

AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS





COVER: This barn located on the Kingman farm in Grundy County, Illinois, was lifted by high winds and moved 20 feet to the east (right). The barn came to rest on a truck. Two school buses were also slightly damaged by the barn. (Note: There were 100 bales of hay in the loft!) The high winds were the result of thunderstorms that struck the area at approximately 3:20 p.m. on the 15th. (See page 12.) (Photo courtesy: Tom Tock, Gardner Chronicle, Gardner, Illinois.)

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STORM DATA

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STORM DATA contains all confirmed information on storms available to our staff at the time of publication. 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.

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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:

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Director

National Climatic Data Center

Kannett D Haden

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CLIMATIC DATA FOR THE MONTH

PRECIPITATION AND TEMPERATURE ANOMALIES - JUNE 1991

Table 1 lists the 97-year temperature and precipitation rankings for the nine climatically homogeneous regions outlined in Fig. 1. Summer-like heat came early to parts of the nation. Mean monthly temperature departures ranged from +4°F to +7°F in the upper and middle Mississippi Valley, the Great Lakes, the Northeast, and in northern and central Alaska. East North Central region recorded its fifth warmest June in the past 97 years. On the cool side, below normal temperatures existed in the West, Northwest, northern California, and parts of Arizona. Monthly temperature departures of -3°F to -7°F were common. Temperatures also averaged below normal in parts of the southern Rockies, the southern Plains, and Hawaii. Overall, June 1991 ranked as the 28th warmest June in 97 years of record. (See Figs. 2 and 3 on page 5.)

Nationally, precipitation for the month of June 1991 ranked as the 42nd driest. Dry conditions existed in the Central and Northeast regions. These regions recorded their

TABLE 1. TEMPERATURE AND PRECIPITATION RANK-INGS FOR JUNE 1991, BASED ON THE PERIOD 1895-1991. 1 = DRIEST/COLDEST, 97 = WETTEST/HOTTEST. REGION **PRECIPITATION TEMPERATURE** Northeast 5 83 East North Central 37 93 Central 4 84 Southeast 64 46 89 West North Central 75 South 54 69 Southwest 63 48 Northwest 72 5

55

41

23

70

fourth and fifth driest June on record. Above normal precipitation occurred at scattered locations in the Southeast, Gulf Coast, Northwest, and the Mississippi Valley. (See Figs. 4 and 5 on page 6.)

From National Climatic Data Center

West

National

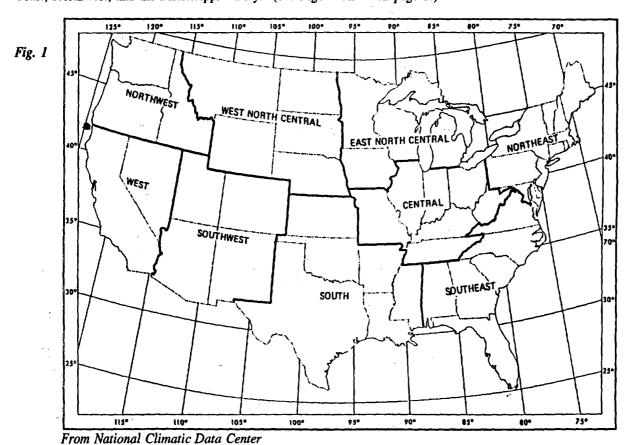
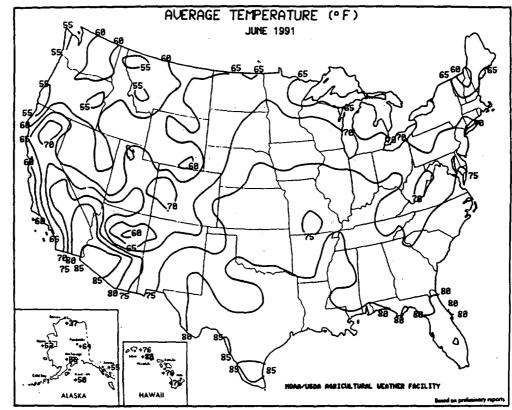
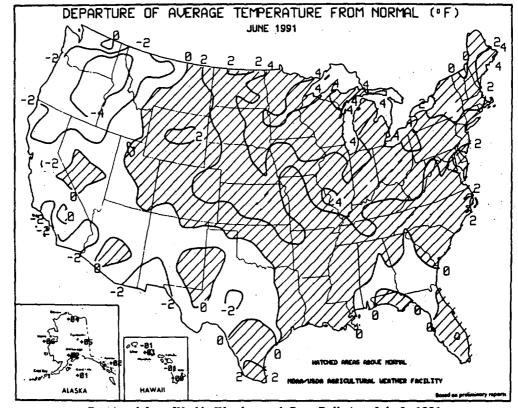


Fig. 2



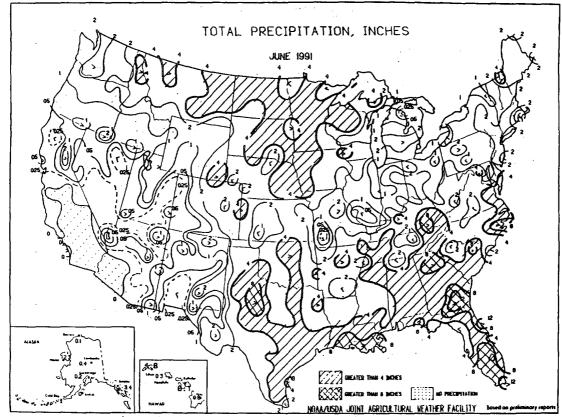
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Fig. 3



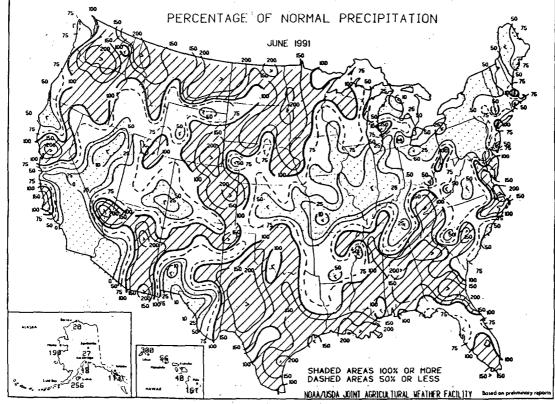
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Fig. 4

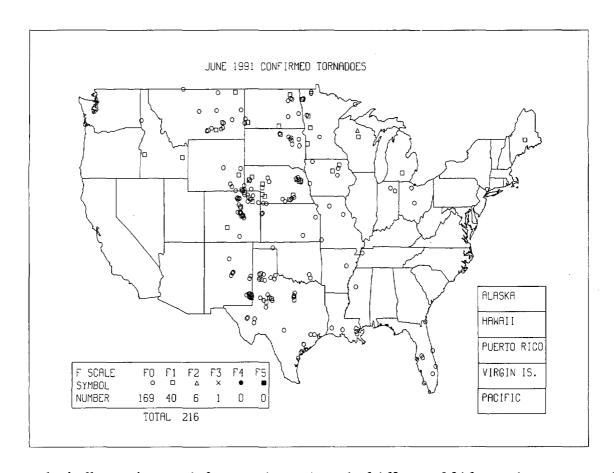


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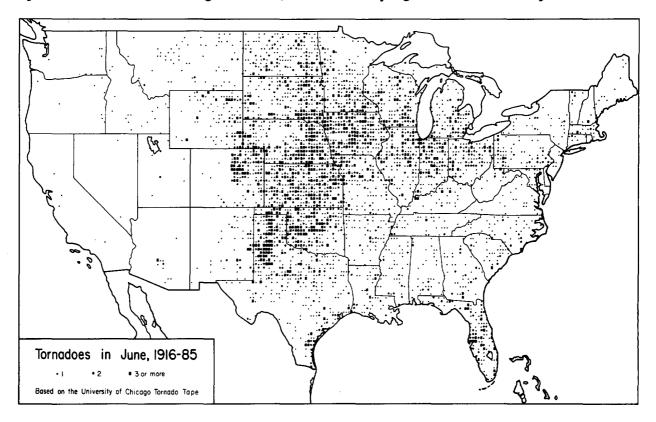
Fig. 5



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June was basically a quiet month for tornadoes. A total of 169 out of 216 tornadoes were rated as category F0. The strongest tornado was rated at F3 as it went through Minatare, Nebraska, and caused \$3 million in damage. (See map above.) Only one tornado-related death occurred during the month when a tree fell on a car in Westchester County, New York, crushing the occupant in the vehicle. Despite the 216 tornadoes during the month, there were only eight tornado-related injuries nationwide.



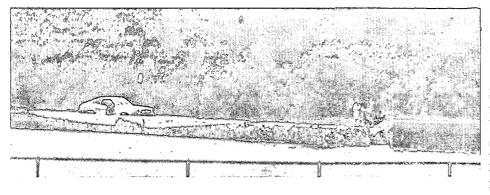
OUTSTANDING STORMS OF THE MONTH

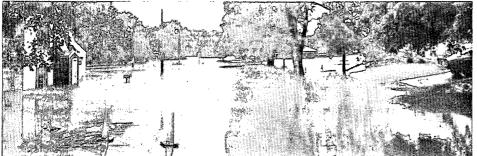
1. FLOODING IN THE MONTH OF JUNE 1991

Portions of Iowa, Montana, and Nebraska received excessive amounts of rain during June. The resulting flooding caused several deaths, extensive crop destruction, soil erosion, rock slides, and washed out bridges.

IOWA - June 3rd-4th, 14th-19th

Iowa experienced two major flood events in June. The first event occurred on June 3rd and continued through the 4th. The second event started on the 14th and finished on the 19th. On June 3rd and 4th, a stationary front was located over Iowa. This front had a northwest/southeast orientation. Upper level winds along the front were weak and thus the thunderstorms that developed along the frontal line were slow moving and turned into a major flooding event. Rainfall amounts of up to 6 inches were not uncommon. Some unofficial reports of up to 10 inches were received. In Estherville, Iowa, 3.75 inches of rain fell in 45 minutes. Major agricultural damage occurred when soil and crops were washed away. Only one injury was reported that required hospitalization when a basement wall collapsed on a woman and broke her leg.



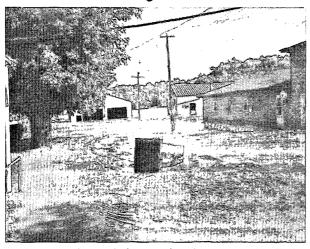


Story County was one of the hardest hit counties. Up to 10 inches of rain (unofficial report) fell near Nevada on June 3rd-4th. Left are pictures from Nevada, Iowa. Top: Two people had to be rescued when they drove their car through water-covered County Road S-14, near the 4-H Fairgrounds. Middle: Flood waters engulfed a home in Nevada close to the 4-H Fairgrounds. Bottom:

area looking north on Lincoln Highway, east of Nevada, where flood waters poured across the highway. (Photo courtesy: Maryls Thomas, Nevada Journal, Nevada, Iowa.)

IOWA - June 14th - 19th

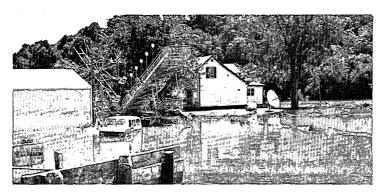
Iowa received another rain event on June 14th-19th as another series of storms pounded the state. Flooding was again prevalent. Several tornadoes were observed with reports of funnel clouds, thunderstorm winds (G50+ knots), and hail up to 1.75 inches in diameter. In Clayton County, an unofficial total of 13 inches of rain fell. In general, many areas received 5 inches of rain, with some areas receiving up to 10 inches. Damage was quite extensive and ranged from severe erosion to crop washout. Total damage estimates were in excess of \$3 million!

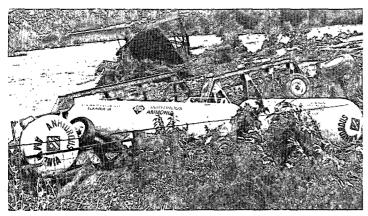


A dumpster is carried away by the current in Garber. Pictured in the background is the Garber Fire Station with the Anchor Inn on the right. (Photo courtesy: Carl Neiers, The Guttenburg Press, Guttenburg, Iowa.)



A rock slide blocked traffic on Highway 52 in Guttenburg. (Photo courtesy: Carl Neiers, The Guttenburg Press, Guttenburg, Iowa.)



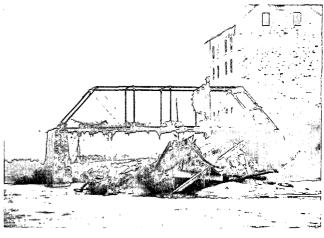


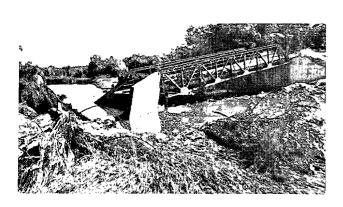


The Turkey River crested to a new record at Garber. The previous record of 28.06 feet, set February 23,

1922, was shattered when the river crested at 30.10 feet. Above (top): High water at Garber. Here the water level is at 23 feet (5 feet higher than the record level at this location). Right: Shoveling muck out of a living room in Garber. Above: Anhydrous tanks and wrecked bridge span at Pony Creek outside Elkader. Twenty-seven tanks were carried off by the flood waters and strewn along the bank for several miles. (Photo courtesy: Bob Griffith, The Clayton County Register, Elkader, Iowa.)









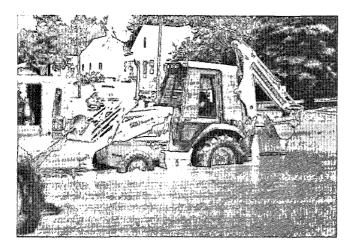


Top (left): High water at the historic Motor Mill, 5 miles downstream from Elkader. The nearest span of this bridge (built in 1903) had fallen into the flood waters. Top (right): The same bridge the morning after the water returned to normal levels. Note the downed, twisted span lying in the riverbed. Middle (left): Water undercut the abutment and dropped this bridge into the water at St. Olaf. Above (left): Large areas of crop land along Pony Creek were washed down to the bedrock. Right: Cropland along Pony Creek was eroded 6 to 12 feet below pre-flood levels. One area had a vertical bank of at least 12 feet high. (Photo courtesy: Bob Griffith, The Clayton County Register, Elkader, Iowa.)

OTHER FLOOD EVENTS OF JUNE 1991

Thunderstorms dumped 2 to 5 inches of rain in the southeastern portion of Nebraska on June 1st and produced extensive flooding.

Another flash flood event occurred in Musselshell County, Montana, on June 21, 1991. The flash flood washed two vehicles off Highway 87 and resulted in one death when one of the drivers was drowned.





Above: Flood waters strike Sutton, Nebraska. Despite 8-foot-deep water in the City Park, little damage was reported to homes in the surrounding residential areas of Sutton. (Photo courtesy: Evelyn Aufdenkamp, Clay County News, Sutton, Nebraska.)

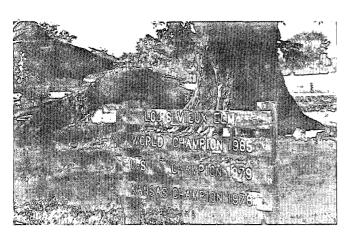




Above (left): A flood scene near Roundup, Montana. Above (right): A raging current pushed a pickup truck downstream where it came to rest on an old piece of farm machinery (left of trees). The flood waters had receded some by the time of the photo. (Photo courtesy: Alice Sellars, Roundup Record-Tribune and Winnett Times, Roundup, Montana.)

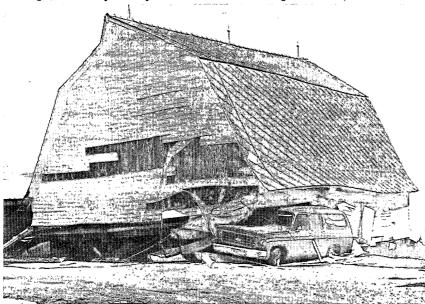
WIND DAMAGE OF JUNE 1991

High winds struck several areas of the country during June 1991. On June 10th, a thunderstorm wind damaged the Louis Vieux Elm of Louisville, Kansas. In Illinois on June 15th, high winds lifted a barn and moved it 20 feet with 100 bales of hay in the loft. Thunderstorm winds gusting to 70 mph brought damage to parts of Clay County, Nebraska, on June 30th. On the following page are pictures of high wind damage for the above-mentioned June 1991 storms.

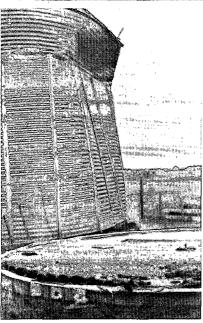




Above: The Louis Vieux Elm tree suffered approximately 25 percent damage as a piece nearly 60 feet long, including a large limb and part of the main truck, fell from the east side of the tree. The scar on the main trunk is about 30 feet. The tree dates back into the 1800s and was used by travelers on the Oregon Trail. Even though the tree suffered extensive damage, the Louis Vieux Elm still remains as the largest American Elm in the Nation. (Photo courtesy: The Smoke Signal, Wamego, Kansas; photo by James Travis, St. George, Kansas.)

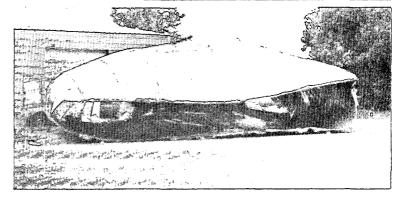


This barn located near Carbon Hill in northern Gardner, Illinois, was lifted by high winds and moved about 20 feet to the east, and came to rest on a panel truck belonging to Turner Bus Service. Two school buses were slightly damaged by flying debris and an antique John Deere planter was crushed in the barn. There were also 100 bales of hay in the loft of the barn. The damage was caused by thunderstorm winds that struck Grundy County, Illinois, at approximately 3:20 p.m. CDT on June 15th, 1991. (Photo courtesy: Tom Tock, Gardner Chronicle, Gardner, Illinois.)



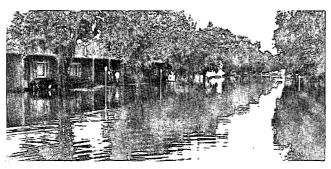
Thunderstorm winds gusting to 70 mph struck Clay County, Nebraska, on June 30th, 1991. The wind blew over a 10,000-bushel grain bin, a large grain auger, and an irrigation pipe. Pictured to the right, bottom, and left are a few examples of the wind damage in Clay County. (Photo courtesy: Clay County News, Sutton, NE.)





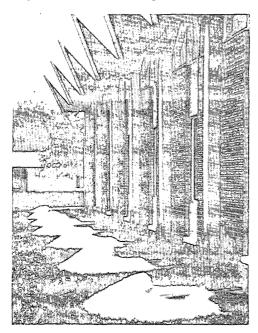
HAIL DAMAGE IN JUNE 1991

Hail struck several places throughout the U.S. during the month of June 1991. Salem, South Dakota, was hit with flooding and hail on June 19th. Henderson, Nebraska, reported 2.50-inch-diameter hail on June 21st which damaged property and crops. On June 24th, both Montana and Oregon reported hail damage. Laurel, Montana, reported 3.50-inch diameter hail which caused severe damage to homes and automobiles. Baker City, Oregon, reported 0.50-inch hail accumulating to a depth of 6 inches.



Thunderstorms dumped up to 5 inches of rain plus hail in Salem, South Dakota. Above: East Norton Street under water. The water subsided by midnight. Right: Hail brought a total loss to corn and bean crops. (Photo courtesy: Phyllis Knudson, Salem Special, Salem, South Dakota.)

