CST 0 0 0 0 Thunderstorm Wind (G56)

3 W Norfolk

Tree limbs downed west of city.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Platte County Lindsey	14 2240CST								Flash Flood
Four to 5 inches of rain fell over Platte County during the evening. A wall of water rushed across a parking lot at Lindsey Manufacturing Company washing 18 cars into nearby Dry Creek.									
Dodge County	14 2310CST- 15 0300CST								Flash Flood
Heavy rains generated flash flooding. Numerous roads were covered by water; especially between Dodge and Scribner including the intersection of Highways 91 and 275. Crops were damaged and bridges washed out. Pebble and Maple Creek were forced out of banks.									
Burt County	14 2330CST- 15 0300CST								Flash Flood
Heavy rains created flash flooding. Around 4 inches of rain was reported 2 miles south of Tekamah. Roadways were flooded including Highway 32 between Oakland and Craig where a number of vehicles stalled in high water. Bell and Logan Creek were pushed out of banks. Crops were damaged and farm terraces washed out. Much of the damage was concentrated to the west and south of Tekamah.									
Dodge County Hooper	15 0000CST								Thunderstorm Wind
Thunderstorm winds blew down tree limbs.									
Washington County	15 0000CST- 0300CST								Flash Flood
Heavy rains caused flash flooding which damaged crops and caused erosion.									
Platte County Platte Center	15 0500CST								Flash Flood
Shell Creek flooded. Three- to four-feet of water in the business district. One third of the homes and businesses in town flooded. Railroad washed out west of town and several propane tanks washed into town.									
Madison County Madison	15 Early day								Flash Flood
Heavy rains the nights of the 14th and again the 15th swelled the Union and Taylor Creeks south of Madison causing them to overflow their banks early the 15th on the east and north end of town where the two creeks join. The creek depth rose to 18 feet, the highest since records were first kept in 1978.									
Howard County 6 W to 4 E Dannebrog	15 0140CST								Hail (0.75)
Fillmore County Exeter	15 0530CST								Lightning
Lightning struck a two-story house sparking a fire which destroyed it. A resident of the house cut his arm when he jumped from an upstairs window to escape the flames.									
Gage County 15 SE Beatrice	15 0600CST								Flash Flood
Culverts and roads were damaged after runoff from heavy rain. Damage was estimated at \$6,000.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Scotts Bluff County

10 S Stegall 15 1717CST 0 0 ? ? Hail (1.75)

Perkins County

7 S Verango 15 1720CST Short 25 0 0 0 0 Tornado (F0)

Grant 15 1725CST 0 0 2 0 Hail (1.00)

A tornado briefly touched down but caused no damage. One inch-hail in Grant broke windows, dented cars, broke small tree limbs, and stripped off leaves.

Kimball County

18 W Kimball 15 1749CST 0 0 ? ? Hail (2.00)

Hitchcock County

Red Willow County 15 1800CST-

NW Statton to 5 NE McCook 1845CST 28 1-1.5 0 1 6 6 Tornado (F4)

4 NNE McCook 15 1840CST 0 0 ? ? Hail (1.00)

A multi-vortex (three separate tornadoes from the same cloud) tornado touched down on the northwestern edge of Stratton. They merged near Macklin Bay on Swanson Lake. The tornado moved east-northeast at 25 to 30 mph. It lifted about 5 miles northeast of McCook. Thirty-five rural houses were damaged or destroyed in Hitchcock County along with numerous outbuildings, vehicles, trees, and power poles. Damage was estimated over \$632,000. All communication with Hitchcock County was lost for about 4 hours and all highways into the county were closed to aid clean-up efforts. The only injury was a shoulder injury to an elderly woman on a farm. Crop damage in Hitchcock county: \$600,000 to wheat; \$500,000 to corn; \$115,000 to milo; \$25,000 to pasture land for an estimated total of \$1,240,000. Red Willow County had four farm houses and outbuildings, four mobile homes, and major high voltage power lines damaged or destroyed. Apparently the tornado picked up water from Swanson Lake as dried mud 1 to 2 inches thick caked the southwest sides of the buildings, trees, and poles that were left standing in central Hitchcock County.

Lincoln County

Wallace 15 1808CST 0 0 2 2 Hail (1.75)

Golf ball-size hail fell and broke windows, dented cars, broke small tree limbs and stripped leaves from trees. Minor crop damage also occurred.

Morrill County

Bridgeport 15 1835CST 0 0 ? ? Hail (1.75)

Lancaster County

Lincoln 15 1845CST 0 0 3 0 Lightning

Lightning struck two houses with estimated damage at \$4,000.

Lincoln County

Maxwell 15 1915CST 0 0 2 0 Hail (0.75)

Three-quarter-inch hail fell from a thunderstorm and dented a few cars and broke some windows.

Gage County

3 N Beatrice 15 1935CST 0 0 0 0 Funnel Clouds

Madison, Boone, Platte, Stanton, Colfax, Cuming, Dodge Counties 15-16 0 0 7 6 Flood

An additional 4 to 5 inches of rain fell on the 15th, bringing the already rain-swollen streams out of their banks. Union, Taylor, Shell, Maple, and Pebble Creeks, and many smaller tributaries were flooded. Many county and state roads and highways were closed due to flooding. Among them was U.S. Highway 81 between Columbus and the Platte Center junction. Bridge damage occurred where the highway crossed Shell Creek. Flood waters from Shell Creek reached Schuyler and Rogers in southeastern Colfax County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Gosper County
35 NE McCook

15 2004CST 0.75 30 0 0 0 0 Tornado (F0)

Two tornadoes briefly touched down in Gallagher Canyon before lifting. There was no apparent damage.

Thayer County
2.5 N to
5 NE Hubbell

15 2005CST 10 200 0 0 4 0 Tornado (F1)

A tornado touched down in southeastern Thayer County and moved northeast before lifting. Twisted trees, downed fences, and damaged outbuildings were sighted along the path of the twister. Considerable damage was done to a hog operation and the roof of a house was damaged.

Thayer County
Byron

15 2010CST 0 0 5 0 Thunderstorm Wind (G70)

Thunderstorm winds gusting to 80 mph toppled two large grain bins, which knocked out electrical power for nearly four hours. The winds also caused considerable damage to trees.

Buffalo County
1 N Elm Creek

15 2045CST 0 0 0 0 Funnel Cloud

Buffalo County
2 NW Pleasanton

15 2055CST 1 60 0 0 4 0 Tornado (F1)

A tornado briefly touched down on a farm before lifting. It destroyed two hog sheds and sucked shingles off a garage.

Sherman County
5 N Rockville
Rockville

15 2100CST 0.50 30 0 0 0 0 Tornado (F0)
15 2100CST 0 0 3 0 Thunderstorm Wind (G70)

A tornado briefly touched down but caused no apparent damage. Thunderstorm winds of 60 to 80 mph knocked power out and damaged trees.

Dawes County
13 S Chadron

16 0647CST 0 0 ? ? Hail (1.75)

Knox County
Crofton

16 1520CST 0 0 0 0 Hail (1.00)

Furnas County
5 SW Beaver City

16 1520CST 0 0 0 0 Funnel Cloud

Holt County
15 N O'Neill
4 W O'Neill

16 1540CST 0.2 25 0 0 5 0 Tornado (F0)
16 1600CST 0.1 25 0 0 5 0 Tornado (F0)

Farm buildings destroyed.

Harlan County
Alma to
Republican City

16 1600CST 0 0 5 4 Hail (4.00)

Large hail caused numerous broken windshields, dented cars, and broken windows in houses. Holes up to 4 inches deep in yards held hailstones for several hours after the storm. Corn leaves were stripped by the hail.

Harlan County
2 NE Alma

16 1610CST 0.75 40 0 0 0 0 Tornado (F0)

A tornado briefly touched down with no apparent damage.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEBRASKA Cont'd

Harlan County
5 SW Alma to
2 E Harlan County
Dam

16 1615CST 15 100 0 0 4 0 Tornado (F1)

A tornado touched down and moved east. Twenty minutes later it was over the Harlan County Lake. On the lake, the tornado spawned two more tornadoes. The three tornadoes sucked up water; caused waves 6- to 8-foot-tall; and threw tree limbs, mud, and sand. One boat was thrown onto the rock face of the dam. Another boat and boat trailer were lifted by one of the tornadoes and thrown into a ditch near the lake. The tornadoes jumped the dam and damaged some trees east of the dam before lifting.

Sherman County
Loup City

16 1620CST 0 0 3 0 Thunderstorm Wind (G52)

Thunderstorm winds gusting to 60 mph knocked trees down.

Harlan County
1 N Naponee

16 1625CST 2 50 0 0 3 0 Tornado (F1)

A tornado touched down and destroyed several trees. It moved east and lifted without further damage.

Sherman County
8 SW Scotia to
4 SW Scotia

16 1630CST 4 50 0 0 4 0 Tornado (F1)

A tornado touched down in extreme northeastern Sherman County and moved northeast before lifting. A barn was lifted off its foundation and several trees were damaged.

Franklin County
Bloomington

16 1635CST 0 0 4 0 Hail (1.75)

Golf ball-size hail fell for 20 minutes and caused tree damage.

Valley County
Ord

16 1650CST 0 0 2 0 Hail (1.75)

Franklin County
Riverton

16 1655CST 0 0 4 0 Thunderstorm Wind (G52)

Thunderstorm winds of 60 mph damaged trees and cars. Shingles were blown off houses and power was knocked out for over three hours.

Nance County
6 SE Wolbach

16 1720CST 0 0 4 0 Thunderstorm Wind (G52)

Thunderstorm winds of 60 mph broke large tree limbs.

Nuckolls County
Between Lawrence
and Deweese

16 1735CST 0.5 30 0 0 0 0 Torndao (F0)

A tornado briefly touched down in extreme northwestern Nuckolls County but caused no apparent damage.

Dawes County
Crawford

16 1737CST 0 0 ? ? Hail (1.50)

Platte County
Lindsey

16 1745CST 0.1 30 0 0 5 0 Tornado (F0)

Farm buildings damaged and center pivot overturned.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEBRASKA Cont'd

Boone County 6 SE Albion	16	1745CST	0.5	30	0	0	5	0	Tornado (F0) Farmhouse damaged and outbuildings destroyed.
Webster County 2 S Inavale	16	1745CST	0.75	40	0	0	0	0	Tornado (F0) A tornado touched down for several minutes and remained nearly stationary before lifting. There was no apparent damage.
Buffalo County Kearney	16	1747CST			0	0	2	0	Hail (1.00)
2 S Kearney	16	1757CST			0	0	3	0	Hail (1.75)
Webster County 2 N Red Cloud	16	1800CST			0	0	4	0	Thunderstorm Wind (G52) Thunderstorm winds gusting to 60 mph toppled an observation tower at a feed yard.
Madison County 2 W Norfolk	16	1803CST			0	0	3	0	Thunderstorm Wind (G61) Windows blown out of car dealer showroom.
1 SW Madison to Madison	16	1810CST	1.5	30	0	0	6	0	Tornado (F1) Farm buildings were destroyed southwest of Madison. Roofs on several houses and a pork processing plant were damaged and a couple of tractor-semitrailers were blown over. There was also considerable tree damage and power lines downed.
Box Butte County Alliance	16	1814CST			0	0	?	?	Hail (1.50)
Pierce County Hadar	16	1820CST			0	0	0	0	Thunderstorm Wind (G70) Tree damage.
Clay County Edgar	16	1925CST			0	0	3	0	Thunderstorm Wind (G61) Thunderstorm winds of 50 to 70 mph were reported by a spotter.
Nuckolls County Oak	16	1930CST	2	50	0	0	5	0	Tornado (F1) A tornado briefly touched down, uprooted four grain bins, and threw them into a bean field. A building had one corner of its roof ripped off.
Thayer County Davenport to Carleton	16	1935CST			0	0	4	0	Thunderstorm Wind (G61) Thunderstorm winds of 70 mph downed trees and power lines. Three grain bins were damaged and a shed was thrown into a ditch.
Thayer County Deshler	16	1935CST			0	0	4	0	Lightning Lightning struck a house, setting it ablaze and causing extensive damage.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEBRASKA Cont'd

Douglas, Sarpy,
Cass, Otoe, Nemaha
Richardson Counties

16	Early								
21	Morning- Afternoon				0	0	6	6	Flood

Waters from torrential rains in northeastern Nebraska the previous days reached the Elkhorn River by the 17th, flooding King's Lake in western Douglas County to a depth of up to two feet. The swollen tributaries caused the Missouri River to rise to two to four feet above flood stage from just upstream of Omaha to Rulo in Richardson County, with many cabins, marinas, and farms along the river flooded.

Harlan County
Orleans

18	1545CST								
					0	0	4	0	Thunderstorm Wind (G52) Hail (2.00)

Storm spotters reported 60 mph winds and egg-size hail.

Franklin County
10 S Wilcox

18	1600CST								
					0	0	4	0	Hail (2.75)

Baseball-size hail broke windshields and dented roofs on vehicles in a farmyard.

Franklin County
4 S Hildreth

18	1605CST	1	40						
					0	0	0	0	Tornado (F0)

A tornado briefly touched down with no apparent damage.

Franklin County
Hildreth

18	1610CST								
					0	0	4	0	Hail (2.75)

Baseball-size hail knocked out windsheilds from several vehicles and electrical power for two hours.

Kearney County
Wilcox

18	1618CST								
					0	0	2	0	Hail (1.75)

Franklin County
Between Campbell
and Upland

18	1625CST	0.50	30						
					0	0	0	0	Tornado (F0)

A tornado touched down in an open field with no apparent damage.

Adams County
2 NW Holstein

18	1634CST	0.50	40						
					0	0	0	0	Tornado (F0)

A tornado briefly touched down with no apparent damage.

Adams County
Holstein

18	1637CST								
					0	0	2	0	Hail (1.75)

Adams County
6 SE Roseland

18	1640CST	0.75	440						
					0	0	5	0	Tornado (F2)

A tornado touched down southeast of Roseland and stayed on the ground 6 minutes before lifting. Extensive damage occurred on two farms. On one farm two pickups, some sheds, and a double garage were damaged. On the other farm irrigation pipe, a shed, auger, and gas meter were damaged. Another farm received slight building damage. Several trees were uprooted along the tornado's path.

Adams County
2 W Hastings

18	1654CST								
					0	0	2	0	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEBRASKA Cont'd

Omaha 15 SW OMA	18	1904CST			0	0	5	3	Hail (1.75)
Omaha 15 WSW OMA	18	1905CST			0	0	4	2	Hail (1.00)
Omaha 16 SW OMA	18	1908CST			0	0	4	2	Hail (1.00)
Three-quarter to one and three-quarter-inch hail damaged roofs, gardens, and vehicles in the Omaha metropolitan area.									
Sarpy County Offutt AFB	18	1921CST			0	0	2	1	Hail (0.75)
Polk County Stromsburg to Osceola	18	1915CST- 1925CST			0	0	4	0	Hail (1.75)
Golf ball-size hail caused extensive damage to vehicles and windows in businesses and residences.									
Gage County Pickrell	18	2000CST			0	0	?	?	Thunderstorm Wind
Thunderstorm winds destroyed a garage and machine shed and damaged an auto.									
Dodge County Hooper	18	2030CST			0	0	3	1	Thunderstorm Wind (G50)
Thunderstorm winds gusted 50 to 60 mph with minor damage.									
Washington County 5 W Herman	18	2054CST			0	0	3	4	Hail (1.75)
Franklin County Franklin	18	2345CST			0	0	4	0	Lightning
Lightning struck a house causing a fire on the second floor. The attic and a bedroom were burned, but there was smoke and water damage to the entire second floor.									
Thayer County Hebron	19	0015CST			0	0	5	0	Thunderstorm Wind (G52)
Thunderstorm winds gusting to 60 mph caused extensive tree damage. Fences were blown down and the top of a water tower was knocked over. Some downed electrical wires set trees on fire.									
Webster County Red Cloud	19	0030CST			0	0	4	0	Lightning
Lightning struck a house causing a fire which damaged the roof and second floor of the house.									
Adams County 2 SW Ayr	19	0100CST			0	0	0	0	Funnel Cloud
Gage County 3 SE Adams	19	0130CST			0	0	4	?	Thunderstorm Wind
Thunderstorm winds damaged trees and farm outbuildings and destroyed a barn. Damage was estimated in excess of \$5,000.									
Richardson County Falls City	19	0327CST			0	0	5	2	Thunderstorm Wind (G56)
Thunderstorm winds gusting to 64 mph tore off a portion of a storage building roof and broke numerous tree limbs.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILL	INJURED	PROPERTY	CROPS	

NEBRASKA Cont'd

Nemaha County Auburn	19	0350CST			0	0	3	2	Thunderstorm Wind (G53)
Outflow winds from a decaying area of thunderstorms in the next county to the south gusted to 60 to 65 mph.									
Lincoln County 1 NW Hershey	20	2305CST			0	0	0	0	Hail (1.50)
A thunderstorm dropped 1.50-inch hail just northwest of Hershey in open country but caused no damage.									
Lincoln County North Platte	21	0010CST			0	0	3	0	Hail (1.75)
A thunderstorm produced golf ball-size hail in North Platte. Some roofs and trees were damaged and cars were dented.									
Buffalo County Kearney	21	0145CST			0	0	4	0	Thunderstorm Wind (G52)
Thunderstorm winds gusting to 60 mph knocked down trees and electrical power out for an hour. One tree fell on a station wagon and damaged it.									
Kearney County Minden	21	0200CST			0	0	2	0	Thunderstorm Wind (G52)
Thunderstorm winds gusting to 60 mph caused minor tree damage.									
Hall County Grand Island	21	0215CST			0	0	1	0	Thunderstorm Wind (G52)
Thunderstorm winds gusting to 60 mph caused minor tree damage.									
Saunders County Wahoo	21	0329CST			0	0	3	2	Hail (1.75)
Rock County Long Pine	25	1752CST			0	0	0	0	Hail (1.75)
Blaine County 3 S Brewster	25	1815CST			0	0	0	0	Hail (1.75)
Rock County 12 S Bassett	25	1820CST			0	0	0	0	Hail (1.75)
Keya Paha County 10 W Springview	25	1845CST			0	0	0	0	Hail (1.75)
Custer County 15 NE Broken Bow	25	2000CST			0	0	?	?	Hail (1.75)
A thunderstorm dropped golf ball-size hail on open range but no damage was reported.									
Greeley County Scotia	25	2200CST			0	0	3	0	Thunderstorm Wind (G61)
Thunderstorm winds gusting to 70 mph caused tree damage.									
Howard County Cotesfield to Elba to St. Paul	25	2205CST- 2230CST			0	0	5	6	Hail (1.00) Thunderstorm Wind (G70)
Thunderstorm winds gusting to 80 mph and hail up to 1 inch in diameter caused major tree and crop damage. The wind and hail damaged 23,800 acres of crops with 1,000 to 2,000 acres totally destroyed. Storm spotters reported 60 to 80 mph winds 2 miles west of St. Paul at 2217 CST. Power lines and trees were knocked down in St. Paul.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEBRASKA Cont'd

**Thayer County
Bruning to
Belvidere**

26 0005CST-0020CST 0 0 5 5 **Thunderstorm Wind (G70)**

Thunderstorm winds gusting to 80 mph caused structural damage to several buildings, severely damaged three grain bins, and demolished a barn. There were numerous reports of tree and crop damage.

**Thayer County
Hebron**

26 0010CST 0 0 0 0 **Funnel Cloud**

Several funnel clouds were signed on the north side of Hebron.

**Thayer County
Hebron**

26 0020CST 0 0 5 0 **Thunderstorm Wind (G70)**

Thunderstorm winds gusting to 80 mph resulted in extensive tree damage. One tree fell on a vehicle causing severe damage.

**Jefferson County
Fairbury**

26 0025CST 0 0 ? ? **Thunderstorm Wind (G60)**

Thunderstorm winds of 65 to 70 mph caused tree damage.

**Keith County
6 S Brule**

27 2100CST 0 0 0 0 **Hail (1.75)**

Golf ball-size hail fell from a thunderstorm in open country but no damage was reported.

**Keith County
Ogallala**

27 2140CST 0 0 3 0 **Thunderstorm Wind**

Thunderstorm winds damaged a garage and moved a storage tank 200 yards.

**Lincoln County
North Platte**

27 2206CST 0 0 2 0 **Thunderstorm Wind**

Paxton

27 2214CST 0 0 2 0 **Thunderstorm Wind**

14 N North Platte

27 2225CST 0 0 3 0 **Thunderstorm Wind**

Sutherland

27 2235CST 0 0 3 0 **Thunderstorm Wind**

A thunderstorm with estimated wind speeds up to 65 mph caused power line damage near Sutherland, overturned a gooseneck trailer 14 miles north of Platte, and blew down and destroyed an old hangar at the airport in North Platte. The National Weather Service at North Platte recorded a peak gust of 49 mph.

**Scotts Bluff County
Minature**

30 1945CST 0 0 ? ? **Hail (0.75)**

NEVADA

Clark County

10 1230PST-1430PST 2 0 5 0 **Flash Flood**
10 1300PST 0 1 0 0 **Lightning**

Thunderstorms that moved into the Las Vegas area produced heavy rainfall in a short period of time. The result was widespread flash flooding. Between 0.75 inch and a little over 1.50 inch of rain fell in an hour or less in the Las Vegas area. At 1310 PST Las Vegas Police reported every underpass in the city flooded and flooded streets in most areas. At 1315 PST 25-year-old

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEVADA Cont'd

woman was killed when she attempted to drive across a flooded street. Floodwater picked up her car and swept it a mile down a concrete wash. It stopped at the entrance of a culvert where water washed completely over the car. An 18-year-old man was killed in east Las Vegas when flood waters swept him into a culvert. Just north of Las Vegas on U.S. Highway 95 a motorcyclist was injured when he was struck by lightning. The Las Vegas Police rescued numerous stranded motorists including 15 passengers of a small bus that was swept down a four foot wall of water. The bus stopped just 40 feet short of the Flamingo Wash. Fire fighters were forced to transfer the passengers through the sunroof, across a ladder of dry ground. Heavy rain collapsed the roofs of several Las Vegas area businesses. (F25P M180)

NEW HAMPSHIRE

Coos County	09	1625EST			0	0	3	0	Hail (0.75) Thunderstorm Wind
A state highway dispatcher reported three-quarter-inch hail and a few trees down in Lancaster.									
Grafton County	09	1830EST			0	0	3	0	Hail (0.75)
Three-quarter-inch hail was reported by state police in Bethlehem.									
Coos County	09	1830EST- 1845EST			0	0	3	0	Hail (0.75)
Three-quarter-inch hail was reported by state police along a path from Twin Mountain East to the Cog Railway.									
Hillsboro County	19	1440EST			0	0	3	0	Hail (0.75)
Three-quarter-inch hail fell in Hillsboro.									
	19	1459EST			0	0	3	0	Hail (1.00)
One-inch hail fell in Antrim. Up to 3 inch hail depth was reported on a deck in this town.									
Grafton County	19	Afternoon			0	0	4	0	Lightning
Lightning caused a major house fire in Lincoln.									
Carroll County	19	1240EST			0	0	4	0	Lightning
Lightning struck and burned a house in Wolfeboro.									
	19	Afternoon			0	0	4	0	Lightning
A barn, garage, and electrical system were struck by lightning in Ossipee.									
Grafton	21	1755EST			0	0	2	0	Hail (1.00)
Three-quarter to one-inch hail fell in Comerford.									

NEW JERSEY, Northern

Middlesex County Plainsboro	19	1455EST			0	0	0	0	Thunderstorm Wind (G55)
Middlesex County Plainsboro	19	1455EST			0	0	0	0	Hail (0.75)

Very strong thunderstorms developed at Plainsboro, New Jersey in the warm, humid, and unstable air mass ahead of an approaching cold front.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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NEW JERSEY, Southern

Gloucester County 3 E Pitman	03	1915EST			0	0	3	0	Thunderstorm Wind Thunderstorm wind gusts downed trees and utility lines in Washington Township.
Atlantic County Hammonton	03	1945EST			0	0	?	0	Thunderstorm Wind (G61) Thunderstorm wind gusts were estimated at 60 to 70 mph.
Burlington County Willingboro	03	1950EST			0	0	3	0	Thunderstorm Wind Thunderstorm wind gusts downed utility lines.
Burlington County Medford Lakes	09	2030EST			0	0	4	0	Thunderstorm Wind Thunderstorm wind gusts downed trees and utility lines and tore off roofs.
Ocean County 9 W Forked River	09	2045EST			0	0	3	0	Thunderstorm Wind Thunderstorm wind gusts downed a tree and other large limbs.
Camden County	18	1810EST			0	0	3	0	Flooding Heavy rain caused urban and small stream flooding. Westmont had 1.95 inches of rain in 1 hour which caused significant street flooding. The Newton Creek in Camden County also flooded. Portions of Route 70 in Cherry Hill and Camden were closed by flooding. Flooding occurred between 1810 and 2010 EST.
Burlington County	18	1815EST			0	0	3	0	Flooding Heavy rain caused urban and small stream flooding. Sections of Route 130 in Cinnaminson and Delran were closed by flooding. Route 73 near the Tacony-Palmyra Bridge was flooded as was Waynesville Road near Route 130. Route 537 in Moorestown had some flooding as well. Flooding occurred between 1815 and 2015 EST.
Cumberland County Vineland	19	1600EST			0	0	3	0	Thunderstorm Wind Thunderstorm wind gusts downed a tree and other large limbs.
Atlantic County 2 E Dorothy Somers Point	19	1615EST			0	0	?	?	Hail (0.75)
	19	1620EST			0	0	?	?	Hail (0.75) Dime-size hail fell in Somers Point and in Weymouth Township east of Dorothy.
Burlington County Willingboro	19	1356EST			0	0	3	0	Thunderstorm Wind
Delran	19	1420EST			0	0	?	0	Hail (0.75)
9 E Delran	19	1430EST			0	0	?	0	Hail (0.75) Thunderstorm wind gusts downed utility lines in Willingboro. In the Delran area three-quarter-inch hail was reported.
Salem County Pennsville	19	1415EST			0	0	?	0	Hail (0.75)
Woodstown	19	1420EST			0	0	?	0	Hail (0.75) Thunderstorms dropped three-quarter-inch hail.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD				KILLED	INJURED	PROPERTY	CROPS	

NEW JERSEY, Southern Cont'd

Gloucester County

Westville	19	1415EST				0	0	3	0	Thunderstorm Wind
Clayton	19	1425EST				0	0	?	0	Hail (0.75)

Thunderstorm wind gusts downed 12 trees in Westville. In Clayton one-half- to three-quarter-inch hail fell.

Mercer County

Ewing Township	19	1415EST				0	0	3	0	Thunderstorm Wind Hail (0.75)
Lawrenceville	19	1420EST				0	0	3	0	Thunderstorm Wind
Princeton	19	1430EST				0	0	?	0	Hail (0.75)
						0	0	4	0	Thunderstorm Wind

Thunderstorms dropped three-quarter-inch hail in Princeton and in Ewing Township. Thunderstorm wind gusts downed trees in Ewing Township and in Lawrenceville. Wind gusts brought down six large trees, large branches, and utility lines in Princeton along a damage path 1 mile long and 0.5 mile wide.

Mercer County

Robbinsville Airport	29	2138EST				0	0	4	0	Thunderstorm Wind
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Thunderstorm wind gusts downed numerous trees and destroyed a quonset hut.

Burlington County

Chesterfield	29	2145EST				0	0	?	0	Hail (0.75)
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Thunderstorms dropped three-quarter-inch hail.

NEW MEXICO

Eddy County

Lakewood	04	1818MST				0	0	0	0	Thunderstorm Wind (G61)
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Wind gusts of 70 mph were reported 12 miles south of Artesia.

Eddy County

5 W Carlsbad	04	1818MST				0	0	0	0	Funnel
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Funnel cloud reported by State Police.

Eddy County

10 N Carlsbad	04	0840MST				0	0	0	0	Thunderstorm Wind (G52)
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Reported at Avalon Dam. Tree limbs down and power out to and in city of Carlsbad.

Union County

5 E Des Moines	08	1825MST				0	0	0	0	Hail (1.75)
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Golf ball-size hail reported by Clayton Police Department.

Union County

Folsom	08	2008MST				0	0	0	0	Hail (1.50)
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Hail reported by Clayton Police Department.

Union County

Mt. Dora	08	1943MST				0	0	0	0	Hail (1.75)
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Pea- to golf ball-size hail reported by Clayton Police Department.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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NEW MEXICO Cont'd

Chaves County 40 WSW Row	10	1547MST							Funnel
Funnel reported by public.									
Chaves County Roswell	12	1400MST			0	0	3	0	Dust Devils
Two-thousand dollars damage to sheds in area by wind. Firefighters in the area reported dust devils.									
Quay County 22 E Tucumcari	21	0910MST			0	0	0	0	Hail (1.00)
Nickel-size hail reported at port of entry station near San Jon by POE employee.									
Santa Fe County Santa Fe Downs	25	AFTN			0	1	5	0	Microburst Wind
Roof blown off horse barn at Santa Fe Downs race track and deposited 30-feet away. Two other barn roofs blown off also. Woman groomer and horses injured. (\$100,000 damage)									
San Miguel Las Vegas	28	1403MST			0	0	0	0	Thunderstorm Winds (G52)
Peak wind report at Las Vegas Flight Service Station.									

NEW YORK, Eastern

Oneida County Rome	02	1828EST			1	1	3	0	Lightning
An 11-year-old male was struck and killed by lightning while playing outdoors. The youth was pronounced dead on arrival at the hospital. The other unidentified male was also struck and thrown into a nearby creek. Rescue personnel pulled the youth from the creek, who was then transported to a nearby hospital and later released. (M110)									
St. Lawrence County Clinton County Plattsburgh	03	1245EST			0	0	4	3	Thunderstorm Wind
	03	Unknown			0	0	2	0	Thunderstorm Wind
Thunderstorm winds brought down trees and power lines.									
Chenango County McDonough Norwich	09	1220EST			0	0	3	2	Thunderstorm Wind
	09	1249EST			0	0	2	0	Thunderstorm Wind
Trees, tree limbs, and power lines were downed.									
Delaware County 1 NE Walton	09	2100EST			0	0	4	4	Downburst
Downburst winds ripped through the East Brook valley bringing down large trees, tipped over farm wagons, ripped down power lines and power meters, and partially destroyed a barn. The downburst traveled along the ground for about 0.5 mile. It was funneled by the walls of the valley.									
Delaware County 1 NE Walton	09	2100EST	0.3	50	0	0	5	4	Tornado (F0)
0.7 NE Walton Walton	09	2103EST- 2105EST			0	0	4	4	Downburst

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Eastern Cont'd

Thunderstorms produced winds in excess of 70 mph in northern New York. These strong wind gusts blew down a home in the vicinity of Stillwater Reservoir, injuring one child. Earlier in the day a tornado was sighted near Lake Ontario.

Orange County									
5 N Stewart Field	19	1414EST			0	0	0	0	Funnel Cloud
Cornwall	19	1420EST			0	0	4	0	Lightning
Goshen	19	1425EST			0	0	5	0	Lightning
Ulster County									
Rosendale	19	1438EST			0	0	3	0	Thunderstorm Wind
Dutchess County									
Poughkeepsie	19	1450EST			0	0	2	2	Hail (1.75)
Rhinebeck	19	1455EST			0	0	2	0	Hail (1.00)
Pine Plains	19	1501EST			0	0	2	0	Thunderstorm Wind
Rhinebeck	19	1515EST			0	2	3	0	Thunderstorm Wind
Poughkeepsie	19	1515EST			0	0	0	0	Funnel Cloud
Columbia County									
Copake	19	1550EST			0	0	3	0	Thunderstorm Wind
Copake	19	1600EST			0	0	3	0	Flash Flood
Hillsdale	19	1610EST			0	0	4	0	Flash Flood

Thunderstorms produced strong gusty winds which took down power lines and tree limbs. Skywarn observers also reported hail between 1.00 and 1.75 inches in diameter. Two persons were slightly injured when tree limbs fell on a local delivery vehicle. In Columbia County, two flash floods forced local supervisors to close portions of State Route 22 and Sunset Rock Road.

Preble	21	1430EST			0	0	2	2	Thunderstorm Wind
Truxton	21	1430EST			0	0	2	1	Hail (0.80)
Chenago County									
1 S Norwich	21	1500EST			0	0	3	3	Hail (1.25)
4 SW Norwich	21	1500EST			0	0	4	3	Hail (2.75)
Oxford	21	1500EST			0	0	4	3	Hail (2.75)
Tioga County									
Newark Valley	21	1520EST			0	0	2	2	Hail (0.85)
Otsego County									
Unidilla	21	1520EST			0	0	0	0	Hail (0.75)
Montgomery County									
Fonda	21	1525EST			0	0	0	0	Hail (0.75)
Broome County									
West Corners	21	1525EST			0	0	1	0	Hail (0.70)
Endwell	21	1530EST			0	0	1	0	Hail (0.75)
Herkimer County									
Herkimer	21	1530EST			0	0	3	2	Hail (1.75)
Montgomery									
Tribes Hill	21	1530EST			0	0	3	1	Hail (0.75)
Tioga County									
Spencer	21	1544EST			0	0	2	1	Hail (0.75)
Delaware County									
Walton	21	1605EST			0	0	3	2	Thunderstorm Wind
Hamden	21	1605EST			0	0	1	0	Thunderstorm Wind
Delhi	21	1615EST			0	0	1	0	Hail (0.75)
Fulton County									
Southern Portion	21	1615EST-1625EST			0	0	3	1	Thunderstorm Wind
Montgomery County									
Mohawk	21	1615EST			0	0	1	1	Hail (0.25)
Mohawk	21	1615EST			0	0	3	0	Thunderstorm Wind
Northern Portion	21	1620EST			0	0	3	0	Thunderstorm Wind
Herkimer County									
Mohawk	21	1620EST			0	0	3	2	Thunderstorm Wind
Montgomery County									
Fonda	21	1625EST			0	0	2	1	Hail (0.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C O S T	

NEW YORK, Eastern Cont'd

Samsonville	21	1630EST			0	0	3	3	Thunderstorm Wind
Delaware County									
Andes	21	1630EST- 1645EST			0	0	3	0	Hail (2.50)
Andes	21	1630EST- 1645EST	0.7	220	0	0	5	0	Tornado (F1)
Hamden	21	1638EST			0	0	3	0	0
Delancey	21	1638EST			0	0	3	0	Hail (1.75)
Margaretville	21	1640CST			0	0	1	1	Hail (0.50)
Greene County									
Windham	21	1645EST			0	0	3	4	Thunderstorm Wind
Herkimer County	21	1733EST			0	0	4	4	Thunderstorm Wind
Orange County									
Walkill	21	1800EST			0	0	4	0	Lightning
Newburgh	21	1805EST			0	0	3	0	Thunderstorm Wind (G60)
Kobelt Airport	21	1807EST			0	0	3	3	Thunderstorm Wind
Plattekill	21	1815EST			0	0	4	0	Thunderstorm Wind
Cornwall	21	1830EST			0	0	3	3	Thunderstorm Wind
Orange County									
Walkill	21	1836EST			0	0	3	3	Thunderstorm Wind
Putnam County									
Cold Springs	21	1840EST			0	0	2	1	Hail (0.75)
Dutchess County									
Beacon	21	1840EST			0	0	3	0	Thunderstorm Wind
Fishkill	21	1842EST			0	0	3	0	Thunderstorm Wind
Fishkill	21	1900EST- 1945EST			0	0	3	0	Urban Flood

An F1 tornado touched down at Chenango County, in the town of Andes. Initial touchdown was on Tremper Kill Road. Total path length was 0.7 mile with maximum width of 220 yards. The tornado track was non-continous. Estimated maximum wind speed 100 mph. Damage consisted of sheared and uprooted trees, structure damage to one home, a trailer raised off the ground, a pickup set on fire and destroyed, and downed power lines. An eye witness reported hailstones the size of tennis balls. F1-P0-P3

Mechanicsville	23	1105EST			0	0	3	0	Urban Flood
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Over three inches of rain in about 45 minutes overwhelmed local storm sewers and resulted in widespread urban flooding.

Franklin County									
5 NW Malone	23	1635EST			0	0	2	2	Thunderstorm Wind
Herkimer County									
Herkimer	29	1500EST			0	0	3	3	Thunderstorm Wind
Mohawk	29	1500EST			0	0	3	0	Thunderstorm Wind
Chenango County									
Otselic	29	1510EST- 1520EST			0	0	2	2	Thunderstorm Wind
Sherburne	29	1510EST- 1520EST			0	0	2	1	Thunderstorm Wind
Berlin	29	1510EST- 1520EST			0	0	3	1	Thunderstorm Wind
Tioga County									
Owego	29	1520EST			0	0	3	0	Thunderstorm Wind
Spencer	29	1520EST			0	0	3	1	Thunderstorm Wind
Tioga	29	1520EST			0	0	3	1	Thunderstorm Wind
Broome County									
Johnson City	29	1540EST			0	0	5	0	Lightning
Kirkwood	29	1541EST			0	3	3	0	Lightning
Windsor	29	1545EST- 1615EST			0	0	3	1	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Eastern Cont'd

Castle Creek	29	1545EST-1615EST			0	0	2	0	Thunderstorm Wind
Endwell	29	1545EST-1615EST			0	0	3	0	Thunderstorm Wind
Union	29	1545EST-1615EST			0	0	3	2	Thunderstorm Wind
Endicott	29	1545EST-1615EST			0	0	2	2	Thunderstorm Wind
Kirkwood	29	1545EST-1615EST			0	0	3	3	Thunderstorm Wind
Colesville	29	1545EST-1615EST			0	0	2	1	Thunderstorm Wind
Hagaman	29	1600EST			0	0	2	2	Thunderstorm Wind
Palatine Bridge	29	1600EST			0	0	3	1	Thunderstorm Wind
Otsego County									
Laurens	29	1600EST-1630EST			0	0	3	1	Thunderstorm Wind
Hartwick	29	1600EST-1630EST			0	0	2	0	Thunderstorm Wind
Schenevus	29	1600EST-1630EST			0	0	3	0	Thunderstorm Wind
Morris	29	1600EST-1630EST			0	0	4	0	Thunderstorm Wind
Delaware County									
Davenport Center	29	1620EST			0	0	2	0	Hail (0.75)
Stamford	29	1645EST-1715EST			0	0	3	0	Thunderstorm Wind
Delhi	29	1645EST-1715EST			0	0	1	1	Thunderstorm Wind
Kortwright	29	1645EST-1715EST			0	0	2	1	Thunderstorm Wind
Columbia County									
Hillsdale	29	1753EST			0	0	3	1	Thunderstorm Wind
Dutchess County									
Rhinebeck	29	1820EST			0	0	3	2	Thunderstorm Wind (G70)
Orange County									
Wallkill	29	1840EST			3	8	5	0	Thunderstorm Wind (G100)
Ulster County									
Kingston	29	1842EST			0	0	4	0	Thunderstorm Wind
Orange County									
Newburgh	29	1855EST			0	0	4	4	Thunderstorm Wind (G106)
Stewart Field									
Coldenham	29	1857EST-1900EST	0.4	30	0	0	5	4	Tornado (F0)
New Windsor	29	1900EST-1925EST			0	0	5	3	Thunderstorm Wind
1 N Wallkill	29	1915EST			0	0	2	1	Hail (0.75)
Dutchess County									
Poughkeepsie	29	1915EST-1930EST			0	0	2	0	Thunderstorm Wind
Hyde Park	29	1929EST			0	0	2	0	Thunderstorm Wind
Ulster County									
Countywide	29	1933EST-1945EST			0	0	4	4	Thunderstorm Wind
Orange County									
Newburgh	29	1945EST			0	0	3	0	Thunderstorm Wind
Putnam County									
Carmel	29	1947EST			0	0	3	2	Thunderstorm Wind
Mahopac	29	1948EST-1951EST	0.5	50	0	0	4	3	Tornado (F0)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Eastern Cont'd

A small tornado (F0) formed in the vicinity of Coldenham/Newburgh Reformed Church. Debris was found wrapped around high tension lines. Trees were reported twisted out of the ground. Heavy rain, lightning, and hail were all reported in the immediate vicinity. (F12V F38V M63V)

Coldham F0-P0-P1
Mohopac F0-P0-P1

Tioga County										
Tioga	30	1928EST				0	0	3	0	Thunderstorm Wind
Spencer	30	1928EST				0	0	2	0	Thunderstorm Wind
Broome County										
Johnson Center	30	1950EST				0	0	2	0	Thunderstorm Wind
5 Mile Point	30	2000EST				0	0	3	0	Thunderstorm Wind
Binghamton	30	2005EST				0	0	3	2	Thunderstorm Wind

Trees and power lines downed.

NEW YORK, Coastal

Westchester County										
Ossining	18	1455EST				0	0	?	0	Thunderstorm Wind

Thunderstorms forming ahead of a cold front produced damaging winds that downed power lines near Ossining.

Westchester County										
Near Katonah	19	1617EST				0	0	?	0	Thunderstorm Wind

Very strong thunderstorms developed for the second day in a row in the warm, humid, and unstable air mass ahead of an approaching cold front. Winds associated with these storms downed several trees just north of Katonah.

Westchester County										
	29	2000EST				0	0	?	0	Thunderstorm Wind

An upper-level disturbance moving eastward along a warm front triggered thunderstorms with damaging winds across sections of northeastern Westchester County. Numerous trees and power lines were reported down.

NEW YORK, Western

NYZ001-021-022

Erie County
Buffalo
Niagara County
Niagara Falls
Grand Island
Genessee County
Batavia
Medina
Chautauqua County
Dunkirk
Chautauqua

	03	1155EST- 1900EST				0	0	4	4	High Wind
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Deep low pressure across the upper Great Lakes brought strong southwestern winds to the extreme western end of New York. Peak gusts of 54 knots at 1155 EST at Buffalo were recorded. Several cars were damaged when large tree limbs, and in two cases uprooted trees, fell on them. About 6,000 were without power as many scattered power outages were reported. A local public television station was knocked off the air for just over an hour when falling trees disrupted power to their transmitter.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Western Cont'd

Oneida County Taborg	14	1919EST			0	0	3	0	Thunderstorm Wind
Steuben County Bath	14	1945EST			0	0	3	0	Thunderstorm Wind
Troupsburg	14	1945EST			0	0	3	0	Thunderstorm Wind
Woodhull	14	1945EST			0	0	3	0	Thunderstorm Wind
Oneida County Oneida Castle	14	2005EST			0	0	3	0	Thunderstorm Wind
Steuben County Campbell	14	2110EST			0	0	3	0	Thunderstorm Wind

Evening thunderstorms developed in unstable air over parts of central New York. Trees and wires were downed causing scattered power outages.

Chautauqua County Falconer	18	0540EST			0	0	3	0	Thunderstorm Wind
Erie County Elma	18	0630EST			0	0	3	0	Thunderstorm Wind
Lancaster	18	0650EST			0	0	3	0	Thunderstorm Wind
Niagara County Wilson	18	0700EST			0	0	3	0	Thunderstorm Wind
Genesee County Batavia	18	0700EST			0	0	3	0	Thunderstorm Wind
Orleans County Murray	18	0715EST			0	0	3	0	Thunderstorm Wind
Oswego County Hannibal	18	0818EST			0	0	3	0	Thunderstorm Wind
Jefferson County Brownville	18	0822EST			0	0	4	0	Thunderstorm Wind
Antwerp	18	0822EST			0	0	4	0	Thunderstorm Wind
Oswego County Mexico	18	0827EST			0	0	3	0	Thunderstorm Wind
Jefferson County Evan Mills	18	0832EST			0	0	3	0	Thunderstorm Wind
Watertown	18	0845EST			0	0	3	0	Thunderstorm Wind
Onondaga County Syracuse	18	0845EST			0	0	3	0	Thunderstorm Wind
Jefferson County Adams Center	18	0850EST			0	0	3	0	Thunderstorm Wind
Henderson Harbor	18	0900EST			0	0	0	0	Waterspout
Lewis County Lowville	18	0901EST			0	0	3	0	Thunderstorm Wind
Oneida County Vienna	18	0908EST			0	0	3	0	Thunderstorm Wind
Rome	18	0912EST			0	0	3	0	Thunderstorm Wind
Lewis County Lowville	18	0916EST			0	0	3	0	Thunderstorm Wind
New Bremen	18	0930EST			0	0	3	0	Thunderstorm Wind

A cold front, accompanied by severe thunderstorms, moved quickly across western and central New York during the morning hours. The thunderstorms downed trees and power lines causing numerous power outages. Near-zero visibility from heavy rain and downed power lines also caused traffic problems during morning rush hour. Several reports of homes damaged by falling trees were received. A state of emergency was declared in Brownville as downed trees and power lines blocked the main streets. Two people were trapped in their cars when live wires fell onto the street. Two trailers were overturned in Antwerp. A waterspout was sighted in Henderson Harbor. The water rose 10 feet near the waterspout, reported to be 150 feet high, 30 feet in diameter and lasting 6 minutes.

Erie County Buffalo	18	2020EST			0	0	3	0	Thunderstorm Wind
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Western Cont'd

Genesee County										
Oakfield	18	2045EST				0	0	3	0	Thunderstorm Wind
Byron	18	2100EST				0	0	3	0	Thunderstorm Wind
Monroe County										
Henrietta	18	2134EST				0	0	3	0	Hail (0.75)

Thunderstorms developed in moist unstable air during the evening hours.

Erie County										
Alden	21	1125EST				0	0	3	0	Thunderstorm Wind
Niagara County										
Wrights Corners	21	1145EST				0	0	3	0	Hail (0.75)
Ontario County										
Naples	21	1308EST				0	0	3	0	Hail (1.00)
Yates County										
Italy	21	1329EST				0	0	3	0	Hail (0.75)
Schuyler County										
Hector	21	1400EST				0	0	3	0	Hail (0.75)
Tomkins County										
Newfield	21	1445EST				0	0	3	0	Hail (1.75)
Chemung County										
Van Etten	21	1520EST				0	0	3	0	Thunderstorm Wind

Thunderstorms developed as an upper-level disturbance crossed western and central New York during the late morning and early afternoon hours.

Ontario County										
Italy	22	1515EST				0	0	3	0	Thunderstorm Wind
Schuyler County										
Orange	22	1545EST				0	0	3	0	Thunderstorm Wind
Orange	22	1552EST				0	0	3	0	Thunderstorm Wind

Thunderstorms downed trees and power lines. In Italy, a large barn door was blown out by the wind.

Schuyler County										
Watkins Glen	29	1345EST				0	0	3	0	Thunderstorm Wind
Tompkins County										
Hector	29	1410EST				0	0	3	0	Thunderstorm Wind
Ithaca	29	1410EST				0	0	3	0	Thunderstorm Wind
Chemung County										
Horseheads	29	1415EST				0	0	3	0	Thunderstorm Wind
Tompkins County										
Cayuga Heights	29	1415EST				0	0	4	0	Thunderstorm Wind
Dryden	29	1436EST				0	0	3	0	Thunderstorm Wind
Chemung County										
Erin	29	1510EST				0	0	3	0	Thunderstorm Wind
Steuben County										
Addison	29	1530EST				0	0	3	0	Thunderstorm Wind

Severe thunderstorms in association with a warm front across south-central New York produced damage across parts of the area during the afternoon hours. There were many reports of downed trees and power lines. In Cayuga Heights, a house was damaged by a falling tree.

Orleans County										
Albion	30	1645EST				0	0	4	0	Thunderstorm Wind
Genesee County										
Pembroke	30	1730EST				0	0	3	0	Thunderstorm Wind
Livingston County										
Avon	30	1810EST				0	0	3	0	Thunderstorm Wind
Groveland	30	1818EST				0	0	3	0	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NEW YORK, Western Cont'd

Niagara County Middleport	30	1830EST			0	0	3	0	Hail (0.75)
Yates County Italy	30	1842EST			0	0	3	0	Hail (0.75)
Stueben County Addison	30	1845EST			0	0	4	0	Thunderstorm Wind
Schuyler County Watkins Glen	30	1850EST			0	0	3	0	Thunderstorm Wind
Tomkins County Dryden	30	1853EST			0	0	3	0	Thunderstorm Wind
Genesee County Alexander	30	1900EST			0	0	3	0	Thunderstorm Wind
Chemung County Chemung	30	1910EST			0	0	3	0	Thunderstorm Wind

Thunderstorms developed in warm unstable air ahead of a cold front associated with low pressure over Ontario, Canada. The thunderstorms downed numerous trees and power lines. In Albion, the trees downed were between 50- to 60- feet tall and in Addison, four large maple trees were uprooted.

NORTH CAROLINA

Durham County Durham	03	1755EST			0	0	0	0	Thunderstorm Winds
Wake County Raleigh	03	1810EST			0	0	0	0	Thunderstorm Winds Hail (1.75)
Nash County Spring Hope	03	1859EST			0	0	0	0	Thunderstorm Winds
Franklin County Pilot	03	1900EST			0	0	0	0	Thunderstorm Winds
Nash County Northern	03	1930EST			0	0	0	0	Thunderstorm Winds

Thunderstorm downburst wind swept across much of the northeastern piedmont. Damage was limited to downed trees and power lines.

Tyrrell County Bull Bay	04	1936EST			0	0	0	0	Waterspout
Hyde County Fairfield	04	2100EST			0	0	0	0	Thunderstorm Winds

Severe thunderstorms blew down trees in Fairfield and produced a waterspout just north of Bull Bay.

Henderson County 6 W Hendersonville	08	1400EST			1	0	0	0	Lightning
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A 63-year-old man holding a golf club was struck by lightning while on a golf course near Hendersonville. He died two weeks later. M630

Catawba County Northern	08	1512EST			0	0	0	0	Hail (1.00)
Caldwell County Southeast	08	1521EST			0	0	0	0	Hail (1.25)
Randolph County Archdale	08	1525EST			0	0	0	0	Hail (1.75)
Catawba County Newton	08	1530EST			0	0	0	0	Hail (2.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH CAROLINA Cont'd

Lincoln County S of Lincolnton	08	1658EST			0	0	0	0	Hail (1.00)
Gaston County 1 N Cherryville	08	1718EST			0	0	0	4	Hail (1.00)
Gaston County Cherryville	08	1800EST			0	0	0	4	Hail (1.00)
Buncombe County West Asheville	08	1955EST			0	0	0	0	Hail (1.50)
Buncombe County Asheville	08	2010EST			0	0	0	0	Thunderstorm Winds

Large hail was widespread over the western half of North Carolina. Golf ball-size hail was reported in Archdale and Newton. Crop damage in Gaston County was near \$20,000. Trees were blown down in Asheville.

Henderson County Hendersonville	09	1530EST			2	0	0	0	Lightning
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Two golfers were killed when the tree they were standing under was struck by lightning. M670, M310

Caswell County Semora	09	1944EST			0	0	0	0	Hail (1.00)
Person County Western	09	2010EST			0	0	0	0	Thunderstorm Winds
Polk County Columbus	09	1135EST			0	0	0	0	Thunderstorm Winds Hail (0.75)

Isolated severe thunderstorms crossed western and central North Carolina producing some large hail and blowing down trees and power lines.

Columbus County Fairbluff	10	1745EST			0	0	0	0	Thunderstorm Winds
Columbus County Cherry Grove	10	1800EST			0	0	0	4	Hail (1.75)

A large thunderstorm blew down trees in Fairbluff and damaged a farm building in Tabor City. Large hail fell in Cherry Grove. Damage to the tobacco crop was near \$15,000.

Franklin County Franklinton	18	1730EST			0	0	0	0	Thunderstorm Winds
Nash County Spring Hope	18	1850EST			0	0	0	0	Thunderstorm Winds

Thunderstorm winds blew down trees in Franklinton and near Spring Hope.

Dare County Northern	19	1610EST			0	0	0	0	Hail (1.25)
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Half-dollar-size hail fell on the mainland of Dare County and on Roanoke Island.

Montgomery County Biscoe	22	1030EST			0	0	0	0	Thunderstorm Winds
Catawba County Hickory	22	1319EST			0	0	0	0	Hail (1.00)
Iredell County Statesville	22	1400EST			0	0	0	0	Thunderstorm Winds
Davie County	22	1500EST			0	0	4	0	Lightning

Thunderstorm winds damaged the roof of a house in Biscoe and blew down trees and power lines in Statesville. Large hail fell in Hickory. Sixteen cows were killed when the tree they were standing under was struck by lightning.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH CAROLINA Cont'd

Wayne County W of Dudley	22	0241EST			0	0	0	0	Thunderstorm Winds
Dare County Stumpy Point	22	0326EST			0	0	0	0	Hail (1.75)
Moore County Robbins	22	1030EST			0	0	0	0	Thunderstorm Winds
Durham County Durham	22	1132EST			0	0	0	0	Thunderstorm Winds
Orange County Orange	22	1145EST			0	0	0	0	Thunderstorm Winds
Wake County Wake Forest	22	1158EST			0	0	0	0	Thunderstorm Winds
Johnson County Northeast	22	1200EST			0	0	0	0	Thunderstorm Winds
Person County Person	22	1200EST			0	0	0	0	Thunderstorm Winds
Johnson County Smithfield	22	1203EST			0	0	0	0	Thunderstorm Winds
Granville County Oxford	22	1230EST			0	0	0	0	Thunderstorm Winds
Nash County Nash	22	1235EST			0	0	0	0	Thunderstorm Winds
Halifax County Halifax	22	1315EST			0	0	0	0	Thunderstorm Winds
Wake County Raleigh	22	1330EST			0	0	0	0	Thunderstorm Winds
Northhampton County Jackson	22	1335EST			0	0	0	0	Thunderstorm Winds
Franklin County Wake Forest	22	1355EST			0	0	0	0	Thunderstorm Winds
Pasquotank County Elizabeth City	22	1443EST			0	0	0	0	Thunderstorm Winds
Camden County South Mills	22	1545EST			0	0	0	0	Thunderstorm Winds
Onslow County Onslow	22	1920EST			0	0	0	0	Thunderstorm Winds
Onslow County Onslow	22	1938EST			0	0	0	0	Funnel Cloud

Thunderstorms produced large hail and damaging winds over much of central and eastern North Carolina. Most of the wind damage was limited to downed trees and power lines.

West Onslow County Brunswick County W of Winnabow	23	1048EST			0	0	0	0	Funnel Cloud
Wilson County 2 W Wilson	23	1630EST			0	0	0	0	Thunderstorm Winds
Pitt County Falkland	23	1730EST			0	0	3	0	Thunderstorm Winds

A funnel cloud was sighted by police officers in western Onslow County. Thunderstorm winds blew down trees and power lines near Wilson and damaged farm buildings near Falkland.

Pamlico County near Oriental	26	1155EST			0	0	0	0	Waterspout
Carteret County near Portsmouth Island	26	1510EST			0	0	0	0	Waterspout
Hyde County N of Ocracoke	26	1751EST			0	0	0	0	Waterspouts

Waterspouts were sighted near Oriental and near Portsmouth Island in the Pamlico Sound. Five were sighted from 1230 EDT to 1851 EDT north of Ocracoke Island. None reached land.

Carteret County off Cape Lookout	28	1142EST			0	0	0	0	Waterspout
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A waterspout was sighted off Cape Lookout in the Atlantic.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH CAROLINA Cont'd

Washington County
Plymouth 29 1555EST 0 0 0 0 **Thunderstorm Winds**

Thunderstorm winds blew down trees and power lines in Plymouth.

Onslow County
1 W Jacksonville 29 1740EST 0.1 30 0 0 0 0 **Tornado (F0)**

A small tornado touched down briefly about 1 mile west of Jacksonville. The tornado blew down trees and damaged some corn and tobacco in the area.

Franklin County
Justice 30 1930EST 0 0 0 0 **Thunderstorm Winds**

Nash County
Nashville 30 2000EST 0 0 0 0 **Thunderstorm Winds**
Hail (1.00)

Nash County
Rocky Mount 30 2005EST 0 0 3 0 **Thunderstorm Winds**

Edgecombe County
Southeast 30 2040EST 0 0 0 0 **Thunderstorm Winds**

Thunderstorm winds blew down trees and power lines in Franklin, Nash, and Edgecombe counties. The roof of a school was damaged in Sharpsburg. Dime-size hail was reported in the area.

NORTH DAKOTA

Ransom County
8 E Enderlin 01 1836CST 0 0 0 0 **Hail (1.50)**

Cass County
7 W Argusville 01 2122CST 0 0 0 0 **Hail (0.75)**

Foster County
Glenfield 11 1630CST 0 0 0 0 **Hail (1.00)**

Steele County
45 SW Grand Forks 11 1751CST 0 0 0 0 **Funnel Cloud**

Finley 11 1823CST 0 0 0 0 **Hail (0.75)**

Nelson County
Aneta 11 1743CST 0 0 0 0 **Funnel Cloud**

Griggs County
6 NE Sutton 11 1750CST 0 0 0 0 **Hail (1.25)**

LaMoure County
LaMoure 11 1855CST 0 0 0 0 **Funnel Cloud**

9 SE Litchville 11 1910CST **95 8-10 0 0 0 0 **Tornado (F0)**

1 N Adrian 11 1915CST **90 8 0 0 0 0 **Tornado (F0)**

Two brief tornado touchdowns occurred in northern LaMoure County, while a funnel cloud was sighted near the town of LaMoure. No damage was reported.

Barnes County
1 N Valley City 11 1940CST 0 0 0 0 **Hail (1.00)**

Cavalier County
10 S Langdon 11 1943CST 0 0 0 0 **Funnel Cloud**

Trail County
1 E Mayville 11 1950CST 0 0 0 0 **Hail (0.75)**

Cass County
Argusville 11 2110CST 0 0 0 0 **Hail (1.00)**

Horace 11 2120CST 0 0 0 0 **Thunderstorm Wind**

Winds blew down a 1-foot diameter tree in the town of Horace.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH DAKOTA Cont'd

Cavalier County 20 NE Langdon	18	1750CST							Funnel Cloud
Pembina County Walhalla	18	1815CST			0	0	5	5	Hail (1.75)
7 NW Cavalier	18	1845CST			0	0	5	5	Hail (0.75)
Crystal	18	1910CST							Funnel Cloud
1 S Hensel	18	1915CST **75		10	0	0	0	0	Tornado (F0)
St. Thomas	18	1935CST **75		10	0	0	0	0	Tornado (F0)
Drayton	18	1950CST			0	0	5	5	Hail (1.75)

Two brief tornado touch downs occurred in southern Pembina County. No damage was reported. Meanwhile, hail, heavy rain, and high wind ripped through a 3-mile-wide stretch of Pembina County, from Cavalier to Glasston to Drayton. The hail, up to golf ball-size, hammered crops to the ground, broke windows, and damaged roofs.

Dunn County 8 W Halliday	18	1851CST			0	0	0	0	Hail (0.75)
McKenzie County 5 E Keene	18	1855CST **50	10		0	0	4	4	Tornado (F0)

Brief tornado touchdown in a wheat field.

Stark County Dickinson (DIK)	18	1936CST			0	0	4	0	Thunderstorm Wind (G58)
5 E Dickinson	18	1945CST							Funnel Cloud
Dickinson	18	2000CST			0	0	4	0	Hail (0.75)
4 E Gladstone	18	2008CST			0	0	4	0	Thunderstorm Wind

A wind gust to 67 mph was recorded at the Dickinson (DIK) Airport. In the city of Dickinson, three-quarter-inch-size hail occurred with up to 2.50 inches of rain, flooding streets, and underpasses.

The strong winds spread into eastern Stark County, tipping over a tractor-semitrailer on Interstate 94, 4 miles east of Gladstone.

Mercer County Golden Valley	18	1940CST			0	0	6	6	Hail (3.50)
1 S Hazen	18	2003CST			0	0	6	6	Hail (1.75)
Dunn County Halliday	18	1945CST			0	0	6	6	Hail (1.50)
1 S Halliday	18	1945CST			0	0	4	4	Thunderstorm Wind (G52)

Hail, high winds, and heavy rains, up to 5 inches in 45 minutes, battered crops and flooded fields in Dunn, Mercer, and Oliver counties. The 2-mile-wide path of destruction extended from west of Halliday southeastward to Hanover. Over 100,000 acres of crops were destroyed. The hail was banked 2-feet high against some houses. The hail also broke windows and damaged rooftops, while the high winds overturned vehicles.