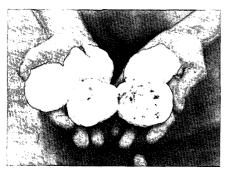




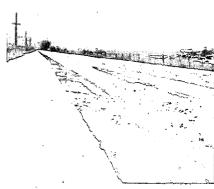




Hail up to tennis ball-size fell in Henderson, Nebraska. Far left: Hail accumulated to bushel-size piles on the northern side of Bethesda Church. Above: A closeup of one of the piles of hail. Left: A hail-battered corn stalk. (Photo courtesy: Jerry Jcobitz, The Henderson (NE) News, Henderson, Nebraska).





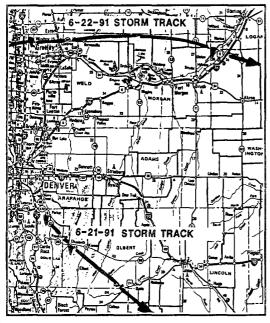


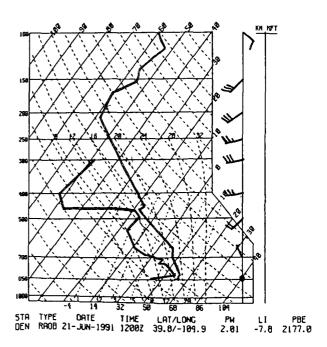
Hail was observed up to 3.50 inches in diameter near Laurel on June 24th. *Left:* A picture of some of the hail stones that fell. *Middle:* The rear window of this Mercedes was broken

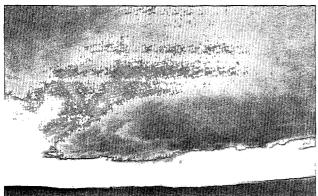
out by the large hail stones. (Photo courtesy: Laurel Outlook; photographer, Milton Wester, Laurel, MT.) Right: The worst hailstorm in years struck Baker City, Oregon, as 0.50-inch hail accumulated to a depth of 6 inches and left this wintery scene. At least 200 acres of grain and potato crops were destroyed. (Photo courtesy: Byron C. Brinton, The Record-Courier, Baker, OR.)

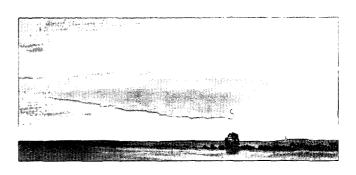
SEVERE STORMS STRIKE THE COLORADO HIGH PLAINS - JUNE 21ST. . .

Atmospheric conditions were excellent for the development of severe thunderstorm activity in the Denver, Colorado, area on June 21st. The atmosphere was very unstable with a lifted index of -8, and with the solar heating of the day severe thunderstorms did form and produced large hail (2.50-inch diameter) and nine tornadoes. Estimates of the hail damage alone was \$5 million.

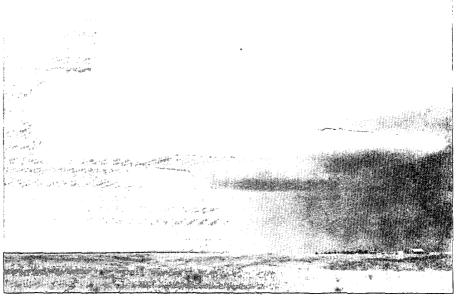






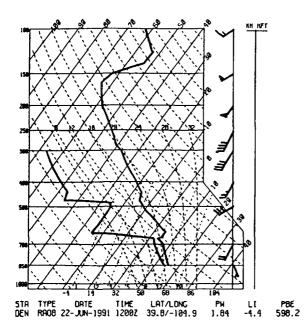


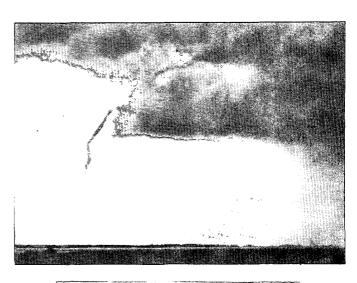
Above: A close look at the storm's awesome base. View is southwest from 6 miles east of Kiowa. Time of photo is approximately 4:30 p.m. MDT. Above (right): Storm bases lowered for about another hour. Looking northwest at about 1 mile west of Simla, Colorado. Time of photo is approximately 5:15 p.m. MDT. Right: Storm base at approximately 8:00 p.m. MDT, 20 miles west of Punkin Center, Colorado. View is to the north. (Photo courtesy and &: Richard L. Slonaker, Aurora, Colorado.)

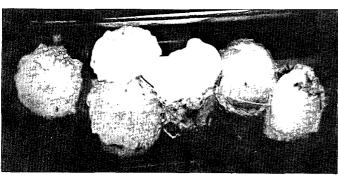


. . AND AGAIN ON JUNE 22ND

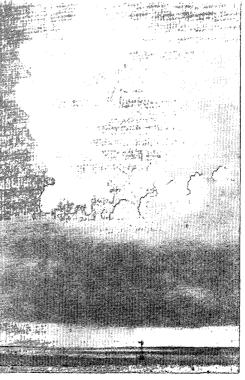
The atmosphere remained volatile over northern Colorado on the 22nd, but not as much so as on the 21st. The lifted index had dropped to a -4; however winds aloft continued to be sufficiently strong (25 knots) from the southwest to vent the developing thunderstorm cells and brought another day of severe weather to the region. Six tornadoes formed from the storms and caused a total of \$1.5 million damage in the towns of Windsor amd Evans.





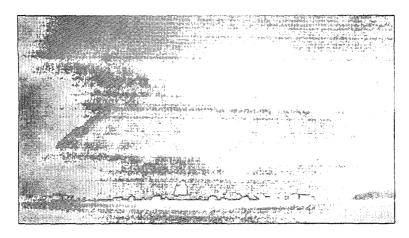


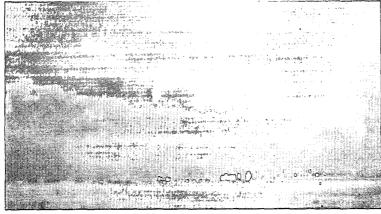
Top (right): An F0 tornado in the rope stage near Merino, Colorado, looking northwest. Time of photo is approximately 6:35 p.m. MDT. Right: The thunderstorm cell about an hour after the tornado photo. Location is approximately 8 miles west-northwest of Akron, Colorado, looking north. Above: Baseball-size hail illuminated by headlight at approximately 9:15 p.m. MDT. Roads were treacherous as the hail accumulated, melted, and refroze into a lumpy, rough, wet ice surface. Most of the hail was golf ball size; with some baseball size also present. (Photo courtesy and ©: Richard L. Slonaker, Aurora, Colorado.)



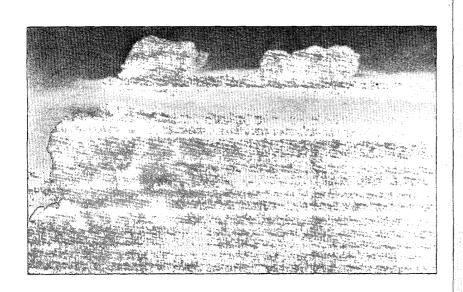
MISCELLANEOUS EVENTS OF THE MONTH OF JUNE 1991

The severe weather of June 1991 was dominated by flooding, high winds, and hail. On the following page are pictures of a severe thunderstorm in Kansas on June 1st, an overshooting thunderstorm top over Florida on the 24th, and a lightning strike in Florida on the 25th.





Goodland, Kansas, on June 1st reported thunderstorm winds of 75 mph. Tree limbs were blown down and shingles were torn from roofs. Above (both): The thunderstorm that produced the damaging wind. (Photo courtesy: Steve Albers, Boulder, Colorado.)



Thunderstorms formed in Florida on June 24th and again on the 25th. Above: Overshooting tops at approximately 45,000 feet over Florida's eastern seaboard. Photo was taken from an aircraft looking west, north of West Palm Beach on June 24th. Right: A cloud-to-ground lightning flash near Punta Gorda, Florida, on June 25th. Time of photo is 9:20 p.m. EDT. (Photo courtesy and ©: Jack "Thunderhead" Corso, Harrison, New York.)

		Time Local/	Path Length	Path Width	Pe	nber of	Da	imated amage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Proper	ty Crops	Character of Storm	
ALABAMA										
Mobile and	02	1655CST	?	?	0	0	0	0	Waterspout	
Baldwin Counties	A water	aterspout was rspout moved	reported o	over the m hort distar	iddle o nce bef	f Mobil ore diss	e Bay ipating	about 3	miles west of Point Clear. The	
Lee County	04	1425CST			0	0	?	?	Thunderstorm Winds	
	were	uburn, strong damaged by uburn.	thundersto	orm winds es. More	s blew trees a	window nd a lar	s out o ge sign	of eight v n were b	vehicles, and five other vehicles lown down in the southern part	
Jackson County	04	1430CST		•	0	0	?	?	Thunderstorm Winds	
	In S park	cottsboro, thu ed cars, and u	inderstorm iprooted to	n winds to rees damag	ore a f ged sev	acade freral hor	om a mes.	building	g, wind-blown debris damaged	
Marshall County	04	1628CST			0	0	?	?	Thunderstorm Winds	
	At A	dbertville, tre	es and pov	wer poles	were b	lown do	wn re	sulting i	n roof damage to a few homes.	
Montgomery County	04 04	1700CST 1715CST			0	0	?	?	Thunderstorm Winds Thunderstorm Winds	
	At 1700 CST, trees were blown down near downtown Montgomery. A short time later, trees were blown down in other areas of Montgomery.									
Shelby County	04	1810CST			0	0	0	0	Hail (1.00)	
	Quar	rter-size hail f	ell along l	Highway 2	280 ab	out 10 n	niles s	outheast	of downtown Birmingham.	
Geneva County	04	2000CST			0	0	?	?	Thunderstorm Winds	
	Tree	s were blown	down abo	ut 5 miles	s south	east of	Slocon	ab.		
Montgomery County	04	2015CST			0	0	?	?	Thunderstorm Winds	
	Tree	s were blown	down in l	Montgome	ery.					
Dallas County	05	1515CST		-	0	0	?	?	Hail (0.75)	
-	05	1620CST			0	0	?	?	Thunderstorm Winds	
	Dim	e-size hail fell	, and tree	s were up	rooted	at Selm	a.			
Mobile County	05	1630CST			0	0	?	?	Thunderstorm Winds	
	Tree	s were uproot	ed at Gran	nd Bay.						
Jefferson County	17	1800CST			0	0	?	?	Flash Flood	
	Heav flash	y rains from a flooding of s	slow-movi treets and	ng thunde underpass	erstorm ses in p	s production of	ced rai Birmii	nfall of ngham.	2.00 to 4.00 inches that caused	
Chilton County	25	1230CST			0	0	?	?	Flash Flood	
	A slow-moving thunderstorm produced very heavy rain that caused flash flooding of roads in mainly southeastern Chilton County.									
Monroe County	25	1606CST			0	0	?	?	Hail (1.75)	

June 1991

N. continu	Data	Time Local/	Path Length	Path Width	Per	nber of	D	timated amage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Prope	rty Crops	Character of Storm		
ALABAMA Cont'o	i										
	Golf	ball-size hail	fell at Fr	isco City.							
Conecuh County	25	1700CST			0	0	?	?	Thunderstorm Winds		
	Powe	er lines were	blown do	wn in Eve	rgreen.						
ARIZONA											
Maricopa County Mesa	05	1730MST			0	0	3	0	Thunderstorm Winds		
	A weak low-pressure system over the northern Gulf of California generated showers and thunderstorms over much of the state. Winds of 47 mph struck the city of Tucson earlier in the day. At about 1730 MST, downburst winds blew shingles off homes, damaged awnings, and blew down part of a block wall.										
Apache County Petrified Forest National Park	05	Afternoon			0	0	0.	0	Thunderstorm Winds		
National Lark	Winds gusts reached as high as 62 mph.										
ARKANSAS									,		
Sebastian County Fort Smith Fort Smith	02 02	0033CST 0040CST			0	0	0 2	0	Thunderstorm Winds (G52) Thunderstorm Winds		
	Thun	derstorm wir also downed	nds gusted on the ea	to 60 mpl st side of	h at the	Weath	er Sei	vice Off	ice in Fort Smith. Some trees		
Scott County Waldron	05	1145CST			0	0	2	0	Thunderstorm Winds (G52)		
	Thun	derstorm wir	ids blew d	own trees	near th	e count	y cou	rthouse.	•		
Garland County Hot Springs	05	1330CST			0	0	2	0	Thunderstorm Winds (G52)		
	Wind	ls gusting to	60 mph bi	roke tree li	mbs ar	nd cause	ed mir	or dama	ge.		
Faulkner County Conway Pulaski County	05	1422CST			0	0	0	0	Hail (0.75)		
Little Rock Little Rock Little Rock	05 05 05	1500CST 1515CST 1515CST			0 0 0	0 0 0	3 3 3	0 0 0	Hail (1.75) Hail (1.75) Lightning		
	Golf ball-size hail dented cars in Little Rock and lightning caused a power outage to about 120 customers.										
Cleveland County New Edinburg	05	1545CST		·	0	0	0	0	Hail (1.75)		
Crittenden County W Memphis	11	1530CST- 1830CST			0	0	5	0	Flash Flood		

An unofficial 7.25 inches of rain fell on the eastern sections of West Memphis causing extensive flash flooding. Residents from 51 homes had to be evacuated, with at least 44 homes suffering major damage. Stores and businesses along East Broadway were also flooded.

	~ .	Time Local/	Path Length	Path Width	Pe	mber of	Dar	nated nage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injurea	Propert	y Crops	Character of Storm		
ARKANSAS Cont	'd										
Woodruff County 8 S Augusta	11	1855CST- 1856CST	0.1	50	. 0	0	0	2	Tornado (F0)		
	A sı	nall tornado to	ouched do	wn briefly	, level	ing son	ne corn,	and ki	nocking down a few trees.		
Independence County Batesville Batesville	13 13	1800CST 1810CST			0 0	0	4 2	0	Lightning Thunderstorm Winds (G43)		
	knoc	Lightning strikes knocked out power to about one-third of Batesville. A few trees were also knocked down breaking some power lines. Another tree, hit by lightning, fell on a pickup truck and caused damage.									
Craighead County Jonesboro	15	1630CST			0	0	3	0	Thunderstorm Winds		
		nderstorm wir	nds, uproo	ted severa	l trees	, and d	amaged	some	roofs and commercial signs in		
Greene County Paragould	15	1710CST			0	0	4	0	Thunderstorm Winds		
		Thunderstorm winds took most of the roof off a school building. A few trees and power lines were also downed in the area.									
Pulaski County N Little Rock	20	1410CST			0	0	4	0	Lightning		
	othe	atning struck to r. Two home 11,000.	hree Nortl s suffered	Little Roabout \$2:	ock hor 500 in	nes, ign damage	iting sr , while	nall fire the thi	es within a few minutes of each rd home had damage estimated		
Craighead County Jonesboro	21	1500CST			0	0 -	3	0	Lightning		
	A li	ghtning strike	damaged	radio equi	pment	at the S	State Po	lice Of	fice.		
Pulaski County N Little Rock	21	2130CST			1	2	0	0	Lightning		
	An A	Arkansas Natio were sleeping	onal Guard in. Othe	lsman was r lightning	killed g strike	and two	o others ted out	injured power	d when lightning struck the tent to about 2500 people. (M290)		
Little Rock	21	2145CST			0	3	3	0	Thunderstorm Winds (G35)		
	at 40	e people were mph, blew a man multiple	large spe	aker over	sly, at onto se	an outd everal sp	oor rocl ectator	k conce s. One	ert when a wind gust, estimated man suffered a broken leg and		
Stone County Blanchard Springs	22	1340CST			0	0	2	0	Thunderstorm Winds		
		Several trees were downed by thunderstorm winds at a campground at Blanchard Springs Caverns Park. One car and one structure suffered minor damage.									
Lawrence County Imboden	22	1425CST			0	0	0	0	Hail (1.75)		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estin Dan Property	nage	Character of Storm	
ARKANSAS Cont'	d									
	22	1425CST			0	0	2	0	Thunderstorm Winds	
	Thur	nderstorm win	ds downe	d some tre	es in I	mboden	; golf b	all-size	e hail also fell.	
Mississippi County Wilson	22	1525CST			0	0	3	0	Thunderstorm Winds	
	Thur	nderstorm win	ds downe	d trees and	1 powe	r lines.			•	
Poinsett County Harrisburg	22	1540CST			0	0	2	0	Thunderstorm Winds	
	Thur	nderstorm win	ds downe	d several l	arge tr	ees.		•		
Greene County Light	22	1545CST			0	0	3	0	Thunderstorm Winds	
	Thur	nderstorm win	ds downe	d trees and	1 powe	r lines l	knocking	g out p	ower to the city.	
Cross County Wynne	22	1610CST			0	0	4	0	Thunderstorm Winds	
·	Thunderstorm winds blew down signs, power lines, and damaged some small airplanes at the airport.									
Faulkner County Conway	22	1800CST			0	0	4	0	Lightning	
	A facto be	ctory lost all e closed two d	lectrical a ays before	nd telepho	one servald resu	vice afte ume.	er being	struck	by lightning. The facility had	
Conway County Plumerville	22	1800CST			0	0	3	0	Thunderstorm Winds (G35)	
		nderstorm wind rted wind gust			imbs w	hich the	n downe	ed som	e power lines. A State Trooper	
Sevier County DeQueen Central	22 22	2005CST 2015CST			0	0	2 2	0	Thunderstorm Winds Thunderstorm Winds	
	Thun	derstorm wind	ds blew de	own trees	in De(Queen a	nd Cent	ral.		
Little River County 14 W Ashdown	22	2025CST			0	0	2	0	Thunderstorm Winds	
	Thun	derstorm wind	ds downed	l trees alo	ng Hig	hway 3	2 west o	of Ash	down.	
Howard County Mineral Springs	22	2025CST	,		0	0	2	0	Thunderstorm Winds	
	Thunderstorm winds downed trees and damaged a few outbuildings.									
Little River County Ashdown	22	2035CST			0	0	2	0	Thunderstorm Winds	
	Thun	derstorm wind	ls downed	a few larg	ge oak t	rees alo	ong High	iway 32	2 on the west side of Ashdown.	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	umber of ersons d Injured	D	stimated Damage erty Crops	Character of Storm
ARKANSAS Cont	.'d								
Arkansas County Stuttgart	22	2100CST- 2300CST			0	0	3	0	Flash Flood
	Heav	vy rain floode	d streets i	n Stuttga	rt. So	me autor	nobile	s suffere	d minor water damage.
Cleburne County 4 W Heber Springs	23	1500CST			0	2	0	0	Lightning
	char left	an and woman ge apparently hand, sending s and legs and	entered the sparks se	ured by a ne man the veral feet	lightni rough l away.	ng strike his feet, They v	while went vere to	e campin through l reated for	g near Greers Ferry Lake. The nis body and exited through his minor burns, numbness in the
CALIFORNIA, N	orther	m							
Butte County 5 SE Chico San Joaquin County	28	1015PDT			0	0	0	0	Funnel Cloud
3 S Stockton Sacramento County	28	1311PDT- 1321PDT			0	0	0	0	Funnel Cloud
14 S Sacramento	28	1613PDT- 1616PDT			0	0	. 0	0	Funnel Cloud
	Thre cent	e funnel cloud ral California.	ls formed	in the col	d unsta	ble air b	ehind	a front as	s it moved through northern and
CALIFORNIA, So	outher	n							
	Non	e reported.							
COLORADO				e	÷				
Northeastern Colorado	01	Unknown				•			••
	Thu	upper level ste nderstorms beg a flooding and	gan on Ma	ay 31 and	ed wid contin	lespread nued thro	thuncough J	lerstorms une 1. T	aross Northeastern Colorado. The storms produced large hail,
Washington County 4 W to 2 NE Otis	01	0000MST- 0005MST	6.0	100	0	0	?	?	Tornado (F1)
	Torn to 2	nado touched o miles northea	lown to the st of town	ne west of	f Otis.	The W	ashing	gton Cou	nty Sheriff's Office followed it
Weld County Greeley	01	0900MST			0	0	4	?	Heavy Rain
	Very colla	heavy rains for the heavy heavy rains for the	ell in the o	Greeley as	rea in a ould n	short pe ot keep	eriod o up wi	of time. th the an	The roof of a downtown garage tount of rainfall.
Douglas County 14 W Sedalia Jefferson County	01	1445MST			0	0	?	?	Hail (1.75)
Littleton	01	1500MST		; .	0	0	?	?	Hail (0.75)

June 1991

									* dilo 1>> 1
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estim Dam Property	age	Character of Storm
COLORADO Con	t'd								
Lakewood Chatfield Reservoir	01 01	1515MST 1515MST			0	0	?	?	Funnel Cloud Hail (1.75)
Lakewood	01	1515MST			0	0	?	?	Hail (1.00)
	metr	nderstorms m o area. Hail i el cloud.	oved throu up to golf l	igh Dougl oall-size w	las Cou as repo	inty intorted at	o Jeffers several l	son Co ocation	ounty southwest of the Denver ns and the public sighted a brief
Boulder County									
Boulder	01	1355MST			0	0	6	?	Flash Flooding
Longmont	01	1700MST			0	0	6 ? ? ? ?	??????	Funnel Cloud
Longmont	01	1705MST			0	0	· ?	?	Thunderstorm Winds (G70)
Longmont	01	1720MST			0	0	?	?	Thunderstorm Winds (G57)
1 W Longmont	01	1730MST			0	0	?	?	Hail (1.25)
Longmont	01	1826MST			0	0	?	?	Flash Flooding
1 E Erie	01	1830MST			0	0	?	?	Flash Flooding
Larimer County	01	150511077			^	^	0	0	Tel al Telas Pas
Pinewood Springs Poudre River	01 01	1525MST 1600MST			0 0	0	?	?	Flash Flooding Flash Flooding
10 S Fort Collins	01	1656MST			Ö	Ŏ	,	,	Funnel Cloud
6 N Lyons	01	1845MST			ŏ	ŏ	? ? ?	????	Flash Flooding
Stonewall Creek	01	1850MST			ŏ	ŏ	ż	•	Flash Flooding
20 NW Fort	01	1900MST			ŏ	ŏ	?	i	Flash Flooding
Collins	01	17001/101			Ū	•	•	•	r mar r rooming
5 NW Wellington	01	1910MST			0	0	?	?	Flash Flooding
Livermore	01	1945MST			Ŏ	Ŏ	?	?	Flash Flooding
Estes Park	ÕĪ	2247MST			Ŏ	Ŏ	?	?	Flash Flooding
Jefferson County									· ·
O41 T -1 *	Λ1	1724LCT			^	^	0	9	TT.:1 (0.75)

Thunderstorms early in the day left the foothills of Larimer, Boulder, and Jefferson Counties saturated as rainfall amounts of 1 inch in 45 minutes, and 0.58 inch in 30 minutes at Glen Comfort, fell across the front range. Boulder Creek was out of its banks. Rock and mud slides forced closures of many roads in Boulder County. An 80-foot section of Timber Lane was washed away by flood waters. Thunderstorms later in the afternoon produced rainfall amounts of 2 to 3 inches in a couple of hours. One report indicated 4 inches of rain had fallen between 1600 MST and 1900 MST on Box Elder Creek near the Wyoming border. By mid-afternoon, reports of flash flooding and rivers out of their banks began circulating. The Little Thompson River at Pinewood Springs went out of its banks around 1525 MST. Shortly afterward, the North Fork of the Poudre River went out of its banks. Other creeks and rivers flooded including Stonewall Creek. Clear Creek in Golden spilled over onto Colorado Highway 6. In Longmont, thunderstorms produced wind gusts up to 80 mph (70 knots), and hail to 1.25 inches in diameter. Up to 2 feet of water covered many roads in the city as the St. Vrain River left its banks. Over 30 blocks in the city of Longmont were without power. Heavy rains washed away part of a bridge near the town of Erie. Extensive flooding in the town of Livermore forced the evacuation of residents in Livermore and neighboring communities. Some flooding of creeks in the Estes Park area was also reported. Estimates of damage to roads alone in Boulder County were expected to exceed \$30,000.

Hail (0.75) Flash Flooding

Jefferson County							
Littleton	01	1540MST	0	0	5	?	Hail (1.00)
Arvada	01	1545MST	0	0	6	?	Hail (1.75)
Littleton	01	1546MST	0	0	6	?	Hail (1.75)
5 N Golden	01	1549MST	0	0	?	?	Hail (0.75)
Arvada	01	1607MST	0	0	5	?	Hail (1.00)
Broomfield	01	1610MST	0	0	?	?	Hail (0.75)
Arvada	01	1612MST	0	0	?	?	Hail (0.75)

Stanley Lake

Golden

01

01

1734MST

1719MST

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dar	nated nage y Crops	Character of Storm
COLORADO Con	t'd								
Arvada Westminster 13 NNW Denver	01 01 01	1614MST 1620MST 1635MST			0 0 0	0 0 0	? 5 5	??	Funnel Cloud Thunderstorm Winds (G50) Hail (1.00)
Arapahoe County Englewood Denver County	01	1545MST			0	0	?	?	Hail (1.75)
4 S Denver 7 ENE Denver 3 SW Denver Boulder County	01 01 01	1559MST 1610MST 1617MST			0 0 0	0 0 0	6 5 6	???	Hail (1.75) Thunderstorm Winds (G50) Hail (1.25)
Boulder Adams County	01	1616MST			0	0	?	?	Funnel Cloud
29 ENE Denver Thornton	01 01	1624MST 1628MST			0	0	4 ?	?	Hail (1.75) Hail (0.75)
Adams County Thornton Westminster	parts in B Nati Earl	s of the city. coulder reporte onal Weather y estimates inc 1734MST 1737MST	A mobile ed a funno Service F dicated da	home par el cloud. orecast Of mages wo	k in Je Thund fice at uld exc 0 0	fferson lerstorm Staplet seed \$7 0 0	County as produ on Inte million ?	report aced wirnations.	ail up to golf ball-size in several ed hail 36 inches deep. Police ind gusts up to 58 mph at the al Airport and in Westminster. Hail (0.75) Flash Flooding
	inch	ther round of in diameter. water as deep	Rainfall e	exceeding	1.25 ir	iches in	tern Ad 1 hour	ams Co	ounty and produced hail to 0.75 I flash flooding in Westminster
Adams County 17 NE Denver	02 Dom	1415MST	High Dad	on amottod	0 funno1	0 alaud	? .	?	Funnel Cloud
Lincoln County	reis	onnel at Mile	nigii Kad	ar sponeu	Tunner	cioua.			
Limon	02				0	0	?	?	Hail (0.75)
	Thre	e-quarter inch	hail fell	the Weath	er Serv	rice Met	teorolog	gical Ol	bservatory in Limon.
Arapahoe County 14 SE Denver	02	1536MST			0	0	3	?	Thunderstorm Winds
	Stro	ng winds (no	estimate o	f speed) d	amageo	the ro	of of a	home a	and a radio antenna.
Weld County Milliken 1 N Gilcrest 2 NE Greeley 5 W Raymer	02 02 02 02 02	1600MST 1600MST 1626MST 1700MST	Short Short	Narrow Narrow	0 0 0	0 0 0 0	????	???	Tornado (F0) Funnel Cloud Tornado (F0) Hail (1.00)

NCAR storm-chaser spotted a brief tornado touchdown at Milliken. The tornado did not cause any damage or injuries. A sheriff's deputy spotted a funnel cloud near Gilcrest. A few minutes later, another tornado was briefly spotted northeast of Greeley. No damage was reported. Thunderstorms moved across Weld County producing heavy rain (1.25 inches in 35 minutes near Wiggins and 1.90 inches in 30 minutes at Hereford) and strong winds (gust to 50 mph near Wiggins). Large hail up to 1.00 inch in diameter fell near Raymer.

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estimated Damage Property Crops	Character of Storm			
COLORADO Cont	.'d										
Arapahoe County 20 SE Denver 10 SE Denver 14 SE Denver	03 03 03	1048MST 1055MST 1108MST			0 0 0	0 0 0	? ? ? ? ?	Funnel Cloud Funnel Cloud Funnel Cloud			
	A pilot spotted a funnel cloud 7 miles east of Centennial Airport. A firefighter and a police officer each spotted funnel clouds in south Aurora.										
Yuma County Idalia	03	1330MST			0	0	4 ?	Hail (1.75)			
	Golf	ball-size hail	fell at Ida	alia. Seve	ral cars	s and ho	omes received	damage, estimated at \$30,000.			
El Paso County Pikes Peak	05 06	1800MST- 0600MST			0	0	? ?	Snow			
	Six to eight inches of snow fell on Pikes Peak overnight. Gusty wind caused snow drifts 2 to 3 feet high.										
Las Animas County 1 N Aguilar	06	1330MST	**500	100	0	0	5 ?	Tornado (F0)			
	few l	rnado touched nouses were re were damage	emoved or	damaged,	, a few	barns v	Several ranch were destroyed	es sustained damage; roofs of a l or badly damaged, and several			
Douglas County Pine Creek	06	1420MST			0	0	? ?	Flash Flooding			
	Heav	y rains caused	l Pine Cre	eek to exce	eed its	banks 4	0 miles south	-southwest of Denver.			
Adams County 14 NE to 15 NE Denver	06	1433MST- 1440MST	1	50	0	0	? ?	Tornado (F0)			
17 NE Denver	06 Torn	1438MST ado spotted b onnel at Mile	y Nationa High Rad	ıl Weather	Service	ce perso	onnel and spo	Funnel Cloud tters; no damage was reported.			
Arapahoe County Aurora Aurora Aurora Aurora Aurora Aurora Aurora 17 E Denver 18 E Denver 20 E Denver Aurora	06 06 06 06 06 06 06 06 06	1509MST 1515MST 1515MST 1526MST 1534MST 1549MST 1616MST 1616MST 1621MST 1633MST 1640MST	Short Short	Narrow Narrow	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	4 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	Hail (1.00) Hail (1.00) Hail (0.75) Funnel Cloud Flash Flooding Flash Flooding Hail (0.75) Tornado (F0) Funnel Cloud Tornado (F1) Flash Flooding			

Thunderstorms moved through Aurora dropping hail up to 1.00 inch in diameter in parts of the city. A funnel cloud was spotted 11 miles southwest of Denver. Very heavy rain, in excess of 1.00 inch in 30 to 60 minutes, flooded roads in Aurora. Water was reported "hood-deep" 9 miles east of Denver. Ten miles east of Denver, water was reported to be 2.5 feet deep. A spotter reported a tornado briefly on the ground about 5 miles east of Buckley Air National Guard. A funnel cloud

June 1991

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

COLORADO Cont'd

was spotted 12 minutes later just east of where the tornado was sighted. A second tornado was reported just east of Watkins. A National Weather Service employee reported flood waters over fire hydrants 10 miles east of Denver. Several motorists were stranded. Early damage surveys placed hail and water damage to automobiles and houses at \$350,000.

·	plac	nydrants 10 n ed hail and wa	mes east iter dama	ge to autor	nobile	verai m es and l	nouses	at \$350,	on the control of the		
Yuma County 3 W Wray	07	1105MST	Short	Narrow	0	0	?	?	Tornado (F0)		
	Torr	nado touched	down brie	fly near W	ray.						
Elbert County	07	1555MST			0	0	?	?	Funnel Cloud		
	A D	enver televisio	on station	had live p	icture	es of a	funnel	cloud ne	ar Elbert.		
El Paso County Calhan	07	1644MST			0	0	?	?	Funnel Cloud		
	A property		funnel c	loud near	Calha	n; the	El Paso	o County	Sheriff's Office confirmed the		
Las Animas County Trinidad	07	1722MST			0	0	?	?	Hail (1.75)		
	Marble- to golf ball-size hail reported at the Trinidad Airport.										
Sedgwick County 4 W Sedgwick 4 NW Sedgwick 1 S Sedgwick Philling County	08 08 08	1628MST 1639MST 1645MST			0 0 0	0	??	? ? ?	Hail (1.25) Hail (2.75) Hail (2.75)		
Phillips County 1 S Haxtun 1.5 SW Haxtun 4 E Haxtun Haxtun	08 08 08 08	1643MST 1653MST 1710MST 1735MST			0 0 0	0 0 0 0	???	???	Hail (1.50) Hail (2.75) Hail (1.50) Hail (1.50)		
		nderstorms pro eme northeaste				l-size n	ear the	towns o	of Sedgwick and Haxtun, in the		
Weld County 8 E to 10 E Grover 25 WNW to 24 WNW Sterling 2 NE Keota	09 09 09	1451MST- 1508MST 1502MST- 1518MST 1604MST	2 1 Short	50 50 Narrow	0 0 0	0 0	?	? ? ?	Tornado (F1) Tornado (F0) Tornado (F0)		

Three tornadoes touched down in Weld County. The first tornado touched down in northern Weld county 8 miles east of Grover and left a path appoximately 2 miles long. The second tornado touched north of Stoneham and remained on the ground for about 1 mile. The third tornado occurred 2 miles northeast of Keota. No damage was reported with either tornado.

Jefferson County 5 W Evergreen 9 SW Denver 5 SW Denver	09 09	1607MST 1622MST	0	0	?	?	Hail (2.00) Hail (1.00) Funnel Cloud
5 SW Denver	09	1634MST	0	0	?	?	Funnel Cloud

Large hail fell and a funnel was sighted just southwest of downtown Denver.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured]	stimated Damage erty Crops	Character of Storm
COLORADO Cont	.'d								
Logan County 35 E Grover	09	1616MST			0	0	?	?	Thunderstorm Winds (G85)
	Thur	nderstorms pro	oduced a w	ind gust t	to 98 m	iph (85 k	nots)) at a miss	ile silo 35 miles east of Grover.
Arapahoe County 11 E Denver 11 E Denver	09 09	1654MST 1700MST			0	0	?	?	Hail (1.00) Hail (1.00)
	Hail	was reported	in Aurora	l.,					
Douglas County 2 S to 4 N Castle Rock	10	1352MST- 1403MST	6	50	0	0	?	?	Tomado (F0)
	Station Rock Doug	on in Colorado c. At 1355 M	o Springs [ST, the to heriff's O	at 1352 Nornado lifi ffice repo	AST. ted, but ted it	One min t a funn was bacl	ute la el ren con t	ater, a pul mained vis the ground	eporter with KRDO Television olic report placed it near Castle sible until 1401 MST when the 14 miles north of Castle Rock. t 1407 MST.
El Paso County 1 N Palmer Lake Colorado Springs	10 10	1417MST 1525MST			0	0	?	?	Hail (1.00) Hail (0.75)
	north	eteorologist want of Palmer Landon the north s	ake. Late	r, an off-	duty N	ion in Co ational	olora Weat	do Springs her Servic	s reported hail to 1.00 inch just be employee reported 0.75-inch
Elbert County 2 S Kiowa	10	1530MST			0	0	?	?	Hail (0.75)
	The	Elbert County	Sheriff's	Office re	ported	dime-si:	ze ha	il 2 miles	south of Kiowa.
Pueblo County Fowler	10	2100MST			0	0	5	?	Lightning
	Ligh	tning struck a	home in e damage;	Fowler. no injuri	The dr	rapes and e reporte	d bed ed.	lding caug	tht fire and the home sustained
Denver County Denver	12	1430MST			0	7	?	?	Lightning
	Ligh years injur	s-old) were p	tree unde	er which s One m	seven p ale wa	persons (s critica	five lly i	males and njured; th	I two femalesaged 19- to 26- ne others received only minor
La Plata County 2 N Durango	12	1500MST			0	0	?	?	Hail (1.00)
-	Hail to a	to 1.00 inch i depth of 4 inc	n diamete hes.	r fell near	Durar	ngo at ap	prox	imately 1:	500 MST, covering the ground
Boulder County Boulder	13	1400MST			0	1	?	?	Lightning
	A 36 tent.	-year-old man He sustained	was injur lonly min	red when for burns.	struck	by light	ning,	at approx	simately 1400 MST, while in a

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	timated amage rty Crops	Character of Storm		
COLORADO Cont	ı'd										
Larimer County Bailey	13	1400MST			0	0	4	?	Lightning		
		tning struck th njuries were re		Administra	ition bu	iilding,	causin	ig \$9000	damage to the computer system;		
Park County Bailey	14	1915MST			0	0	?	?	Hail (0.75)		
•	Spot	ter reported d	ime-size l	nail in Bail	ley.			•			
Larimer County 7 W Fort Collins	16	1140MST			0	2	?	?	Lightning		
									y while hiking near Horsetooth nen the lightning struck.		
Saguache County 3 NW to 3.5 SE Saguache	16	1320MST- 1340MST	6.5	100	0	0	5	?	Tornado (F1)		
	A rare tornado tore through the northern section of the San Luis Valley of south-central Colorado. The tornado first touched down 3 miles northwest of Saguache and moved southeast. A short time after it began, the tornado struck a saw mill 1 mile south Saguache. The tornado removed a few roofs from buildings and broke several windows. A pickup truck was lifted out of a shed and thrown onto a pile of logs. Two camping trailers were overturned and a third was carried 20 feet through air before exploding upon impact. Two log-sheds were destroyed. There were no injuries because it was Sunday, and the mill was closed. The tornado then moved through open country after leaving the mill. Witnesses said the tornado was intermittently on the ground through the entire episode, estimated to be from 1320 MST to 1340 MST. A mobile home received minor damage as the tornado crossed U.S. Highway 285 just south of Saguache. Damage from the tornado was estimated at \$70,000. This was the first documented tornado in the area, in 66 years.										
Chaffee County 10 SE Buena Vista	16	1330MST			0	1	?	?	Lightning		
V III	A 36 Buer	ó-year-old mar 1a Vista. He	n was stru- received a	ck by light i few mind	ning at or burn	approx s and o	imate ther n	ly 1330 N unor inju	MST, while fishing southeast of iries.		
Jefferson County Conifer	16	1339MST			0:	0	?	?	Hail (1.75)		
	Hail	to golf ball-s	ize fell at	Conifer.							
Morgan County Fort Morgan Fort Morgan	16 16	1508MST 1510MST			0	0	?	?	Thunderstorm Winds (G50) Thunderstorm Winds (G53)		
	Thu	nderstorms pro	oduced gu	ists to 61 i	nph at	Fort M	organ	•			
Logan County Sterling	16	1607MST			0	0	?	?	Thunderstorm Winds (G52)		
v a	Thu	nderstorm pro	duced wir	nd gusts to	60 mp	oh at St	erling.				
Yuma County 2 E Clarkville	16	1651MST			0	0	?	?	Hail (0.75)		
	Dim	e-size hail fell	l 2 miles	east of Cla	ırkville	•					

	_	Time Local/	Path Length	Path Width	Per	nber of	Da	mated mage					
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Crops	Character of Storm				
COLORADO Cont	'd												
Cheyenne County Cheyenne Wells Cheyenne Wells Kit Carson County	16 16	1823MST 1826MST			0	0	?	?	Hail (1.00) Hail (1.75)				
5 E Burlington 4 E Burlington	16 16	1825MST 1828MST			0	0	?	?	Hail (1.00) Hail (1.00) Thunderstorm Winds				
	Hail to golf ball-size was reported at Cheyenne Wells. Hail to 1.00 inch in diameter was reported just east of Burlington. Power lines were downed by thunderstorm wind (no estimate of speed) also to the east of Burlington.												
Phillips County Haxtun	17	1930MST			0	0	?	?	Funnel Cloud				
	A fu	nnel cloud wa	s sighted a	and photo	graphe	d over l	Haxtun						
Logan County Peetz Crook 10 E Sterling	18 18 18	1720MST 1730MST 1755MST	Short	Narrow	0 0 0	0 0 0	? ? 4	???	Hail (0.75) Thunderstorm Winds (G67) Tornado (F0)				
Sedgwick County 4 W Sedgwick	18	1732MST			0	0 .	?	?	Thunderstorm Winds (G69)				
	70 to at Pe The t	80 mph and etz. The Loga	dime-size n County	hail accor Sheriff's (npanieo Office s	d the sta sighted :	orms. a short-	Two in lived to	s. Thunderstorm wind gusts of ches of rain in 45 minutes, fell rnado 10 miles east of Sterling. ls. No other damage or injuries				
Morgan County 5 S Brush 5 S Brush	19 19	1654MST 1654MST	Short	Narrow	0	0	?	?	Tornado (F0) Thunderstorm Winds (G61)				
	Storn 70 m	n spotter repor ph (61 knots)	rted a brie	f tornado	5 mile	s south	of Bru	sh. Th	understorm wind gusts reached				
Lincoln County Limon	19	1730MST	-		0	0	?	?	Thunderstorm Winds (G50)				
	The 58 m	Weather Servi ph (50 knots)	ce Meteor	ological C	bserva	tory at	Limon	recorde	ed a thunderstorm wind gust of				
Yuma County Yuma	19	1843MST			0	0	2	?	Thunderstorm Winds				
	A rac		orted that	strong win	nd (no	estimat	e of spe	eed) dan	naged several trees in the town				
Larimer County Loveland	20	1355MST	•		0	0	?	?	Thunderstorm Winds (G50)				
	Meso	onet Station at	Loveland	recorded	a thun	derstorr	n wind	gust of	f 58 mph (50 knots).				
Yuma County Wauneta	20	1942MST			0	0	?	?	Hail (0.75)				
	Spott	er reported 0.	75-inch h	ail in the t	own o	f Waun	eta.						