McLean County 6 S Ryder	18	1945CST			0	0	4	4	Hail (0.75)
Oliver County 6 W Hanover		2010CST- 2020CST	6.0	25-95	0	1	5	5	Tornado (F2)

A tornado sucked a 16-year-old boy out of the window of a mobile home in Hanover and threw him 50 feet away. Fortunately, he suffered only minor injuries. The tornado then picked up the mobile home and tossed it over a shed. The mobile home was smashed upon impact with the ground, and wreckage was scattered over a 100-yard radius. The tornado began about 6 miles west of Hanover, picking up cattle and tossing them 6 miles away. Up to 6 inches of rain also fell in the area of the tornado, drowning pets.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH DAKOTA Cont'd

Grand Forks County									
1 S Arvilla	19	1830CST							Funnel Cloud
Cass County									
Mapleton	19	1900CST			0	0	0	0	Hail (2.00)
3 W Fargo	19	1909CST			0	0	0	0	Hail (1.00)
Horace	19	1924CST **75	10		0	0	0	0	Tornado (F0)
Hickson	19	1942CST			0	0	0	0	Hail (1.00)

Hail was widespread over east-central Cass County, mainly to the west, south, and north of the city of Fargo. A brief tornado touchdown was sighted in Horace, causing no damage.

Grand Forks County									
Grand Forks AFB	21	1330CST			0	3	0	0	Lightning
Barnes County									
Valley City	25	1645CST			0	0	4	4	Thunderstorm Wind (G52)

Three enlisted men were injured by lightning while working outside on vehicles.

Winds toppled two tractor-semitrailers on Interstate 94.

Williams County									
Grenora	26	1935CST			0	0	0	0	Hail (0.75)
Williston	26	1954CST			0	0	4	0	Thunderstorm Wind (G57)
Williston (ISN)	26	1954CST			0	0	4	0	Thunderstorm Wind (G57)
	26	2007CST			0	0	0	0	Hail (0.75)

Wind gusts to 66 mph and three-quarter-inch hail were observed at the Weather Service Office in Williston.

The winds also occurred in the city of Williston; blew down trees and power lines, and destroyed signs and billboards.

McKenzie County									
Watford City	26	2015CST			0	0	5	5	Hail (2.75)
25 NE Watford City	26	2025CST			0	0	4	0	Thunderstorm Wind

High winds destroyed mobile homes at a resort. In Watford City, hail damaged vehicles, rooftops, and surrounding cropland.

Williams County									
20 E Williston	26	2059CST			0	0	6	6	Thunderstorm Wind (G52)
26 E Williston	26	2116CST			1	1	6	6	Thunderstorm Wind (G61)
Tioga	26	2130CST			0	0	4	4	Thunderstorm Wind

High winds followed a path along Lake Sakakawea smashing trailers, damaging farm buildings, tipping over irrigation systems, uprooting trees, and eroding fields.

High winds in the town of Tioga downed trees.

One camper-trailer, 26 miles east of Williston, was blown down a 40-foot embankment, injuring two occupants inside. One died later of his injuries. M49V.

Mountrail County									
5 S White Earth	26	2030CST **85	10		0	0	0	0	Tornado (F0)
7 S Ross	26	2045CST-							
		2100CST	1.0	75	0	0	5	4	Tornado (F1)
3 W Stanley	26	2155CST **75		8	0	0	0	0	Tornado (F0)

A tornado touched down 5 miles south of White Earth, destroying a barn. Another tornado touched down 7 miles south of Ross and destroyed barns, corrals, and grain bins, downed trees and power lines, and killed animals.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH DAKOTA Cont'd

Dunn County									
10 N Killdeer	26	2130CST			0	0	4	4	Hail (1.00)
3 E Dunn Center	26	2150CST	0.1	50	0	0	4	4	Tornado (F0)
3 E Dunn Center	26	2150CST			0	0	0	0	Hail (0.75)
3 E Halliday	26	2230CST **90		15	0	0	0	0	Tornado (F0)

A tornado 3 miles east of Dunn Center destroyed a grain bin and damaged corrals. Another tornado was sighted 3 miles east of Halliday.

McLean County									
Roseglen	26	2208CST			0	0	0	0	Thunderstorm Wind (G51)

The winds damaged boats and docks at a nearby lake resort.

Mercer County									
Beulah	26	2247CST			0	0	5	0	Thunderstorm Wind (G63)
Hazen	26	2250CST			0	0	5	0	Thunderstorm Wind

Winds blew down trees and damaged homes and buildings throughout the Beulah-Hazen area. The winds also blew a sheriff's car off the highway.

Morton County									
4 W New Salem	26	2330CST			0	0	4	0	Thunderstorm Wind
1 SW Mandan	27	0140CST			0	0	0	0	Hail (1.00)

Winds collapsed a large barn 4 miles west of New Salem.

McKenzie County									
2 SE Alexander	27	2100CST			0	0	4	4	Thunderstorm Wind

High winds moved two 1,000-bushel steel grain bins a half a mile away.

Golden Valley County									
Beach	27	2320CST			0	0	0	0	Thunderstorm Wind (G52)
30 SE Beach	27	2355CST			0	0	4	0	Thunderstorm Wind

Winds destroyed farm buildings and rolled a feed wagon one-quarter of a mile.

Slope County									
10 N Marmarth	27	2342CST			0	0	0	0	Thunderstorm Wind (G50)
Stark County									
Belfield	28	0000CST			0	0	4	0	Thunderstorm Wind (G61)
Dickinson (DIK)	28	0005CST			0	0	4	0	Thunderstorm Wind (G66)
Dickinson (DIK)	28	0058CST			0	0	4	0	Thunderstorm Wind (G62)

Strong winds occurred over western and central Stark County. At the Dickinson Airport a gust to 76 mph was recorded at 0005 CST, the winds then diminished; then another gust to 70 mph was recorded at 0058 CST.

The winds downed trees and power lines, tore off roofs, and destroyed barns.

Billings County									
7 E Medora	28	0015CST			0	0	4	4	Hail (2.00)

Hail broke car windows and windshields at the Painted Canyon Visitor Center.

Grant County									
Elgin	28	0110CST			0	0	0	0	Thunderstorm Wind (G52)

NDZ003-004-007-008
Billings, Dunn,
Stark, Hettinger,
Slope, Grant,

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

NORTH DAKOTA Cont'd

Morton, Burleigh, Emmons Counties

28 0000CST-0500CST						0	1	6	5	High Winds
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High winds followed a line of severe thunderstorms through parts of southeast and south-central North Dakota. Wind gusts to 60 mph were common with gusts over 80 mph in a few locations. At 0007 CST, a gust to 90 mph was recorded at a power station in New England (Hettinger County).

The winds destroyed trailers, garages and barns, blew out windows and doors, downed trees and power lines, destroyed granaries, damaged campground facilities, tipped over boats on Lake Tschida, and flattened highway signs.

A girl was injured by an exploding window at a campground on the south shore of Lake Tschida.

Rolette County

Belcourt
3 W Rolla

28 1310CST										Funnel Cloud
28 1320CST **20			5	0	0	0	0	0	0	Tornado (F0)

Towner County

1 N Rock Lake
8 S Hansboro

28 1317CST **20										Tornado (F0)
28 1320CST										Funnel Cloud

Pilot in the air observed a tornado touching down, then immediately returning back into the clouds.

Williams County

Trenton
2 SW Williston
5 SE Williston

28 1925CST						0	0	4	4	Hail (1.00)
28 1936CST						0	0	4	4	Thunderstorm Wind (G71)
28 1940CST						0	0	5	0	Lightning

A wind gust to 82 mph occurred. The winds damaged the roof of a water plant building.

Lightning struck and burned down a house 5 miles southeast of Williston.

McKenzie County

Alexander
5 N Watford City
Watford City

10 SSW Williston
Watford City
Alexander

28 1949CST						0	0	5	5	Hail (1.00)
28 1959CST										Funnel Cloud
28 2006CST						0	0	5	5	Hail (1.00)
						0	0	3	0	Thunderstorm Wind (G57)
28 2035CST						0	0	3	0	Thunderstorm Wind (G62)
28 2205CST						0	0	5	5	Hail (1.75)
28 2235CST						0	0	5	5	Hail (1.00)

Hail and high winds were widespread over northern McKenzie County. The hail punched holes in sidings and wiped out crops. Over 80,000 acres of cropland in McKenzie County was severely damaged in three successive nights of hailstorms.

Mercer County

1 S Stanton
4 N Hazen

28 2245CST						0	0	4	4	Hail (1.75)
28 2323CST						0	0	4	4	Hail (1.75)

Dunn County

5 NW Halliday

28 2250CST						0	0	4	4	Hail (1.00)
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Stark County

2 E Dickinson

29 0205CST						0	0	4	4	Hail (1.75)
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(DIK)

4 SE Dickinson

29 0225CST						0	0	4	4	Hail (2.50)
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(DIK)

Taylor

29 0240CST						0	0	4	4	Hail (1.75)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO

Pike County Piketon	01	0000EST- 0400EST			0	0	4	4	Flood
The Scioto River at Piketon went into flood during the end of May and continued above flood stage until early on the 1st of June. The river's highest level in June was 17.8 feet at 0000 EST.									
Miami County	02	1730EST			0	0	4	0	Thunderstorm Wind
Trees and power lines were blown down across the county.									
Mercer County Celina	02	2100EST			0	0	4	0	Thunderstorm Wind
Williams County	02	2129EST			0	0	4	?	Hail (0.75)
Williams County	02	2145EST			0	0	4	0	Thunderstorm Wind
Fulton County	02	2155EST			0	0	4	0	Thunderstorm Wind
Fulton County	02	2155EST			0	0	4	?	Hail (0.75)
Putnam County Columbus Grove	02	2200EST			0	0	4	?	Hail (0.75)
Sandusky County Fremont	02	2243EST			0	0	4	0	Thunderstorm Wind
Wood County Bowling Green	02	2320EST			0	0	4	0	Thunderstorm Wind
Ottawa County	02	2345EST			0	0	4	0	Thunderstorm Wind
Erie County Bay View	03	0010EST			0	0	4	0	Thunderstorm Wind
Brown County Mount Orab	03	0030EST			0	0	4	0	Thunderstorm Wind
Belmont County Barnesville	03	0145EST			0	0	4	0	Thunderstorm Wind

Thunderstorms moved through Ohio dropping three-quarter-inch diameter hail and producing strong winds which downed trees and power lines in many locations. A wall was blown down in Celina, a barn was destroyed near Bowling Green, and a chicken house was destroyed in Barnesville.

**Hamilton, Butler,
Warren Counties
Harrison to
1 SW Mason**

	02	2214EST- 2305EST	26.00	1350	0	16	7	0	Tornado (F4)
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A tornado developed 2 miles west of Bright, Indiana and crossed into Ohio at 2214 EST. In Hamilton County the tornado moved through Harrison, Crosby Township, and New Baltimore destroying 32 homes and five businesses. Between 800 and 900 homes, 31 businesses, and three schools were damaged in Hamilton County. The tornado was the strongest in Harrison where some homes were taken down to the foundation. Two 18-inch wide, 75-foot long and five-eighth-inch steel beams were twisted to the ground at a waffle house in Harrison. These beams were developed to withstand straight-line winds of 250 mph. The tornado lifted just northeast of New Baltimore then set back down in Colerain Township near Pippen Road. It moved through a populated residential area and crossed into Butler County at 2245 EST. It moved through the southern part of the city of Fairfield and then across the southeast corner of Butler County. Nineteen homes and four mobile homes were destroyed. Fifty-eight homes, 22 mobile homes, and five apartment buildings were damaged. The tornado then crossed into southwest Warren County at 2300 EST and lifted about 1 mile southwest of Mason. Minor damage occurred to homes and buildings.

**Clinton County
Clarksville**

	02	2345EST- 2346EST	1.0	50	0	0	0	0	Tornado (F0)
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A tornado touched down near Clarksville damaging trees and a few homes.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO Cont'd

Clermont County 2 NE Moscow to Saltair	03	0050EST- 0100EST	4	200	0	0	5	0	Tornado (F2)
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A tornado touched down at the intersection of Routes 232 and 756 along Big Indiana Creek. It then moved northeast and lifted along Route 222 just south of Saltair. Three mobile homes, numerous barns, and some outbuildings were destroyed. Five homes and some barns were damaged.

Lucas County									
Holland	03	1553EST			0	0	4	0	Thunderstorm Wind
Toledo	03	1605EST			3	1	4	0	Thunderstorm Wind
Ottawa County									
South Bass Island	03	1640EST			0	0	4	0	Thunderstorm Wind
Mercer County	03	1700EST			0	0	4	0	Thunderstorm Wind
Putnam County									
Pandora	03	1702EST			0	0	4	0	Thunderstorm Wind
Darke County	03	1715EST			0	0	4	0	Thunderstorm Wind
Preble County	03	1721EST			0	0	4	0	Thunderstorm Wind
Shelby County	03	1721EST			0	0	5	0	Thunderstorm Wind
Erie County									
1 E Sandusky	03	1724EST			0	0	4	0	Thunderstorm Wind
Huron County									
Norwalk	03	1738EST			0	0	4	0	Thunderstorm Wind
Marion County	03	1750EST			0	0	5	0	Thunderstorm Wind
Lorain County									
Oberlin, Elyria & Grafton	03	1755EST			0	0	4	0	Thunderstorm Wind
Montgomery County									
Butler Township	03	1800EST			0	0	4	0	Thunderstorm Wind
Union County									
Marysville	03	1800EST			0	0	4	0	Thunderstorm Wind
Cuyahoga County									
University Heights, Cleveland Heights, Berea & North Olmsted	03	1820EST			0	0	4	0	Thunderstorm Wind
Medina County	03	1830EST			0	0	4	0	Thunderstorm Wind
Geauga County	03	1840EST			0	0	4	0	Thunderstorm Wind
Lake County	03	1840EST			0	0	4	0	Thunderstorm Wind
Ashtabula County									
Ashtabula	03	1900EST			0	0	4	0	Thunderstorm Wind
Wayne County									
Wooster	03	1905EST			0	0	4	0	Thunderstorm Wind
Delaware County									
2 W Delaware	03	1915EST			0	0	4	0	Thunderstorm Wind
Portage County									
Ravenna	03	1915EST			0	0	4	0	Hail (0.75)
Summit County									
Cuyahoga Falls	03	1915EST			0	0	4	0	Thunderstorm Wind
Wayne County	03	1915EST			0	0	4	0	Thunderstorm Wind
Trumbull County									
Hubbard	03	1920EST			0	0	4	0	Thunderstorm Wind
Madison County									
2 E Springfield	03	1930EST			0	0	4	0	Thunderstorm Wind
Portage County	03	1930EST			0	0	4	0	Hail (0.75)
Stark County									
Massilon	03	1930EST			0	0	4	0	Thunderstorm Wind
Mahoning County	03	1940EST			0	0	4	0	Thunderstorm Wind
Summit County									
Lakemore	03	1940EST			0	0	4	0	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1990

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

OHIO Cont'd

Thunderstorms developed over northwestern Ohio during the afternoon and raced across the northern half of the state producing widespread wind damage and large hail. A mother and her two children were killed and the father was injured when a tree was blown over onto their minivan in Toledo. Trees and power lines were blown down at numerous locations in northern Ohio. A fertilizer plant was damaged in Shelby County and a home lost its roof in western Marion County. Some homes were damaged in Massilon in Stark County. Thunderstorm Winds (F36V MO6V FOOV).

Clermont County Moscow & Neville	06	1735EST			0	0	4	0	Thunderstorm Wind
Highland County Hillsboro	06	1740EST			0	0	4	0	Thunderstorm Wind
Belmont County Warnock	06	1945EST			0	0	4	0	Thunderstorm Wind

Thunderstorms moved through southern Ohio blowing down trees and power lines.

Madison, Fairfield, 08 Pickaway Counties	08	0500EST- 0615EST			0	0	4	?	Urban & Small Stream Flooding
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Nearly 3 inches of rain fell causing small streams and creeks to flood. Roads were flooded, drainage systems backed up, and basements flooded.

Richland County 2 E Mansfield	08	1110EST			0	0	5	0	Thunderstorm Wind
Coshocton County New Princeton	08	1200EST			0	0	5	0	Thunderstorm Wind

Thunderstorms blew down trees and power lines in both counties. A barn lost its roof east of Mansfield and a barn and outbuilding were destroyed in New Princeton.

Knox County Bladensburg	08	1530EST			0	0	4	0	Thunderstorm Wind
Licking County 5 W Utica	08	1530EST			0	0	5	?	Hail (2.00)
Coshocton County Adams Mills	08	1620EST			0	0	4	?	Hail (1.00)
Guernsey County Cambridge	08	1700EST			0	0	4	?	Hail (1.00)
Richland County 5 N Mansfield	08	1711EST	1.0	20	0	0	3	0	Tornado (F0)

A tornado touched down briefly and damaged some trees.

Hardin County Kenton	08	1715EST			0	0	4	?	Hail (0.88)
Muskingum County Zanesville	08	1715EST			0	0	4	?	Hail (0.75)
Guernsey County 2 W Quaker City	08	1739EST			0	0	5	?	Hail (2.00)
Wayne County West Salem	08	1745EST			0	0	4	?	Hail (1.00)
Wooster	08	1800EST- 1900EST			1	1	0	0	Urban & Small Stream Flooding
Delaware County Jerome	08	1820EST			0	0	4	?	Hail (0.75)
Union County 1 SW Marysville	08	1820EST			0	0	4	?	Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO Cont'd

Logan County									
1 SE Bellefontaine	08	1825EST			0	0	4	?	Hail (0.75)
West Mansfield	08	1825EST			0	0	4	0	Thunderstorm Wind
Delaware County									
Bowel	08	1832EST			0	0	4	?	Hail (1.00)
Franklin County									
2 E Worthington	08	1845EST			0	0	4	?	Hail (1.00)
Licking County									
Pataskala	08	1925EST			0	0	4	?	Hail (0.75)
Franklin County									
1 SE Worthington	08	2007EST			0	0	4	?	Hail (0.75)
Gahanna									
Whitehall	08	2020EST			0	0	4	?	Hail (0.75)
Licking County									
Flint Ridge	08	2025EST			0	0	4	?	Hail (0.75)
Delaware County									
5 S Delaware	08	2050EST			0	0	4	?	Hail (1.00)
Muskingum County									
Zanesville	08	2055EST			0	0	4	?	Hail (1.00)
Delaware County									
Muirfield	08	2115EST			0	0	4	0	Hail (0.75)
Muskingum County									
2 E Zanesville	08	2120EST			0	0	4	?	Hail (1.00)
Champaign County									
2 E Mutual	08	2228EST			0	0	4	?	Hail (1.00)
Madison County									
London	08	2250EST			0	0	4	?	Hail (0.75)
Gallia County									
Gallipolis	08	2340EST			0	0	5	0	Thunderstorm Wind

Thunderstorms developed across central Ohio and produced excessive amounts of hail up to 2 inches in diameter in many areas. Trees and power lines were also blown down in Bladensburg and Gallipolis. Buildings were also damaged in Gallipolis. One man was killed and another was injured when they were swept into Little Apple Creek in Wooster. Flood M200.

Logan & Champaign Counties	08	1630EST-1800EST			0	0	4	0	Urban & Small Stream Flooding
Hancock & Wyandot Counties	08	1715EST-1815EST			0	0	4	0	Urban & Small Stream Flooding
Crawford & Hardin Counties	08	1720EST-1830EST			0	0	5	0	Urban & Small Stream Flooding
Ashland & Richland Counties	08	1730EST-1845EST			0	0	4	0	Urban & Small Stream Flooding

Nearly stationary thunderstorms dropped 1 to 3 inches of rain in only a short period of time. This caused many small streams and creeks to overflow, roads to flood, sewer systems to back up, and basement flooding. Several of the roads were impassable.

Union & Delaware Counties	08 09	2000EST-0900EST			0	0	6	5	Urban & Small Stream Flooding
Franklin County	08 09	2100EST-0900EST			0	0	6	5	Urban & Small Stream Flooding
Licking County	08 09	2100EST-0900EST			1	1	6	5	Urban & Small Stream Flooding

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO Cont'd

Fairfield County	08	2130EST-							
	09	0900EST			0	2	6	5	Urban & Small Stream Flooding
Perry & Muskingum Counties	08	2200EST-			0	0	6	5	Urban & Small Stream Flooding
	09	0900EST			0	0	6	5	Stream Flooding

Three to six inches of rain fell over central Ohio causing numerous streams, rivers, and creeks to flood. Roads were flooded and impassable in many areas. Some roads and bridges were washed out and damaged. Two people were swept over a dam while riding an innertube on the North Fork of the Licking River. One man drowned and the other was injured. In Pickerington, two boys were injured when the rising waters of Sycamore Creek carried them downstream. They were carried into a tree and were later rescued. Nearly 10,000 people, around Buckeye Lake, were evacuated when a retaining wall broke allowing the lake to empty into parts of Licking, Perry, and Fairfield counties. Flooding (M210).

Marion County LaRue	09	0100EST-							
	10	1500EST			0	0	0	0	Flood
Pickaway Circleville	09	0800EST-			0	0	5	4	Flood
	12	0330EST							
Hocking County Enterprise	09	1900EST-			0	0	4	4	Flood
	11	1130EST							
Hancock County Findlay	10	1300EST-			0	0	0	0	Flood
	11	0400EST							
Pike County Piketon	11	0800EST-			0	0	4	4	Flood
	13	1300EST							

The Scioto River flooded at LaRue. The crest was 11.7 feet at 0700 EST on the 9th. This was seven-tenths of a foot above flood stage. The Scioto River also flooded at Circleville and crested at 19.6 feet at 2200 EST on the 11th. This was 5.6 feet above flood stage. At Enterprise, the Hocking River crested at 13.6 feet at 1600 EST on the 10th. This was 1.6 feet above flood stage. The Blanchard River, at Findlay, rose to 10.3 feet at 1900 EST on the 10th. This was three-tenths of a foot above flood stage. At Piketon, the Scioto River rose to 18.5 feet at 0900 EST on the 12th. This was 2.3 feet above flood stage.

Madison County Madison Lake	14	1646EST							Lightning
West Jefferson	14	1730EST-			0	0	5	4	Urban & Small Stream Flooding
		1930EST							

A thunderstorm dropped nearly 3 inches of rain in and around West Jefferson causing urban and small stream flooding. Portions of Olmsted, West Jefferson, and Kiousville were washed out. Many homes and businesses were flooded and some evacuations occurred in West Jefferson. Two women were injured when struck by lightning at Madison Lake.

Warren County Middleboro & Pleasant Plain	14	1710EST							Thunderstorm Wind
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Thunderstorms blew a roof off a barn and overturned a tractor in Middleboro, and blew down trees in Pleasant Plain.

Franklin County	14	1730EST-							Urban & Small Stream Flooding
		2000EST			0	0	5	4	
Licking County	14	1730EST-			0	0	6	4	Urban & Small Stream Flooding
		2000EST							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO Cont'd

Fairfield, Perry, Muskingum and Pickaway Counties	14	1800EST- 2130EST			0	0	5	4	Urban & Small Stream Flooding
Ross, Hocking & Vinton Counties	14	1830EST- 2130EST			0	0	5	4	Urban & Small Stream Flooding
Guernsey, Noble, Morgan & Athens Counties	14	1900EST- 2200EST			0	0	5	4	Urban & Small Stream Flooding
Jefferson & Harrison Counties	14 15	1900EST- 1200EST			0	?	7	5	Urban & Small Stream Flooding

Thunderstorms dropped up to 4 inches of rain causing widespread urban and small stream flooding. Many streams and creeks rose out of their banks and flooded homes, businesses, and roads. Some roads and bridges were damaged. Many vehicles were stranded by high water. The town of Newark, in Licking County, had nearly 8 feet of water in some downtown areas as the Licking River and its feeder streams flooded. Georgetown and Harrisville in Harrison County, and Dillonvale and Adena in Jefferson County experienced severe flooding when Short Creek and its tributaries flooded. Hundreds of people were evacuated from Adena and Dillonville. Property damage in these counties was between \$10 and \$15 million.

Belmont County	14	2015EST- 2130EST			26	?	7	4	Flash Flood
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Thunderstorms developed over east-central Ohio and dropped 3 to 4 inches of rain on the headwaters of Pipe and Wegee Creeks, and Cumberland Run in less than one hour. Soils in this area were already saturated from nearly 200% of normal rainfall that fell during May and continued heavy rain during the first half of June. The excessive rainfall resulted in almost instantaneous runoff and landslides that developed into a wall of mud, water, and debris that raced downstream. The wall of water grew to between 15- and 20-feet high and from 100- to 300-feet wide at some points on Pipe and Wegee Creeks. Many homes, businesses, and vehicles were swept downstream and into the Ohio River. Property damage was between \$6 and \$8 million. Twenty-six people were killed and many were injured. The flash flood on Wegee Creek killed 12 people upstream from Shadyside. Another 12 people were killed on Pipe Creek upstream from Dilles Bottom, and two people were killed on Cumberland Run upstream from Stewartsville. Many of the bodies were found in the Ohio River. Two bodies were found in the debris about 30 miles downstream at the Hannibal Locks & Dam on the Ohio River. The debris covered about 7 acres of water. Flash Flood F67P M78P M190 M51M F26M M08M M06M F83P M29P F26P M59P F61P M08M M10M F35M M30M F27M F07P M72P F12P F44P M06M F05M M55P F53P

Highland County I N Fairfax	22	0840EST			0	0	4	0	Thunderstorm Wind
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Trees were blown down on Union Road.

Wyandot County Carey	22	1655EST			0	0	4	0	Thunderstorm Wind
Butler County	22	1725EST			0	0	4	0	Thunderstorm Wind
Huron County Willard	22	1755EST			0	0	4	0	Thunderstorm Wind
Fayette County Washington C.H.	22	1800EST			0	0	4	0	Thunderstorm Wind
Clermont County I W Lindale	22	1810EST			0	0	4	0	Thunderstorm Wind
Brown County Crosstown	22	1820EST			0	0	4	0	Thunderstorm Wind
Adams County	22	1840EST			0	0	4	0	Thunderstorm Wind
					0	0	4	?	Hail (1.00)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OHIO Cont'd

Pike County	22	1850EST			0	0	4	0	Thunderstorm Wind Hail (1.00)
Holmes County					0	0	4	?	
1 N Nashville	22	1935EST			0	0	4	0	Thunderstorm Wind
Wayne County					0	0	4	0	Thunderstorm Wind
Orville	22	2005EST			0	0	4	0	Thunderstorm Wind
Noble County					0	0	4	0	Thunderstorm Wind
Kinbolton	22	2030EST			0	0	4	0	Thunderstorm Wind
Stark County					0	0	4	0	Thunderstorm Wind
Brewster	22	2040EST			0	0	4	0	Thunderstorm Wind
Portage County					0	0	4	0	Thunderstorm Wind
Kent & Ravenna	22	2050EST			0	0	4	0	Thunderstorm Wind
Summit County					0	0	5	0	Thunderstorm Wind
Green Township	22	2130EST			0	0	5	0	Thunderstorm Wind

Thunderstorms developed across many parts of Ohio during the afternoon and evening. Strong winds blew down trees and power lines in many locations and large hail fell. A house lost its roof in Green Township of Summit County. A barn was destroyed in Washington Court House.

Fairfield County Sugar Grove to 2 W Geneva

22	1900EST- 1910EST	6.0	100	0	1	5	0	Tornado (F1)
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A tornado touched down in the city of Sugar Grove and moved northeast through rural areas of southeastern Fairfield County. It lifted back into the parent thunderstorm about 2 miles west of Geneva. A mobile home and garage were destroyed and a barn was damaged on Swartsmill Road in Sugar Grove. Trees and power lines were blown down along the path.

Morrow & Richland Counties

22	1900EST- 1925EST	23.0	200	0	1	6	0	Tornado (F2)
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A tornado touched down in North Woodbury and traveled northeast across Morrow and Richland counties. It lifted about 2 miles southeast of Lucas. The tornado was on the ground for much of its life and destroyed or damaged many homes, barns, and outbuildings. Since the area was heavily forested thousands of trees were damaged or blown over. The tornado crossed Interstate 71 about 2 miles west of Bellville, in Richmond county.

Licking County Johnson to 2 SW Homer

22	1925EST- 1935EST	8.0	100	0	0	5	0	Tornado (F1)
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A tornado touched down in Johnstown damaging homes and businesses for about 1 mile. It lifted and traveled northeast and touched down a second time at a farm just north of the intersection of Route 657 and 62, on Lafayette Road. A barn and two grain bins were damaged along with trees.

Monroe County 3 W Woodsfield

22	2000EST	1.0	50	0	0	4	0	Tornado (F0)
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A tornado touched down briefly 3 miles west of Woodsfield. One house, trees, and power lines were damaged.

Montgomery County 27 1630EST- 1800EST

0	0	4	0	Urban & Small Stream Flooding
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Miami County 27 1700EST- 1830EST

0	0	4	0	Urban & Small Stream Flooding
0	0	4	0	Urban & Small Stream Flooding

Thunderstorms produced 2 to 3 inches of rain in and around the city of Dayton in about one hour. Many streets in Dayton and Troy were flooded, cars were stranded, and small streams flooded.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

OHIO Cont'd

Lorain County Oberlin	30	1520EST 1520EST			0	0	4	0	Thunderstorm Wind Hail (0.75)
Medina County Lodi, Medina & Wadsworth	30	1620EST			0	0	4	0	Thunderstorm Wind
Butler County Middletown	30	1630EST			0	0	6	?	Hail (2.75)
Preble County Eaton	30	1635EST			0	0	4	?	Hail (0.75)
Summit County Norton	30	1640EST			0	0	4	?	Hail (0.75)
Warren County Blue Ball	30	1645EST			0	0	4	?	Hail (0.75)
Franklin	30	1705EST			0	0	6	?	Hail (4.00)
Waynesville	30	1705EST			0	0	4	0	Thunderstorm Wind
Greene County Xenia	30	1710EST			0	0	4	0	Thunderstorm Wind
Stark County Massillon & Beach City	30	1710EST			0	0	4	?	Hail (1.00)
Montgomery County Miamisburg & Centerville	30	1714EST			0	0	4	0	Thunderstorm Wind
Greene County Jamestown	30	1727EST			0	0	4	0	Thunderstorm Wind
Montgomery County Oakwood	30	1727EST			0	0	4	0	Thunderstorm Wind
Kettering	30	1727EST			0	0	4	0	Thunderstorm Wind
Hamilton County Wilmington	30	1730EST			0	0	4	0	Thunderstorm Wind
Tuscarawas County Strausburg	30	1745EST			0	0	4	?	Hail (1.00)
Highland County 5 S Hillsboro	30	1812EST			0	0	4	0	Thunderstorm Wind
Trumbull County Hubbard	30	1830EST			0	0	4	?	Hail (0.75)
Washington County Little Hocking	30	1850EST			0	0	4	?	Hail (0.75)
Little Hocking	30	1850EST			0	0	4	0	Thunderstorm Wind
Van Wert County Van Wert	30	1925EST			0	0	5	?	Hail (1.75)
Logan County 5 N Bellefontaine	30	2050EST			0	0	4	0	Thunderstorm Wind
Delaware County Powell	30	2118EST			0	0	4	0	Thunderstorm Wind
Franklin County Westerville	30	2155EST			0	0	4	0	Thunderstorm Wind
Knox County 5 W Martinsburg	30	2155EST			0	0	4	0	Thunderstorm Wind
Delaware County Genoa Township	30	2155EST			0	0	4	0	Thunderstorm Wind
Licking County New Albany	30	2220EST			0	0	4	0	Thunderstorm Wind

Thunderstorms developed across Ohio during the afternoon and evening. Strong winds blew down trees and power lines and large hail fell at many locations. Hail the size of baseballs to softballs fell in Middletown and Franklin creating widespread damage to windows, cars, and trees. Hail the size of golf balls damaged windows and cars in Van Wert.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OKLAHOMA

Jackson County Duke	01	0810CST			0	0	?	?	Hail (1.75)
A thunderstorm in southwestern Oklahoma produced hail up to the size of golf balls.									
Carter County Ardmore	03	Early morning			0	0	4	?	Lightning
A carpet store was struck by lightning, and the resultant fire caused \$6,000 in damage.									
Washington County 8 N Coplan	08	0000CST			0	0	?	?	Thunderstorm Wind (G61)
A thunderstorm in northeastern Oklahoma produced strong winds.									
Canadian County 2 N Union City	09	0555CST			0	0	?	?	Hail (0.75)
Tulsa County Near Leonard	09	0645CST			0	0	?	5	Thunderstorm Wind (G57)
Major County 3 NE Fairview	09	1145CST			0	0	?	?	Hail (0.75)
Dewey County 3 NNW Putnam	09	1350CST			0	0	?	?	Hail (0.88)
Custer County 4 SW Weatherford	09	1605CST			0	0	?	?	Hail (1.00)
Washita County 3 E Corn	09	1635CST			0	0	?	?	Hail (1.75)
Washita County 1 SW Dill City	09	1750CST			0	0	?	?	Hail (0.75)
Texas County 6 South of Guymon	09	1948CST			0	0	?	?	Hail (1.75)
Thunderstorms produced large hail and strong winds. In Tulsa County, a thunderstorm produced strong winds which resulted in \$80,000 damage to a wheat crop near Leonard.									
Harper County 3 S Laverne	13	1805CST			0	0	?	?	Hail (0.75)
Harper County 7 NE Buffalo	13	1838CST			0	0	?	?	Hail (1.25)
Thunderstorms in extreme northwestern Oklahoma produced half-dollar-size hail.									
Beaver County Beaver	14	1511CST			0	0	?	?	Hail (1.75)
A thunderstorm in the Oklahoma Panhandle produced golf ball-size hail in the city of Beaver.									
Osage County Nr Sand Springs	18	0620CST			0	0	?	?	Hail (1.75)
Tulsa County Sand Springs	18	0625CST			0	0	?	?	Hail (1.75)
Early-morning thunderstorms in northeastern Oklahoma produced golf ball-size hail in and near Sand Springs.									
Canadian County 11 NW Calumet	21	0200CST			0	0	?	?	Hail (0.88)
An early-morning thunderstorm in central Oklahoma produced nickel-size hail.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OKLAHOMA Cont'd

Osage County 1 SW Bartlesville	21	1403CST			0	0	?	?	Hail (1.75)
Kay County 12 E Newkirk	21	1405CST			0	0	?	?	Hail (1.25)
Washington County 1 S Bartlesville	21	1415CST			0	0	?	?	Hail (0.75)
Kay County Tonkawa	21	1423CST			0	0	?	?	Hail (1.00)
Nowata County 10 NW Nowata	21	1444CST	0.10	20	0	0	?	?	Tornado (F0)
Rogers County 5 E Oologah	21	1445CST			0	0	?	?	Hail (0.75)
Nowata County 6 NE Childers	21	1452CST	0.25	50	0	0	?	?	Tornado (F1)
Beaver County Beaver	21	1455CST			0	0	?	?	Thunderstorm Wind
Noble County 3 NE Marland	21	1500CST			0	0	?	?	Hail (0.75)
Osage County Fairfax	21	1510CST			0	0	?	?	Hail (0.75)
Rogers County Chelsea	21	1515CST			0	0	?	?	Thunderstorm Wind (G52)
Rogers County Chelsea	21	1515CST			0	0	?	?	Hail (1.75)
Craig County 2 SE Centralia	21	1528CST	0.50	75	0	0	?	?	Tornado (F1)
Craig County White Oak	21	1550CST			0	0	?	?	Hail (0.75)
Craig County Welch	21	1603CST			0	0	?	?	Thunderstorm Wind (G52)
Woodward County 17 N Mooreland	21	1614CST			0	0	?	?	Thunderstorm Wind
Woods County Freedom	21	1615CST			0	0	?	?	Thunderstorm Wind (G52)
Washington County 1 E Ochelata	21	1615CST			0	0	?	?	Thunderstorm Wind
Woodward County Nr Mooreland	21	1630CST			0	0	?	?	Thunderstorm Wind (G56)
Rogers County Nr Oologah	21	1630CST			0	0	?	?	Hail (1.00)
Mayes County Langley	21	1637CST			0	0	?	?	Hail (1.75)
Grant County 3 SW Manchester	21	1637CST			0	0	?	?	Thunderstorm Wind (G52)
Woods County Waynoka	21	1645CST			0	0	?	?	Thunderstorm Wind
Woods County Alva	21	1645CST			0	0	?	?	Thunderstorm Wind (G78)
Roger Mills County 1 NW Durham	21	1700CST			0	0	?	?	Thunderstorm Wind (G52)
Ellis County 11 SE Harmon	21	1700CST			0	0	?	?	Thunderstorm Wind (G52)
Alfalfa County 1 W Burlington	21	1704CST			0	0	?	?	Thunderstorm Wind (G52)
Grant County Deer Creek	21	1727CST			0	0	?	?	Hail (0.75)
Major County 1 W Lahoma	21	1730CST			0	0	?	?	Thunderstorm Wind (G65)
Pawnee County 1.5 SW Fairfax	21	1730CST	0.10	20	0	0	?	?	Tornado (F0)
Rogers County Chelsea	21	1730CST- 1900CST			0	0	?	?	Flash Flood

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R I E D	P R O P E R T Y	C R O P S	

OKLAHOMA Cont'd

Garfield County Waukomis	21	1745CST			0	0	?	?	Thunderstorm Wind
Blaine County Okeene	21	1745CST			0	0	?	?	Thunderstorm Wind (G63)
Osage County Fairfax	21	1759CST			0	0	?	?	Thunderstorm Wind
Beckham County 5 NW Mayfield	21	1800CST			0	0	?	?	Thunderstorm Wind (G56)
Kingfisher County Kingfisher	21	1755CST			0	0	?	?	Thunderstorm Wind (G61)
Kingfisher County Hennessey	21	1800CST			0	0	?	?	Thunderstorm Wind (G70)
Kingfisher County Kingfisher	21	1805CST			0	0	?	?	Thunderstorm Wind (G61)
Kay County 3 NW Tonkawa	21	1806CST			0	0	?	?	Thunderstorm Wind
Logan County 1 NE Lovell	21	1809CST			0	0	?	?	Thunderstorm Wind (G65)
Noble County Perry	21	1810CST			0	0	?	?	Hail (0.75)
Roger Mills County 1 S Berlin	21	1810CST			0	0	?	?	Thunderstorm Wind (G52)
Pawnee County 2 N Ralston	21	1812CST	0.10	25	0	0	?	?	Tornado (F0)
Canadian County 6 N Piedmont	21	1814CST			0	0	?	?	Thunderstorm Wind (G52)
Logan County Crescent	21	1816CST			0	0	?	?	Thunderstorm Wind (G56)
Osage County 1 S Fairfax	21	1823CST			0	0	?	?	Thunderstorm Wind (G56)
Canadian County 1 SE Piedmont	21	1823CST			0	0	?	?	Thunderstorm Wind (G52)
Oklahoma County Oklahoma City	21	1835CST			0	0	?	?	Thunderstorm Wind (G52)
Payne County Perkins	21	1837CST			0	0	?	?	Thunderstorm Wind
Pawnee County 8 WNW Hominy	21	1838CST	0.50	50	0	0	?	?	Tornado (F1)
Payne County Stillwater	21	1845CST			0	0	?	?	Thunderstorm Wind
Osage County 1 W Hominy	21	1858CST			0	0	?	?	Thunderstorm Wind (G70)
Pawnee County Hallett	21	1858CST			0	0	?	?	Thunderstorm Wind (G65)
Lincoln County Chandler	21	1900CST			0	0	?	?	Thunderstorm Wind (G52)
Grady County Chickasha	21	1917CST			0	0	?	?	Thunderstorm Wind
Pawnee County 10 E Hallett	21	1919CST			0	0	?	?	Thunderstorm Wind (G70)
Creek County 1 W Sand Springs	21	1919CST			0	0	?	?	Thunderstorm Wind (G70)
Tulsa County 1 N Tulsa	21	1930CST			0	0	?	?	Thunderstorm Wind (G61)
Tulsa County S Tulsa	21	1939CST			0	0	?	?	Thunderstorm Wind (G61)
Washington County Ramona	21	1940CST			0	0	?	?	Hail (0.75)
Osage County Barnsdall	21	1945CST			0	0	?	?	Hail (0.75)
Wagoner County Oneta	21	1948CST			0	0	?	?	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K	I	P	C	

OKLAHOMA Cont'd

Washington County Bartlesville	21	1954CST			0	0	4	?	Lightning
Rogers County Claremore	21	2000CST			0	0	?	?	Thunderstorm Wind

Thunderstorms produced large hail, damaging winds, flash flooding, and six tornadoes. An F0 tornado touched down 10 miles northwest of Nowata, causing no known damage. An F1 tornado touched down 6 miles northeast of Childers and uprooted several large trees. A third tornado (F1) touched down 2 miles southeast of Centralia and uprooted several trees, downed power lines and poles. An F0 tornado touched down 1.5 miles southwest of Fairfax and another F0 tornado touched down 2 miles north of Ralston. A few uprooted trees were reported from both of these tornadoes. Finally, an F1 tornado touched down 8 miles west-northwest of Hominy, uprooting several large trees and downing several power poles.

Strong winds also accompanied the thunderstorms. In Beaver, minor roof damage was reported and several trailer homes were damaged. Power lines and large tree limbs were also downed. A school bus was damaged by flying debris 17 miles north of Mooreland. In Waukomis, several outbuildings were destroyed and several travel trailers were flipped over. Many roofs were damaged and windows broken. In Kingfisher, large tree limbs were downed. A stock trailer was overturned 3 miles northwest of Tonkawa. Large trees were also downed just south of Berlin, in Perkins, and in Stillwater. Telephone poles and transformers were downed in Chickasha. A boat was capsized in Lake Hefner in Oklahoma City but the occupants were rescued without injury. In Oneta, minor damage to trees and shingles resulted from winds in excess of 60 knots. In Hennessey, the roof of a tire center was partially destroyed and several trees and power poles were downed. In Alva the wall of a school under construction was toppled and a department store suffered damage.

Flash flooding resulted from 3 to 4 inches of rain in Chelsea, causing several creeks to overflow their banks. Highway 66 and several other roads were closed by water up to 2 feet deep. Lightning struck a house in Bartlesville and the resulting fire caused \$12,000 in damage.

Oklahoma County Edmond	23	1730CST			0	0	?	?	Thunderstorm Wind
Edmond	23	1730CST			0	0	?	?	Hail (1.00)
Choctaw	23	1825CST			0	0	?	?	Hail (0.75)
Choctaw	23	1835CST			0	0	?	?	Hail (0.75)
Oklahoma City	23	1840CST			0	0	?	?	Hail (0.88)
Oklahoma City	23	1855CST			0	0	?	?	Hail (1.75)
Cleveland County Oklahoma City	23	1900CST			0	0	?	?	Hail (1.00)
Pottawatomie County Pink	23	1910CST			0	0	?	?	Hail (0.75)
Caddo County Binger	23	2340CST			0	0	?	?	Hail (1.00)
Caddo County Gracemont	24	0010CST			0	0	?	?	Hail (1.00)
Caddo County Anadarko	24	0030CST			0	0	?	?	Hail (0.75)
Grady County Chickasha	24	0034CST			0	0	?	?	Hail (0.75)
Love County 6 N Marietta	24	0120CST			0	0	?	?	Hail (1.75)
Murray County Davis	24	0200CST			0	0	?	?	Hail (1.75)
Love County 10 E Marietta	24	0330CST			0	0	?	?	Hail (1.75)
Carter County 2 N Graham	24	0340CST			0	0	?	?	Hail (1.25)
Garvin County 5 E Wynnewood	24	0405CST			0	0	?	?	Hail (1.75)
Murray County Davis	24	0455CST			0	0	?	?	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OKLAHOMA Cont'd

Murray County Davis	24	0455CST			0	0	?	?	Hail (1.75)
Carter County 1 S Lone Grove	24	0458CST			0	0	?	?	Hail (1.75)
Carter County NW Ardmore	24	0505CST			0	0	?	?	Thunderstorm Wind
Murray County 12 SW Sulphur	24	0515CST			0	0	?	?	Thunderstorm Wind
Garvin County Stratford	24	0520CST			0	0	?	?	Hail (0.88)
Murray County Sulphur	24	0530CST			0	0	?	?	Hail (1.00)
Garvin County 1 SW Stratford	24	0530CST			0	0	?	?	Hail (1.00)
Carter County Gene Autry	24	0530CST			0	0	?	?	Hail (1.00)
Murray County 7 S Sulphur	24	0603CST			0	0	?	?	Hail (0.75)
Carter County Baum	24	0630CST			0	0	?	?	Hail (0.75)
Choctaw County 7 SE Boswell	24	0700CST			0	0	?	?	Hail (0.75)

Thunderstorms during the evening of the 23rd and morning of the 24th produced damaging winds and up to golf ball-size hail. In Oklahoma County, trees were downed between Coffee Creek Road and Santa Fe Road. Several buildings sustained roof damage between 220th and 234th Streets west of Kelly Road. Power lines were downed in Davis and in northwest Ardmore. A garage was also destroyed in Ardmore. Golf ball-size hail covered the ground 5 miles east of Wynnewood.

Garvin County 4 NW Elmore City	25	0220CST			0	0	?	?	Hail (0.75)
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A thunderstorm in south-central Oklahoma produced dime-size hail.

Latimer County Red Oak	25	1500CST			0	0	?	?	Hail (0.75)
Le Flore County Heavener	25	1500CST			0	0	?	?	Hail (1.75)

Thunderstorms in southeast Oklahoma produced hail up to the size of golf balls.

Payne County Perkins	27	0120CST			0	0	?	?	Hail (1.75)
Lincoln County 4 WNW Tryon	27	0145CST			0	0	?	?	Hail (1.25)
Seminole County 6 NW Seminole	27	0200CST			0	0	?	?	Thunderstorm Wind
Lincoln County 4 NW Tryon	27	0230CST			0	0	?	?	Hail (0.75)
Payne County 8 N Stillwater	27	0252CST			0	0	?	?	Hail (0.75)
Payne County 8 N Stillwater	27	0255CST			0	0	?	?	Hail (0.75)
Carter County Ardmore	27	0530CST			0	0	?	?	Thunderstorm Wind

Thunderstorms in central Oklahoma produced strong winds and hail up to the size of golf balls. A home suffered roof damage 6 miles northwest of Seminole. At the Ardmore Airpark, strong thunderstorm winds resulted in minor structural damage to several buildings, including a hangar. Several large trees were also downed. Damage estimates were not available.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

OREGON

ORZ010
Columbia Basin Plateau, Umatilla County
06 1500PST-1600PST
0 0 4 ? Thunderstorms
An area of thunderstorms dropped over 0.40 inch of rain in an hour in eastern parts of this county causing mudslides and local urban flooding. Several county roads were washed out. Hail accumulated to 2 inches in depth but there was an unconfirmed report of hail piled 6 inches deep.

ORZ006
West Slopes North Oregon Cascades
21 1500PST-1700PST
0 3 5 ? Thunderstorm Winds
A band of thunderstorms moved north along the Cascades with wind gusts estimated over 60 mph. Golf ball-size hail and heavy rain were reported at McKenzie Bridge near the Lane County and Linn Cove line. In Marion County a 90-foot tall tree was blown over and injured three youths. The tree in Fisherman's Bend Campground fell during high wind onto a pickup truck bed where the young children were trying to escape the rain, wind, and hail.

PENNSYLVANIA, Eastern

Schuylkill County
5 S Pottsville
05 1310EST
0 0 ? ? Thunderstorm Wind (G53) Hail (0.75)
Thunderstorm wind gusts were estimated at over 60 mph and marble-size hail was reported.

Lehigh County
Coopersburg Macungie
05 1345EST
05 1345EST
0 0 ? ? Hail (0.75)
0 0 ? ? Hail (0.75)
Three-quarter-inch-size hail was reported.

Franklin County
Green Village
08 1545EST
0 0 3 ? Thunderstorm Wind
0 0 ? ? Hail (0.75)
Chambersburg
08 1545EST
0 0 3 ? Thunderstorm Wind
Thunderstorm wind gusts downed trees and utility lines in Northern Greene Township near Green Village and also in Chambersburg. Penny-size hail was reported near Green Village.

Adams County
Cashtown
New Oxford
Edgegrove
08 1600EST
08 1635EST
08 1635EST
0 0 3 ? Thunderstorm Wind
0 0 5 ? Thunderstorm Wind
0 0 4 0 Lightning
Thunderstorm wind gusts downed trees and utility lines near Cashtown blocking some roads. In New Oxford wind gusts ripped one-third of the roof off and shattered windows in the high school. Near New Oxford eight mobile homes were damaged when huge trees were blown over on them. Many trees and utility lines were down in and around New Oxford. A lightning-caused fire destroyed a barn near Edgegrove.

York County
Hanover
Jefferson
Glen Rock
Delta
08 1640EST
08 1650EST
08 1700EST
08 1715EST
0 10 5 ? Thunderstorm Wind
0 0 4 ? Thunderstorm Wind
0 0 4 ? Thunderstorm Wind
0 0 3 ? Thunderstorm Wind

Thunderstorm wind gusts downed trees and utility lines in the Hanover area. The winds took roofs off several buildings, damaged others, and took the roof off an airport hangar. This was mostly in Penn and Heidelberg Townships just north and northeast of Hanover. In Jefferson at least two barns were collapsed by the wind. Trees and utility lines were down in Glen Rock and trees were down in Delta. About ten people received minor injuries from flying glass and other debris in the Hanover area.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLS	INJURIES	PROPERTY	CROSSL	

PENNSYLVANIA, Eastern Cont'd

Philadelphia County	18	1800EST			0	0	3	0	Flooding
Heavy rain caused urban and small stream flooding. Flooding closed portions of Route 95, Allegheny Avenue, Girard Avenue, Aramingo Avenue, The Schuylhill Expressway, and The Roosevelt Boulevard. Flooding occurred between 1800 and 2015 EST.									
Philadelphia County North Philadelphia Airport (PNE)	19	1330EST			0	0	?	0	Hail (0.75)
A thunderstorm dropped three-quarter-inch hail.									
Chester County 1 S Kennett Square	27	1410EST			2	0	?	0	Lightning
Lightning struck a tree and then two men standing by an automobile parked nearby. Both men died from the lightning strike. (M210 M220)									
Clinton County Lock Haven	29	1710EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts downed trees and limbs and blew the cap off a pick-up truck.									
Centre County Port Matilda	29	1900EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts brought down trees and blocked a road in the Port Matilda area between 1900 and 2000 EST.									
Huntingdon County Warriors Mark	29	1930EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts downed several large trees and moved one mobile home off its foundation.									
Perry County 3 E Blain	30	1730EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts tore steel siding off a new commercial building under construction.									
Bradford County Terrytown	30	1730EST			0	0	4	0	Thunderstorm Wind
Towanda	30	1805EST			0	0	4	0	Thunderstorm Wind
Wyalusing	30	1810EST			0	0	3	0	Thunderstorm Wind
Sugar Run	30	1815EST			0	0	3	0	Thunderstorm Wind
Athens	30	1945EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts took the tops out of trees, damaged a shed, and damaged the roofs on some houses in Terrytown. Numerous trees and utility lines were downed in Towanda. Trees and utility lines were downed, roofs were damaged on some houses, and a few trailers were damaged in Wyalusing. Trees and utility lines were down and roads closed in Sugar Run. Trees and limbs were blown down in Athens. There were reports of funnel cloud sightings in Terrytown, Towanda, and Wyalusing.									
Wyoming County Forkston	30	1900EST			0	0	3	0	Thunderstorm Wind
Laceyville	30	1900EST			0	0	3	0	Thunderstorm Wind
2 N Center	30	1900EST			0	0	3	0	Thunderstorm Wind
Moreland Falls	30	2000EST			0	0	3	0	Thunderstorm Wind
Thunderstorm wind gusts downed trees and utility lines. The damage in Falls occurred between 2100 and 2130 EST.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S E S	

PENNSYLVANIA, Eastern Cont'd

Lackawanna County

Ransom	30	1915EST							Thunderstorm Wind
Milwaukee	30	2100EST							Thunderstorm Wind

Thunderstorm wind gusts downed trees and utility lines. The damage in Milwaukee occurred between 2100 and 2130 EST.

Luzerne County

Harding	30	1930EST							Thunderstorm Wind
Pittston	30	1930EST							Hail (1.75)
Swoyersville	30	2100EST							Thunderstorm Wind

Thunderstorm wind gusts damaged trees in Harding and in Swoyersville. Golf ball-size hail fell in Pittston. The damage occurred in Swoyersville between 2100 and 2130 EST.

Franklin County

Chambersburg	30	2000EST							Thunderstorm Wind
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Thunderstorm wind gusts downed a tree.

Huntingdon County

Robertsdale	30	2000EST							Thunderstorm Wind
Three Springs	30	2000EST							Thunderstorm Wind
Alexandria	30	2000EST							Thunderstorm Wind
Petersburg	30	2000EST							Thunderstorm Wind
McAlevys Fort	30	2000EST							Thunderstorm Wind

Thunderstorm wind gusts downed trees. In Robertsdale the trees came down on a power substation. The damage occurred between 2000 and 2100 EST in the Alexandria, Petersburg, and McAlevys Fort areas.

Monroe County

Tobyhanna	30	2125EST							Hail (1.75)
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Golf ball-size hail was reported.

PENNSYLVANIA, Western

Mercer County

9 W Mercer	03	1949EST	0	0	0	0	0	0	Thunderstorm Wind
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Large branches down in Sharpsville. Eight-inch branch down in Sharon.

Washington County

2 W Washington	03	2208EST							Thunderstorm Wind
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Trees down 2 miles west of Washington.

Armstrong County

10 E Kittanning	03	2210EST							Thunderstorm Wind
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Trees down in Rural Valley.

Butler County

17 NW Butler	07	0000EST							Flash Flood
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Basement flooding in Slippery Rock and Marion Townships.

Westmoreland County

15 E Greensburg	08	0810EST							Thunderstorm Wind
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Trees and power lines down in Ligonier.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

PENNSYLVANIA, Western Cont'd

Westmoreland County 9 S Greensburg	08	1920EST			0	0	0	0	Funnel Cloud
									Funnel cloud over Mt. Pleasant.
9 SE Greenburg	08	1932EST			0	0	0	0	Funnel Cloud
									Funnel cloud over Chestnut Ridge.
Somerset County Somerset	08	2015EST- 2030EST	0.5	30	0	0	0	0	Tornado (F0)
									Tornado touched down in four places in Somerset with little damage.
Allegheny County 3 E Pittsburgh	08	2230EST			0	0	0	0	Thunderstorm Wind
									Tree damage in East Liberty.
Clearfield County 14 S Clearfield	09	0000EST- 0130EST			0	0	0	0	Flash Flood Thunderstorm Wind
									Roadway and basement flooding. Tree damage and lines down in Madera.
Washington County	09	0515EST			0	0	0	0	Hail (0.75)
									Three-quarter-inch hail in northern Washington County.
Beaver County 12 NW Beaver	09	0525EST			0	0	0	0	Thunderstorm Wind
									Trees down in Darlington.
Cambria County Johnstown	09	0633EST			0	0	0	0	Thunderstorm Wind
									Peak wind at Johnstown during thunderstorm 61 mph.
Washington County 18 NW Washington	14	1805EST			0	0	0	0	Funnel Cloud Thunderstorm Wind
									Funnel cloud over Burgettstown. Trees down in Burgettstown. Large trees down near Paris and Florence.
Washington County 12 NW Washington	14	1835EST			0	0	0	0	Thunderstorm Wind
									Trees down in Avella.
Beaver County 4 NE Beaver	14	1845EST			0	0	0	0	Thunderstorm Wind
									Trees and powerlines down in Monaca, Beaver Falls, and New Brighton.
Allegheny County 3 NE Pit	14	2015EST- 0200EST			0	0	5	0	Flash Flood

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

PENNSYLVANIA, Western Cont'd

Potter County Coudersport	18	1040EST			0	0	0	0	Thunderstorm Wind Hail (0.75)
Large trees, power lines down. Dime-size hail near Coudersport.									
Crawford County 15 NW Meadville	29	1422EST			0	0	0	0	Hail (0.75)
Dime-size hail at Conneautville.									
11 NE Meadville	29	1450EST			0	0	0	0	Hail (1.75)
Golf ball-size hail near Cambridge Springs.									
5 N Meadville	29	1453EST			0	0	0	0	Hail (0.75)
9 NE Meadville	29	1500EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in Saegertown and Woodcock.									
Elk County 5 N Ridgway	29	1615EST			0	0	0	0	Thunderstorm Wind
Large trees down near Johnsonburg and Ridgway. Also power lines down.									
Clearfield County Clearfield 14 E Clearfield	29	1615EST			0	0	0	0	Thunderstorm Wind
Large trees down in Clearfield. Also in Lawrence and Coopers Townships.									
Cameron County Emporium	29	1640EST			0	0	0	0	Thunderstorm Wind
Power lines down east of Emporium.									
Clinton County Lock Haven	29	1710EST			0	0	0	0	Thunderstorm Wind
Trees and limbs down. Cap blown off pick-up truck.									
Washington County Washington	29	1715EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in Washington.									
Butler County	29	1730EST			0	0	0	0	Thunderstorm Wind
Large trees down in northern part of County.									
Armstrong County 3 NW Kittanning	29	1745EST			0	0	0	0	Thunderstorm Wind
Large tree limbs off trees in east Franklin.									
Fayette County Connellsville	29	1745EST			0	0	0	0	Thunderstorm Wind
Several large trees and power lines down in Connellsville.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

PENNSYLVANIA, Western Cont'd

Indiana County 17 NE Indiana	29	1815	EST			0	0	0	0	Thunderstorm Wind
Numerous large trees and power lines down in northern third of county. Banks, Montgomery, and Big Run hardest hit.										
Jefferson County 16 S Brookville	29	1815	EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in southern third of county. Punxsutawney and Big Run hardest hit.										
Fayette County 5 N Connellsville	29	1830	EST			0	0	0	0	Thunderstorm Wind
Several large trees down in Bullsken.										
Somerset County 15 S Somerset	29	1830	EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in Meyersdale.										
7 W Somerset	29	1830	EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in Seven Springs.										
Cambria County 8 E Ebensburg	29	1845	EST			0	0	0	0	Thunderstorm Wind
Large trees and power lines down in Gallitzin.										
Beaver County Beaver	30	1548	EST			0	0	0	0	Thunderstorm Wind
Peak wind at Beaver County Airport 69 mph.										
6 SE Beaver	30	1610	EST			0	0	0	0	Thunderstorm Wind
Power lines down in Baden.										
8 S Beaver	30	1639	EST			0	0	0	0	Hail (1.50)
Inch and a half-size hail at Aliquippa.										
Allegheny County 6 W Pit	30	1640	EST			0	0	0	0	Hail (1.50)
Inch and a half-size hail at forecast office outside Pittsburgh.										
Beaver County 3 SE Beaver	30	1650	EST			0	0	0	0	Thunderstorm Wind
Power lines down Monaca.										
Allegheny County 3 E Pit	30	1655	EST			0	0	0	0	Hail (1.50)
Inch-and-a-half-size hail at Coraopolis.										
Butler County 8 NW Butler	30	1700	EST			0	0	0	0	Hail (0.75)
Three-quarter-inch hail 8 miles northwest of Butler.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

PENNSYLVANIA, Western Cont'd

Allegheny County 7 SE Pit	30	1709EST			0	0	0	0	Hail (1.00)
									One-inch-size hail at Carnegie.
3 S Pit	30	1744EST			0	0	0	0	Hail (1.00)
									One-inch-size hail at Imperial.
Cambria County	30	1745EST			0	0	0	0	Thunderstorm Wind
									Trees down from thunderstorm wind.
Fayette County 14 N Uniontown	30	1817EST			0	0	0	0	Hail (0.75)
									Three-quarter-inch hail at Perryopolis.
Allegheny County 17 E Pit	30	1830EST			0	0	0	0	Hail (1.00)
									One-inch-size hail at Oakmont.
17 E Pit	30	1835EST			0	0	0	0	Hail (0.75)
									Three-quarter-inch hail at Penn Hills.
Clearfield County 5 E Dubois	30	1840EST			0	0	0	0	Thunderstorm Wind
									Trees down near Home Camp.
Washington County 6 SE Washington	30	1840EST- 1841EST	0.25	250	0	0	4	0	Tornado (F2) Funnel Cloud
									House destroyed in Scenery Hill, North Bethlehem Township as tornado touched down for less than one minute. Trees and power lines also downed. Reports of funnel cloud preceded the touchdown.
Erie County 6 S Erie	30	1847EST			0	0	0	0	Hail (0.75)
									Dime-size hail at intersection of Route 19 and Interstate 90.
Erie County Erie	30	1848EST			0	0	0	0	Hail (0.75)
									Three-quarter-inch hail at Erie International Airport.
Mercer County 5 S Mercer	30	1907EST			0	0	0	0	Thunderstorm Wind
									Power lines were down blocking Rt. 19 near Leesburg.
Fayette County 19 NW Uniontown	30	1940EST			0	0	0	0	Hail (1.00)
									One-inch-size hail 4 miles north of Brownsville.
Uniontown	30	1955EST			0	0	0	0	Hail (1.75)
									One- and three-quarter-inch hail at Uniontown.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O S S	

PENNSYLVANIA, Western Cont'd

Crawford County 10 E Meadville	30	2010EST			0	0	0	0	Hail (0.75) Thunderstorm Wind
Three-quarter-inch hail. Trees and power lines down 10 miles east of Meadville.									
Fayette County 6 SE Uniontown	30	2015EST			0	0	0	0	Hail (1.00)
One-inch-size hail at Chalk Hill.									
9 NE Uniontown	30	2025EST			0	0	0	0	Hail (1.00)
One-inch-size hail at Connellsville.									
9 NE Uniontown	30	2040EST			0	0	0	0	Hail (1.00)
One-inch-size hail again at Connellsville.									
Venango County 8 NE Franklin	30	2040EST			0	0	0	0	Thunderstorm Wind
Power lines and large trees down north of Oil City.									
Fayette County 11 NE Uniontown Uniontown	30	2121EST			0	0	0	0	Flash Flood
Flooding in Connellsville and Uniontown.									