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dar	nated nage y Crops	Character of Storm
COLORADO Cont	'd								
Denver County 3 SW Denver Jefferson County	21	1250MST			0	0	?	?	Hail (0.750
18 SW Denver 11 SSW Denver	21 21	1308MST 1310MST			0	0	?	?	Hail (1.25) Hail (1.00)
25 NW Denver 14 W Denver 12 SW Denver	21 21 21	1326MST 1433MST 1439MST			0 0 0	0	? 5 5 ? 5	???	Hail (1.00) Hail (0.75) Hail (1.00)
Araphoe County 8 SW Denver	21	1320MST			0	0	?	?	Hail (0.75)
11 SSW Denver 10 SSW Denver 12 S Denver	21 21 21	1325MST 1330MST 1339MST		٠	0 0 0	0 0 0	? 5 6 6	?	Hail (1.75) Hail (2.50) Hail (1.75)
Larimer County Red Feather Lake Poudre Park	21 21	1355MST 1532MST		•	0	0	5 5	?	Hail (0.75) Hail (0.75)
1 NW Fort Collins Douglas County	21	1533MST			0	0	5	?	Hail (0.75)
15 S Denver Parker 6 SW Parker	21 21 21	1359MST 1423MST 1429MST			0 0 0	0 0 0	5 6 ?	? ? ? ?	Hail (1.750 Hail (1.50) Hail (0.75)
5 SE Parker Parker 4 SE Franktown	21 21 21	1433MST 1506MST 1511MST			0 0 0	0 0 0	6 5 ?	? ? ?	Hail (2.00) Hail (1.50) Hail (0.75)
	T1	. 4 4 4	1		4			4	

Thunderstorms developed along the front range and produced widespread hail across the foothills. Hail as large as 2.50 inches in diameter fell with several locations in the southwestern sections of the Denver metro area receiving hail at 1.50 inches in diameter. One storm spotter report indicated hail 8 inches deep at Interstate 25 and Colorado 470. Heavy rain accompanied the hail with isolated reports of street flooding up to 10 inches deep in Denver. Estimated damage to homes and automobiles is around \$55 million.

Elbert County									
Elizabeth	21	1500MST			0	0	3	?	Hail (2.00)
1 W Elizabeth	21	1500MST			0	0	?	?	Hail (2.50)
5 S Elizabeth	21	1520MST	Short	Narrow	0	0	?	?	Tornado (F0)
1 S Elizabeth	21	1522MST	Short	Narrow	0	0 0 0	3 ? ? ?	? ? ?	Tomado (F0)
1 SW Kiowa	21	1605MST	Short	Narrow	0	0	?	?	Tornado (F0)
					-	_	-	-	Hail (1.50)
Elbert	21	1746MST			0	0	?	?	Hail (1.00)
El Paso County					-	_	•	-	(****)
10 NE Calhan	21	1635MST			0	0	?	?	Hail (1.00)
10 1 12 0					-	_	•		Funnel Cloud
5 N Calhan	21	1650MST	Short	Narrow	0	0	?	?	Tornado (F0)
5 N Black Forrest	21	1655MST			Õ	Ŏ	?	?	Funnel Cloud
1 E Peyton	.21	1710MST			Ŏ	Ŏ	Ŷ	?	Hail (1.00)
Calhan	21	1716MST	Short	Narrow	Ō	Õ	? ? ? ?	?	Tornado (F0)
1 E Peyton	$\overline{2}\overline{1}$	1717MST	Short	Narrow	Ŏ	Ŏ	?	?	Tornado (F0)
10 E Peyton	21	1725MST			Ō	Ō	?	?	Hail (0.75)
5 E Calhan	$\overline{21}$	1745MST	Short	Narrow	Ō	Ō	?	?	Tornado (F0)
			-22		-	_	-	-	Hail (0.75)
5 NE Calhan	21	1816MST	Short	Narrow	0	0	?	?	Tornado (F0)
					_	_	-		Hail (0.75)
1 NE to 12 SE	21	1820MST-							
Calhan		1840MST			0	0	?	?	Hail (1.75)
12 SE Calhan	21	1821MST	Short	Narrow	Ŏ	ŏ	?	'n	Tornado (F0)
	~.		-1016	2101	•	•	•	•	101111111111111111111111111111111111111

June 1991

		Time Local/	Path Length	Path Width	_	nber of sons	Estimated Damage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Črops	Character of Storm

COLORADO Cont'd

Thunderstorms moving through Elbert and El Paso Counties produced several small tornadoes. While most touched down in open country, one briefly touched down in the town of Calhan at 1716 MST. No damage or injuries were reported. The thunderstorms also produced widespread hail with tennis ball-size hail reported just west of Elizabeth .

Douglas County							
Highland Ranch	- 21	1625MST	0	0	?	?	Hail (0.88)
Highland Ranch	21	1636MST	0	0	?	?	Hail (1.75)
13 SSE Denver	21	1649MST	0	0	?	?	Hail (1.75) Hail (1.75)
Jefferson County					•		()
8 SW Denver	21	1646MST	0	0	?	?	Hail (1.75)
Aspen Park	21	1727MST	0	Ŏ	Ž	?	Hail (1.75) Hail (0.75)
Arapahoe County	,						
17 SE Denver	21	1706MST	0	0	?	?	Hail (0.75)
Larimer County							(, , , , ,
Turkey Creek	21	1742MST	0	0	?	?	Hail (1.00)
Canvon							(

Thunderstorms again rolled off the foothills through the southwestern part of the Denver metro area and produced hail up to golf ball-size. Thunderstorms made it into the southeastern part of the metro area, but hail size had decreased to dime-size before thunderstorms dissipated.

Jefferson County Lakewood Westminster	21 21	1945MST 2028MST	0 0	0	?	?	Hail (1.00) Flash Flooding
Denver County 2 NW Denver	21	2035MST	0	0 .	?	?	Flash Flooding
Adams County Commerce City	21	2050MST	0	0	?	?	Flash Flooding

Thunderstorms moving through northwestern and northern sections of the Denver metro areas produced hail to 1.00 inch in diameter and very heavy rain which produced flash flodding. In Commerce City, several cars were under water, and in Westminster, a police officer reported water up to his doors.

Larimer County									
2 SW Masonville	22	1252MST			0	0	?	?	Hail (1.00)
2 SE Masonville	22	1257MST			0	0	?	?	Hail (1.00)
Fort Collins	22	1303MST			0	Ō	?	?	Hail (1.00)
3 SW Loveland	22	1307MST			Õ	0	?	?	Hail (1.75)
Loveland	22	1310MST			Ŏ	Ŏ	4	Ž	Hail (0.75)
5 WNW Loveland	22	1312MST			Ō	Ō	?	?	Hail (1.50)
3 SW Windsor	22	1312MST			Ŏ	Ō	?	Ŷ	Funnel Cloud
1 S Fort Collins	22	1315MST			Ô	0	4	-	Hail (1.00)
3 SW Windsor	22	1329MST	Short	Narrow	Ŏ	Ō	?	?	Tornado (F0)
Nugget Springs	22	1330MST			0	0	4	?	Hail (1.00)
2 NW Loveland	22 22	1330MST			Ō	Ŏ	?	?	Hail (0.75)
Boulder County					-				(****)
Lafayette	22	1315MST			0	0	?	?	Hail (1.75)
Weld County									(****)
Windsor	22	1340MST	Short	Narrow	0	0	4	?	Tornado (F0)
Windsor	22	1347MST			0	0	5	?	Hail (1.75)
Evans	22	1400MST			Ō	Ó	5 4	?	Hail (1.00)
Evans	22	1410MST-							
		1420MST	Short	50	0	0	5	?	Tornado (F0)
Windsor	22	1418MST			0	0	5 5	?	Hail (1.75)
W IIIOSOI	عب	141011191			•	J	3	*	11ALI (1.73)

Thunderstorms along the northern foothills produced large hail and damaging tornadoes. The first tornado touched down briefly 3 miles southwest of Windsor. A second tornado developed in the

June 1991

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

COLORADO Cont'd

town of Windsor. This tornado damaged a few sheds. The third and final tornado touched down in the town of Evans. Several tanks were blown into a home, three large trees were uprooted with one caving in the roof of a house and power lines were downed. Large hail also fell with some as large as golf balls. No injuries were reported with either the tornadoes or the hail. Damages were estimated at \$1 million to homes and about \$500,000 to automobiles.

Cheyenne County							
5 E Kit Carson	22	1551MST	0	0	?	?	Hail (1.00)
9 N to 5 E	22	1551MST-					·
Kit Carson		1554MST	0	0	?	?	Thunderstorm Winds (G52)
Kit Carson	22	1625MST	0	0	?	?	Hail (0.75)
Kit Carson County							
Flagler Seibert	22	1615MST	0	0	?	?	Hail (0.75)
Seibert	22	1623MST	0	0	?	?	Hail (0.75)
			0	0	?	?	Thunderstorm Winds (G52)
Prowers County							
Holly	-22	1630MST	0	0	?	?	Hail (1.75)
Granada	22	1635MST	0	0	?	?	Hail (1.75)

Thunderstorms in eastern Colorado produced hail up to 1.75 inches in diameter and thunderstorm wind gusts up to 60 mph (52 knots). Public reports comfirmed by spotters indicated the strong winds in Cheyenne County were widespread.

Morgan County									
16 N Fort Morgan	22	1627MST			0	0	?	?	Hail (1.75)
Logan County									` ,
20 WSW Sterling	22	1631MST	Short	Narrow	0	0	?	?	Tornado (F0)
15 SSW Sterling	22	1800MST			0	0	?	?	Tornado (F0) Hail (1.75)
Washington County 18 SSW Sterling									` ,
18 SSW Sterling	22	1720MST-							
· ·		1739MST	Short	100	0	0	?	?	Tornado (F0)
15 NW Otis	22	1900MST	Short	Narrow	0	0	?	?	Tornado (F0)
10 N Akron	22	1938MST			0	0	?	?	Funnel Cloud
15 N Akron	22	1944MST			Ō	Ó	?	?	Funnel Cloud
6 S Merino	22	1945MST			0	0	?	?	Hail (2.25)
									• /

Thunderstorms produced three tornadoes in northern Washington County and southern Logan County. The tornadoes touched down in open country. No damage or injuries were reported. Large hail was also reported with the largest size of 2.25 inch-diameter, occurring 6 miles south of Merino in extreme northwestern Washington County.

Jefferson County 11 SW Denver

26 1400MST

0 0 4 ? High Winds

High wind not associated with thunderstorms, damaged a home in the Green Mountain area. The owner reported that a strong wind picked up a heavy metal and glass table on the deck of his home and threw it into the house. The table was destroyed and the house and deck received considerable damage. The wind speed at Squaw Mountain near Idaho Springs, was 58 mph (50 knots) at the time of the incident.

Pueblo County Pueblo

27 1800MST

3 0 ? Lightning

Lightning from a thunderstorm struck a wedding rehearsal party at approximately 1800 MST, killing one woman and injuring three other persons (1 male and 2 females). (F42P)

1

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons	D	timated amage	Character of Storm	
Lovation		- Juniou G	(1.11.05)	(10.00)		111,000	riope	ity Grops	On the state of th	
COLORADO Cont	'd	•								
Mesa County Grand Junction	27	2234MST			0	0	4	?	High Winds	
	High arou	winds throughd the Walley,	h the Grai	nd Valley g a large t	reached ree wh	l up to 6 ich fell	on a v	h (57 kno vacant ho	ots) and caused isolated damage ouse in Grand Junction.	
CONNECTICUT										
Hartford County Granby	12	1430EST			0	0	?	0	Thunderstorm Winds	
	Map	le trees were	downed by	y thunders	storm w	inds.				
Litchfield County New Milford	12	1500EST	,		0	0	?	0	Thunderstorm Winds	
	Tree	s were downe	d and bloo	cked Rout	e 7.					
Hartford County Wethersfield Farmington	12	1500EST			0	1	4	0	Thunderstorm Winds (G53)	
Avon	A pe	ak wind gust artford man w	to 60 mpl as injured	h occurred when a t	l at We ree fell	thersfie on his	eld blo car.	wing do	wn trees at scattered locations.	
Tolland County Stafford Springs Willington	12	1500EST			0	0	4	0	Thunderstorm Winds	
	Tree	s were blown	down by	thundersto	orm wi	nds.				
Fairfield County Danbury Trumbull	12	1500EST- 1530EST			0	0	4	0	Thunderstorm Winds	
	Trees were blown down at many places throughout the county. Some 20,000 electric customers lost electricity. A waterspout was reported off Norwalk in Long Island Sound where several boats were nearly capsized. A Greenwich man and his passenger escaped injury when their moving car was hit by a falling tree. There were many reports of small hail.									
Windham County Pomfret Thompson	12	1530EST	٠.		0	0	?	0 -	Thunderstorm Winds	
New London County Norwich	12	1600EST			0	0	?	0	Thunderstorm Winds	
Franklin	Trees	s were downed vich and Fran	l by thund klin in Ne	lerstorm w w Londor	vinds in Coun	Pomfrety.	et and	Thomps	on in Windham County, and in	
New Haven County New Haven	12	1530EST- 1600EST		• •	0	0	?	0	Thunderstorm Winds (G50)	
	Trees Guar	s were blown d station at 15	down at se 535 EST.	cattered lo There we	cations ere mar	s. A pe	ak gus ts of s	st to 58 r small hai	nph was recorded by the Coast 1.	
Windham County Danielson	12	1600EST		,	0	0	?	0 -	Thunderstorm Winds	
New London County Norwich	12	1620EST			0	0	?	0	Thunderstorm Winds	

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	h Persons		Ι	stimated Damage erty Crops	Character of Storm				
CONNECTICUT Cont'd													
	Trees were downed in Danielson and Norwich by thunderstorm winds.												
Litchfield County Sharon Litchfield Cornwall	16	1430EST- 1500EST	•		0	0	4	0	Thunderstorm Winds				
Bridgewater	Tree	es downed by	thunderst	orm winds	block	ed Route	es 41	and 4.					
West Cornwall	16	1440EST			0	0	0	0	Hail (1.00)				
New Haven County	16	1455EST- 1515EST			0	0	0	0	Thunderstorm Winds				
	Downed trees caused power outages in many towns, including Seymour, Beacon Falls, Oxfor Southbury, Hamden, Naugatuck, and Bethany. A house was damaged by a falling tree Naugatuck.												
Windham County Willamantic	16	1515EST			0	0	?	0	Lightning				
Williamande		olt of lightnin	na ianited	a house fir	•	V	•	V	ragnumg				
Tolland County Mansfield	16	1530EST- 1545EST	ig ignitod	a nouse m	0	0	?	0	Thunderstorm Winds				
	Tree	s were down	ed by thur	derstorm	winds	in Mans	field.						
Fairfield County New Canaan Wilton Greenwich Westport	16 16 16	1647EST 1655EST 1710EST	4, 4.7		0 0 0	0 0	3 3 4	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds				
New Haven County Milford West Haven	16	1745EST			0	0	?	0	Thunderstorm Winds				
West Haven	Thunderstorm winds and lightning knocked out electric power to about 29,000 customers statew with about 10,000 of this total reported in the southwestern portion of the state, especially Fairf County. There were two waves of thunderstorms. The first affected the northern and cen portions of Connecticut, and the second batch affected the western and southwestern parts of state. Generally minor property damage was reported. A few homes and autos sustained dam from falling trees and tree limbs.												
DELAWARE													
Sussex County Millsboro	16	1545EST			0	0	4	0	Thunderstorm Winds				
	State	police repor	ted trees a	ınd power	lines	downed	due to	strong v	vinds.				
New Castle County Talleyville	16	1750EST			0	0	0	0	Thunderstorm Winds				
	Win	ds toppled tre	es onto a	house in 7	Falley	ville.							
Claymont	16	2047EST			0	0	0	0	Thunderstorm Winds				

Winds blew a tree onto a house in Claymont.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	D	timated amage	Character of Storm			
200411011			(111100)	(14145)		. Injuited	7.10pt	пу сторо	Character of Storm			
DELAWARE Con	t'd											
Sussex County Millsboro	17	1545EST	6,5 · .		0	0	4	0	Thunderstorm Winds			
	Nun	nerous trees au	nd power	lines were	down	ed by sta	rong v	vinds.	**************************************			
FLORIDA		• •	•									
Polk County				. * * * .								
6 NW Lakeland	01	1414EST	Short	?	0	0	0	0 .	Tornado (F0)			
	The public reported a brief tornado touchdown near Kathleen.											
Volusia County Orange City	02	1450EST		. 1542	0	1	2	0	Thunderstorm Winds Lightning			
	Stron Ligh serio	tning struck a	winds dan nother ho	naged roof me and br	fs and s iefly ki	screen en nocked i	closur ts occi	es of two	o mobile homes in Orange City. conscious; his injuries were not			
St. Lucie County Port St. Lucie	02	1747EST	Short	?	0	0	0	0	Tornado (F0)			
	A sn	nall tornado to	ouched do	wn briefly	in a s	ubdivisi	on in	Port St.	Lucie.			
Monroe County 5 SE Key West 10 N Marathon	03 03	0540EST 1045EST	?	?	0	0	0	0	Waterspout Waterspout			
	A w	aterspout was	observed	by a pilot	: 10 mi	les nortl	h of M	farathon	in Florida Bay.			
Alachua County Gainesville	03	1630EST			0	0	0	0	Thunderstorm Winds Funnel Cloud			
	Stroi A pil	ng thunderstor lot reported a	rm winds funnel clo	overturned ud about 6	daboa miles	at on a s east of (tream Gaines	4 miles ville, bu	west-northwest of Gainesville. t it dissipated a short time later.			
Monroe County 3 NW Key West	04	1146EST	?	?	0	0	0	0	Waterspout			
	A wa	aterspout was	observed	3 miles no	orthwe	st of the	Key '	West Air	rport.			
Big Pine Key	04	1600EST	?	?	0	0	0	0	Waterspout			
	A wa	aterspout was	observed	by the Co	ast Gu	ard 4 mi	les so	uth of B	ig Pine Key in the lower Keys.			
Hernando County Brooksville	04	1400EST- 1430EST	:		0	2	2 ·	0	Lightning			
		tning strikes c Hernando Wo				aged a fo	ew coi	nputers,	and slightly injured two people			
FLZ008-009 Bradford, Clay, Duval, Putnam, and	04	1800EST- 1830EST			0	1	4	0	Lightning			

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	Estimated Damage Property Cro	ps Character of Storm				
FLORIDA Cont'd												
St. Johns Counties	fires know	. Transforme	ers that we station off	re knocke the air,	d out ca and car	aused ext used mir	tensive power	sinesses and ignited several forest er outages. A lightning strike also to one person using an electrical				
Citrus County 55 SSW Gainesville	05	0030EST		· · · .	0	0	3 0	Thunderstorm Winds				
	Stro	Strong thunderstorm winds snapped several power poles in Beverly Hills.										
Monroe County 6 NW Key West	05	1755EST	?	?	0	0	0 0	Waterspout				
r	A w	aterspout was	observed	6 miles r	orthwe	st of Ke	y West.					
Collier County Naples	06	1000EST		1.7.7	0	1 .		Lightning				
	A 19 near	9-year-old ma by. He was	ın that was hospitalize	s working ad and rele	on a ceased the	ondomir ree day:	nium roof, v s later.	vas injured when lightning struck				
Monroe County Ocean Reef	06	1015EST	-		0	0		Funnel Cloud				
	The	public report	ed a funne	el cloud o	ver Oce	ean Reef	in the uppe	er Keys.				
4 N Key West	06	1555EST	?	?	0	0	0 0	Waterspout				
	A w	aterspout was	s spotted b	y Weathe	r Servi	ce perso	nnel 4 miles	north of Key West.				
8 NW Cudjoe Key	09	0910EST	?	?	0	0	0 0	Waterspout				
	A w	aterspout was	reported	by the Ai	r Force	northw	est of Cudjo	e Key in the lower Keys.				
20 NE Marathon	09	1109EST	?	?	0	0	0 0	Waterspout				
		eral waterspou ile Keys.	its were re	eported ov	ver Flo	rida Bay	10 to 20 m	niles northeast of Marathon in the				
Volusia County												
1 S Ponce Inlet	11	0601EST	?	?	0	0	0 0	Waterspout				
	The shor	Coast Guard e. It dissipat	reported a ed before	a watersp reaching	out 1 n land.	nile sout	h of the Po	nce de Leon pier moving toward				
Monroe County 7 W Key West	11	1512EST	?	?	0	0	0 0	Waterspout				
	A'w	aterspout was	observed	7 miles w	est of t	he Key	West Airpor	t moving west into the open gulf.				
Palm Beach County Belle Glade	13	1400EST	Short	?	0	0	0 0	Tornado (F0)				
	A sr Park	nall tornado v	vas reporte The tornac	ed on the g lo lifted b	ground ack int	near the	Belle Glade rent cloud v	courthouse by an employee of the vithout causing any damage.				
Brevard County Kennedy Space Center	14	0950EST	Short	?	0	0	0 0	Waterspout Tornado (F0)				

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estimated Damage Property Crops		Character of Storm								
FLORIDA Cont'd																	
	A sn of th	nall waterspou ne Kennedy Sp	it/tornado pace Cente	briefly sk er.	irted th	e area a	long t	he shore	of the Banana River just south								
Monroe County 6 SE Key West	14	1316EST	?	?	0	0	0	0	Waterspout								
	Weather Service personnel observed a waterspout 6 miles southeast of Key West.																
Palm Beach County Pahokee	16	1600EST			0	0	0	0	Funnel Cloud								
	A pi	lot reported a	funnel cl	oud near l	Pahokee	in the	weste	rn Palm	Beach County.								
Highlands County Sebring Ayon Park	16	1630EST			0	0	4	0	Thunderstorm Winds								
Avon i aik	Stroi	ng thundersto	rm winds	downed to	rees and	l power	lines	causing	several minor traffic accidents.								
Hardee County Wauchula	16	1700EST			0	0	3	0	Thunderstorm Winds								
	Stroi	ng thundersto	rm winds	uprooted	several	trees.											
Polk County Frostproof	16	1710EST- 1753EST			0	0	3	0	Thunderstorm Winds								
	Stroi	ng thundersto	rm winds	uprooted:	numero	us trees	and b	lew dow	n power lines.								
Babson Park	16	1750EST			0	0	3	0	Thunderstorm Winds								
	Stroi	ng thundersto	rm winds	uprooted:	numero	us trees	•										
Broward County Miramar Pembroke Pines	17	1315EST- 1330EST			0	0	3	0	Hail (1.50) Thunderstorm Winds								
		e hail fell ove ral power line		areas in s	outhern	Browa	rd Co	inty whi	le strong winds knocked down								
Palm Beach County 14 S West Palm Beach	17	1445EST			0	0	2	0	Thunderstorm Winds								
I mini issani	Powe	er lines were	downed by	y strong t	hunders	storm w	inds in	n Delray	Beach.								
Broward County Fort Lauderdale	17	1830EST			0	1	0	0	Lightning								
	Ligh to a	tning struck n hospital and t	ear a 15-y reated.	ear-old gi	rl that v	vas stan	ding ii	n the doc	orway of a home; she was taken								
Monroe County 5 N Key West	18	1018EST	?	?	0	0	0	0	Waterspout								
	A wa	aterspout was	observed	by a com	mercial	pilot 5	A waterspout was observed by a commercial pilot 5 miles north of the Key West Airport.										

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	Estima Dama Property (ge	Character of Storm
<u> </u>	Dute	Dumouro	(Mines)	(14145)	Tanco	Injuicu	Troperty (Сторы	Character of Storm
FLORIDA Cont'd									
Flagler County Flagler Beach	18	1315EST			0	0	4 (0	Thunderstorm Winds
	Stro	ng winds da	maged apar	rtments and	d blew	down se	creen enc	losur	es.
Indian River County Fellsmere	18	1545EST			0	0	0 (0	Funnel Cloud
	A fu	innel cloud v	was noted l	by the sher	iff's of	ffice nea	r Fellsme	ere.	
Highlands County 4 S Avon Park	18	1615EST			0	0	3 (0	Thunderstorm Winds
	Stro	ng thunderst	orm winds	blew over	trees a	and pow	er lines i	n the	Avon Lakes area.
Indian River County 20 W Vero Beach	18	1700EST	?	?	0	0	0 (0	Waterspout
	A sr	nall watersp	out was ob	served over	r Blue	Cypress	Lake 20	mile	s west of Vero Beach.
Brevard County Rockledge	18	1700EST			0	0	4 (0	Thunderstorm Winds
	Park	ng thunderst Tree limb of the pilot	s and powe	er lines wei	er two s re also	small air downed.	craft that A const	were truction	tied down at the Rockledge Air on trailer was destroyed and the
St. Johns County St. Augustine	19	1430EST			0	0	2 (0	Lightning
	Ligh seve	ntning struck ral hours.	a utility p	ole outside	the co	ounty co	mmunicat	tions	center, knocking out "911" for
Highlands County Sebring	19	1630EST- 1730EST			0	0	3 (0	Thunderstorm Winds Lightning
	Ligh wind	ntning struck Is knocked o	several tr	ansmitters al canopy	knock and be	ing a ra nt its sto	dio statio eel suppo	n off rts.	the air. Strong thunderstorm
Palm Beach County 5 NE Boca Raton	20	0938EST	?	?	0	0	0 (0	Waterspout
		lot reported tal waters.	a waterspo	out 5 miles	northe	ast of Be	oca Raton	in th	ne southern Palm Beach County
Polk County Lakeland	20	1545EST- 1725EST			0	1	2 (0	Lightning Thunderstorm Winds
	A m	nan was inju ed an alumir	red when l num roof o	ightning s ff a buildi	truck n	earby ea h of Lal	ast of Lal keland are	kelan ound	d. Strong thunderstorm winds 1725 EST.
Lee County Bonita Springs	20	1630EST			0	0	3 (0	Thunderstorm Winds
	Stro	ng downbur	st winds pe	eled alumi	inum o	ff mobil	e homes	and c	rumpled screen enclosures.

		Time Local/	Path Length	Path Width		nber of		mated mage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured			Character of Storm
FLORIDA Cont'd									· ·
Putnam County 10 NE Palatka	20	1930EST			1	2	0	0	Lightning
	thun	e people fishi derstorm deve d, and the oth	loped. Th	iey were si	tanding	under a	into a canop	dock a y when	long the eastern bank when a lightning struck. One man was
Putnam and St. Johns Counties Palatka	20	1750EST-		,		٠			
Crescent Beach		1845EST			0	0	5	0	Thunderstorm Winds
	Palat	re thunderstor ka and near H alatka.	ms move lastings.	d south th Cable and	rough teleph	Jackson one line	ville d s were	lowning downed	trees and power lines east of I near San Mateo just southeast
Pasco County Zephyrhills	21	1600EST			0	0.	3	0	Lightning
	Ligh	tning struck tl	ne corner	of a two-s	story ap	oartmen	build	ing setti	ng it on fire.
Hillsborough County Tampa	21	1700EST			0	0	2.	0	Lightning
	Ligh ruptu	tning struck tl iring the tank	ne top of itself.	a gasoline	storag	e tank a	t the P	ort of T	Campa burning the top, but not
Polk County Lakeland Bartow	21	1700EST			0	0	3	0	Thunderstorm Winds
Datow	An 8 adjac	80-foot-tall pin cent house. O	ne tree wa ther trees	as snapped and some	d off n power	ear its lines w	base avere do	nd then wned.	crashed into the garage of an
Lake County Eustis	21	1740EST			0	0	4	0	Thunderstorm Winds
	Seve: destr	re thunderstor oyed a shed a	m winds nd a smal	damaged t l trailer.	he roo	f and st	adium	press b	ox of Eustis High School, and
Pasco County Zephyrhills	21	2100EST	٠		0	0	2	0	Lightning
	Light	tning struck a	house sta	rting a fir	e that l	ourned t	he livi	ng roon	and kitchen.
Palm Beach County 4 NE Boca Raton	22	1028EST	?	?	0	0	0	0	Waterspout
		ot reported a al waters.	waterspou	t 4 miles i	northea	st of Bo	ca Rat	on in th	e southern Palm Beach County
Hillsborough County Tampa	22	1435EST			1 .	0	0	0	Lightning
	A ma	nn was killed v k by lightning	while pull His tw	ing two yo o young c	oung bo	oys on i	nner tu re unh	ibes who art. (M	en the boat he was driving was 200)
Lee County 14 E Fort Myers	22	1500EST			0	1	0	0 .	Lightning

. :									Julie 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	D	timated amage rty Crops	Character of Storm
FLORIDA Cont'd									
	out t	3-year-old boy hrough the ha onth-old pupp	indset he v	was holdin	ğ. He	e was tre	ated a	t a local	struck near his house and came hospital and later released. An
Marion County Ocala	22	1525EST			0	0	1	0	Hail (0.75)
	Mar	ble-size hail f	ell for a s	hort time i	n the	Ocala an	ıd Silv	er Sprin	gs area.
Pasco County Zephyrhills	22	1620EST- 1649EST	٠.		0	0	2	0	Thunderstorm Winds
	Stroi	ng thundersto	rm winds	blew down	n pow	er lines.			•
Monroe County 5 SE Key West	23	0828EST	?	?	0	0	0	0	Waterspout
,	A w	aterspout was	observed	5 miles so	outhea	st of Key	y Wes	t.	
Martin County 25 N West Palm Beach	23	1245EST		·	0	4	0	0	Lightning
		r people were mament; all re		when ligh	tning	struck a	a tree	or cran	e at the Port Salerno Fishing
17 N West	23	1350EST			0	2	0	0	Lightning
Palm Beach		chtning strike . Both were				scious an	ıd stur	ned anot	ther at Jonathan Dickinson State
Pasco County Dade City	23	1400EST			0	0	0	0	Lightning
	engi	tning struck to ne and flattene ped injury.	the CB and three of	tenna of a f the four t	Cadil ires a	llac trave s it exited	eling a d the v	ilong Int ehicle, t	erstate 75. It tore through the put the two occupants of the car
Dade County 14 SSW Miami	23	1420EST			0	2	0	0	Lightning
	Two game	people in sore; both were l	uthern Da nospitalize	de County d.	were	injured	when	lightning	g struck a soccer field during a
Broward County 12 NW Fort	23	1430EST			0	<u>,</u> 1	0	0	Lightning
Lauderdale		tning struck i unconscious		up of peop	ole on	a picnic	at W	eleby Pa	rk in Sunrise, knocking one of
Wakulla County 12 SSW Tallahassee	23	1540EST		· · · · · · · · · · · · · · · · · · ·	.0	0	2	. 0	Thunderstorm Winds
	Stroi	ng thundersto a shed in Cra	rm winds awfordvill	blew limb e. Flying	s acro debri	ss power s broke a	lines	, then up obile wir	prooted a large tree and blew it adshields.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	D	timated samage erty Crops	Character of Storm
FLORIDA Cont'd									
Highlands County Sebring	24	1513EST			0	. 0	4	0	Thunderstorm Winds
	Stron	ng thunderstor er lines were	rm winds downed.	blew the	roof o	ff one m	obile	home an	d damaged another. Trees and
Polk County 39 NW Avon Park	24	1635EST	Short	?	0	0	0	0	Waterspout Tornado (F0)
	A wa	aterspout forn	ned over	Lake Vanr	and 1	noved as	hore	downing	several trees.
34 NW Avon Park	24	1700EST			0	0	1	0	Thunderstorm Winds
	Stror	ng thundersto	rm winds	uprooted	severa	l large tr	ees at	Winter 1	Haven.
Duval County 15 E Mayport	24	1955EST	?	?	0	0	0	0	Waterspout
	A wa	aterspout was	observed	15 miles	east of	f Maypoi	t.		
Monroe County 30 SW Key West	25	0910EST	?	?	0	0	0	0	Waterspout
	A wa	aterspout was	observed	30 miles	southv	vest of K	ey W	est.	
Hillsborough County Riverview	25	1855EST			0	0	3	0	Thunderstorm Winds
	Stron	ng thunderston	m winds	tore the re	oof of	f a mobil	e hon	ne and do	owned trees and power lines.
Dade County Homestead	26	1510EST- 1545EST			0	0	2	0	Thunderstorm Winds (G58)
	Thun Air I	derstorm win Force Base rec	d gusts b	lew over t -mph gust	rees and s at 15	nd power 516 EST.	lines	in south	ern Dade County. Homestead
Broward County Margate	26	1619EST			0	0	2	0	Thunderstorm Winds
	Stron	g thunderstor	m winds	blew over	trees	and pow	er line	es.	
Palm Beach County Boca Raton	26	1728EST			0	0	4	0	Thunderstorm Winds
	Stron trees,	g thunderstor and downed	m winds power lin	blew off pnes.	part of	the roof	of a	two-story	y apartment building, uprooted
Orange County Orlando	26	1900EST			0	0	4	0	Thunderstorm Winds
	Stron	g thunderstor	m winds	blew down	n num	erous tre	es and	d power	lines in Orlando.
Orlando	27	1810EST			1.	2	0 .	0	Lightning
	Light (M30	tning struck nool	ear three	men on a	golf co	ourse. O	ne wa	s killed a	and the other two were injured.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dar	nated nage y Crops	Character of Storm
FLORIDA Cont'd									
Monroe County 5 N Key West	28	0710EST	?	?	0	0	0	0	Waterspout
	A w	aterspout was	noted 5 n	niles north	of Ke	y West.			
Key West	28	1600EST	?	?	0	0	0	0	Waterspout
	Seve Key		s were sig	ghted over	Florid	a Bay n	orth of	Cudjoe	and Big Pine Key in the lower
Lee County Island Park	28	1645EST			0	0	0	0	Hail (1.00)
	One	-inch hail was	reported	by televisi	on stat	ion WB	BH.		
Lake County Leesburg	28	1720EST			0	0	3	0	Lightning
	Ligh hom	ntning struck a e that caught i	tree, kno fire and b	cking off urned dow	a branc n.	ch and s	setting i	t on fir	e. The branch struck a mobile
Lee County Cape Coral	28	1735EST			0	0	1	0	Thunderstorm Winds
	A la	rge tree was s	napped ne	ear its base	and b	lown o	ver by s	trong t	hunderstorm winds.
Polk County Eagle Lake	28	1902EST			0	0	3	0	Thunderstorm Winds
	Stro	ng thunderstor	m winds	blew down	n trees	and pov	wer line	es.	
Collier County 43 SSW Fort Myers	28	1755EST	Short	?	0	0	3	0	Waterspout Tornado (F0)
•	A w	aterspout mov	ed onshor	e damagir	ıg seve	ral scree	en enclo	sures a	and roofs.
30 ESE Fort Myers	29	1550EST			0	0	2	0	Thunderstorm Winds (G61)
	Stro	ng winds blew	over trees	s and powe	er lines	. Winds	s gusted	to 71 1	nph at Immokalee at 1550 EST.
Charlotte County Port Charlotte	29	1930EST			0	0	2	0	Thunderstorm Winds
	Stro	ng thunderstor	m winds	damaged t	wo scr	een poo	ol enclo	sures a	nd blew down a tree.
Osceola County 15 S Orlando	29	1950EST			0	0	0	0	Funnel Cloud
	A sr	nall funnel clo	ud was si	ghted brie	fly in	Kissimn	nee.		
Martin County Jensen Beach	30	1130EST			0	0	0	0	Funnel Cloud
	A fu	innel cloud wa	s sighted	along U.S	. High	way 1 i	in Mart	in and	St. Lucie Counties.
Palm City	30	1130EST			0	0	0	0	Funnel Cloud