RHODE ISLAND

None reported.

SOUTH CAROLINA

Aiken County Aiken	03	1400EST			0	0	?	?	Thunderstorm Winds
Lexington County Gaston	03	1445EST			0	0	?	?	Thunderstorm Winds
Calhoun County Sandy Run area	03	1540EST			0	0	?	?	Thunderstorm Winds
Richland County Eastover	03	1555EST			0	0	?	?	Thunderstorm Winds
Bamberg County 1 N Erhardt	03	1620EST			0	0	?	?	Thunderstorm Winds

In Aiken County, more than 20 minor fires burned after trees fell into power lines or power lines were blown into trees. At least two of the fires were caused by damaged transformers. A van was struck by a pine tree that was blown down by heavy winds on Dibble Road, in the city of Aiken. The driver and passengers were unharmed. In Lexington County, a mobile home park on U.S. Highway 321, Gaston, sustained damage. A portion of a roof was blown off; another trailer was lifted and moved; one mobile home was destroyed; and cinder blocks were blown from underneath another trailer. No one was injured. In Richland County, trees were reported down on S.C. Highway 601 near Eastover. Trees fell on power lines in the Sandy Run area in Calhoun County. Trees were blown down near Erhardt in Bamberg County.

SCZ005
North Midlands

	07	Unknown			1	0	0	0	Heat
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A 58-year-old man died of heat exhaustion in Kershaw County. (M58?)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH CAROLINA Cont'd

Laurens County
Btwn Cross Hill
& Lake Greenwood

10	1500EST				0	0	1	?	Thunderstorm Winds
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Thirty to 40 pines were blown down in a severe thunderstorm.

Calhoun County
Creston

10	1635EST				0	0	?	?	Thunderstorm Winds
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Several trees blown down.

Beaufort County
Gray's Hill

10	2350EST				0	0	4	0	Lightning
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A \$75,000 waterfront house was destroyed by a fire ignited when lightning struck a power line leading to the house. Lightning apparently hit a utility line running from the house to a dock in the back yard, shorting out the wiring in the house.

SCZ005
North Midlands

15	Unknown				1	0	0	0	Heat
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A 79-year-old woman died of heat exhaustion while working in Darlington County. F79?

SCZ007
South Coast

21	Unknown				1	0	0	0	Heat
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A 67-year-old man died of heat-related stress in Dorchester County. M67?.

SCZ005-007-008
North Midlands &
North & South Coast

21	PM				0	9	0	0	Extreme Heat
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At least nine people were treated for heat-related stress.

Newberry County
Newberry
Silverstreet &
Mt. Bethel Garmany
area

22	0830EST				0	0	?	?	Lightning
22	AM				0	0	?	?	Thunderstorm Winds

Lightning caused several transformer fires in the city of Newberry, and thunderstorm winds blew down trees, blocking roads in Silverstreet and the Mt. Bethel Garmany area.

Laurens County
Nr Hickory Tavern
Laurens

22	1335EST				0	0	?	?	Thunderstorm Winds
22	1350EST				0	0	?	?	Thunderstorm Winds

A severe thunderstorm moving across western Laurens County blew down a number of trees near Hickory Tavern. Some minor damage occurred in the city of Laurens including one tree that was blown across a car. Most of the damage was in the western part of the county.

Orangeburg County
Livingston
Neeses

22	1640EST				0	2	3	0	Thunderstorm Winds
22	1640EST				0	0	3	0	Lightning

Lightning and wind destroyed three mobile homes. In one of the mobile homes near the Livingston town line off U.S. Highway 321, high winds rolled a mobile home over two times. A woman and her daughter were slightly injured. About a half-mile away, a second mobile home was destroyed by winds. No one was in the home when it was destroyed. The third mobile home affected was struck by lightning and was destroyed in the ensuing fire.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH CAROLINA Cont'd

Charleston County									
North Charleston	23	1810EST			0	0	?	?	Hail (0.75)
North Charleston	23	1830EST			0	0	?	?	Hail (1.00)
Charleston AFB	23	1843EST			0	0	?	?	Thunderstorm Winds (G53) Lightning

Hail was reported in North Charleston. A few trees were blown down and lightning damaged a number of power lines at Charleston Air Force Base.

SCZ005-007-008 Midlands & Coast

	01-	30			0	0	0	?	Drought
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The driest June since 1986 in many locations in the midlands and coast caused drought conditions and crop failures.

SOUTH DAKOTA

Bennett County Allen to 4 W Martin

	01	1310MST			0	0	0	0	Hail (1.75) Heavy Rain
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Heavy rainfall from the thunderstorms produced some localized flooding.

Dewey County 2 E Isabel

	01	1555MST- 1600MST	0.3	20	0	0	0	0	Tornado (F0)
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This tornado touched down briefly but caused no damage.

McPherson County 20 E Eureka

	01	1700CST			0	0	0	0	Hail (0.75)
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Lyman County 45 SE Pierre

	01	1845CST			0	0	0	0	Funnel Cloud
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Brule County NW Chamberlain

	01	1855CST			0	0	0	0	Funnel Cloud
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The Chamberlain Police Department reported two funnel clouds near the ground northwest of Chamberlain.

Brule County 4 NW Pukwana

	01	1912CST			0	0	0	0	Funnel Cloud
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The Brule County Sheriff's Department sighted a funnel cloud close to the ground northwest of Pukwana, between Wanalain Dam and Pukwana.

Edmunds County 5 S Ipswich

	01	1950CST			0	0	0	0	Hail (0.75)
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Jerauld County 7 NW Wessington Springs

	01	2000CST			0	0	0	0	Funnel Cloud
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Beadle County 7 W Virgil

	01	2000CST			0	0	0	0	Funnel Cloud
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Brown County 1 S Aberdeen

	01	2015CST- 2020CST	0.3	20	0	0	0	0	Funnel Cloud
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The tornado touched down briefly and then lifted.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

Beadle County Huron ARPT	01	2025CST			0	0	0	0	Thunderstorm Wind (G50)
Hand County 13 S Miller	01	2035CST			0	0	0	0	Funnel Cloud
Spink County 5 S 1 E Mellette	01	2035CST			0	0	0	0	Thunderstorm Wind (G65)
Brown County 3 S Groton to Groton	01	2045CST- 2110CST	3	30	0	0	?	0	Tornado (F0)

This small tornado blew over two mobile homes on the north side of Groton. Numerous trees were either blown down or lost limbs. Several farms in the area also received some damage, mostly from falling trees and limbs.

Davidson County E Mitchell	01	2100CST			0	0	0	0	Thunderstorm Wind
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Several farmers in the area reported wind gusts estimated at 60 to 70 mph.

Miner County 1 N Howard	01	2130CST			0	0	?	0	Thunderstorm Wind
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Thunderstorm winds damaged trees and tore siding and doors off an outbuilding.

Turner County 1 E Davis	02	0220CST			0	0	?	0	Thunderstorm Wind
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Strong thunderstorm winds blew over a large field irrigation system.

Turner County Centerville	02	0230CST			0	0	?	0	Thunderstorm Wind (G60)
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Thunderstorm winds toppled a small trailer house and broke several medium sized branches from trees.

Lincoln County Beresford	02	0235CST			0	0	0	0	Thunderstorm Wind
2 W Harrisburg	02	0250CST			0	0	0	0	Thunderstorm Wind
Shindler	02	0250CST			0	0	0	0	Thunderstorm Wind

Damage was largely confined to trees being blown down and branches being broken.

Minnehaha County SW Sioux Falls	02	0255CST			0	0	?	0	Thunderstorm Wind
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Straight-line winds were produced by thunderstorms that moved into southwest Sioux Falls at about 0245 CST. Damage was widespread in an area about 4 miles in length and about a quarter of a mile wide. An apartment building under construction was damaged and the roof of a mobile home was destroyed. Two construction trailers at different work sites in the area were tipped over. Downed power lines left about 5,000 residents without power for a half an hour. Other damage included a few downed trees and broken limbs, tipped over garbage cans and swing sets, and torn off roof shingles.

Dewey County Timber Lake	04	2224MST			0	0	?	?	Hail (1.75)
Spink County 6 E Mansfield	05	0125CST			0	0	0	0	Hail (0.75)
Todd County 5 S Mission	07	1525CST- 1530CST	1	40	0	0	0	0	Tornado (F1)

The Civil Defense Director in Mission sighted a tornado on the ground south of Mission.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

Todd County 11 S Mission	07	1533CST- 1545CST	0.5	20	0	0	0	0	Tornado (F0)
A State Patrolman reported two tornados on the ground, 11 miles south of Mission near Olsonville.									
Todd County 10 E St. Francis	07	1615CST- 1620CST	0.5	20	0	0	0	0	Tornado (F0)
Several Rosebud Sioux Tribal Game, Fish and Parks Department employees reported a tornado on the ground 10 miles east of St. Francis.									
Shannon County 2 N Pine Ridge	10	1745MST			0	0	?	0	Thunderstorm Wind
Thunderstorm winds overturned a small utility trailer and damaged several trees.									
Pennington County 15 SW Rapid City	11	1302MST			0	0	?	0	Hail (0.75)
Pennington County Rapid City APRT	11	1332MST			0	0	0	0	Thunderstorm Wind (G57)
Pennington County 35 E Rapid City	11	1422MST			0	0	?	0	Thunderstorm Wind
Strong thunderstorm winds flipped over a 28-foot motor home on Interstate 90 near Wasta.									
Haakon County Philip	11	1500MST			0	0	0	0	Thunderstorm Wind (G50)
Stanley County Hayes	11	1629CST			0	0	0	0	Hail (1.75)
Sully County	11	1730CST			0	0	3	6	Hail (1.75) Thunderstorm Wind (G60)
Hail, up to golf ball-size, cut a swath 1.5 miles wide and 50 miles in length from the Missouri River east to the Hyde County line. Thunderstorm winds destroyed a granary roof and downed numerous trees. Damage from large hail was considerable to crops with complete fields being wiped out. The County Agent placed crop damage estimates at \$1.8 million. Hail also produced window damage to cars and homes.									
Corson County 7 NW Mobridge	11	1633MST- 1635MST	0.3	20	0	0	0	0	Tornado (F0)
Tornado touched down briefly causing no damage.									
Walworth County 1 N Mobridge	11	1750CST			0	0	0	0	Thunderstorm Wind (G52)
Jones County 1 S Draper	11	1810CST			0	0	0	0	Thunderstorm Wind (G52)
Edmunds County 10 W Warner	11	1908CST			0	0	0	0	Thunderstorm Wind (G52)
Brown County Mina Lake	11	1909CST			0	0	0	0	Thunderstorm Wind (G52)
Faulk County 4 W Chelsea	11	1910CST			0	0	0	0	Thunderstorm Wind (G56)
Lyman County 9 NNE Reliance	11	1920CST			0	0	0	0	Thunderstorm Wind (G52)
Brown County 6 N Richmond	11	1940CST			0	0	0	0	Thunderstorm Wind (G52)
Lake	11	1950CST			0	0	0	0	Thunderstorm Wind (G56)
Westport	11	1955CST			0	0	0	0	Thunderstorm Wind (G50)
5 SW Hecla	11	1955CST			0	0	0	0	Thunderstorm Wind (G50)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

3 W Houghton Kingsbury County	11	2000CST			0	0	0	0	Thunderstorm Wind (G50)
E Oldham Beadle County	11	2030CST			0	0	0	0	Funnel Cloud
7 W Huron	11	2035CST- 2040CST	0.6	30	0	0	?	0	Tornado (F0)

Damage included numerous trees that were downed and shingles off houses.

Yankton County Mission Hill	11	2100CST			0	0	5	0	Thunderstorm Wind
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Five large grain bins were blown over by strong thunderstorm winds; however, all the bins were empty except one. Total damages were estimated at about \$200,000. Other post-storm reports from Mission Hill included some roof damage and broken windows from flying debris.

Yankton County 2 NE Mission Hill	11	2115CST			0	0	?	0	Thunderstorm Wind
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A roof was blown from a hog confinement building, some trees were downed, and hay wagons were blown around and wrecked.

Yankton County E Volin	11	2125CST			0	0	?	0	Thunderstorm Wind
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Several trees were downed or damaged.

Miner County 6 W Howard	11	2125CST			0	0	0	0	Funnel Cloud
Yankton County Yankton	11	2130CST			0	0	0	0	Thunderstorm Wind (G66)
Miner County 1 W Howard	11	2145CST			0	0	0	0	Funnel Cloud
1 SW Howard	11	2145CST			0	0	0	0	Thunderstorm Wind (G60)
Codington County Watertown	11	2146CST			0	0	0	0	Thunderstorm Wind (G52)
Moody County Colman	11	2215CST			0	0	1	0	Thunderstorm Wind

Strong winds whipped through Colman destroying a home under construction and two storage sheds. Five power poles were knocked down by trees leaving area residents without power for 5 to 6 hours.

Aurora County Plankinton	15	2025CST			0	0	0	0	Thunderstorm Wind (G56)
Davison County 2 NE Mitchell	15	2125CST			0	0	?	0	Thunderstorm Wind

Thunderstorm winds destroyed a tractor storage shed and damaged other outbuildings on a farmstead.

Clay County 6 N Meckling	16	1623CST			0	0	0	0	Funnel Cloud
Clay and Union County	16	1710CST- 1730CST	9	60	0	0	6	0	Tornado (F1)

This tornado touched down numerous times in its eastward track from 3 miles east of Hub City to within 2 to 3 miles east of Alcester. About thirty farms sustained damage, including numerous out buildings and silos that were badly damaged or destroyed. Many homes were damaged, including one that lost its roof. Damage estimates from the tornado were between \$1 and \$2 million.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

Jones County Draper	16	1300CST			0	0	0	0	Hail (1.00)
Lyman County Presho	16	1310CST			0	0	0	0	Hail (0.75)
1 W Vivian	16	1315CST			0	0	2	0	Hail (1.00)

Hail damaged a gas station and an automobile.

Lyman County Presho	16	1315CST			0	0	0	0	Hail (1.75)
Lyman County 4 NE Vivian	16	1320CST			0	0	0	0	Hail (1.75)
Jerauld County 18 SW Huron	16	1535CST			0	0	0	0	Hail (1.00)
Miner County Roswell	16	1715CST			0	0	0	0	Hail (1.75)
Brookings County Volga	16	1750CST			0	0	0	0	Thunderstorm Wind (G56) Hail (1.75)
Brookings County Brookings	16	1815CST			0	0	6	6	Thunderstorm Wind (G61) Hail

Straight-line thunderstorm winds measured up to 61 mph and hail ripped through Brookings causing widespread damage. The hardest hit area of town was in the commercial district where many businesses received damage. Cars throughout the city were dented and had windows broken or blown out. Other damage included two homes that lost their roofs, downed power lines, and numerous trees and branches blocking streets.

Lincoln County Hudson	16	1822CST			0	0	0	0	Hail (1.75)
Yankton County Yankton	16	1900CST- 2400CST			0	0	?	?	Flash Flood

Thunderstorms dumped 3 to 6 inches of rain in and near Yankton, producing flood damage along Marne Creek. Marne Creek is a drainage for a large area of farm land that flows through the city of Yankton and then into the Missouri River. About 20 to 25 area residents along the creek were evacuated due to rapidly rising water. Also several roads were barricaded because of the high water running over them.

Brookings County	16	1900CST- 2400CST			0	0	0	6	Flash Flood
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Thunderstorms with very heavy rain dropped from 3 to 6 inches of rain across a large part of Brookings County. Numerous small creeks rose quickly, flooding some county roads and several acres of crop land. Crop damage due to the flooding was especially high with estimates between \$3 and \$4 million.

Ziebach County 15 SSE Dupree	18	2030MST			0	0	5	0	Thunderstorm Wind
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Strong thunderstorm winds downed 80 power poles, blew over a tractor-semitrailer, a mobile-home, and destroyed a metal pole barn.

Hughes County Pierre	18	2207CST			0	0	0	0	Thunderstorm Wind (G74)
Walworth County 1 N Mobridge	18	2210CST			0	0	0	0	Thunderstorm Wind (G65)
Potter County 6 W 8 S Gettysburg	18	2226CST			0	0	0	0	Thunderstorm Wind (G61)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

Faulk County 10 W Warner	18	2320CST			0	0	0	0	Thunderstorm Wind (G52)
Kingsbury County Badger	19	0100CST			0	0	0	0	Thunderstorm Wind (G56)
Dewey County Firesteel	26	1745CST			0	0	0	0	Hail (1.75)
Edmunds County 10 W Warner	27	1525CST			0	0	?	0	Thunderstorm Wind (G52)

Strong thunderstorm winds destroyed a barn and two silos at two separate farms west of Warner.

Brown County Warner	27	1525CST			0	0	?	0	Thunderstorm Wind (G65)
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Thunderstorm winds flattened a 54,000-bushel granary bin and downed power lines, leaving residents in parts of Brown and Spink counties without power.

5 W Aberdeen	27	1533CST			0	0	0	0	Thunderstorm Wind (G56)
N W Aberdeen	27	1540CST			0	0	0	0	Hail (0.75)
5 S Aberdeen	27	1550CST			0	0	0	0	Thunderstorm Wind (G52)
Aberdeen ARPT	27	1553CST			0	0	?	0	Thunderstorm Wind (G53) Heavy Rain

Thunderstorms dumped heavy rain, from 3 to 5 inches, in a short period of time in Aberdeen. Numerous streets were flooded stranding motorists; however, minimal damage was reported.

Spink County 6 E Mansfield	27	1600CST			0	0	0	0	Hail (0.75)
Brown County 5 S 2 W Groton	27	1610CST			0	0	0	0	Funnel Cloud
Spink County Conde	27	1657CST			0	0	5	4	Thunderstorm Wind (G52) Hail

Several farm outbuildings and a few homes in and around Conde, sustained damage from thunderstorm winds and hail. Large hail also destroyed approximately four to five hundred acres of small grain crops.

Beadle County 8 NW Huron	27	1820CST			0	0	0	0	Hail (1.00)
Beadle County Huron	27	1825CST			0	0	0	0	Hail (1.00)
Beadle County Huron	27	1830CST			0	0	0	0	Hail (0.88)
Beadle County 14 SE Huron	27	1845CST			0	0	0	0	Hail (1.00)
Miner County 3 N Howard	27	1928CST			0	0	0	0	Hail (0.75)
Minnehaha County Dell Rapids	27	2008CST			0	0	0	0	Hail (0.75)
Grant County Milbank	27	2025CST			0	0	0	0	Thunderstorm Wind (G56)
Minnehaha County Sioux Falls ARPT	27	2032CST			0	0	0	0	Hail (1.00)
S Sioux Falls	27	2042CST			0	0	0	0	Hail (0.75)
Kingsbury County 4 W Oldham	27	2045CST			0	0	0	0	Hail (1.75)
Lake County Lake Bryant	27	2132CST			0	0	0	0	Hail (1.50)
Chester	27	2141CST			0	0	0	0	Hail (0.75)
8 NW Madison	27	2142CST			0	0	0	0	Hail (0.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

SOUTH DAKOTA Cont'd

Minnehaha County Colton	27	2154CST			0	0	0	0	Thunderstorm Wind (G60)
Lake County Chester	27	2155CST			0	0	0	0	Hail (2.75)
Minnehaha County Crooks	27	2155CST			0	0	0	0	Hail (1.00)
Lake County 3 S Chester	27	2155CST			0	0	0	0	Thunderstorm Wind
Minnehaha County Sioux Falls	27	2205CST- 2250CST			0	0	6	6	Hail (1.00) Thunderstorm Wind (G62)
Lincoln County 7 SW Sioux Falls	27	2345CST			0	0	0	0	Hail (0.75)

This series of severe thunderstorms ripped across Lake, Lincoln, and Minnehaha counties the evening of the 27th producing some of the most widespread damage from wind and hail this area has seen in several years. Damage to property in Sioux Falls and surrounding communities was considerable. In Sioux Falls, two homes were destroyed and another 150 received significant damage. Several businesses, mainly on the southwest side of Sioux Falls, also sustained damage. Numerous trees throughout Sioux Falls were blown down or lost limbs. In Colton, several homes and businesses lost windows due to the hail and strong winds. Lightning caused a fire in Crooks completely destroying a home. Hail damage to crops was widespread, but was especially devastating in an area about 2 to 3 miles wide that extended from near Colton to just west of Sioux Falls where crops were totally wiped out. Estimates from both property and crops are expected to exceed \$10 million.

Hand County St. Lawrence	28	0455CST			0	0	0	0	Hail (0.75)
Beadle County Huron	28	0530CST			0	0	0	0	Thunderstorm Wind (G54)
Potter County 20 W Gettysburg	28	0641CST			0	0	0	0	Thunderstorm Wind (G56)

TENNESSEE

Giles County	03	0300CST			0	0	4	0	Thunderstorm Winds
Damage from around Pulaski included: a house and a barn damaged from felled large tree limbs, trees uprooted, power lines, and poles broken.									
Montgomery County	03	0300CST			0	0	4	0	Thunderstorm Winds
A violent thunderstorm completely destroyed a house trailer, and moved eight others off their foundations in Clarksville. Several storage buildings were destroyed and numerous trees toppled.									
Maury County	03	0300CST			0	0	4	0	Thunderstorm Winds Lightning
Four cows were killed out in the county by lightning and the roof was swept off a liquor store in Columbia.									
Robertson County	06	1630CST			0	0	0	0	Thunderstorm Winds
Montgomery County	06	1700CST			0	0	2	0	Thunderstorm Winds
Sumner County	06	1700CST			0	0	2	0	Thunderstorm Winds
Pickett County	06	1812CST			0	0	0	0	Thunderstorm Winds
Fentress County	06	1740CST			0	0	1	0	Thunderstorm Winds
		1745CST			0	0	1	0	Thunderstorm Winds

Trees downed near Jamestown and Allardt.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TENNESSEE Cont'd

Henry County	14	1735CST			0	0	2	0	Thunderstorm Winds
Trees downed in Paris from a thunderstorm.									
Marion County	14	1900CST			0	0	0	0	Thunderstorm Winds
Thunderstorm wind moved a mobile home 100-feet in Mount Calvary.									
Grundy County	18	1030CST			0	8	0	0	Lightning
Eight Boy Scouts were injured when lightning struck a shelter tent at the Skymount Scout Camp.									
Washington County	22	1000CST			0	1	2	0	Thunderstorm Winds
A woman was injured when a tree fell onto her car in Johnson City.									
Hamilton County	22	2030CST			0	0	2	0	Thunderstorm Winds
McMinn County	22	2035CST			0	0	0	0	Hail (1.75)
Bradley County	22	2100CST			0	0	2	0	Thunderstorm Winds
Sullivan County	22	2219CST			0	0	2	0	Thunderstorm Winds

Thunderstorms over eastern Tennessee produced mainly damage to trees and power lines. Golf ball-size hail was reported in southern McMinn County along Interstate 75. In Sullivan County, several trees were downed in Bristol.

Shelby County	22	0045CST			0	0	3	0	Thunderstorm Winds
Hardeman County	22	0300CST			0	0	2	0	Thunderstorm Winds
Fayette County	22	0315CST			0	0	2	0	Thunderstorm Winds

Widespread large tree limbs and power lines were blown down by thunderstorm winds across Memphis and in Fayette County. In Hardeman County, trees were downed in Grand Junction.

TEXAS, Northern

Northern Texas	01								
An upper-level disturbance triggered strong thunderstorms that produced large hail and damaging bursts of wind over portions of northern Texas where several thunderstorm outflow boundaries intersected.									
Haskell County 5 E Haskell	01	0000CST			0	0	3	4	Hail (1.75)
Golf ball-size hail broke windshields, damaged the roof of five automobiles, and destroyed several acres of cropland 5 miles east of Haskell.									
Knox County	01	0000CST- 0215CST			0	0	?	?	Flash Flooding
Heavy rains of 4.25 inches washed out a railroad track and resulted in high water over several secondary roadways between Munday and Goree. In addition, portions of State Highway 222 east of Knox City and U.S. Highway 82 west of Benjamin were closed for a short time due to high water over the roadway.									
Wichita County Electra	01	0030CST			0	0	3	?	Thunderstorm Winds
Strong winds overturned a mobile home, blew down power lines, and shattered several windows in Electra.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Northern Cont'd

Taylor County Bradshaw	01	0040CST			0	0	?	?	Thunderstorm Winds (G52)
Comanche County Sidney	01	0315CST			0	0	?	?	Hail (0.75)
Parker County Weatherford	01	0430CST			0	0	3	?	Lightning

Lightning damaged the chimney of a residence in Weatherford.

Hardeman County Chillicothe	01	0728CST			0	0	?	?	Hail (0.88)
Wilbarger County Vernon	01	0730CST			0	0	4	?	Thunderstorm Winds

Strong winds damaged the roof of several homes in Vernon.

Knox County Munday	01	0815CST			0	0	?	?	Hail (0.88)
Stephens County 3 N Ivan	01	1030CST			0	0	?	?	Thunderstorm Winds (G56)
Graham	01	1030CST			0	0	?	?	Thunderstorm Winds (G52)
Palo Pinto County Possum Kingdom									
Res	01	1050CST			0	0	?	?	Thunderstorm Winds (G70)
Parker County Aledo	01	1150CST			0	0	?	?	Thunderstorm Winds (G52)

A downburst blew down several large tree branches in Aledo.

Tarrant County Wedgwood	01	1215CST			0	0	?	?	Thunderstorm Winds (G52)
Fort Worth	01	1217CST			0	0	?	?	Thunderstorm Winds (G52)
Richland Hills	01	1230CST			0	0	3	?	Thunderstorm Winds
Carswell AFB	01	1240CST			0	0	?	?	Thunderstorm Winds (G50)
1 E Fort Worth	01	1240CST			0	0	?	?	Thunderstorm Winds (G56)
Crowley	01	1240CST			0	0	?	?	Hail (0.75)
Arlington	01	1258CST			0	0	?	?	Hail (1.00)

Strong winds blew down a 115-foot police communications tower in Richland Hills.

Hood County 10 SE Granbury	01	1240CST			0	0	?	?	Hail (0.75)
Dallas County Grand Prairie	01	1258CST			0	0	?	?	Hail (1.00)
Grand Prairie	01	1304CST			0	0	?	?	Hail (0.75)
Mesquite	01	1335CST			0	0	2	?	Thunderstorm Winds

A downburst damaged one residence in Mesquite.

Knox County Benjamin	01	1442CST			0	0	?	?	Hail (1.25)
Knox City	01	1705CST			0	0	?	?	Hail (0.75)
Baylor County Lake Kemp	01	1532CST			0	0	?	?	Hail (1.00)
Seymour	01	1800CST			0	0	?	?	Thunderstorm Winds (G70)
Haskell County 5 N Stamford	01	1730CST			0	0	?	3	Hail (1.75)

Golf ball-size hail damaged several acres of cropland 5 miles north of Stamford.

Shackelford County 3 E Lueders	01	1830CST			0	0	0	0	Hail (0.75)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Northern Cont'd

Clay County
1 E Vashti
Holliday

01	1930CST					0	0	3	0	Lightning Hail (0.88)
01	1945CST					0	0	0	0	

Lightning ignited a fire to a barn 1 mile east of Vashti.

Grayson County
Whitesboro
Denton County
4 N Oliver
Brown County
Lake Brownwood
Erath County
Stephenville
Stephenville

01	2114CST					0	0	0	0	Hail (1.75)
01	2114CST					0	0	0	0	
01	2135CST					0	0	?	?	Hail (1.75)
01	2230CST					0	0	0	0	
01	2240CST					0	0	0	0	Thunderstorm Winds (G53) Thunderstorm Winds

Strong winds blew down several trees and power lines in Stephenville at both 2230 and 2240 CST.