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	imated amage rty Crops	Character of Storm
FLORIDA Cont'd									
	A fu	nnel cloud wa	s sighted	along Flo	rida Hi	ighway	714 in	central	Martin County.
Glades County 7 NE LaBelle	30	1247EST	•		0	0 .	0	0	Funnel Cloud
	A fu	nnel cloud wa	s sighted	briefly no	rtheast	of LaB	elle.		
GEORGIA									
Meriwether County Greenville Crisp County	01	0355EST			0	0	?	?	Hail (0.75)
1 E Cordele Countywide Cordele	01 01 01	1130EST 1130EST 1145EST			0 0 0	0 0 0	2 ?	?	Thunderstorm Winds Flash Flood Hail (0.50)
	A fe				ed a ro	ad east	-	ordele.	Numerous roads and low-lying
Gwinnett County Lilburn Fulton County De Kalb County Gwinnett County Clayton County	01 01 01 01 01	1240EST 1300EST 1300EST 1300EST 1300EST		·	0 0 0 0	0 0 0 0	?????	????	Small Hail Lightning Lightning Lightning Lightning
	resid were Rive	ents had utilit splintered by	y outages lightning esboro in	after line The ha	s, tran: rdest h	sformers it areas	s, and were	poles w southeas	tropolitan area. About 10,000 ere damaged. Numerous trees tern Atlanta in Fulton County, County, and at Stone Mountain
Morrow DeKalb County	01	1310EST			0	0	?	?	Hail (0.25)
N Atlanta Stone Mountain	01 01	1310EST 1344EST			0	0	?	?	Hail (0.50) Small Hail
Rockdale County 1 E Conyers	01	1345EST			0	8	?	?	Lightning
	Eigh	t people were	injured w	hen lightr	ning str	uck a fi	eld du	iring a v	vomen's soccer tournament.
Gwinnett County Lawrenceville Newton County	01	1350EST			0	0	?	?	Small Hail
Oxford Porterdale Covington	01 01 01	1405EST 1415EST 1435EST			0 0 0	0 0 0	3 2 6	?	Lightning Lightning Lightning
J	house	xford, a smal	I fire star ; little dar stages of o	ted when mage result construction	lightni lted. A on. Th	ng dislo bout 14 e church	odged 35 ES was t	an elect T, lightr otally de	rical wire. Lightning struck a ning struck the steeple of a large estroyed; damage was estimated
Spalding County Griffin 5 ESE Griffin to	01 01	1422EST 1422EST			0	0	?	?	Lightning Thunderstorm Winds
4 NE Griffin Griffin	01	1422EST			?	?	?	2	Hail (0.50)

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage arty Crops	Character of Storm
			· · · · · · · · · · · · · · · · · · ·						
GEORGIA Cont'd									
3 E Orchard Hill	01	1426EST			0	0	?	?	Hail (0.75)
	lines	quent lightning s, limbs, and to e damaged by	wo trees w	used pow vere uproo	er outa ted ove	ges in G r easteri	iriffin n Spal	. Thundding Cou	erstorm winds tore down power inty. Several gardens in Griffin
Bibb County Macon	01	1430EST			0	0	? .	?	Hail (0.50)
Morgan County Western Portion	01	1515EST			0	0	?	?	Hail (0.50)
Clarke County Athens	01	1532EST	,		0	0	?	?	Thunderstorm Winds (G50)
Upson County Thomaston	01	1536EST			0	0	3	?	Thunderstorm Winds Lightning
	Freq	quent lightning	strikes an	d thunder	storm w	inds cau	used n	nany pow	er outages uprooted a few trees.
Sumter County Leslie	01	1620EST		٠	0	0	3	?	Thunderstorm Winds
	Scat	tered trees and and Leslie. Po	tree limbs	s were dov ges develo	vned by ped wh	thunder en utili	rstorn ty line	n winds o	ver southeastern Sumter County orn down.
Troup County 2 S Hogansville	01	1700EST			0	0	3	?	Lightning
	Ligh	ntning struck a	large tre	e that dan	naged th	ne roof	of a b	arn.	
Telfair County McRae City	01	1800EST		·	0	0	?	?	Hail (1.75)
Coweta County Senoia Newnan	01 01	1830EST 1830EST			0	0	3	?	Thunderstorm Winds Lightning
Northern Portion	hosp	enoia, an inn pital in Newnar veta County an	1 and dam	aged the e	lectrical	system	tree i Ligi	fell onto htning hi	its wiring. Lightning struck a t a transmission fuse in northern
Toombs County Cedar Crossing	01	1845EST	·		0	0	2	?	Thunderstorm Winds
	A la	rge tree was b	olown dov	vn by the	winds i	n Cedai	r Cros	ssing.	
Coweta County Senoia	01	2020EST			0	0	3	?	Lightning
	Ligh	ntning caused	minor dan	nage to th	e electr	ic syste	m at a	a dairy.	•
Chatham County Pooler Savannah Garden City	01 01 01	2035EST 2035EST 2040EST			0 0 0	0 0 0	4 3 4	?	Thunderstorm Winds Thunderstorm Winds (G57) Thunderstorm Winds
	Scat hous	tered trees we se. In Garden	re uproot City, sev	ed in Sava eral traffic	annah a lights	nd Pool were da	ler. l amage	In Pooler d by win	, a tree damaged the roof of a ds along Georgia Highway 17.

Worth County

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage ty Crops	Character of Storm
GEORGIA Cont'd									
Shingler	01	2100EST			0	0	3	?	Thunderstorm Winds
	Seve	n trees were u	prooted n	ear Shing	ler dest	roying	a dog l	house a	nd gas pump.
Newton County Oxford	01	2130EST			0	0	?	?	Lightning
	Ligh	tning damaged	l a transfo	ormer and	caused	a powe	er outa	ge.	
Crisp County Cordele	01	2200EST			0	0	4	?	Flash Flood
	Duri	ing heavy rains	fall over	Cordele, f	lash flo	ods dev	eloped	l and da	maged several vehicles.
Newton County Eastern Portion	01	2230EST			0	0	3	?	Lightning
	A ho	ouse was struck	k by light	ing; mino	r dama	ges resu	lted.		
Chattooga County Holland Countywide	01	Night			0	0	3	?	Thunderstorm Winds
County wide	Stron was	ng winds pushe Holland. Mar	ed trees ar	nd limbs ir ners experi	nto utili enced o	ity lines disruptio	over (Chattoog their ut	ga County. The hardest hit area ility services.
Green County White Plains	02	0400EST			0	0	5	?	Lightning
	Ligh	tning destroye	d a stately	y home af	ter stril	king its	roof.		
Gordon County Plainville	03	Afternoon			0	0	4	?	Thunderstorm Winds
	Wind	ds pushed a lai	rge tree o	nto a busi	ness ca	using d	amages	S.	
Chattooga County Trion Holland	03	Afternoon			0	0	3	?	Thunderstorm Winds
Countywide	Scatt were	tered trees were blocked, inclu	e uprooted uding U.S	d over Cha S. Highwa	attooga y 27 in	County Trion.	, main Brief	ly at Tri power	ion and Holland. Several roads outages developed.
Catoosa County Ringgold	04	1420EST			0	0	3	?	Thunderstorm Winds
	Stror	ng winds uproc	oted nume	erous trees	aroun	d Ringg	gol d .		
Gordon County Calhoun Gwinnett County	04 04	1458EST Afternoon			0	0	?	?	Hail (0.75) Lightning
- -	Ligh	tning struck se	everal tree	es and 10	houses	across (Gwinn	ett Cour	nty causing minor fire damage.
Rockdale County Conyers	04	1600EST			0	0	?	?	Hail (1.00)
Jackson County Commerce	04	1600EST			0	0	3	?	Thunderstorm Winds
	Stron	ng winds dama	ged trees	and utility	equip	ment in	Comm	erce. C	Outages developed, mainly over

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
GEORGIA Cont'd									
	the s	southeastern si	de of Cor	nmerce.					
Quitman County Morris Southeastern	04	1725EST			0	0	3	?	Thunderstorm Winds
Portion	at M	ng winds pushe forris and over opted.	ed a few to r southeas	rees and lintern Quitn	nbs acı nan Co	oss roac unty ne	ds in C ar the	uitman (county)	County. Most damage occurred line. Utility services were also
Worth County Bridgeboro Anderson City	04	1730EST			0	0	3	?	Thunderstorm Winds
Bridgeboro Evergreen	04 04	1730EST 1730EST			0	0	3 ?	?	Lightning Small Hail
	resu	ng winds upro ting in numero communication	ous power	es over so outages a	uthern nd bloc	Worth ked roa	Coun ds. L	ty from ightning	Bridgeboro to Anderson City strikes damaged power stations
Randolph County Cuthbert	04	1730EST			0	0	3	?	Thunderstorm Winds Small Hail
	Seve	ral large trees	were upr	ooted in a	reside	ntial are	ea.		
Colquitt County Doerun Funston	04	1750EST			0	0	3	?	Thunderstorm Winds
	Over blow	western Colo n down block	quitt Cour ing roads	ity, mainly and dama	y from ging u	Doerur	to Fines. L	unston, 1 ightning	numerous trees and limbs were also damaged a few trees.
Dougherty County Albany Putney Putney	04 04 04	1800EST 1800EST Evening			0 0 0	0 0 0	3 3 2	? ? ?	Thunderstorm Winds Thunderstorm Winds Lightning
•	lines	itney and Alba . Additional oved several sh	outages d	2,500 custo leveloped	omers h due to	ad pow lightnii	er outang. L	ages after aghtning	r trees and limbs fell onto utility struck a house in Putney and
Monroe County	04	1800EST			0	0	3	?	Thunderstorm Winds
Dill Court	Stroi	ng winds upro	oted many	y trees and	l cause	d power	r outag	ges.	
Bibb County Macon	04	1801EST			0	0	2	?	Thunderstorm Winds
	Two	large trees we	ere blown	down acr	oss an	intersec	tion is	n Macon	
Jasper County 1 W Monticello Jones County	04	1802EST			0	0	?	?	Hail (0.75)
Western Portion	04	1810EST		•	0	0	3	?	Thunderstorm Winds
	Upro	ooted trees fell	onto util	ity lines ir	ı weste	rn Jone	s Cou	nty resul	ting in power outages.
Pike County Hollonville	04	1840EST			0	0	3	?	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated image ty Crops	Character of Storm
GEORGIA Cont'd									
Hollonville	04	1840EST			0	0	3	. ? .	Lightning
		tered trees and by a lightning		nes were	downed	by thu	ndersto	orm win	ds. At least one house was set
Randolph County Countywide Cuthbert	04 04	Evening Evening			0	0	3 2	?	Thunderstorm Winds Lightning
	Scatt were	tered trees wer torn down. A	e uproote A police c	d over Ra ommunica	ındolph ition sy	County stem an	. A fe tenna s	ew powe	er outages developed after lines I lightning damage in Cuthbert.
Colquitt County Berlin Southern Portion	04 04	1850EST 1900EST			0	0	3 3	?	Thunderstorm Winds Thunderstorm Winds
	Over and	r southern Colo limbs were do	uitt Coun wned blo	ity, mainly	y around is and o	d Berlin downing	and G g utilit	eorgia H y lines.	lighway 33, scattered large trees
Seminole County Donaldsonville Donaldsonville Donaldsonville 2 SE Donaldsonville	04 04 04	1900EST 1915EST 1925EST			0 0 0	0 0 0	4 ? 4	?	Lightning Hail (1.75) Thunderstorm Winds
Countywide	equi Win	pment were da	maged in es, and li	some hon mbs dam	nes. Nu	imerous	trees	were up	s. Appliances and audiovisual rooted across Seminole County. ses, vehicles, and utility lines.
Pierce County Blackshear Countywide	04 04	2000EST 2000EST			0	0	4 3	?	Thunderstorm Winds Thunderstorm Winds
Countywide	04 04	2000EST 2000EST			0	2 0	5 3	?	Thunderstorm Winds Thunderstorm Winds
Ware County Waycross Countywide	04 04	2000EST 2000EST			0	0	4 3	?	Thunderstorm Winds Thunderstorm Winds
a 1	and outa strik Blac one	roads were bl ges developed es. About 6 kshear were da was turned ove	ocked in over the ,500 cust maged du or onto a cured. Up	Waycros three-cou tomers waring the s ar. The horooted tree	s, Almanty are ere with torm. It is to me water and	a, Black a after thout po At Alma as comp limbs d	kshear, utility ower in stron letely amage	and in lines we may be wished a winds demolished a severa	on, and Ware Counties. Streets rural areas. Scattered power ere torn down due to lightning cross alone. Traffic lights at soverturned two mobile homes; hed and the occupants, a mother I houses and other properties in
Madison County 3 ENE Hull	13	Afternoon		•	0	0	4	?	Lightning
	A va	ın was set afire	e by light	ning on C	Georgia	Highwa	ay 72 1	between	Colbert and Hull.
Cobb County 6 NE Marietta Northeastern Portion	14 14	0750EST 0755EST	:		0	0	?	?	Hail (1.00) Thunderstorm Winds Small Hail

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	ımber of ersons d Injured	I	stimated Damage erty Crops	Character of Storm
GEORGIA Cont'd									
	Hail trees	developed ov and limbs w	er eastern ere down	Cobb Co	unty bortheas	etween M tern Col	Mariet	ta and Rounty.	oswell in Fulton County. Small
Cherokee County Woodstock Woodstock	14 14	Afternoon Afternoon	* * * * * * * * * * * * * * * * * * *		0	1 0	?	?	Lightning Lightning
	A ho inju	ouse was structed by a light	k by ligh ning strik	tning in V e.	Voodst	ock. Or	the o	eastern si	de of Woodstock, a person was
Polk County Rockmart	14	1525EST			0	0	?	?	Lightning
	Ligh	ntning produce	ed scattere	ed power o	outages	s over th	e sou	thern par	t of Rockmart.
Jones County Gray Madison County	14	1605EST	v		0	0	?	?	Small Hail
Hull Hull	14 14	Afternoon Afternoon			0	0	4	?	Lightning Lightning
• •	Ligh occu	ntning started arred to a stru	several f cture in H	ires over Iull. Ano	Madis	on Cour re damaş	ity du ged a	ring the storage b	afternoon. Extensive damage uilding and a shelter.
Camden County 1 S St. Marys	17	1530EST	0.2	30	0	0	4	?	Tornado (F0)
	of S snap large dissi	t. Marys. We ped the tops of t	Thile the off numero to a moboved over	parent thu ous trees a ile home	inderst long it and ca	orm mos s path. aused co	ved c Utility onside	over the rand cable rable dar	moved across the southern side river into Florida, the tornado le lines were blown down. One nage. The tornado lifted and the Florida border. Small hail
Cherokee County Woodstock	17	1625EST			0	0	?	?	Small Hail
Douglas County Villa Rica	17	2000EST			0	0	4	?	Lightning
	Ligh struc		2 cattle,	valued at S	\$10,00	0, that v	vere s	tanding v	vithin 50 feet of a tree that was
Franklin County Lavonia	17	2120EST			0	0	5	?	Lightning
	Ligh	itning struck a	house ar	nd caused	about	\$50,000	in da	mages.	
Lincoln County 1 N Lincolnton	17	Evening		• •	0	1	5	?	Lightning
		ome, near U.S ring the reside		y 378 and	Georgi	a Highw	ay 78	, was set	afire by lightning and destroyed
De Kalb County N Atlanta	18	1715EST- 1900EST			0	0	3	?	Flash Flood
Fulton County Atlanta Hapeville	18	1900EST- 2030EST			0	0	6	?	Flash Flood

June 1991

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

GEORGIA Cont'd

Colleg	e Park
Fairbu	m
Cost D	mint

Heavy rainfall developed over northern De Kalb and Fulton Counties. The storms moved into downtown and southern Fulton County by 1845 EST. Two to three inches of rain fell over the two-county area, mainly in Atlanta, Hapeville, Fairburn, East Point, and College Park. Widespread street flooding developed. As a result of the heavy rainfall in Atlanta, Peachtree Creek rose more than 10 feet in 1 hour. The creek rose from 15.6 feet at 1845 EST, to a crest near 18 feet by 2000 EST. The flood stage is 17 feet. Minor flooding developed in the yards of homes along the creek and over a golf course. In downtown Atlanta, a luxury apartment complex and a housing project flooded. In southern Fulton County, extensive flooding developed along the Flint River from East Point into Hapeville. Several businesses, municipal buildings, homes, and vehicles sustained damages estimated at over \$1.5 million. In College Park, all lanes of Interstate 84 were briefly closed.

	clos	ages estimated at over \$1.5 milli ed.	on. I	n Colle	ge Park	c, all la	nes of Interstate 84 were briefly					
Fayette County 2 W Fayetteville Inman 1 S Inman	19 19 19	1900EST 1920EST 1940EST	0 0 0	0 0 0	2 3 4	??	Thunderstorm Winds Lightning Lightning					
	One large tree was uprooted by winds just west of Fayetteville. At 1920 EST, lightning set a hour after and caused minimal damage. Lightning caused considerable damage at 1940 EST to a bar just outside of Inman near Georgia Highway 92.											
De Kalb County Lithonia	21	1650EST	0	0	3	?	Thunderstorm Winds					
	A few trees were uprooted and fell onto power lines.											
Stone Mountain	22	Evening	0	. 0	?	?	Lightning					
Fulton County Atlanta	22	Evening	0	0	?	?	Lightning					
	Abo	ut 5,000 homes were left withou	t utilit	y servic	es.							
Bibb County Lizella Lizella	23 23	1700EST 1700EST	0	1 0	?	?	Lightning Thunderstorm Winds					
		nan was injured by lightning as hocked down during the storm.	e open	ed a me	etal fen	ice. Se	veral trees and power lines were					
Fayette County Fayetteville Chatham County	23	Afternoon	0	0	?	?	Small Hail					
Savannah	29	0930EST- 1200EST	0	0	?	?	Flash Flood					

Serious street flooding developed and hampered traffic over Savannah. A few cars were damaged in the flooding.

IDAHO

Kootenai County Hayden

01-30 0 0 ? Unusually Cool

This is the only June in this century that 80°F was not recorded.

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated image ity Crops	Character of Storm		
IDAHO Cont'd								-			
Southern Idaho	01- 30				0	0	0	?	Drought		
	Seve	ere to extreme	drought	continued	through	out sou	thern	Idaho.			
Latah County 1 SE Genesee	01	1500PST	0.1	20	0	0	0	0	Tornado (F0)		
	An Idaho State Highway Patrolman observed a tornado.										
Jefferson County Ririe	04	1800MST	0.2	30	0	0	4	0	Tornado (F1)		
	A \$10,000 metal shed was blown apart and a large tree fell on a car. Several persons reporte seeing a funnel cloud.										
Bonneville County Idaho Falls	04	2020MST			0	0	4	0	Lightning		
	Lightning set fire to a barn east of Idaho Falls.										
Ammon	04	2100MST			0	0	4	0 .	Urban Flash Flood		
	Idaho Falls measured 1.19 inches of rain.										
Butte County 20 SW Arco	06	1800MST	,	٠.	0	0	0	0	Hail (1.00)		
Latah County 5 W Genesee	07	1120PST			0	0	0	0	Funnel Cloud		
Nez Perce County Lewiston	11	0300PST			0	0	3	0	Urban Flood		
	Up (to 18 inches o	of water a	ccumulate	d on so	me road	ways.	Lightn	ing caused power outages.		
Cassia County Oakley	19	1330MST			0	0	0	0	Thunderstorm Winds (G62)		
Gem County Emmett	19	1830MST	0.1	20	0	0	3	0 .	Tornado (F1)		
	and	tornado was d the little barr e trees.	lescribed a 1" and wa	s "a terrib s accompa	le whirl mied by	wind-ty a lou	pe thir d, roa	ng that w ring noi	histled down between the house se" that uprooted and scattered		
Nez Perce County 3 SE Lewiston	19	2020PST			0	0	0	4	Hail (?)		
Clearwater County 1 E Cavendish	19	2330PST			0	0	0	5	Hail (1.00)		
y.	Whe grou	eat, barley, gr and to a depth	apes, and of 1 inch	beans we	re dama	ged by	hail u	p to 1.00	0 inch in diameter covering the		
Clearwater County	20	0000PST			0	0	4	3	Flash Flood		
Latah County Benewah County	20 20	0000PST 0030PST			0	0	4 3	3	Flash Flood Flash Flood		
Shoshone County	20	0030PST	wachoe#	noncad	0 vior mu	U A sliden))	3 veched 1	Flash Flood		

A 2-hour "gully washer" caused major mud slides and washed large boulders onto roads. In Shoshone County, pollutants from the Silver Mountain Ski Area were washed into the Wardner water supply necessitating that the water be boiled for drinking and cooking.