Northern Texas 02

High winds generated by thunderstorms occurring south of northern Texas resulted in isolated occurrences of wind damage to several counties in northern Texas.

Tarrant County
Benbrook
3 SW Fort Worth
Mansfield

02	0000CST					0	0	0	0	High Winds High Winds High Winds
02	0015CST					0	0	3	0	
02	0030CST					0	0	3	0	

High winds produced wind gusts of 60 mph in Benbrook. Several power lines were blown down and a couple of residences sustained roof damage in Mansfield and 3 miles southwest of Fort Worth.

Dallas County
Oak Cliff
Duncanville
Dallas

02	0030CST					0	0	4	0	High Winds High Winds High Winds
02	0030CST					0	0	4	0	
02	0045CST					0	0	4	0	

High winds blew down numerous power lines, trees, and shingles off the roof of several residences in Oak Cliff, Duncanville, and Dallas.

Ellis County
Waxahachie
Ennis
Ferris

02	0040CST					0	0	4	0	High Winds High Winds High Winds
02	0045CST					0	0	3	0	
02	0105CST					0	0	4	0	

High winds blew down power lines and shingles off the roof of several residences in Waxahachie. In Ennis, the arms of a railroad crossing were snapped off while power lines were blown down. In Ferris, several trees were uprooted and large tree limbs were blown onto power lines and the roof of several homes, while the awning was peeled off of several businesses.

Northern Texas 03

Strong thunderstorms developed over northern Texas along and near a warm front that stretched from Texarkana to Fort Worth to Abilene.

Bowie County
New Boston

03	1200CST- 1600CST					0	0	0	0	Flash Flooding
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Heavy rains of 5 inches resulted in high water over several roadways in New Boston.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Northern Cont'd

Dallas County

Garland	03	1405CST							Thunderstorm Winds (G74)
Mesquite	03	1421CST							Hail (1.00)
Dallas	03	1425CST							Hail (1.00)
Mesquite	03	1425CST							Hail (0.75)
Dallas	03	1435CST							Thunderstorm Winds
Wilmer	03	1450CST				4	0		Thunderstorm Winds

Strong winds blew down several large tree limbs onto power lines in Dallas and uprooted two trees in the White Rock addition of Dallas. Strong winds damaged the roof of several buildings in Wilmer.

Kaufman County

3 E Terrell	03	1450CST							Thunderstorm Winds
Kaufmann	03	1510CST							Hail (0.75)
1 E Kemp	03	1540CST							Thunderstorm Winds
5 S Kemp	03	1600CST				4	0		Thunderstorm Winds
Mabank	03	1630CST			1	5	0		Thunderstorm Winds

Strong winds blew down several trees and power lines 3 miles east of Terrell and 1 mile east of Kemp. At 5 miles south of Kemp, several trees were uprooted, the roof of a mobile home was lifted off, and several homes were damaged. In Mabank, one home was destroyed, several mobile homes and businesses damaged, two tractor-semitrailers were overturned, and power lines were blown down.

Taylor County

Abilene	03	1510CST							Hail (1.00)
Abilene	03	1542CST							Hail (1.75)
Dyess AFB	03	1635CST							Hail (1.00)
Ellis County									
Waxahachie	03	1515CST				?	?		Thunderstorm Winds
12 E Waxahachie	03	1530CST				?	?		Thunderstorm Winds

Strong winds blew down several large trees in Waxahachie and 12 miles east of Waxahachie.

Navarro County

Corsicana	03	1550CST				4	0		Thunderstorm Winds
Round Prairie	03	1615CST				0	0		Thunderstorm Winds (G74)
Bazette	03	1645CST				4	0		Thunderstorm Winds
Eureka	03	1645CST				3	0		Thunderstorm Winds
Purdon	03	1650CST				0	0		Thunderstorm Winds
Eldorado Center	03	1720CST				0	0		Thunderstorm Winds

Strong winds blew down power lines and lifted the roof off a business in Corsicana. In Bazette, the roof of a residence was lifted off and several mobile homes were damaged. Strong winds also damaged a couple of homes in Eureka and blew down trees at both Purdon and Eldorado Springs.

Rusk County

Longview	03	1600CST-1900CST				0	0	0	0	Flash Flooding
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Heavy rains resulted in the flash flooding of several roadways in Longview where high water was observed up to a depth of 1.5 feet.

Tarrant County

5 NW Benbrook	03	1610CST							Hail (0.75)
Smith County									
Teasleville	03	1610CST				4	0		Thunderstorm Winds
Bullard	03	1615CST				0	0		Thunderstorm Winds
Tyler	03	1615CST				0	0		Thunderstorm Winds

Strong winds blew down several trees and damaged six homes in Teasleville. Strong winds also blew down several trees and power lines in both Bullard and Tyler.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Northern Cont'd

Henderson County
4 NE Tool
Tool

03	1630CST				0	0	4	0	Thunderstorm Winds
03	1635CST				0	0	4	0	Thunderstorm Winds

Strong winds uprooted a tree and blew it onto a mobile home at Seven Points (4 miles northeast of Tool) and destroyed a mobile home at Tool.

Hood County
Lipan
5 S Granbury
Hood County

03	1630CST				0	0	4	0	Thunderstorm winds
03	1725CST				0	0	0	0	Hail (0.88)
03	1730CST- 1930CST				0	0	0	0	Flash Flooding

Strong winds damaged the roof of several homes and blew down several trees and street signs in Lipan. Heavy rains of 4.50 inches resulted in the flash flooding of several creeks in Hood County. A truck was swept away by high water flowing through Stroud Creek while high water from Fall Creek flooded portions of eastern Hood County. High water was also observed at the Western Hills Harbor at Lake Granbury and over County Road 200 near the Briarwood addition of Granbury.

Cherokee County
Jacksonville
Jacksonville
Alto
Rusk

03	1645CST				0	4	6	0	Thunderstorm Winds
03	1730CST				0	0	6	0	Thunderstorm Winds
03	1750CST				0	0	0	0	Thunderstorm Winds
03	1745CST				0	0	4	0	Thunderstorm Winds Hail (0.88)

In Jacksonville at both 1645 and 1730 CST, strong winds damaged several residences, businesses, and mobile homes. In addition, windows were shattered, utility poles snapped, and several power lines and over a hundred trees were blown down. Flying debris also injured four persons in Jacksonville at 1645 CST. Damage estimates were near \$2.50 million. Strong winds also uprooted several trees and blew down power lines in both Alto and Rusk and damaged the roof of several homes in Rusk.

Van Zandt County
Oakland

03	1700CST				0	1	0	0	Lightning
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Lightning struck and injured a person in Oakland.

Anderson County
Cayuga
Montalba
Frankston

03	1705CST				0	0	0	0	Thunderstorm Winds (G52)
03	1725CST				0	0	0	0	Thunderstorm Winds (G52)
03	1730CST				0	0	0	0	Thunderstorm Winds

Strong winds of 60 mph blew down signs in Cayuga and uprooted several trees in Montalba. Strong winds also blew down large tree limbs onto power lines and roadways in Frankston disrupting electrical service for several hours.

Somervell County
Rainbow

03	1725CST				0	0	4	0	Thunderstorm Winds Hail (0.88)
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Glen Rose
Chalk Mountain

03	1745CST				0	0	5	0	Thunderstorm Winds
03	1750CST				0	0	0	0	Hail (0.75)

Strong winds damaged several homes, buildings, barns, and outdoor sheds in Rainbow. Strong winds lifted the roof off a mobile home and a building, destroyed a second mobile home, uprooted several trees, and damaged several outdoor buildings in Glen Rose.

Erath County
3 NW Huckabay
Dublin

03	1750CST				0	0	0	0	Hail (0.75)
03	1902CST				0	0	0	0	Hail (0.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

TEXAS, Northern Cont'd

Cooke County
Gainesville

24 0730CST 0 0 0 0 **Lightning**

Lightning struck and killed 15 cows in an open field in Gainesville.

Collin County
Plano

25 0340CST 0 0 5 0 **Lightning**

Lightning ignited a fire to an apartment complex and produced approximately \$250,000 damage.

Shelby County
Shelby

25 1635CST 0 0 0 0 **Hail (0.88)**

Bowie County
Wake Village

25 1654CST 0 0 5 0 **Thunderstorm Winds (G61)**
Hail (1.75)

Strong winds blew down numerous trees and damaged 13 homes at Wake Village.

Morris County

Omaha

25 1715CST 0 0 0 0 **Hail (1.75)**

Naples

25 1735CST 0 0 0 0 **Hail (1.00)**

7 NE Omaha

25 1955CST 0 0 0 0 **Hail (1.00)**

Nacogdoches County

Nacogdoches

25 1730CST 0 0 0 0 **Thunderstorm Winds**
Hail (1.75)

Oak Ridge

25 1730CST 0 0 0 0 **Hail (1.75)**

Melrose

25 1730CST 0 0 0 0 **Hail (1.75)**

Chireno

25 1730CST 0 0 0 0 **Thunderstorm Winds**

1 E Nacogdoches

25 1745CST 0 0 0 0 **Funnel Cloud**

A downburst blew down several trees at both Nacogdoches and Chireno.

Upshur County
Gilmer

25 1830CST 0 0 0 0 **Thunderstorm Winds**

Strong winds blew down a large tree onto a power line in Gilmer.

Harrison County

3 E Woodlawn

25 1850CST 0 0 0 0 **Thunderstorm Winds**

Marshall

25 1930CST 0 0 0 0 **Thunderstorm Winds**

Strong winds blew down several trees onto power lines 3 miles east of Woodlawn and at Marshall.

Bowie County
Nash

25 1850CST 0 0 0 0 **Thunderstorm Winds**

A downburst blew down several trees in Nash.

Harrison County

3 E Woodlaw

25 1850CST 0 0 0 0 **Thunderstorm Winds**

A downburst blew down several trees 3 miles east of Woodlaw.

Titus County

6 NNE Cookville

25 1955CST 0 0 0 0 **Hail (1.00)**

Mount Pleasant

25 2018CST 0 0 0 0 **Hail (0.75)**

Rusk County

Henderson

25 2000CST 0 0 0 0 **Thunderstorm Winds**
Hail (1.75)

Strong winds blew down several trees onto power lines in Henderson.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Northern Cont'd

Smith County	25	2010CST			0	0	0	0	Thunderstorm Winds
Winona	25	2035CST			0	0	0	0	Thunderstorm Winds
Lindale	25	2043CST			0	0	0	0	Thunderstorm Winds (G70)
Lindale	25	2050CST			0	0	5	0	Thunderstorm Winds
Tyler	25				0	0			Hail (1.75)

A downburst blew down several trees at both Winona and Lindale. Strong winds blew down several large trees onto power lines and damaged several mobile homes and businesses in Tyler. Approximately 7,000 residences were without power for an extended period of time in Tyler.

Gregg County	25	2030CST-			0	0	0	0	Flash Flooding
Kilgore		2300CST							

Heavy rains in a short period of time flooded several businesses with high water in Kilgore.

Van Zandt County	25	2100CST			0	0	0	0	Hail (0.75)
Van									
Henderson County	25	2130CST			0	0	0	0	Thunderstorm Winds
Athens									

A downburst blew down several trees in Athens.

Leon County	25	2205CST			0	0	0	0	Thunderstorm Winds
2 N Centerville									

Strong winds blew down large tree limbs onto power lines 2 miles north of Centerville.

Angelina County	25	2257CST			0	0	0	0	Lightning
Lufkin									

Lightning ignited a fire to a utility transformer in Lufkin.

Northern Texas	26				1	0	0	0	Excessive Heat
Dallas County									
Bell County	26				0	1	0	0	Excessive Heat

Excessive heat was attributed to one fatality by hypothermia in Dallas and one injury due to heat exhaustion in Killeen. (M530)

TEXAS, Southern

Menard County	03	2130CST			0	0	?	?	Thunderstorm Winds (?)
Menard									

High winds from a thunderstorm downed trees, damaged roofs, and broke out windows in Menard. A few outbuildings were blown off foundation blocks.

Travis County	04	0004CST			0	0	?	?	Thunderstorm Winds (?)
Austin									
	04	0004CST			0	0	0	0	Hail (1.75)

High winds from a thunderstorm blew over trees in scattered parts of the city. The trees and limbs fell on power lines and parts of the city were without power for several hours. Hail the size of golf balls fell 7 miles east of Austin.

Guadalupe County	04	0030CST			0	0	?	0	Thunderstorm Winds (?)
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High winds from a thunderstorm ripped the roof off a mobile home southeast of New Braunfels off FM Road 725.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Southern Cont'd

Caldwell County Lockhart	04	0100CST								Thunderstorm Winds (?)
High winds from a thunderstorm blew over trees in Lockhart.										
Jefferson County Beaumont	04	1618CST								Hail (1.00)
One-inch-size hail fell in Beaumont. Five inches of rain fell in some parts of town and flooded streets.										
Jefferson County Nederland	25	1010CST								Lightning
Lightning struck and killed a man. The man was a contractor and was directing dump trucks at a landfill site when he was struck by the lightning bolt. (M370)										
Jasper County Bessmay	25	1350CST								Hail (0.90)
Jasper County Jasper	25	1500CST								Hail (1.75)
Harris County IAH	25	1620CST								Thunderstorm Winds (G59)
High winds from a thunderstorm gusted to 68 mph at the Houston Inter Continental Airport north of the city.										
Fayette County Ellinger	25	1900CST								Hail (2.00)
	25	1900CST								Thunderstorm Winds (?)
High winds from a thunderstorm broke out windows of homes and automobiles. Trees were uprooted and outbuildings damaged.										
Colorado County N of Columbus	25	1910CST								Hail (0.75)
Fayette County 5 NE Cistern	25	2005CST								Hail (1.75)
Jefferson County Beaumont	27	1445CST								Hail (0.75)
TEXAS, Western										
King County Guthrie	01	0920CST								Flash Flood
Garza County Post	01	1000CST								Flash Flood
Train-effect thunderstorms over King and Garza counties resulted in flash flooding. The King County Sheriff's Office reported floodwaters over US Highway 82 in Guthrie, while the Garza County Sheriff's Office observed floodwaters over US Highway 380 and several secondary highways. Motorists avoided the flooding, which lasted until 1325 CST, and only minor damage was reported.										
Fisher County Roby	01	1050CST								Thunderstorm Winds (G54)
Downtown winds downed several power lines near Roby at 1050 CST.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Western Cont'd

Garza County									
5 SW Post	01	1215CST			0	0	2	0	Hail (1.50)
5 NE Post	01	1250CST			0	0	3	2	Hail (2.50)
Post	01	1351CST			0	0	2	2	Hail (1.75)

The Garza County Sherriff's Office reported ping pong-ball-size hail 5 miles southwest of Post at 1215CST. The sheriff's office observed tennis ball-size hail 5 miles northeast of Post at 1250 CST. About an hour later, the public reported golf ball-size hail in Post. Only minor damage resulted.

Crane County									
10 NW Crane	01	1339CST			0	0	0	0	Hail (0.75)
8 NW Crane	01	1344CST			0	0	0	0	Hail (1.00)
8 W Crane	01	1356CST			0	0	0	0	Hail (1.75)

A severe thunderstorm in northwestern Crane County produced up to golf ball-size hail, according to SKYWARN spotters. The hail fell over open country and no damage resulted.

Crane County									
8 W Crane	01	1420CST			0	0	0	0	Hail (1.75)
8 W Crane	01	1423CST	1.3	100	0	0	0	0	Tornado (F1)

The Crane County storm evolved into a supercell as it moved slowly southeast. A SKYWARN spotter observed golf ball-size hail and a tornado 8 miles west of Crane at 1420 to 1423 CST. The storm was still over open country and no damage resulted.

King County									
12 SW Guthrie	01	1421CST			0	0	0	0	Hail (1.75)

The King County Sheriff's Office observed golf ball-size hail in southwestern King County at 1421 CST. No damage resulted.

Garza County									
6 E Justiceburg	01	1435CST			0	0	0	0	Hail (0.75)
6 E Justiceburg	01	1435CST			0	0	0	0	Thunderstorm Winds (G51)

The public reported dime-size hail and wind gusts to 60 mph 6 miles east of Justiceburg. No damage was observed.

Crane County									
5 NW Crane	01	1439CST			0	0	2	0	Hail (2.00)
Crane	01	1459CST			0	0	3	2	Hail (2.50)

As the Crane County supercell moved over the city of Crane, SKYWARN spotters observed hail up to tennis ball-size. Only minor damage was reported.

Kent County									
12 NW Clairemont	01	1440CST			0	0	0	0	Hail (1.75)

Spotters at the Mobil Gas Plant in western Kent County reported golf ball-size hail at 1440 CST. No damage resulted.

Pecos County									
Girvin	01	1518CST	1.1	70	0	0	0	0	Tornado (F0)

A supercell developed on the south flank of the Crane County supercell. This storm produced a tornado over open country near Girvin, as observed by the Upton County Sheriff's Office.

Crane County									
1 S Crane	01	1518CST	1.2	100	0	0	0	1	Tornado (F1)

The Crane County supercell produced a tornado 1 mile south of Crane, as reported by the Crane County Sheriff's Office. The small tornado remained over open country and no significant damage resulted.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Western Cont'd

Scurry County
7 N Snyder
Snyder

01	1535CST				0	0	2	0	Hail (1.75)
01	1550CST				0	0	3	1	Thunderstorm Winds (G52)

Spotters reported golf ball-size hail and wind gusts to 60 mph from a thunderstorm which tracked across Scurry County. In Snyder, minor damage was reported to tree limbs, windows, and outbuildings.

Fisher County
Roby

01	1610CST				0	0	2	1	Hail (2.75)
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Baseball-size hail fell near Roby. No significant damage resulted.

Reagan County
12 SW Big Lake

01	1617CST				0	0	0	0	Funnel Cloud
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The Reagan County Sheriff's Office observed a funnel cloud in southern Reagan County.

Pecos County
26 WNW-5 SW
Iraan
15 WNW Iraan

01	1620CST	22	*0.7		2	21	7	5	Tornado (F4)
01	1630CST				0	0	3	2	Hail (4.00)

The Girvin supercell intensified dramatically as it drifted southeast. The storm produced a violent long-track tornado accompanied by (at least) grapefruit-size hail. The tornado touched down at 1620 CST 10 miles southwest of McCamey and moved slowly east-southeast, producing intermittent F0 damage for the first 2 to 3 miles.

The tornado rapidly grew in size and intensity as it approached Farm-to-Market Road (FM) 1901. F3 damage was inflicted on an agricultural cooperative building. The damage path increased to roughly 1.3 miles as the tornado reached F4 intensity. A newly-constructed two-story adobe brick house was leveled and a half-mile-wide swath of vegetation was completely scoured. Two miles downstream, a 300-foot section of asphalt was removed from the highway along which the tornado traveled.

The tornado then weakened to F2 intensity, but it became a killer. A man driving a dump truck and a family of four in a pickup truck were among the many people caught on the road as the tornado approached. The dump truck driver and the father of the family were killed as their vehicles were swept 400 to 600 feet off the road.

The tornado again increased to F4 intensity as it approached US Highway 190. Two oil storage tanks, full with 500 barrels of oil and weighing about 70 tons each, were wrenched from their tank battery, rolled 3 miles across a field, and pushed 600 feet up the side of a mountain. Fifty-seven pump jacks (oil field pumps) were damaged or destroyed by the tornado before it lifted 5 miles southwest of Iraan at 1730 CST. Total damage estimates from the tornado are approximately \$30 to 40 million. (M70V, M43V)

Pecos County
3 E Bakersfield

01	1740CST	2.1	110		0	0	4	2	Tornado (F1)
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Another supercell developed south of the northern Pecos County storm. This storm produced a tornado which overturned a tractor-semitrailer on Interstate 10 east of Bakersfield at 1740 CST.

Terrell County
15 S Sheffield
Pecos County
Sheffield

01	1845CST				0	0	0	0	Hail (0.75)
01	1900CST				0	0	0	0	Hail (0.75)

As the Pecos County storm complex continued southeast, dime-size hail was observed by a spotter 15 miles south of Sheffield, and by a cooperative observer in Sheffield. No damage was reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C R O P S	

TEXAS, Western Cont'd

Tom Green County

San Angelo	01	1930CST			0	0	4	3	Thunderstorm Winds (G52)
San Angelo	01	2000CST			0	0	1	1	Thunderstorm Winds (G50)

Downburst winds estimated at 61 mph damaged small buildings and uprooted trees in San Angelo, according to spotters. At 2000 CST, the wind gusted to 58 mph at the Weather Service Office at Mathis Field.

Reagan County

3 NNE Big Lake	01	2325CST	1.6	70	0	0	0	0	Tornado (F0)
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The Reagan County Sheriff's Office observed a tornado just north of Big Lake at 2325 CST. The tornado was over open country and no damage resulted.

Reeves County

Pecos	03	1606CST			0	0	0	0	Hail (1.00)
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Quarter-size hail fell in the city of Pecos at 1606 CST at reported by Radio Station KIUN in Pecos.

Sterling County

6 N Sterling City	03	1740CST			0	0	0	0	Hail (1.75)
Sterling City	03	1751CST			0	0	2	2	Hail (1.75)

The Texas Department of Public Safety reported golf ball-size hail 6 miles north of Sterling City at 1740 CST. Golf ball-size hail was observed in Sterling City 11 minutes later. No significant damage resulted.

Irion County

Barnhart	03	1930CST			0	0	4	3	Thunderstorm Winds (G58)
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The Irion County Sheriff's Office reported downburst winds estimated to 65 mph which uprooted trees and damages small buildings in Barnhart at 1930 CST.

Upton County

Rankin	06	1644CST			0	0	0	0	Hail (1.00)
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The public reported three-quarter- to 1.00-inch hail in Rankin.

Andrews County

8 E Andrews	07	1930CST			0	0	0	2	Hail (1.00)
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The public observed quarter-size hail 8 miles east of Andrews at 1930 CST. No significant damage resulted.

Gray County

3 N Pampa	08	1735CST	1.4	90	0	0	0	0	Tornado (F1)
5 E Pampa	08	1827CST	1.2	80	0	0	0	0	Tornado (F0)
Pampa	08	1900CST			0	0	0	0	Hail (0.88)

The public reported a tornado 3 miles north of Pampa at 1735 CST. Almost an hour later, the Texas Department of Public Safety observed a tornado 5 miles east of Pampa. The Pampa Police Department observed nickel-size hail in Pampa at 1900 CST. No damage was reported from any of the severe weather events.

Carson County

Panhandle	08	1830CST	0.8	70	0	0	0	0	Tornado (F0)
Panhandle	08	1830CST			0	0	2	2	Hail (2.75)
2 N Conway	08	1847CST	1.1	70	0	0	0	0	Tornado (F0)
2 N Conway	08	1849CST	0.9	60	0	0	0	0	Tornado (F0)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Western Cont'd

Thunderstorms tracking across Carson County produced a tornado and baseball-size hail in Panhandle at 1830 CST, according to the Carson County Sheriff's Office. At 1847 to 1849 CST, the Texas Department of Public Safety observed two tornadoes just north of Conway. No significant damage resulted from the tornadoes or the hail.

Carson County									
6 SE Panhandle	08	1904CST	2.6	300	0	0	2	1	Tornado (F2)
6 SE Panhandle	08	1910CST			0	0	1	1	Hail (1.75)
4 W Panhandle	08	1923CST	1.0	60	0	0	0	0	Tornado (F0)
12 SW Panhandle	08	1946CST	1.2	80	0	0	0	0	Tornado (F0)

A spotter observed a large tornado and golf ball-size hail 6 miles southeast of Panhandle at 1904 to 1910 CST. At 1923 CST, the public reported a tornado 4 miles west of Panhandle. The Amarillo Weather Service Office observed a tornado in extreme western Carson County at 1946 CST. No significant damage was reported.

Wheeler County Shamrock	08	1955CST	2.2	110	0	0	4	3	Tornado (F1)
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A tornado damaged a roof and a small building at a lumber yard in Shamrock. The tornado also uprooted trees in southwest Shamrock, according to the Shamrock Police Department.

Gray County 5 SW Pampa	08	2020CST	1.8	70	0	0	0	0	Tornado (F0)
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The Carson County Sheriff's Office reported a tornado in extreme western Gray County. The tornado was over open country and no damage resulted.

Armstrong County Washburn	08	1956CST			0	0	0	0	Hail (1.75)
Carson County 10 N Panhandle	08	2005CST	1.2	60	0	0	0	0	Tornado (F0)

The public reported golf ball-size hail in Washburn at 1956 CST. Nine minutes later, the Carson County Sheriff's Office observed a tornado 10 miles north of Panhandle. No damage resulted.

Randall County 12 NE Canyon	08	2025CST			0	0	0	0	Hail (1.00)
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A spotter reported quarter-size hail in northeastern Randall County. No damage was observed.

Wheeler County 1 E Wheeler	08	2050CST	1.6	200	0	0	4	3	Tornado (F2)
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The Wheeler County Sheriff's Office reported a tornado 1 mile east of Wheeler at 2050 CST. The tornado unroofed a brick home and damaged a vehicle and a grape arbor as it moved east of Wheeler.

Hansford County 10 NE Gruver	09	1923CST			0	0	0	0	Hail (0.75)
Sherman County 9 SE Texhoma	09	1923CST			0	0	0	0	Hail (0.75)

The Hansford County Sheriff's Office observed dime-size hail along the Hansford/Sherman county line. No damage was noted.

Moore County 10 E of Dumas	10	1908CST			0	0	?	?	Hail (4.00)
		1920CST			0	0	?	?	Hail (4.00)

Hail the size of grapefruits fell along State Highway 152 in eastern Moore County. Damage was undetermined.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

TEXAS, Western Cont'd

Potter County									
Valle De Oro	12	1736CST			0	0	0	0	Hail (1.00)
		1742CST			0	0	0	0	Hail (1.00)
15 N of Amarillo		1750CST			0	0	0	0	Hail (0.88)
Carson County									
Skellytown		1815CST			0	0	0	0	Hail (0.88)
4 N of White Deer		1819CST			0	0	0	0	Hail (0.88)
		1827CST			0	0	0	0	Hail (0.88)
Skellytown		1844CST			0	0	0	0	Hail (1.75)
Ern. Carson County		1900CST			0	0	0	0	Flash Flooding

A thunderstorm brought large hail to both counties, beginning with quarter-size hail that was observed by the Valle De Oro Fire Department at that far-western Potter County community. Hail the size of nickels was encountered 4 miles south of U.S. Highway 287, near the Canadian River, in Potter County. At 1815 CST nickel-size hail was reported at Skellytown (Carson County), and 4 minutes later 4 miles north of White Deer (Carson County). Hail the size of nickels was again reported at 1827 CST 4 miles north of White Deer. Then at 1844 CST the Skellytown Fire Department reported golf ball-size hail in that town. At 1900 CST rains from the mammoth storm brought flash flooding to the eastern part of the county. FM 294 between Skellytown and White Deer was covered by between 2- and 3-feet of water.

Dawson County									
Welch	12	1930CST			0	0	4	3	Thunderstorm Winds (G65)

Downburst winds of 75 mph blew through the western half of Dawson County. The winds damaged the football stadium and other buildings in Welch and downed trees in and near Lamesa. Power lines were downed near Patricia.

Lipscomb County									
Lipscomb	13	1725CST			0	0	0	0	Hail (0.75)

The Lipscomb County Sheriff's Office observed dime-size hail in Lipscomb at 1725 CST. No damage resulted.

Scurry County									
4 S Snyder	13	1725CST			0	0	4	3	Thunderstorm Winds (G54)

Downburst winds of 62 mph struck south of Snyder at 1725 CST. Several signs and small buildings were damaged, and large tree limbs were broken.

Childress County									
12 NW Childress	13	1740CST			0	0	2	1	Hail (1.75)
14 N Childress	13	1815CST			0	0	4	1	Thunderstrom Winds

The Texas Department of Public Safety reported golf ball-size hail 12 miles north-northwest of Childress at 1740 CST. Downburst winds downed 11 power poles in northern Childress County at 1815 CST according to a spotter.

Nolan County									
Roscoe	13	1835CST			0	0	4	1	Thunderstorm Winds (G62)
Sweetwater	13	1845CST			0	0	3	3	Thunderstorm Winds (G55)

A microburst moved across much of Nolan County. In Roscoe, a mobile home was overturned at 1835 CST. Ten minutes later, the Sweetwater Police and KXOX Radio reported wind gusts to 63 mph and damage to windows, signs, and trees in Sweetwater.

Coke County									
Bronte	13	2005CST			0	0	4	1	Lightning

Lightning started a fire which heavily damaged a residence in Bronte.

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JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Western Cont'd

Roberts County									
10 N Miami	14	1535CST			0	0	0	0	Funnel Cloud
10 NNW Miami	14	1544CST	0.7	75	0	0	0	0	Tornado (F0)

A thunderstorm produced a funnel cloud in eastern Roberts County at 1535 CST. Nine minutes later, a tornado briefly touched down. No damage resulted.

Hemphill County									
Canadian	14	1715CST			0	0	0	0	Hail (1.75)
Glazier	14	1810CST			0	0	2	1	Hail (1.00)

Golf ball-size hail fell in Canadian at 1715 CST, according to the Hemphill County Sheriff's Office. The Texas Department of Public Safety observed quarter-size hail near Glazier at 1810 CST. No significant damage was reported.

Motley County									
Matador	17	1622CST			0	0	2	0	Hail (1.00)
Matador	17	1625CST			0	0	3	3	Thunderstorm Winds (G52)

The Texas Department of Public Safety reported quarter-size hail in Matador at 1622 CST. Downburst winds from the thunderstorm blew down tree limbs and outbuildings in Matador according to the Matador Fire Department.

Potter County									
9 NNW Amarillo	19	1840CST			0	0	0	0	Thunderstorm Winds (G51)

The Potter County Sheriff's Office reported wind gusts to 60 mph at Valle De Oro in northwestern Potter County. No damage was noted.