	Time Path Path Local/ Length Width				imber of .		timated		
Location	Date		(Miles)	(Yards)					Character of Storm
IDAHO Cont'd									
Kotenai County Coeur d'Alene	25	1700PST			0	0	3	0	Urban Flood
	Hay	e streets were den received 2. 2 mph.	partially 08 inches	closed du of rain be	e to (tween).75 inch 1555 PS	of r Tand	ain fallin 1642 PS	g in a 34-minute time period. T. Thunderstorm winds gusted
Twin Falls County Hagerman Buhl	26	1500MST	ie.		0	0	0	5	Hail
Dum	Mar	ble-size hail ac	cumulate	d 2 inches	deep	damagin	g sna	p peas, s	weet corn, and barley.
Elmore County Anderson Dam	29	1400MST			1	0,	0	0	Heavy Rain
	A fa	lling rock, dis	lodged by	heavy ra	in, str	uck and	fätally	y injured	a boat passenger. (F250)
Lemhi County Salmon	29	1422MST			0	0	4	0	Lightning
	Ligh	tning opened a	a large ho	le in the	edar s	shingled	roof o	of a two-	story log home.
Ada County	29	1645MST- 2030MST			0	0	4	0	Urban Flash Flood
	Two to kr in K	nee deep in son	rs each du ne Meridi	mped arou an streets.	und 1. Pea-	00 inch o size hail	of rain cover	in less the	nan 1 hour. Water accumulated cound to a depth of 2.00 inches
ILLINOIS	· .								
White County Carmi	01	1630CST			0	0	3	0	Thunderstorm Winds
	Thur	nderstorm wind	is caused	damage to	trees	and pov	ver lir	nes.	
Saline County Near Galatia	01	1725CST			0	0	0	. 2	Thunderstorm Winds
	Two	large trees we	re downe	d northwe	st of	Galatia.			
McHenry County	. ,	45.40.00	, , , ,		_		_		
Harvard	01	1740CST			0	8	0	0	Lightning
χ'	"Har	t people were vard Milk Day ies ranged from	ys." All	were take	n to l	ocal hosp	enter pitals,	tainment where t	tent at the fairgrounds during hey were treated and released.
Saline County	01	1840CST			0 -	O .	0	0	Thunderstorm Winds
	Thur	nderstorm wind	ls downed	l trees in	northv	vestern S	aline	County.	
Woodford County Eureka	13	1920CST			0	0	3	?	Hail (1.75)
	Golf	ball-size hail	was repor	ted in Eur	eka.	A police	car v	vas dama	ged by falling tree limbs.
Benson	13	1937CST	* 4		0	0	3	0	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	Estimated Damage Property Crops		Character of Storm
ILLINOIS Cont'd									•
	Thur	nderstorm wi	nds downe	ed trees an	d utili	ty poles.			
Marshall County Toluca	13	1947CST			0	0	3	0	Thunderstorm Winds
Wenona	Thur	nderstorm wi	nds caused	scattered	damag	e to trees	and p	ower line	es between Toluca and Wenona.
Fulton County Canton Grundy County	15	1425CST			0	0	0	0	Thunderstorm Winds (G52)
Gardner Gardner	15	1426CST			0	0	5	0	Thunderstorm Winds
	unan dama	chored mobi	le home, a es were si	ı barn, and ırrounded	d shed	s. No tw	isting/	z action v	orted damages of \$53,500 to an was observed in the debris, and not damaged. All debris was
Fulton County Cuba	15	1444CST			0	0	0	0	Thunderstorm Winds
	Thur	nderstorm wi	nds downe	ed trees in	Cuba				
Tazewell County Sunnyland Near Morton	15 15	1445CST 1446CST			0	0	?	?	Hail (1.75) Thunderstorm Winds (G55)
Pekin	15	1520CST			0	0	3	0	Thunderstorm Winds `
	Thur	nderstorm wi	nds downe	ed power l	ines.				
Macon County Macon	15	1650CST			0	2	0	0	Lightning
		boys, ages 1 from them.		suffered r	ninor i	injuries w	hen l	ightning	struck the ground about 15 feet
Madison County 3 E Edwardsville	15	1840CST			0	0	0	2	Thunderstorm Winds
	Larg	e trees were	downed.						
Jersey County Grafton	15	1840CST			0	0	3	2	Thunderstorm Winds
	Larg	e trees and p	ower lines	s were dov	vned i	n Graftor	1.		
Fieldon Madison County	15	1859CST			0	0	?	?	Hail (1.75)
Carpenter -	15	1900CST			0	0	3	?	Hail (1.75) Thunderstorm Winds
	Golf	ball-size ha	l was repo	orted in Ca	arpente	er. Powe	r line	s were de	owned by thunderstorm winds.
Hamel	· 15	1937CST			0	0	0	. 2	Thunderstorm Winds
	Larg	e trees were	downed by	y thunders	storm '	winds in	Hame	el.	
Granite City	15	1940CST			0	0	0	2	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dar	nated nage y Crops	Character of Storm		
ILLINOIS Cont'd											
	Larg	e trees were d	lowned in	Granite C	ity by	thunder	rstorm	winds.			
Maryville	15	1942CST			0	0	3	0	Thunderstorm Winds		
•	Pow	Power lines were downed by thunderstorm winds in Maryville.									
Bond County Pocahontas	15	1955CST			0	0	0	2	Thunderstorm Winds		
	Larg	e trees were d	owned in	Pocahonta	as by thunderstorm wind						
Monroe County	15	2002CST			0	0	3	2	Thunderstorm Winds		
•	Pow	er lines and tr	ees were	damaged b	y thun	derstori	n wind	s at Co	lumbia and Waterloo.		
St. Clair County Millstadt	15	2030CST			0	0	0	2	Thunderstorm Winds		
		nderstorm win eville.	ds down	ed numero	ous po	wer lin	es and	trees	in Washington Park and near		
Randolph County	DOIN	VIIIO.									
Steelville	15	2040CST			0	0	0	2	Thunderstorm Winds		
	Thunderstorm winds downed large trees in Steelville.										
Washington County Okawville	15	2115CST			0	0	3	0	Thunderstorm Winds		
	Pow	er lines were o	downed by	y thunders	torm w	inds in	Okawy	ille.			
White County Enfield	15	2220CST	•	٠	0	0	2	0 .	Thunderstorm Winds		
	Thur	iderstorm win	ds downed	i large tre	e limbs	in Enf	ield.				
15 SW Carmi	. 15	2235CST			0	0	2	0	Thunderstorm Winds		
	Thur	derstorm win	ds uproote	ed trees so	uthwes	t of Ca	rmi.				
Wayne County 5 SE Barnhill 0.5 N Burnt	15 15	2245CST 2250CST			0	0	3 2	0	Thunderstorm Winds Thunderstorm Winds		
Prairie	Thur north	derstorm wind of Burnt Pra	ds damage irie.	ed a storag	ge build	ding sou	utheast	of Barr	ahill, and uprooted a large tree		
0.5 N Burnt	15	2350CST	:		0	0	0	2	Thunderstorm Winds		
Prairie	Thunderstorm winds uprooted a large tree 0.5 mile north of Burnt Prairie.										
Hamilton County 1 S McLeansboro	16	2215CST		·	0	0	0	2	Thunderstorm Winds		
	Thun	derstorm wind	ds downed	l trees sou	th of M	AcLean:	sboro.				
St. Clair County Belleville	21	1700CST			0	0	4	0	Flash Flood		

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of ersons i Injured	D	imated amage rty Crops	Character of Storm			
ILLINOIS Cont'd												
	cour	understorm s ble of hours, to ble using boat	llooding o	ccurred in	roadw	ausing h ays and	eavy r draina	rain and orgen areas	downing small trees. Within a . Newspaper clippings showed			
Mercer County New Boston	21	2000CST			0	0	0	0	Thunderstorm Winds (G50)			
Morgan County Jacksonville	22	0630CST			0	0	4	0	Thunderstorm Winds			
	An early morning thunderstorm caused heavy damage to the roof and carport of a home. Flying debris caused minor damage to other nearby homes and structures.											
INDIANA				,′								
Gibson County Mackey	01	15151EST			0	0	4	0	Thunderstorm Winds			
	Tree	es and power	lines were	downed,	and a	barn des	troyed	l.				
Ripley County Milan	01	1820EST			0	0	0	0	Thunderstorm Winds			
	Tree	es were down	ed by thu	nderstorm	winds.							
Versailles	01	1842CST			0	0	3	0	Thunderstorm Winds			
	Pow	er lines were	downed b	y thunder	storm	winds.						
Switzerland County Pleasant Bennington	01	1915EST			0	0	0	. 0	Thunderstorm Winds			
**************************************	Tree	es were down	ed by thu	nderstorm	winds.							
Ripley County	01 01 02	1940EST 2337EST 0040EST			0 0 0	0 0 0	3 0 0	0 0 ?	Thunderstorm Winds Thunderstorm Winds Flash Flood			
	limb unde	s were downe	ed in the value of	vestern par ater. Nun	t of th nerous	e county roads w	. At C	040 EST	EST. At 2337 EST, trees and U.S. Route 50 in Holton was he western part of the county.			
Wayne County	02	1520EST			0	0	3	0	Thunderstorm Winds			
	Tree	es and power	lines were	e downed i	in the	southern	part o	of Wayne	County.			
Dearborn County Lawrenceburg	02	1556EST			0	0	4	0	Thunderstorm Winds			
	Thunderstorm winds downed numerous trees, two large signs, and damaged the roof and wall of a home.											
Hancock County Greenfield	02	2027EST			0	0	0	0	Thunderstorm Winds			
	Tree	es were down	ed in the	northeaster	n sect	ion of G	reenfi	eld.				

0

0

3

0

Thunderstorm Winds

Countywide

02 2040EST

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons	D٤	imated image	Character of Storm				
Excation	Date	Standard	(MINOS)	(Talus)	Milea	Hijured	Troper	ty Clops	Character of Storm				
INDIANA Cont'd													
Rush County	02	2040EST		•	0	0	.3	0	Thunderstorm Winds				
		Numerous 24-inch-diameter trees were downed in southeastern Hancock and northwestern R Counties. Some power lines were also downed.											
Monroe County Bloomington	02	2100EST			0	0	0	0	Thunderstorm Winds (G70)				
	Trees were downed on the western side of Bloomington, and 80-mph winds were measured Monroe County Airport.												
Lawrence County	02	2115EST		:	0	0	0	0	Thunderstorm Winds				
	Tree	s were downer	d by thun	derstorm	winds.								
Clark County Otisco	02	2340EST			0	2	4	0	Thunderstorm Winds				
	Two wind	men were sli ls. In addition	ghtly inju i, several	red when large tree	their is	mobile e area w	home ere up	was des	troyed by strong thunderstorm				
Gibson and Pike Counties	03 04	2107EST- 0015EST			0	0	0	?	Flash Flood				
	Thunderstorm rains flooded numerous city streets in Oakland City. Indiana State Highway 64 was flooded with 1.5 to 2 feet of water at the bornder of Pike and Gibson Counties.												
Perry County	14	1900EST- 1930EST	•		0	0	0	?	Flash Flood				
. •	India	ına State High	way 145 [,]	was flood	ed nort	heast of	Tell (City.					
Troy to	14	1930EST			0	0	1	0	Thunderstorm Winds				
Tell City	Larg	e limbs were	downed b	etween Tr	oy and	Tell Ci	ty.						
Lake County Brunswick Cedar Lake	15	1545EST			0	0	5	?	Thunderstorm Winds				
COM LARC		s were downed w building col							d. In Cedar Lake, the walls of				
Marshall County 7 W Plymouth	15	1645EST			0	0	0	0	Hail (0.75)				
Teegarden Plymouth Bourbon Bourbon	15 15 15	1648EST 1650EST 1650EST			0	0 0 0	? 4 5	0 0	Thunderstorm Winds Thunderstorm Winds Lightning				
	Seve: Bour	ral large trees	company	storage bu	lymoutl iilding	h and B was hit	ourbor	n, and se	everal homes were damaged in and the subsequent fire caused				
Koscuisko County 1 W Warsaw	15	1655EST	Short	10	0	0	0	?	Tornado (F0)				
	Wars	saw police offi saw near the R ructures were	.R. Donne	elly and So	ef torna ons bus	iness.	hdowr The tor	on Old nado lift	U.S. 30 West, 1 mile west of ted back up into the clouds, and				

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	Number of Persons Killed Injured		imated amage rty Crops	Character of Storm			
			<u>(0.2225)</u>	(,)		2.90.00	1.оро	., 0.15p.				
INDIANA Cont'd												
Warsaw	15	1705EST			0	3	5	0	Thunderstorm Winds			
	Falli falli	Falling trees and branches caused damage to 6 or 12 homes. Three people were injured due to falling on an automobile and houses. Most of the city was without power.										
Fulton County	15	1745EST			0	0	0	0	Thunderstorm Winds			
		Numerous 10- to 18-inch-diameter trees were downed over scattered areas of the county, and 0. inch-diameter hail occurred in Rochester.										
Koscuisko County Silver Lake Burket	15	1800EST			0	0	0	0	Thunderstorm Winds			
Durkot	Seve	eral trees were	downed	by thunde	rstorm	winds.						
Whitley County 13 SE Columbia City	15	1800EST	Short	10- 20	0	0	0	?	Tornado (F0)			
	A to	A tornado touched down briefly in a field. There was some minor crop damage.										
Cass County	15	1804EST			0	0	3	0	Thunderstorm Winds			
	Utility poles and lines were downed.											
Allen County Fort Wayne	15	1810EST			0	1	3	0 .	Thunderstorm Winds			
	inju	orch enclosure ries at the same lameter were a	e location	when hit	by flyin	g debris	s. An	umber o	ne. A woman sustained minor f limbs measuring 4 to 5 inches			
10 NW Fort Wayne	15	1820EST			0	0	3	0	Thunderstorm Winds			
	A m	etal roof was	blown of	f a barn.								
Fort Wayne	15	1830EST			0	0	3	0	Thunderstorm Winds			
•	An a	utomobile and	d a truck	were dam	aged by	falling	trees	in centra	ıl Fort Wayne.			
Carroll County												
Flora	15	1905EST	•		0	0	3	0	Thunderstorm Winds			
	Line	s were downe	d near Fl	ora by thu	ındersto	rm win	ds.					
Miami County Grissom Air Force Base	15	1948EST			0	0	0	0	Thunderstorm Winds (G60)			
Howard County Kokomo	15	2000EST			0	0	4	0	Thunderstorm Winds			
	Trees were downed, and a mobile home roof was blown off.											
Wayne County Richmond	22	1500EST			0	0	3	0	Thunderstorm Winds			
	Tree	s were uproot	ed and po	wer lines	were de	owned.						

		Time Local/	Path Length	Path Width	Per	nber of	Da	imated mage			
Location	Date .	Standard	(Miles)	(Yards)	Killed	Injured	Proper	ty Crops	Character of Storm		
INDIANA Cont'd											
Vigo County	22	1505EST			0	0	0	?	Flash Flood		
	Seve	ral roads were	flooded	when 3.50	inches	of rair	ı fell i	n 1 hou	.		
Bartholomew County Jonesville	25	1901EST			0	0	4	0	Lightning		
	Lightning struck an antenna tower, and started a fire in the attic of a house. There was damage the attic and a bedroom.										
Noble County Wolcottville	30	1525EST			0	0	4	0	Thunderstorm Winds		
	Num	erous trees and	d lines we	ere blown	down a	around	Wolco	ttville.			
Hancock County 3 NW Greenfield	30	1905EST			0	0	3	0	Thunderstorm Winds		
Greenfield	Trees	s were downed	l, and the	re was son	ne min	or roof	damag	ge.			
IOWA							•				
Butler County New Hartford	01	0030CST			0	0	3	0	Lightning		
	lighti	derstorms mor ning struck a l age or injuries.	house in 1	s northeast New Hartf	ern Iord tha	wa. In at result	addition ted in	on to the a minor	e heavy rains and gusty winds, fire, but there was no serious		
Plymouth County	01	0100CST- 0500CST			0.	0	5	4	Flash Flood		
	fell 1 High	rred in Plymou near Brunsvill	ith Count e. Exter osed at B	y, with 2.0 nsive floor	00 inch ding o	ies or g ccurred	reater , with	amounts several	and midnight. Intense rainfall common. Nearly 6.00 inches county bridges washed out. closed by high water between		
Jasper County Prairie City	01	1035CST	•		0	0	4	4	Hail (1.75)		
Iowa County Victor	01	1305CST			0	0	4	4	Hail (1.75)		
	rain a	all cluster of the and small hail. aer from Iowa	There v	rms forme vere a few	d over report	central s of go	Iowa. lf ball-	The ma size hai	in feature with them was heavy l; one from Jasper County and		
Pottawattamie County Council Bluffs	01	1452CST			0	0	0 .	0	Funnel Cloud		
Mills County 5 SE Pacific	01	1520CST			0	0	0	0	Funnel Cloud		
Junction Glenwood Dallas and Polk	01	1530CST		,	0	0	3	4	Hail (1.00)		
Counties Near Grimes	01	1602CST			0	0	0	0	Funnel Cloud		
Polk County Sheldahl	01	1622CST		·	0	0	0	0	Funnel Cloud		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of	D	imated amage	Character of Storm
Lacation	Date	Stationard	(Ivilies)	(Talus)	Killed	Hjured	Proper	ity Ctops	Character of Storm
IOWA Cont'd									
Audubon County	01	1500CST- 1830CST			0	0	4	4	Flash Flood
Guthrie County	01	1500CST- 1830CST			0	0	4	4	Flash Flood
Dallas County	01	1530CST-			0	0	4	_	Flash Flood
Cass County	01	1845CST 1530CST-			_	_		4	
Polk County		1845CST			0	0	4	4	Flash Flood
Des Moines	01	1700CST			0	0	4	2	Urban Flood
	on the storm of G flood were satur	ds. One funne Dallas/Polkens produced plenwood, in I ling occurred generally in tated at that the ty, by high wunder 1.00 income.	el cloud of County life ea- to ma wills Couring several the 1.50-to ime from vater. Ur	ccurred so ine near G rble-size h nty. Heav central and to 2.50-ind previous ban floodi	utheast rimes, ail and yy rainf d west- ch range rainfal ing occi	of Oma and ano gusty v fall was central l e. Floo l. Hig urred in	the and ther in winds. the de lowa c ding v hway the I	d in Country Polk Co One-in Ominant ounties. vas quite 141 was Poir Poly Poly Poly Poly Poly Poly Poly Poly	st with several reports of funnel neil Bluffs, three were reported ounty at Sheldahl. Many of the ch-diameter hail pelted the city feature with the storms. Flash Rainfall amounts in these areas extensive as soils were already s closed near Perry, in Dallas nes metropolitan area. Rainfall ours after the last heavy rainfall
NEZ010-IAZ009-012 Western-Central and Southwestern Iowa	02 04	0600CST- 1800CST			0	0	6	5	Flood
JOSEPH SONO	Seven June spilly secon form amon	ral rivers carri , resulted in a way at Saylor nd time in his of federal dis	ed over freeservoirs ville Lake tory. By aster declar 0.75 and	om May i being nead from Junthe end of aration. To 1.50 in	nto Jun rly full le 6th to f June, he first ches w	ne. Hea to ove hrough all but major r	vy spr rflowi 16th, five or ainfall despre	ing rain, ng. Wa the first f Iowa's l of the n ad. Th	irst half of June. Flooding on in addition to heavy rainfall in ter flowed over the emergency time since 1984, and only the 99 counties had received some nonth occurred on the 1st, when his caused flooding along the
Osceola County 5 W May City	02	1625CST	0.1	15	0	0	2	2	Tomado (F0)
	toucl	solated thunde hed down wes n open field.	erstorm de t of May	eveloped o City. No	over nor signific	rthweste cant dan	ern Iov nage o	wa. It p	roduced a mini tornado, which since the tornado touched down
Monona County	03	1400CST- 1700CST			0	0	5	3	Urban Flood
Hamilton County	03	1600CST- 1800CST			0	0	5	4	Urban Flood
Story County	03	1600CST- 1800CST			0.	0	5	4	Urban Flood
Hardin County	03	1700CST- 1800CST			0	0	4	4	Urban Flood
Buena Vista County Newell	03	1825CST			0	0	4	2	Thunderstorm Winds (G50+)
Carroll County 2 W Halbur	03	1830CST			0	0	4	3	Thunderstorm Winds (G50+)
Dickinson County	03 04	1900CST- 0100CST			0	0	5	4	Urban Flood
Clay County	03 04	1900CST- 0100CST			0	0	5	4	Urban Flood
	VT.	2100021			v	v	,	•	Order I IOO