Ochiltree County									
Perryton	21	1550CST			0	0	4	1	Thunderstorm Winds (G55)

Downburst winds damaged three hangars at the airport in Perryton according to the Ochiltree County Sheriff's Office.

Hemphill County									
6 E Glazier	21	1635CST			0	0	4	1	Thunderstorm Winds (G59)

The Hemphill County Sheriff's Office reported that downburst winds overturned a tractor-semitrailer 6 miles east of Glazier.

Dallam County									
Dalhart	21	1951CST			0	0	0	0	Thunderstorm Winds (G50)

Downburst winds gusted to 58 mph at the airport in Dalhart. No damage was noted.

Dawson County									
7 W Lamesa	24	1640CST	1.3	60	0	0	0	0	Tornado (F0)

The Dawson County Sheriff's Office and the Lamesa Police Department reported a small tornado in western Dawson County. No damage was observed.

Carson County									
Conway	27	1715CST			0	0	0	0	Hail (0.88)

The public observed nickel-size hail in Conway at 1715 CST. No damage resulted.

All of Western Texas	01-								
	30				1	5	0	5	Extreme Heat

June 1990 will go down as the hottest and driest June ever experienced in western Texas. For the month, Midland and El Paso had average maximum temperatures over 100°. Lubbock set

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

VERMONT Cont'd

Orleans County

Albany	18	1220EST			0	0	4	3	Thunderstorm Winds
Irassburg	18	1220EST			0	0	3	1	Thunderstorm Winds
Irassburg	18	1221EST			0	0	3	0	Lightning

Thunderstorms and lightning brought down trees and power lines throughout Orleans County.

Windham County

Athens	19	1610EST			0	0	2	0	Thunderstorm Winds
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Windsor County

Springfield	19	1640EST			0	0	2	2	Hail (0.75)
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Thunderstorms produced large hail and torrential rain for nearly 30 minutes. Strong gusty winds also brought down large tree limbs.

Essex County

Bloomfield	20	1820EST			0	0	4	0	Urban Flood
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Windsor County

Springfield	20	1845EST			0	0	4	0	Urban Flood
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Caladonia County

Waterford	20	1945EST			0	0	4	0	Flash Flood
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Flash amounts of rain fell in a short period of time in the northeastern area. In the village of Bloomfield, village (owned) highways were flooded. In Springfield, roads were washed out to a depth of 6 feet. Flood waters also affected one residence as well. In Waterford dirt roads were washed out when 1.45 inches of rain fell in a matter of minutes.

Orange County

Corinth	21	1703EST			0	0	3	1	Thunderstorm Winds
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E. Topsham	21	1706EST			0	0	3	3	Hail (1.00)
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Corinth	21	1735EST			0	0	2	0	Thunderstorm Winds
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Caladonia County

St. Johnsbury	21	1735EST			0	0	2	0	Thunderstorm Winds
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McIndor Falls	21	1745EST			0	0	2	2	Hail (0.75)
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Waterford	21	1755EST			0	0	4	0	Thunderstorm Winds
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Passumpsic	21	1755EST			0	0	2	0	Thunderstorm Winds
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E. Barnett	21	1755EST			0	0	3	3	Hail (1.00)
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St Johnsbury	21	1755EST			0	0	4	0	Lightning
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Waterford	21	1832EST			0	0	3	1	Hail (0.75)
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Essex County

Southern Sections	21	1845EST			0	0	3	2	Hail (0.75)
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Trees, tree limbs, and power lines were downed. Large hail destroyed some local crops. In McIndor Falls, hail accumulated several inches deep. At the Commerford Dam, in East Barnet, hail stones the size of quarters accumulated to between 6 and 8 inches deep.

Rutland County

Wallingford	23	1030EST			0	0	4	4	Thundrstorm Winds
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Washington County

Montpelier	23	Afternoon			0	0	4	0	Urban Flood
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Orange County

Brookline	23	Afternoon			0	0	5	5	Thunderstorm Winds (Downburst)
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Randolph	23	1100EST			0	0	4	4	Thunderstorm Winds
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Rutland County

Wallingford	23	1110EST			0	0	4	3	Thunderstorm Winds
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Windham County

Vernon	23	1115EST			0	0	3	0	Thunderstorm Winds
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Newfane	23	1135EST			0	0	6	4	Wall Cloud
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Caladonia County

St Johnsbury	23	Afternoon			0	0	5	?	Flash Flood
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

VERMONT Cont'd

Rutland County Shrewsbury Clarendon (Mill River)	23	Afternoon			0	0	4	4	Thunderstorm Winds
	23	1800EST			1	0	?	?	Flood

Thunderstorm winds ripped through Vermont during a Saturday afternoon. In Newfane winds disintegrated a barn, overturned a mobile home trapping an 81-year-old male, and took down power lines and trees. These same thunderstorms produced very heavy rain in the Mill River basin. Local citizens reported that the Mill River was near its crest when a nine-year-old female child was swept away. Rescuers recovered the body about 12 hours later. In Caladonia County, highway department crews had over two dozen roads washed out by overflowing drainage ditches and culverts. (F-9-O)

VIRGINIA

Orange County Burr Hill	03	1600EST			0	0	3	0	Lightning
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Lightning struck a herd of cows killing 30 of them. Monetary value of the cattle was estimated at \$15,000 to \$20,000.

Surry County Dendron 5 E Surry	03	1751EST							Thunderstorm Winds
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Trees reported down.

Gloucester County Edgehill	03	1805EST							Thunderstorm Winds
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A 2.5-foot-diameter oak tree was toppled.

Craig County Newcastle	08	0848EST- 0910EST			0	0	0	0	Hail (0.75) Thunderstorm Winds
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Sheriff's office and highway department reported three-quarter-inch hail and high winds.

Franklin County	08	1315CST- 1325EST			0	0	0	0	Hail (1.75)
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Sheriff's office reported golf ball-size hail in the Smith Mountain Lake area in the eastern part of the county.

Cities of Norfolk, Suffolk, Portsmouth, Virginia Beach, Chesapeake	08	1800EST			0	5	4	0	Thunderstorm Winds Hail (1.75)
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See details below.

10 N Suffolk	08	1630EST			0	0	0	0	Hail (1.75) Funnel Cloud
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Police reported hail to golf ball-size and a possible funnel cloud in the Chuckatuck section (10 miles north of Suffolk).

3 E Norfolk	08	1651EST			0	0	0	0	Thunderstorm Winds
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Winds gusted to 51 knots at Norfolk International Airport (ORF, 3 miles east of Norfolk).

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

VIRGINIA Cont'd

4 SE Norfolk	08	1715EST			0	5	4	0	Thunderstorm Winds
An automobile repair shop in the southeastern part of the city was unroofed by violent winds; four customers and one employee in the shop were slightly injured by flying debris.									
4 SW Virginia Beach	08	1715EST			0	0	0	0	Thunderstorm Winds
Police reported trees down in the Kempsville area (4 miles southwest of Virginia Beach).									
Portsmouth	08	1720EST			0	0	0	0	Thunderstorm Winds
Police reported trees downed.									
7 SW Chesapeake	08	1750EST			0	0	0	0	Hail (0.75)
Reported in the Deep Creek section (7 miles of southwest of Chesapeake).									
Shenandoah County New Market	08	1735EST			0	0	0	0	Hail (1.75)
Dinwiddie County	08	2025EST			0	0	0	0	Hail (1.50)
One and one-half-inch diameter hail in east-central Dinwiddie County reported by public.									
Prince George County Disputanta	08	2055EST			0	0	0	0	Hail (1.00)
Spotter reported 1-inch-size hail.									
Gloucester County 5-10 N Gloucester	09	0000EST			0	0	0	0	Hail (1.00)
Hail to 1 inch reported by police.									
Campbell County	09	1600EST- 1630EST			0	0	0	0	Thunderstorm Winds
State Police reported trees down.									
Franklin County Rocky Mount	09	1630EST- 1700EST			0	0	4	0	Thunderstorm Winds
County sheriff's department reported trees down and damage to buildings from falling trees estimated at up to \$80,000. Most damage occurred in Rocky Mount.									
Loudoun County Leesburg	09	1645EST- 1650EST			0	0	5	0	Hail (1.75) Thunderstorm Winds
At Leesburg Municipal Airport, winds estimated at 100 mph destroyed two light planes and damaged about ten others after they broke loose from their moorings. Golf ball-size hail was also reported.									
Loudoun County Hamilton	09	1645EST- 1700EST			0	0	3	0	Thunderstorm Winds
Trees and power lines were downed.									
Lovettsville	09	1645EST			0	0	0	0	Hail (1.75)
Hillsboro	09	1715EST			0	0	0	0	Hail (1.75)
Countryside	09	1715EST			0	0	0	0	Hail (0.75)
Broad Run Farms	09	1715EST			0	0	0	0	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

VIRGINIA Cont'd

Fauquier County Delaplane	09	1726EST			0	0	0	0	Hail (1.25) Thunderstorm Winds
Winds were estimated at 60 mph.									
Fairfax County 1 ESE Annandale	09	1750EST			0	0	3	0	Hail (0.75) Thunderstorm Winds
Power lines were down with dime-size hail 1 mile east-southeast Annandale.									
Henry County Bassett	09	1710EST			0	0	3	0	Thunderstorm Winds
Sheriff's department reported trees and power lines down.									
Bassett Fieldale	09	1800EST			0	0	4	0	Thunderstorm Winds
Franklin County	09	2000EST							Flash Flooding
Flash flooding was reported in the Bassett and Fieldale areas where a few basements were flooded. Over 4 inches of rain fell at Sanville. In Franklin County authorities reported several trees downed by high winds and several roofs of houses damaged.									
Rockbridge County City of Lexington	09	1730EST- 1800EST			0	0	4	0	Thunderstorm Winds
Trees were reported downed at several locations in Lexington and Rockbridge County.									
Rockingham County Elkton, Lacey Spring	18	1400EST 1500EST			0	0	3	0	Thunderstorm Winds
Winds estimated at 50 mph unroofed a store in Elkton causing about \$6,000 damage to the store. Several trees were uprooted in Elkton and Lacey Spring.									
Page County Shenandoah	18	1400EST- 1500EST			0	0	0	0	Thunderstorm Winds
Trees were reported down.									
Madison County	18	1514EST			0	0	0	0	Thunderstorm Winds
Several trees were reported downed.									
Orange County Orange	18	1510EST- 1700EST			0	0	0	2	Thunderstorm Winds Flooding
Trees downed at Orange and other places in the county, along with street flooding in Orange. Cornfields were destroyed at the agricultural research station in Orange.									
Campbell County Altavista	18	1715EST- 1730EST			0	0	3	0	Thunderstorm Winds
Downed trees and power lines resulted from brief thunderstorm winds. A large tree fell onto a house causing an undertermined amount of damage.									
Halifax County Volens	18	1539EST			0	0	0	0	Thunderstorm Winds
Winds estimated at 70 knots occurred at Volens (VQN).									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L L E D	I N J U R E D	P R O P E R T Y	C O R P S	

VIRGINIA Cont'd

Bath County Cedar Creek	22	1430EST			0	0	3	0	Thunderstorm Winds
									Thunderstorm winds uprooted trees and knocked a mobile home off its foundation; power outages from falling trees affected 2,200 customers.
Millboro	22	1430EST			0	0	0	0	Thunderstorm Winds
									State officials reported many trees were downed.
2 ESE Healing Springs	22	1430EST			0	0	0	0	Thunderstorm Winds
									Winds at the Ingalls Field Airport were measured to 90 mph.
Alleghany County Falling Spring	22	1500EST							Thunderstorm Winds
									Dozens of trees were downed.
City of Richmond	22	1430EST- 1500EST			0	0	3	0	Thunderstorm Winds
									In the northern part of the city a tree was blown down, crushing a car.
Cities of Norfolk, Chesapeake, Virginia Beach	22	1515EST- 1530EST			0	0	3	0	Thunderstorm Winds
									See details below.
12 N Virginia Beach	22	1515EST			0	0	0	0	Thunderstorm Winds
									Winds of 60 knots (69 mph) were recorded at the South Island Chesapeake Bay Bridge Tunnel (about 12 miles north of Virginia Beach).
Chesapeake	22	1520EST			0	0	3	0	Thunderstorm Winds
									A turkey house (presumably a fairly large structure) was unroofed.
Norfolk	22	1530EST			0	0	2	0	Thunderstorm Winds
									Two sheds were destroyed along with considerable tree damage.
Virginia Beach	22	1530EST							Thunderstorm Winds
									Trees were downed.
City of Norfolk 5 N Norfolk	22	1530EST			0	0	0	0	Waterspout
									The public reported a waterspout over the Chesapeake Bay off Ocean View (location estimated 5 miles north of Norfolk).
Middlesex, Essex Counties Jamaica	22	1600EST- 1615EST			0	0	0	0	Thunderstorm Winds
									Sheriff's departments in both counties reported trees downed, near Jamaica in northern Middlesex County, and in southern Essex County near the Rappahannock River.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WEST VIRGINIA Cont'd

Putman County Poca	08	0545EST			0	0	0	0	Hail (0.75)
Roane County Gandeeville	08	0606EST			0	0	0	0	Hail (0.08)
Kanawha County 2 SE Charleston	08	0615EST			0	0	0	0	Hail (1.00)
Sissonville	08	0710EST			0	0	0	0	Hail (0.75)
Clay County Bickmore	08	0650EST			0	0	0	0	Hail (0.75)
Fayette County Ansted	08	0701EST			0	0	0	0	Hail (0.75)
Preston County Arnettville	08	0715EST			0	0	0	0	Hail (0.75)
Kingwood	08	0800EST			0	0	0	0	Hail (1.00)
Marion County 4 SW Fairmont	08	0715EST			0	0	2	0	Thunderstorm Winds

Dime- to nickle-size hail occurred in several locations. Quarter-size hail fell in the Kanawha City section of Charleston and in Kingwood. Several trees were blown down at Whitehall in southern Marion County.

Mason County Hogsett	08	0010EST			0	0	3	0	Thunderstorm Winds
	09	0150EST			0	0	3	0	Thunderstorm Winds

Several power poles were downed by falling trees along Route 2 by two separate storms.

Wirt County Elizabeth	09	0230EST			0	0	3	0	Lightning
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Four cows were killed after lightning struck the top of an elm tree, under which they had gathered. Animals valued at \$4,000.

Braxton County Southern & Western portion	09	0500EST- 0700EST			0	0	3	0	Flash Flood
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Several streams flooded and blocked secondary roads. Two Lick Run flooded near Little Birch. Little Otter Creek overflowed near Cutlip. Crooked Fork flooded northeast of Rosedale.

Roan County Spencer	09	1411EST			0	0	0	0	Hail (0.75)
Calhoun County Orma	09	1500EST- 1700EST			0	0	?	0	Flash Flood
Cloe		1500EST			0	0	0	0	Hail (0.75)
Gilmer County Shock-Normantown	09	1550EST			0	0	2	0	Flash Flood

Minor small stream flooding occurred along the two forks of Steer Creek in Gilmer County and along the West Fork of the Little Kanawha River in Calhoun County.

Jefferson County Charles Town	09	1600EST			0	0	0	0	Hail (1.00)
Lewis County Weston	09	1700EST			0	0	2	0	Thunderstorm Winds
Marion County Worthington	09	1730EST			0	0	2	0	Thunderstorm Winds

Several trees and power lines were blown down in Weston and Worthington.

Grant County Bayard	09	1700EST			0	0	2	0	Flash Flood
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILL	INJURY	PROPERTY	CRODAS	

WEST VIRGINIA Cont'd

Lewis County Wymer	09	1730EST			0	0	?	0	Flash Flood
Preston County Albright, Fellowsville & Aurora	09	1730EST			0	0	?	0	Flash Flood

Minor flooding was observed along Route 90 in Grant County when a stream and pond overflowed. Wolfpen Run flooded near Wymer in Lewis County. Several washouts along roads in Preston County near Albright, Fellowsville, and Aurora.

Clay County 2 N Ivydale	09	1630EST- 1900EST			0	0	5	3	Flash Flood
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Flood waters from Rush Fork of Big Otter Creek damaged 6 homes, washed away 2 vehicles, destroyed 20 gardens, and damaged 2 state bridges and 1 private bridge. Damage estimated \$75,000.

Braxton County 1 W Chapel	09	1700EST- 1900EST			0	0	?	?	Flash Flood
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Crooked Fork overflowed.

Harrison County Nutter Fort	09	1630EST- 1800EST			0	0	3	0	Flash Flood
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Several homes had flooded basements. Elk Creek overflowed across Route 20.

Nicholas County Summersville Hookersville Drennen	09	1800EST- 2100EST			0	0	5	2	Flash Flood
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Peters, Muddlety, McKee, and Arbuckle Creeks flooded. One home was destroyed along Muddlety Creek. Seven homes briefly had 3 feet of water inside from Peters Creek. Five private bridges and 2 vehicles destroyed along Peters Creek. Several businesses in Summersville had a foot of water inside. Estimated damage \$60,000.

Rainfall of 1.50 to 2.50 inches fell over the Little Kanawha and upper Elk River Valleys during the early morning on June 9th. Rosedale of western Braxton County measured 2.28 inches ending at dawn on June 9th. Thunderstorms redeveloped around 1400 EST ahead of a slow-moving cold front. These showers dumped another 1.50 to 3.00 inches across central West Virginia. Birch River had an inch in 15 minutes. Summersville Dam reported over 2 inches in the 24-hour period ending at dawn on June 10th.

Brooke County Wellsburg	14	1845EST			0	0	0	0	Thunderstorm Wind
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Trees and power lines were blown down.

Ohio County 5 E Wheeling	14	1930EST- 2330EST			0	0	7	0	Flash Flood
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Little Wheeling Creek out of banks at Valley Grove; landslide on Route 40 near Wheeling; evacuations in Tridelpia; 320 homes had moderate to extensive damage; 35 mobile homes damaged; 40-50 cars totaled; several roads torn up. County officials in Moundsville measured 3.50 inches of rain in 2 hours.

Marshall County 7 N Moundsville	14 15	2022EST- 0100EST			0	0	4	0	Flash Flood
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Big Wheeling Creek flooded near Marwin subdivision. Boggs Run overflowed near Benwood.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WEST VIRGINIA Cont'd

Ohio County 2 S Wheeling	15 0100EST				0	0	4	0	Flash Flood Flooding at Elm Grove.
Wetzel County New Martinsville to 5 E New Martinsville	14 2300EST- 15 0300EST				0	0	6	?	Flash Flood Extensive flooding swept along the 5-mile reach of Doolin Run. Two houses and seven mobile homes were destroyed, eleven dwellings (houses and trailers) received major damage, approximately 100 vehicles damaged. Damage estimated at \$2 million.
Smithfield	14 2300EST- 15 0300EST				0	0	4	0	Flash Flood Fishing Creek flooded.
Marion County 1 NE Farmington	15 0030EST- 0300EST				0	0	3	0	Flash Flood Flooding along Dunkard Mill Run and Bethal Run forced evacuation of 15 people.
Monongalia County 2 SE Morgantown	14 2300EST- 15 0200EST				0	0	4	0	Poor Drainage Two inches of rain in 2 hours caused basement flooding and mudslides in Richards. Twelve homes were affected. Deckers Creek did not overflow. County jail inmates helped remove mud from basements. Damage estimated at \$6,000.
Tyler County 3 SW Middlebourne to Lonetree	15 0000EST- 0300EST				0	0	?	?	Flash Flood Little Sancho and Elk Fork Creeks overflowed their banks.
Gilmer County Northern, Central portions	15 0100EST- 0300EST				0	0	2	0	Flash Flood Tanner Creek around Newberne and Stewarts Creek east of Glenville overflowed.
Calhoun County White Pine	15 0100EST- 0300EST				0	0	?	?	Flash Flood Laurel Creek overflowed.
Monroe County 1 N Pickaway	22 1230EST- 1300EST				0	1	4	?	Thunderstorm Winds
Monroe County Greenbrier County 1.5 E Pickaway to 1 S Organ Cave	22 1810EST- 1845EST	5.0	150		0	0	5	3	Tornado (F2) Thunderstorm winds blew down several trees. A tree fell across Route 219, injuring a male motorist and destroying his car. A mobile home at Nickells Mobile Home Park was destroyed. Damage estimated at \$45,000. Later that same day and only about 2 miles southeast, a tornado touched down near Hillsdale and moved northeast. The tornado dissipated in southern Greenbrier County south of Organ Cave. Most of the damage was confined to about a 2-mile stretch in Monroe County. Severe roof damage to a church, several barns and outbuildings damaged or destroyed, and several TV antennas or satellite dishes were damaged. Numerous falling trees. Damage estimated \$75,000.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WEST VIRGINIA Cont'd

Raleigh County Maynor-Bradley	22	0700EST- 0800EST			0	0	?	?	Flash Flood Sand Branch and Maple Fork creeks overflowed. Numerous roads covered.
Greenbrier County White Sulphur Springs	24	1710EST			0	0	3	0	Thunderstorms Winds Numerous large trees were blown down in town.
Brooke County Wellsburg	28	1800EST			0	0	0	0	Flash Flood Road flooding in Wellsburg. Water one and one half feet over curb; also basement flooding.
Marion County Grant Town Fairview, Baxter, Grant Town	29	1745EST			0	0	0	0	Hail (0.75) Thunderstorm Winds Several trees and power lines were blown down. A roof was blown off a house and another roof collapsed onto a car near Grant Town.
Baxter	29	1800EST			0	1	0	0	Lightning A man was injured when struck by lightning while standing near the door of his barn.
Preston County Kingwood Tunnelton	28	1832EST			0	0	0	0	Hail (1.00) Thunderstorm Winds Several trees were uprooted.
Taylor County I W Grafton	29	1828EST			0	0	?	?	Thunderstorm Winds Several trees were blown down across Route 50.
Randolph County Valley Head	30	1800EST			0	0	0	0	Hail (1.75)
Calhoun County Big Springs	30	1900EST			0	0	0	0	Thunderstorm Winds
Wood County Parkersburg	30	1900EST			0	0	0	0	Thunderstorm Winds Trees were blown down around Parkersburg and northern portions of Calhoun County.
Cabell County Barboursville	30	1905EST			0	0	3	0	Flash Flood Several homes had flooded basements.
Pocahontas County 4 W Cass	30	1945EST			0	0	0	0	Hail (0.75) Dime-size hail fell at Snowshoe.
Preston County Bruceton Mills	30	2000EST			0	0	0	0	Thunderstorm Winds Large tree limbs were broken.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WEST VIRGINIA Cont'd

Braxton County Chapel	30	2000EST			0	0	0	0	Thunderstorm Winds
Gilmer County Normantown	30	2000EST			0	0	0	0	Thunderstorm Winds

Falling trees or large limbs reported throughout southern Gilmer County, along Route 7 in Braxton County and at Jane Lew in Lewis County.

Lewis County Jane Lew	30	2030EST			0	0	0	0	Thunderstorm Winds
Hampshire County Points-Slanesville	30	2100EST			0	0	2	0	Thunderstorm Winds

Several trees were blown down.

Preston County Bruceton Mills	30	2225EST			0	0	3	0	Thunderstorm Winds
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House siding was blown off one house. Several secondary roads were blocked by falling trees.

Randolph County Valley Head	30	2300EST- 2345EST			0	0	0	0	Flash Flood
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Minor flooding of streams occurred around Valley Head.

Preston County Brandonville	30	2315EST- 2345EST			0	0	0	0	Flash Flood
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Streams were over roads.

WISCONSIN

St. Croix County New Richmond	02	1400CDT			0	0	0	0	Thunderstorm Winds (G56)
Lacrosse County Barren Mills	02	1407CDT			0	0	5	0	Thunderstorm Winds
Grant County Boscobel	02	1410CDT			0	0	5	0	Thunderstorm Winds
Polk County Amery	02	1415CDT			0	0	0	0	Thunderstorm Winds (G52)
Jackson County Melrose	02	1420CDT			0	0	4	0	Thunderstorm Winds
Alma Center	02	1430CDT			0	0	?	0	Thunderstorm Winds
Eau Claire County 5 S Eau Claire	02	1425CDT			0	0	4	0	Thunderstorm Winds (G65)
Dunn County Norton	02	1430CDT			0	0	?	0	Thunderstorm Winds
4 NW Connorsville	02	1440CDT			0	0	4	0	Thunderstorm Winds (G61)
Dane County 2 WNW Middleton	02	1505CDT			0	0	0	0	Thunderstorm Winds (G52)
Deforest	02	1530CDT			0	0	?	0	Thunderstorm Winds
1/2 S Mcfarland	02	1530CDT			0	0	0	0	Thunderstorm Winds (G56)
Sawyer County Winter	02	1600CDT			0	0	5	0	Thunderstorm Winds
Jefferson County Lake Mills	02	1650CDT			0	0	0	0	Thunderstorm Winds
Cambridge	02	1650CDT			0	0	0	0	Thunderstorm Winds
Fond Du Lac County Fond Du Lac	02	1700CDT	1.0	100	0	1	6	0	Tornado (F2)
Walworth County 3 SE Lagrange	02	1700CDT	0.25	50	0	0	4	0	Tornado (F1)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WISCONSIN Cont'd

Outagamie County
Hortonville 02 1715CDT 0 0 4 0 **Thunderstorm Winds**

Severe thunderstorms rolled across Wisconsin during the afternoon hours downing several barns and sheds as well as numerous trees and power lines. A tornado touched down in the southwest sections of Fond Du Lac causing \$2 million in damage to an industrial park, several businesses, and a farm. A woman was cut by flying glass when a billboard shattered her car's windshield. Another tornado formed on the east beach of Lauderdale Lake in Walworth County downing trees and damaging four residences.

WIZOOS
Southern Wisconsin 03 Morning into Evening 1 1 ? 0 **High Winds**

A deep low pressure generated winds up to 56 mph across southern Wisconsin. The winds blew down trees and power lines and caused minor structural damage. A woman was killed and another injured when the tent in which they were sleeping was struck by a tree uprooted by the wind at Rocky Arbore State Park (Sauk County).

Pierce County									
River Falls	12	1825CDT			0	0	?	0	Hail (0.75)
4 WSW Ellsworth	12	1835CDT	0.5	75	0	1	5	0	Tornado (F1)
Prescott	12	1835CDT			0	0	3	0	Thunderstorm Winds (G52)
5 NE Hager City	12	1840CDT			0	0	3	0	Thunderstorm Winds
Martell	12	1845CDT			0	0	5	0	Thunderstorm Winds
Ashland County									
1.5 N Butternut	12	1847CDT			0	0	?	0	Thunderstorm Winds
St. Croix County									
Baldwin	12	1900CDT			0	0	?	0	Thunderstorm Winds
Wilson	12	1905CDT			0	0	?	0	Thunderstorm Winds
Dunn County									
1 N Knapp	12	1910CDT			0	3	5	5	Thunderstorm Winds
Wheeler	12	1920CDT			0	0	6	5	Thunderstorm Winds
Chippewa County									
Bloomer	12	1935CDT			0	0	?	0	Thunderstorm Winds (G63)
Chippewa Falls	12	1940CDT			0	0	?	0	Thunderstorm Winds (G62)
Boyd	12	1950CDT			0	0	4	0	Thunderstorm Winds
Eau Claire County									
Eau Claire	12	1935CDT			0	0	?	0	Hail (1.75)
Marathon County									
2 W Stratford	12	1935CDT	0.1	25	0	0	4	0	Tornado (F1)
Iron County									
Springsstead	12	2000CDT			0	0	4	0	Thunderstorm Winds
Taylor County									
2 W Medford	12	2030CDT			0	0	?	0	Thunderstorm Winds
Lincoln County									
Harrison	12	2030CDT			0	0	?	0	Thunderstorm Winds
Adams County									
Brooks	13	0025CDT			0	0	?	0	Thunderstorm Winds
Plainville	13	0310CDT			0	0	?	0	Thunderstorm Winds (G50)
Marquette County									
Westfield	13	0130CDT			0	0	?	0	Thunderstorm Winds
Westfield	13	0130CDT			0	0	?	0	Thunderstorm Winds (G56)
Juneau County									
8 N Mauston	13	0230CDT			0	0	?	0	Thunderstorm Winds
Washara County									
Wautoma	13	0310CDT			0	0	?	0	Thunderstorm Winds (G56)

Numerous severe thunderstorms producing hail up to golf ball-size, packing winds up to 70 mph and generating a pair of tornadoes, hit portions of Wisconsin during the evening and nighttime hours. Hardest hit by the severe thunderstorm winds included the Knapp-Wheeler area of Dunn County (\$4 million damage), and the Martell-Ellsworth area of Pierce County (\$310,000)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WISCONSIN Cont'd

damage). Throughout Dunn County, damage occurred to 25 barns and sheds, 22 homes, and 4 trailers. Three people were injured in Knapp when winds tore off the roof of their trailer. Scattered damage to barns, sheds, roofs, and numerous trees and power lines was reported in 11 other Wisconsin counties. In Pierce County, a tornado damaged a trailer 4 miles west-southwest of Ellsworth and flying glass injured a woman inside. Another small tornado hit a farm 2 miles southwest of Stratford in Marathon County.

Lacrosse County
West Salem
Rockland

19	2000CDT	0	0	3	?	Hail (1.00)
19	2007CDT	0	0	3	?	Hail (1.00)

A severe thunderstorm dropped hail up to 1 inch in diameter over the west Salem-Rockland areas.

WIZONE-OEC
Northeast and
East-Central
Wisconsin

22	Afternoon into Early Morning	0	0	7	5	Flooding
----	---------------------------------	---	---	---	---	----------

Heavy rainfall measuring over 6 inches in some locations in less than 24 hours caused widespread flooding over Brown, Manitowoc, Winnebago, Outagamie, Kewaunee, and Calumet counties. Over \$20 million in damage occurred in Brown County alone to 7,000 homes, numerous businesses, industry, and utilities. The hardest hit areas were along Green Bay's East River, Duck Creek in the town of Hobart, and the village of Howard, and the Fox River in Wrightstown. In Manitowoc County flood waters from the West Twin River closed roads and flooded homes around Shoto and Miskicot. Throughout the flooded area, portions of roads, highways, and a railroad bridge were washed out. Up to 50% of the corn crop in Kewaunee County was damaged by the rain as well as lesser amounts to pea and hay crops.

Burnett County

Webster
Grantsburg

25	2310CDT	0	0	?	0	Thunderstorm Winds
25	2330CDT	0	0	?	?	Hail (1.75)

Barron County

Eau Claire
Eau Claire

26	0157CDT	0	0	?	?	Thunderstorm Winds
26	0157CDT	0	0	?	?	Hail (0.75)

La Crosse County

West Salem

26	1800CDT	0	0	?	?	Hail (1.00)
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Severe thunderstorms knocked down trees and produced hail up to golf ball-size.

Fond Du Lac County

2 W Fond Du Lac

28	2330CDT	0	0	?	?	Hail (1.75)
----	---------	---	---	---	---	-------------

Fond Du Lac

28	2340CDT	0	0	?	?	Hail (0.75)
----	---------	---	---	---	---	-------------

Rock County

Beloit

29	0035CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Janesville

29	0035CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

3 SW Edgerton

29	0040CDT	0	0	5	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

1 W Footville

29	0045CDT	0	0	5	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Janesville

29	0050CDT	0	0	6	?	Thunderstorm Winds (G74)
----	---------	---	---	---	---	--------------------------

Beloit

29	0110CDT	0	0	5	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Green County

Albany

29	0037CDT	0	0	4	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Brodhead

29	0050CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Jefferson County

1 SW Fort

29	0045CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Atkinson

29	0045CDT	0	0	4	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Sullivan

Milwaukee County

Milwaukee

29	0100CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

Walworth County

1 S Darien

29	0130CDT	0	0	?	?	Thunderstorm Winds
----	---------	---	---	---	---	--------------------

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WISCONSIN Cont'd

WIZOSW
Southwestern Wisconsin

29	Early morning into	0	0	7	9	Flooding
30	Early morning	0	0	7	9	Flooding

Severe thunderstorms struck southern Wisconsin triggering hail up to golf ball-size and producing downburst winds up to 85 mph. Rock County received the brunt of the damaging winds which caused \$2.6 million in damage, mainly in the Footville, Janesville, and Beloit areas. The damage included 15 homes and two barns. Elsewhere, most of the damage was confined to trees and power lines. In addition, 5 to 8 inches of rain fell over southwestern Wisconsin resulting in widespread flooding to several communities. In all, over \$11 million in property damage occurred, including \$5 million to Crawford County, \$4.2 million to Sauk County, and \$1.5 million to LaFayette County. Other counties affected by flooding were Grant, Iowa, Dane, Juneau, Vernon, and Richland. The Pecatonica River crested 10 feet over flood stage in Darlington (LaFayette County) resulting in considerable flood damage to the downtown area. Numerous bridges and roads were also washed out. Crop losses in Iowa County alone amounted to over \$500,000 as 80% of the oat and barley crop were affected.

WYOMING

Laramie County
20 W Cheyenne

01	1515MST	0	0	0	0	Funnel Cloud
----	---------	---	---	---	---	--------------

A brief funnel cloud was sighted about 20 miles west of Cheyenne at 1515 MST.

WYZ016
Laramie Valley

02	0100MST-1000MST	0	0	0	0	High Wind
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Strong winds behind a cold front buffeted the Laramie Range. Sustained speeds of 40 to 45 mph with gusts to 70 mph occurred.

Laramie County
25-30 N Cheyenne
Goshen County
11 W Jay Em
Laramie County
25 NW Cheyenne
Laramie County
Near Cheyenne
Laramie County
30 ENE Cheyenne
Laramie County
25-30 NE Cheyenne

06	1315MST	0	0	0	0	Hail (0.75)
06	1610MST	0	0	0	0	Hail (0.75)
06	1721MST	0	0	0	0	Funnel Clouds
06	1745MST	0	0	0	0	Funnel Clouds
06	1900MST	0	0	0	0	Hail (1.00)
06	1959MST	0	0	0	0	Hail (0.75)

A series of severe thunderstorms moved through southeastern Wyoming on the afternoon and evening of the 6th. Hail up to three-quarter inch was reported 25 to 30 miles north of Cheyenne at 1315 MST. Similar size hail was reported 11 miles west of Jay Em at 1610 MST, 30 miles east-northeast of Cheyenne at 1900 MST, and 25 to 30 miles northeast of Cheyenne at 1959 MST. A few funnel clouds were observed between 1721 and 1745 MST some 25 miles northwest of Cheyenne and in the Cheyenne vicinity.

Niobrara County
15-20 SSE Lusk

06	1610MST-1640MST	0	0	0	0	Hail (0.75)
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A severe thunderstorm moved across southern Niobrara County between 1601 and 1640 MST, producing hail up to three-quarter inch diameter.

Laramie County
6 S Cheyenne

09	1712MST	0	0	0	0	Hail (1.75)
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

WYOMING Cont'd

Laramie County NW Part Cheyenne	09	1729MST- 1740MST							Hail (1.25)
A severe thunderstorm moved north through the Cheyenne area, dropping hail from one-half up to one and three-quarter inch in diameter between 1712 and 1740 MST.									
Natrona County 10 SW Casper	11	1045MST							Thunderstorm Winds (G55)
Thunderstorm winds to 65 mph took the roof off a barn and blew down three trees at 1045 MST some 10 miles southwest of Casper.									
WY2017 Southeastern Plains	11	1600MST- 2100MST							High Winds (G50)
Strong winds up to 60 mph blew behind a cold front across far southeastern Wyoming during the late afternoon and evening of the 11th.									
Sweetwater County Near Wamsutter	12	1530MST							Funnel Cloud
A brief funnel cloud was observed near Wamsutter at 1530 MST.									
Natrona County Casper Area	12	1620MST							Thunderstorm Winds (G51)
A thunderstorm produced gusts to about 60 mph as it went through the Casper area around 1620 MST.									
Laramie County 5-10 N Cheyenne	15	1500MST- 1520MST							Funnel Clouds
Laramie County 7 S Cheyenne	15	1535MST- 1545MST							Hail (1.75)
Laramie County Near Carpenter	15	1600MST- 1605MST							Hail (2.50)
Severe thunderstorms moved through Laramie County from 1500 to 1630 MST, producing some funnel clouds, along with infrequent hail of golf ball- and tennis-ball size.									
Sweetwater County Rock Springs	15	1430MST							Thunderstorm Winds (G50)
Thunderstorm winds of up to 60 mph roared through the Rock Springs area, causing minor damage to a few cars and households.									
Sublette County Near Pinedale	16	1345MST							Funnel Clouds
A few funnel clouds were sighted around the Pinedale area at 1345 MST.									
Big Horn County Near Lovell	18	1735MST							Thunderstorm Winds (G50)
Thunderstorm winds of about 60 mph blew a sign off a building around 1735 MST in Lovell.									
Niobrara County Near Van Tassell	20	1715MST							Hail (0.75)
A thunderstorm produced hail up to three-quarter-inch near Van Tassell around 1715 MST.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

ALASKA, Southern

None reported.

ALASKA, Southeastern

None reported.

HAWAII

None reported.

PACIFIC

Yap, WCI, FSM	24	0600LST			0	0	5	5	Typhoon Percy
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Typhoon Percy developed in the western Caroline Islands and passed within 10 miles of Ngulu Island on Sunday morning June 24th, 1990. Sustained winds at Yap were 35 to 40 knots with gusts to 55 knots. Gusts at Ngulu were estimated above 70 knots. Seven homes were destroyed on Ngulu and there was extensive damage to tender crops. Some wind damage was also reported on Yap in addition to surf damage along the eastern shoreline. Flooding also occurred due to heavy rainfall over the interior of Yap.

PUERTO RICO

None reported.

VIRGIN ISLANDS

None reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1990

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

CORRECTIONS

APRIL 1990

SOUTH CAROLINA - Page 137

HAIL - Add:	0	0	4	?	
THUNDERSTORM WINDS - Add:	0	14	6	?	
ALL OTHERS - Add:	0	0	?	?	

MAY 1990

MISSISSIPPI - Page 106

Wayne County 12 SW Buckatunna	21	1335CST	0	0	?	?	Hail (0.80)
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ADDITIONS

MAY 1990

FLORIDA

Alachua County Gainesville	27	1825EST	0	0	2	0	Thunderstorm Wind Hail (0.75)
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Marble-size hail fell in northern Gainesville. Numerous trees were also downed in the area.

Union County Columbia County	28	1330EST	0	0	1	0	Thunderstorm Wind
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Trees were downed by strong thunderstorm winds.

STORM SUMMARY

June 1990

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & D.C.	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
	TORNADOES			4		33	1	16			2	26	44	36	25	15	1		1			5	6	2	1	30	
Number			4		33	1	16			2	26	44	36	25	15	1		1			5	6	2	1	30		
Deaths			0		0	0	0			0	0	0	0	0	0	0		0			0	0	0	0	0		
Injuries			0		16	0	0			0	12	20	0	12	6	0		0			0	0	0	0	17		
Property Damage			0		0	0	0			0	0	0	0	0	0	0		0			0	0	0	0	0		
Crop Damage			0		6	0	0			0	5	7	5	6	5	0		0			0	0	0	0	6		
HAIL																											
Deaths	0		0		0						0	0	0	0	0	0		0			0	0	0	0	0		0
Injuries	0		0		0						0	0	0	0	0	0		0			0	0	0	0	0		0
Property Damage	0		0		0						0	0	0	0	0	0		0			0	0	0	0	0		0
Crop Damage	0		0		0						0	0	0	0	0	0		0			0	0	0	0	0		0
THUNDERSTORM WINDS																											
Deaths	0	6	0		0		0		0		1	2	0	0	0	0		0		0	0	0	1	0	0		0
Injuries	0	0	0		0		0		0		3	0	0	0	0	0		0		0	0	0	0	0	0		0
Property Damage	0	0	0		0		0		0		0	0	0	0	0	0		0		0	0	0	0	0	0		0
Crop Damage	0	0	0		0		0		0		0	0	0	0	0	0		0		0	0	0	0	0	0		0
HIGH WINDS																											
Deaths		0			0						1	0	0	0	0	0					0	0	0	0	0		
Injuries		0			0						0	0	0	0	0	0					0	0	0	0	0		
Property Damage		0			0						0	0	0	0	0	0					0	0	0	0	0		
Crop Damage		0			0						0	0	0	0	0	0					0	0	0	0	0		
LIGHTNING																											
Deaths	1	0	0		0		0		0		0	0	0	1		1		0		0	0	1	0	0	1		0
Injuries	0	0	0		0		0		0		0	0	0	0		0		0		0	0	0	0	0	0		0
Property Damage	0	0	0		0		0		0		0	0	0	0		0		0		0	0	0	0	0	0		0
Crop Damage	0	0	0		0		0		0		0	0	0	0		0		0		0	0	0	0	0	0		0
FLASH FLOODS																											
Deaths											2	0	1	0	0						0	0	0	0	0		
Injuries											0	0	0	0	0						0	0	0	0	0		
Property Damage											0	0	0	0	0						0	0	0	0	0		
Crop Damage											0	0	0	0	0						0	0	0	0	0		
FLOODS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											

STORM SUMMARY

June 1990

TYPE	MONTANA	NEBRASKA	NEBRASKA	NEBRASKA	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	MISSOURI	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	MINNESOTA	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATHS	& INJURY TOTALS
TORNADOES											0																		
Number			4	1	14	8	6	3	3	0		9	1	20						1	4							11	
Days			00000	1	10000	10000	10000	10000	10000	10000		10000	10000	20000						10000	10000							324	
Deaths			0	0	0	0	0	0	0	0		0	0	0						0	0								
Injuries			0	0	0	0	0	0	0	0		0	0	0						0	0								
Property Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
HAIL																													
Deaths	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
Injuries	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
Property Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
THUNDERSTORM WINDS																													
Deaths	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0							17	
Injuries	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0							115	
Property Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
HIGH WINDS																													
Deaths			0	0	0	0	0	0	0	0		0	0	0							1	0						2	
Injuries			0	0	0	0	0	0	0	0		0	0	0							0	0						10	
Property Damage			0	0	0	0	0	0	0	0		0	0	0							0	0							
Crop Damage			0	0	0	0	0	0	0	0		0	0	0							0	0							
LIGHTNING																													
Deaths			1	3	0	0	0	0	0	0		0	0	1						0	0							18	
Injuries			0	0	0	0	0	0	0	0		0	0	0						0	0							43	
Property Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
FLASH FLOODS																													
Deaths			0	0	0	26	0	0	0	0		0	0	0						0	0							37	
Injuries			0	0	0	0	0	0	0	0		0	0	0						0	0								
Property Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage			0	0	0	0	0	0	0	0		0	0	0						0	0								
FLOODS																													
Deaths	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0							3	
Injuries	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0							2	
Property Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
Crop Damage	0	0	0	0	0	0	0	0	0	0		0	0	0						0	0								
HEAVY SNOWSTORMS AND BLIZZARDS a																													
Deaths																													2
Injuries																													1
Property Damage																													
Crop Damage																													
ICE STORMS #																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage																													
HURRICANES AND TROPICAL STORMS																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage																													
ALL OTHERS																													
Deaths																													19
Injuries																													33
Property Damage																													
Crop Damage																													

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM DAMAGE CATAGORIES

REFERENCE NOTES

1	Less than \$50	0/Blank	None reported.
2	\$50 to \$500	*	Miles instead of yards.
3	\$500 to \$5,000	**	Yards instead of miles.
4	\$5,000 to \$50,000	@	Includes heavy sleet storm.
5	\$50,000 to \$500,000	#	Freezing drizzle and freezing rain, commonly known as glaze.
6	\$500,000 to \$5 Million	≠	Report incomplete.
7	\$5 Million to \$50 Million	≠≠	Report not received.
8	\$50 Million to \$500 Million	o/c	Indicates Crop Damage amount is included in the value given for property damage.
9	\$500 Million to \$5 Billion		

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

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.

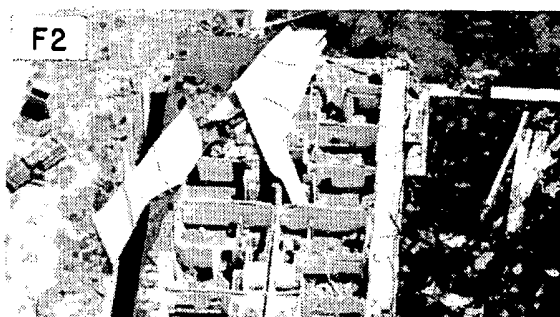
(F3) Severe tornado (158-206 mph): Severe damage
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(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.

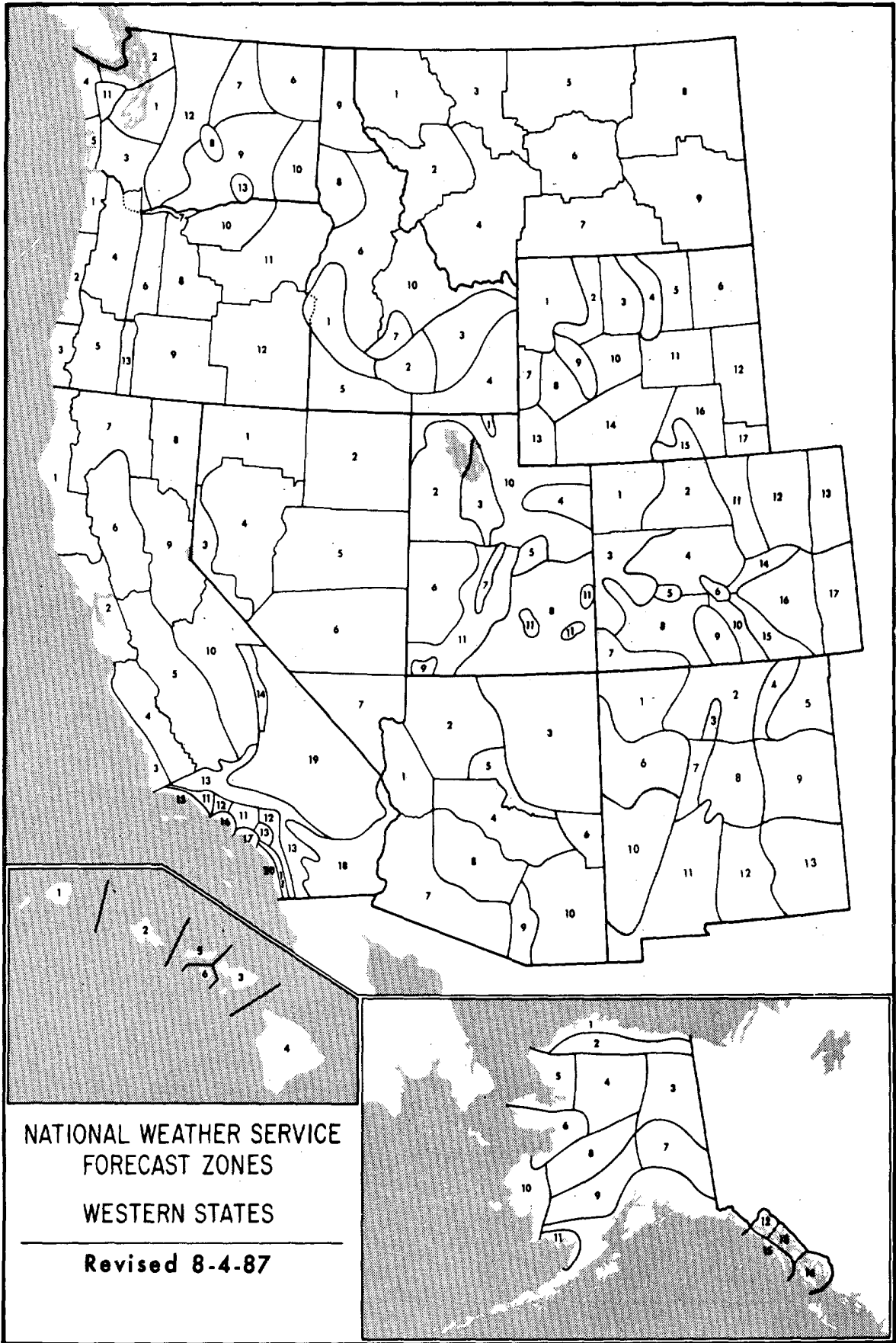
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

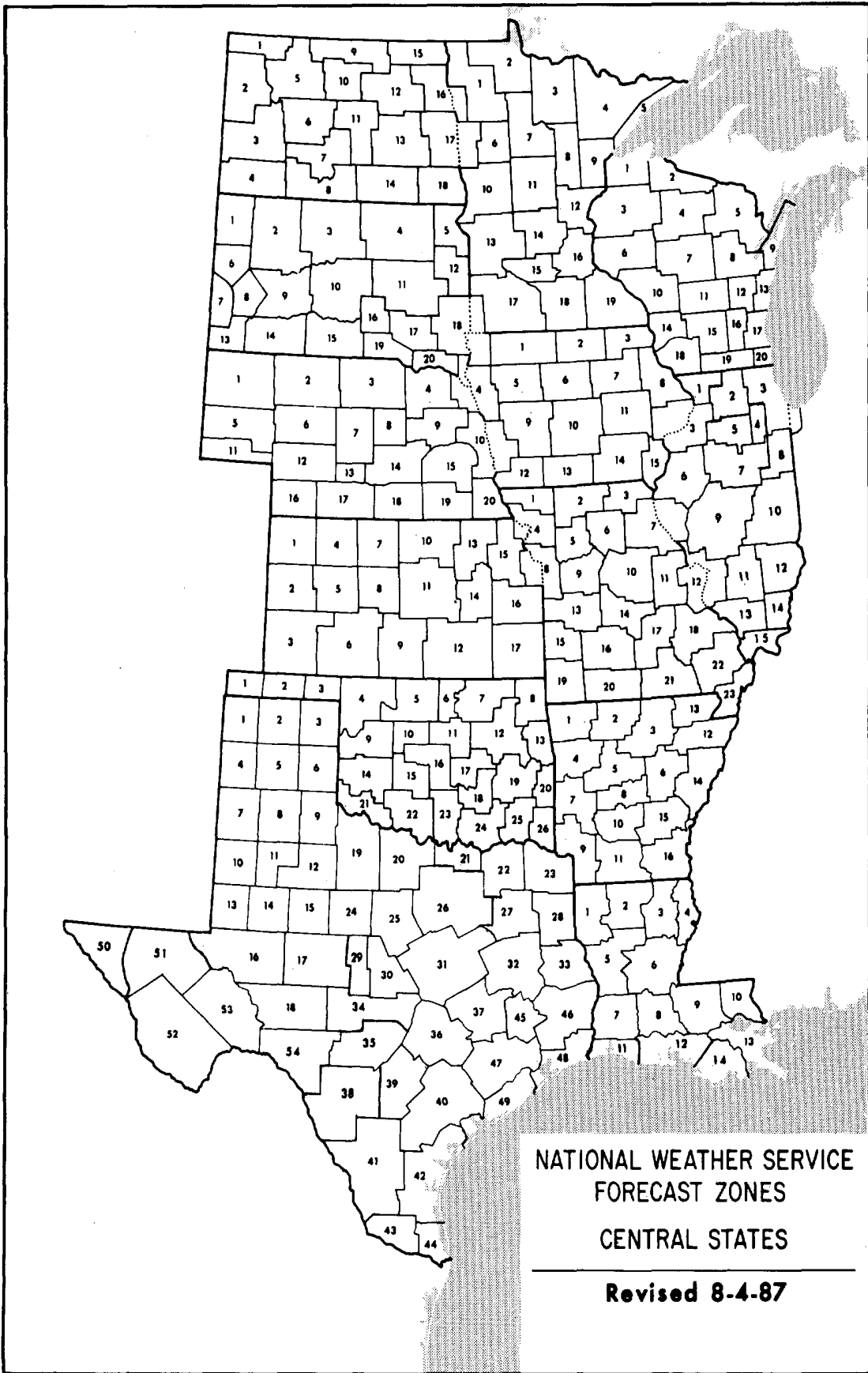


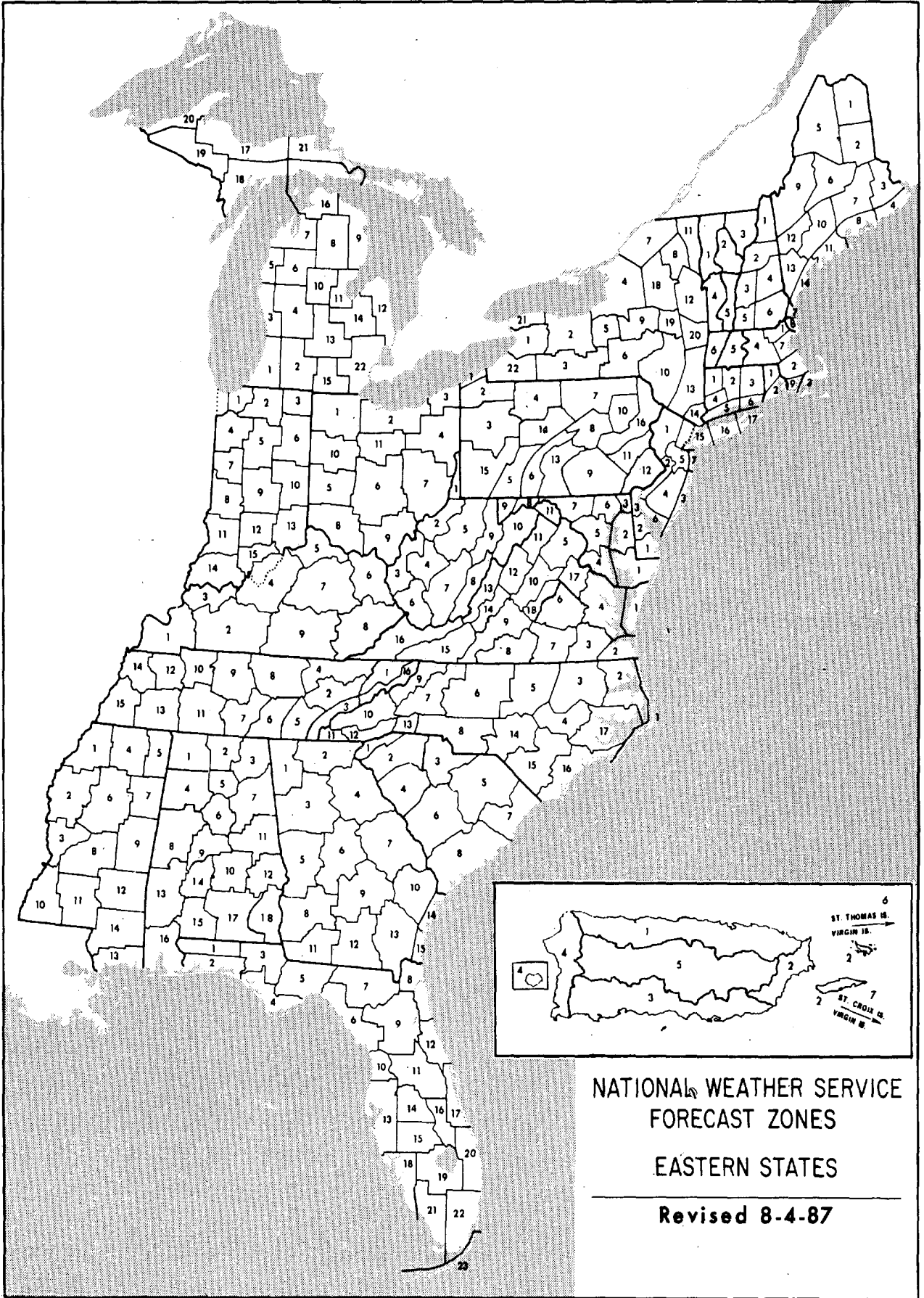
From J. Atmos. Sci., August 1981, p. 1517-1519

USCOMM-NOAA-ASHEVILLE, N.C. 1990-1800



NATIONAL WEATHER SERVICE
FORECAST ZONES
WESTERN STATES
Revised 8-4-87





NATIONAL WEATHER SERVICE
 FORECAST ZONES
 EASTERN STATES
 Revised 8-4-87

National Oceanic and Atmospheric Administration
NATIONAL CLIMATIC DATA CENTER

World's Largest Weather Records Archive

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WHAT TYPE OF INFORMATION DO YOU NEED?



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- *Long Term Climatic Studies*
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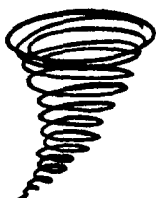
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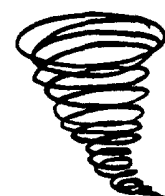
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WITH ANNUAL SUPPLEMENT

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ARIZONA

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ARIZONA

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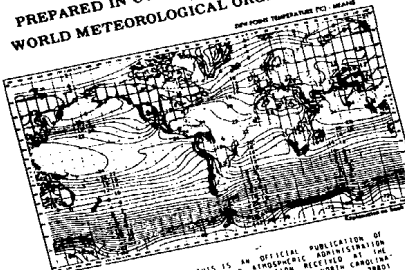
LOCAL CLIMATOLOGICAL DATA

Monthly Summary

STATION	DATE	TEMPERATURE (°F)	PRECIPITATION (IN)	RELATIVE HUMIDITY (%)	WIND VELOCITY (MPH)	WIND DIRECTION	WIND GUSTS (MPH)	WIND BURSTS (MPH)	WIND SQUALLS (MPH)	WIND CALMS (MPH)	WIND VELOCITY (KPH)	WIND DIRECTION	WIND GUSTS (KPH)	WIND BURSTS (KPH)	WIND SQUALLS (KPH)	WIND CALMS (KPH)	WIND VELOCITY (MPS)	WIND DIRECTION	WIND GUSTS (MPS)	WIND BURSTS (MPS)	WIND SQUALLS (MPS)	WIND CALMS (MPS)
TUCSON	1/1	50	0.00	65	10	000	10	0	0	0	16	000	16	0	0	0	5	000	16	0	0	0

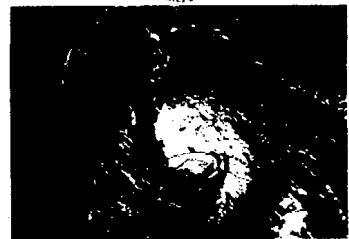
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STORM DATA



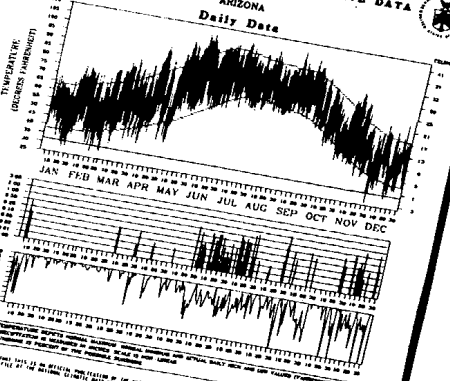
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LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

TUCSON, ARIZONA

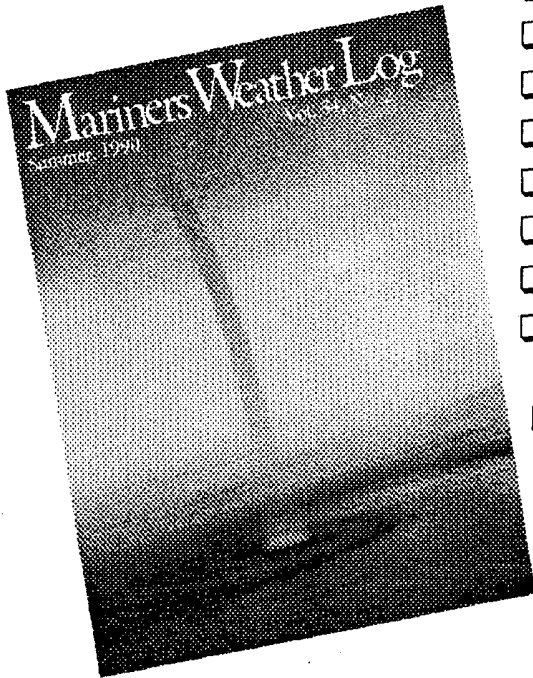
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