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of sons Injured	Estim Dam Property	age	Character of Storm
IOWA Cont'd									
Buena Visa County	03	1900CST-							
	04	0100CST			0	0	5	4	Urban Flood
Sac County	03	1900CST-			_	_	_	_	
D 1 414 G	04	0100CST			0	0	5	4	Urban Flood
Palo Alto County	03	1930CST-			0	0	5		Urban Flood
Pocahontas County	04 03	0100CST 1930CST-			U	U	3	4	Ordan Piood
rocanonias County	03	0100CST			0	0	5	4	Urban Flood
Calhoun County	03	1930CST-			U	U	,	•	Citali Picca
canoan county	04	0100CST			0	0	5	4	Urban Flood
Kossuth County	03	1930CST-			•	•	•	•	0104111005
	04	0200CST			0	0	5	4	Urban Flood
Humboldt County	03	1930CST-							
-	04	0200CST	•		0	0	5	4	Urban Flood
Emmet County	03	1930CST-							
		2300CST			0	0	5	5	Flash Flood
Story County	03	2000CST-				•	_	_	
W: 14 G	04	0200CST			0	0	6	5	Flash Flood
Wright County	03	2300CST- 0200CST			0	0	5	4	Urban Flood
Marshall County	04 03	2300CST-			U	U	3	4	Uroan riood
Marshall County	03 04	0200CST			0	1	5	4	Urban Flood
Carroll County	04	0000CST-			v	1	3	7	Oroan Plood
Carlon County	04	0530CST			0	0	6	5	Flash Flood
Webster County	04	0245CST-			•	•	•	- .	1 11000
,		0700CST			0	0	6	5	Flash Flood
Polk County	04	0300CST-							
•		0500CST			0	0	4	2	Urban Flood

A quasi-stationary front extended from in a northwest/southeast orientation across Iowa. Thunderstorms developed in the vicinity of the front. In the upper atmosphere, high pressure had built over Iowa, resulting in slow steering winds. There was only one report of severe weather. Two thunderstorms merged over Carroll County. This produced high winds near Halbur, completely flattening a 3-year-old barn there. The situation turned into a major flood event. Heavy rains fell across parts of northwestern, north-central, central, and into southern-central lowa. Rainfall amounts were generally between 1.50 and 2.00 inches in the area, with 3.00- to 6.00-inch amounts common. Most of the rain fell in the Des Moines, Raccoon, and Skunk River Basins. Many counties had urban and small stream flooding. In many cases, the rains fell in a very short time. It was common for 2.00- to 2.50-inch amounts to fall in an hour. Streets and basements were flooded in many cities. In rural areas, ditches and small streams overflowed, and some county bridges were washed out. Thunderstorms dropped 2.00 to 5.00 inches of rain in a small part of Monona County during a 2.5-hour time period. A car was swept off of the roadway just south of Whiting. The town was flooded so bad that boats were the only mode of transportation by the time the rain ended. Several counties reported flash flooding. In Emmet County, 3.00 to 5.00 inches of rain fell with some spots reporting between 5.00 and 7.00 inches. This caused considerable flooding and road closures. Estherville received 3.75 inches of rain in a 45-minute time span. Rainfall amounts in Kossuth County were in the 2.50- to over 6.00-inch range. In Story County, 2.00 to 5.00 inches of rain fall, with yet another report from 4 miles north of Nevada where unofficially, up to 8.00 inches of rain fell. Another report from 4 miles north of Nevada indicated 9.80 inches of rainfall, with yet another report of 8.00 inches of McCallsburg. Flooding spread from Story County, into Marshall County. One woman wa

June 1991

•									Julio 1771
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	D	timated amage rty Crops	Character of Storm
IOWA Cont'd									
IAZ001-006-007-009- 010-012	04 11	0000CST- 1800CST			0	0	6	5	Flood
	in a in th Uno in a rain rang	weak winds a ne upper Sku fficial reports near record c set on June 1.7 e. On the ni	aloft envirule and we sof up to rest at Ma 2, 1966. I ght of the	onment. Vestern Io 10.00 incorshalltow. Rainfall ar 4th and 5	Storms wa Riv hes of n on th nounts oth, 1.0	s were no ver basin rain were ne 5th. To over the 00 to 2.0	early starts, as reception to the US rest of the US	tationary well as ived fro SGS mea f the stat nes of ra	th, when thunderstorms formed 7. Over 4.00 inches of rain fell the upper Des Moines basin. m Story County. This resulted asured a new record of 16.41 of the were in the 1.00- to 2.00-inch in fell over western Iowa, with a Nishnabotna Basin.
Polk County	10	1530CST-				•	_		77 1 7W 1
Dallas County	10	1900CST 1600CST- 1900CST			0	0	5	3 4	Flash Flood Flash Flood
	wher itself	n 1.50 inches	of rain fe County, 4.	ell in 1 to 50 inches	2 hour	rs. The n fell in l	creek Dallas	did not i Center i	to extreme western Polk County flood in the city of Des Moines in just over an hour. Soils were ling.
Tama County 4 N Traer	10	1640CST	0.2	15	0	0	3	2	Tornado (F0)
	Thur toucl	nderstorms ro hed down bri	lled acros	s Tama Co ural area	ounty. north	One cell of Traer	l devel and ca	oped a s	mall tornado north of Traer that tle damage.
Washington County Riverside	13	1617CST			1	0	0	0	Lightning
		nderstorms de ning and kill				hington (County	y. A coi	nstruction worker was struck by
Cedar County 4 SW Stanwood 2 SW Stanwood Stanwood	13 13 13	1730CST 1735CST 1745CST			0 0 0	0 0 0	4 2 4	2 2 2	Thunderstorm Winds (G50+) Thunderstorm Winds (G50+) Thunderstorm Winds (G50+)
	deve stror path	lopment occur ig thunderstor of damage fr	rred in earm either of om 4 mile	stern Iow created a ses southwe	a arour small g est of S	nd 1445 ust front Stanwood	CST a or pro I to the	nd move sduced a e city of	derstorms developed. The first ed northeast around 20 mph. A microburst that caused a 4-mile Stanwood. Several barns were in the city of Stanwood.
Cass County	14	0100CST-			0	0	6	5	Flash Flood
Audubon County	14	0700CST 0100CST- 0700CST			0	0	6	5	Flash Flood
Madison County	14	0100CST- 0700CST			0	0	5	-5	Urban Flood
Greene County	14	0100CST- 0700CST			0	0	5	5	Urban Flood
Dallas County	14	0100CST- 0700CST			0	0	5	5	Urban Flood
Guthrie County	14	0100CST- 0700CST			0	0	5	5	Urban Flood
		3.55001			-	-	-	-	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Ι	stimated Damage erty Crops	Character of Storm
IOWA Cont'd									
Adams County	14	0100CST- 0700CST			0	0	5	5	Urban Flood
Adair County	14	0100CST- 0700CST			0	0	5	5	Urban Flood
Carroll County	14	0200CST-			_				Urban Flood
Boone County	14	0700CST 0200CST-			0	0	5	4	
Story County	14	0700CST 0200CST-			0	0	5	4	Urban Flood
Polk County	14	0700CST 0200CST-			0	0	5	4	Urban Flood
Warren County	14	0700CST 0200CST-			0	0	5	4	Urban Flood
-		0700CST			0	0	5	4	Urban Flood
Jasper County	14	0200CST- 0700CST			0	0	5	4	Urban Flood
Marion County	14	0200CST- 0700CST	•		0	0	5	4	Urban Flood
Marshall County	14	0200CST- 0700CST			0	0	5	4	Urban Flood
Adair County	14	0200CST- 0700CST			0	0	5	4	Urban Flood
	in the over over west unof rainf	e 2.00- to 4.0 the central commany county central Iowa ficial report of fall in 2 hours Cass County	0-inch ran ounties. Use roads and Three to of 7.00 inc Water v	ge over the brban flood highways o five inch ches near A vas reporte	wester ling wa The les of r Atlantic d over	n-centra s comm worst fl ain wer . The c the roac	al cou on ov oodin e con city o	inties, and yer many ig was in amon ove of Atlantic on U.S.	e most part, rainfall totals were in the 1.00- to 3.00-inch range counties, with water reportedly Cass and Audubon Counties of these two counties, with one c itself recorded 6.87 inches of Highway 6, and Iowa Highway tlantic, washing one car off the
IAZ002-005-006-009- 010-012-NEZ010	14 19	0300CST- 0600CST			0	0	6	6	Flood
Western Two-Thirds of Iowa	inch Nish hour	es of rain fa inabotna Rive is near Atlanti	lling acro r Basin, re ic. as it wa	ss much o sulting in a as overtop	of the s another oed by	state. round of high wa	Three of floo iter.	to five oding. In Flooding	3th and 14th with 0.50 to 1.50 inches fell over much of the terstate 80 was closed for a few was extensive in southwestern rosion also occurred.
Clayton County Monona Cerro Gordo County	14	1615CST			0	0	3	4	Hail (0.75)
15 S Mason City	14	1640CST			0	0	0	0	Funnel Cloud
Fayette County West Union	14	1649CST			0	0	4	4	Hail (1.75)
Clayton County Monona	14	1653CST			0	0	3	4	Hail (0.75)
Luana Countywide	14 14	1730CST 1800CST-			0	0	3	4	Hail (0.75)
Harrison County	15 14	0115CST 1800CST-			0	0	6	6	Flash Flood
Chickasaw County		2130CST			0	0	5	4	Urban Flood
Nashua Nashua	14 14	1830CST 1845CST			0	0	3	4 4	Hail (1.00) Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	. D	stimated amage erty Crops	Character of Storm
IOWA Cont'd									
Bremer County Tripoli	14	1900CST			0	0	3	4	Hail (0.75)
Harrison County Missouri Valley	14	1902CST			0	0	3	4	Hail (1.50)
Bremer County 1 S Frederika	14	1920CST			0	0	3	4	Hail (1.00)
Pottawattamie County Council Bluffs	14	1920CST- 1945CST			0	0	0	0	Funnel Cloud
Council Bluffs Montgomery County	14	1945CST 1934CST			Ö	ŏ	4	2	Thunderstorm Winds (G60)
Montgomery County 1 E Villisca Bremer County	14	1930CST			0	0	4	3	Thunderstorm Winds (G50+)
1 N Waverly Dubuque County	14	1930CST			0	0	3	4	Hail (0.75)
Dubuque Page County	14	1934CST			0	0	4	2	Thunderstorm Winds (G50+)
Shenandoah Mills County	14	1935CST			0	0	4	2	Thunderstorm Winds (G50+)
Emerson Harrison County	14	1950CST			0	0	4 .	3	Thunderstorm Winds (G57)
2 N Missouri Valley	14	1955CST	0.2	20	0	0	3	2	Tornado (F0)
Missouri Valley Logan	14 14	2000CST 2015CST			0	0 0	3 4	2 4	Thunderstorm Winds (G50+) Hail (1.75)
Modale Shelby County	14	2030CST			0	0	4	4	Hail (1.75)
Earling Cerro Gordo County	14	2000CST			0	0	4	2	Thunderstorm Winds (G50+)
Thornton Pottawattamie County	14	2010CST			0	0	3	4	Hail (0.75)
Avoca Guthrie County	14	2021CST			0	0	4	2	Thunderstorm Winds (G50+)
Panora Deleware County	14	2050CST			0	0	3	3	Thunderstorm Winds (G52)
Dundee Dundee	14 14	2055CST 2110CST			0	0	3 3	4 2	Hail (0.75) Thunderstorm Winds (G52)
Ringgold County Mt. Ayr Dallas County	14	2100CST			0	0	5	3	Thunderstorm Winds (G50+)
Van Meter Cerro Gordo County	14 14	2114CST 2130CST-			0	0	3	3	Thunderstorm Winds (G52)
Floyd County	15 14	0230CST 2130CST-			0	0	5	5	Flash Flood
Bremer County	15 14	0230CST 2130CST-			0	0	6	6	Flash Flood
Chickasaw County	15 14	0230CST 2130CST-			0	0	6	6	Flash Flood
Fayette County	15 14	0230CST 2130CST-			0	0	6	6	Flash Flood
Floyd County	15	0230CST			0	0	6	6	Flash Flood
Nora Springs Story County	14	2130CST			0	0	5	3	Thunderstorm Winds (G56)
Ames Kossuth County	14	2139CST			0	0	3	3	Thunderstorm Winds (G51)
3 W Corwith	14	2140CST			0	0	5	3	Thunderstorm Winds (G50+)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	•	nber of sons Injured	Estimated Damage Property Crop	s Character of Storm
IOWA Cont'd								•
Hancock County 2 E Corwith Britt	14 14	2145CST 2153CST			0	0	4 3 4 3	Thunderstorm Winds (G50+) Thunderstorm Winds (G50+)
Cerro Gordo County Thornton Winnebago County	14	2207CST			0	0	4 2	Thunderstorm Winds (G50+)
Forest City Ringgold County	14	2207CST			0	0	4 2	Thunderstorm Winds (G52)
Mt. Ayr Franklin County	14	2300CST			0	0	4 3	Thunderstorm Winds (G50+)
7.5 NW Ackley Bremer County	14	2315CST	0.5	40	0	0	5 3	Tornado (F1)
5 W Tripoli Tripoli	14 14	2315CST 2343CST	0.1	15	0 0	0	3 3 0 0	Tornado (F0) Funnel Cloud
Freemont County Riverton	- 15	0128CST		,	0	0	5 3	Thunderstorm Winds (G50+)
Mongomery County Villisca	15	0230CST			0	0	4 . 2	Thunderstorm Winds (G50+)
Ringgold County Mt. Ayr	15	0230CST			0	0	4 3	Thunderstorm Winds (G50+)

A very unstable air mass was over Iowa during the afternoon of the 14th, with dew point temperatures in the middle to upper 70s. There were two weather factors that came into play. The first was an old outflow boundary oriented east/west across the northern part of the state. The second was an upper air disturbance moving in from the southwest. The convection was along the old outflow boundary. It fired up over the northeastern part of Iowa, and developed back west along the boundary. As the upper air disturbance moved in from the southwest, thunderstorms developed northeastward from Kansas into southwestern Iowa. The two systems eventually formed into one large area of convection. There were numerous reports of funnel clouds from all over the northwestern half of Iowa. For the most part, these could not be confirmed, and none of them threatened to touch down. One tornado occurred in western Iowa. There was a brief touchdown in Harrison County, north of Missouri Valley. There was little damage, as the tornado touched down in a corn field. Heavy rainfall was the most significant feature during the evening, and that will be addressed later. The storms in northeastern Iowa produced considerable pea- to marble-size hail. Occasionally, 0.75- to 1.00-inch-diameter hail was reported. The town of West Union, in Fayette County, reported golf ball-size hail at the airport which was the largest hail reported in northeastern Iowa. Winds of 30 to 50 mph were common over the northeastern counties, with occasional wind gusts reaching severe criteria. Sixty-mph winds swept through the Dundee area of Deleware County, causing some damage at a stage park there. A small tornado touched down briefly west of Tripoli, in Bremer County. The damage was slight as it just touched down and then went back into the clouds. In Floyd County, 65 mph winds swept through the Nora Springs area. The storms that moved into the southwestern and west-central part of Iowa were more significant as far as severe weather was concerned. There were a few r

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

IOWA Cont'd

As the first wave of storms moved through, an airplane hangar, two ultra lights, and one single engine aircraft were destroyed. The second two waves downed trees and power lines. Heavy rains were first observed in northeastern Iowa. In northern Clayton County, an unofficial report of 5.00 inches of rain in a 2-hour period was received by late afternoon. This prompted the issuance of a flash flood warning. Radar showed an east/west line of thunderstorms "training" east across the area, and as it turned out, the report of the heavy rainfall was valid. In Clayton County, numerous bridges were washed out, and countless roads were closed by high water. As the evening progressed, flash flooding developed over a large area from Clayton County west to southern Cerro Gordo County. Many roads became flooded in Floyd, Bremer, Fayette, and Chickasaw Counties by around midnight. U.S. Highway 63 was overtopped by water for a time south of New Hampton. Rainfall reports of 2.00 to 5.00 inches in 3 hours or less were common across these areas. The heaviest rainfall was over Fayette County. Many areas received around 5.00 inches of rain, with spotty amounts of up to 10.00 inches. Hawkeye received 9.00 inches of rainfall, and West Union received 10.00 inches. Both of these cities are in Fayette County. Virtually all roads in Fayette County were closed at one time or another. The highest reported amount was an unofficial 13.00 inches of rainfall at Monona, in northern Clayton County. These heavy rains caused record flooding on the Turkey River. That issue will be addressed in a separate section of this report, but the flash flooding along the Turkey River killed several hundred head of livestock as they were swept downstream and drown. The flood event was described as a "500-year flood." Damage in Clayton County was severe. Reports indicated that every bridge in the county was either damaged or washed out. Damage was in excess of \$3 million. In Fayette County, 15 bridges were washed out. Damage was placed at \$2 million, with another \$250,000 damage to agricultural terraces. In the city of Elgin, over \$1 million in damage was reported, as the Turkey River rose 20 feet in just 16 hours. Soil erosion was a major problem. Top soil losses were as high as 200 tons per acre. There were other areas that received heavy rainfall. In Sac County, U.S. Highway 71 was overtopped by water for a brief time north of Early, with 6 to 8 inches of water over a county road county road. east of Storm Lake, in Buena vista County. West Bend, in Palo Alto County, reported 2.50 inches of rain in 50 minutes, with water reported over the roads. These were localized events and did not cause any widespread flooding, but are a sampling of the types of rainfall events that have plagued Iowa during the Spring.

IAZ002-003-007-008 Northeastern Iowa

During the late afternoon hours of the 14th, into the early morning hours of the 15th, torrential rains fell over the Turkey River Basin. Rainfall averaging in excess of 6.00 inches, and exceeding 13.00 inches at two stations, resulted in record flooding on the Turkey River. A new record crest of 30.10 feet was established at Garber. The previous record high was 28.06 feet set on February 23, 1922. Hundreds were evacuated along the river, with damages well into the millions. No injuries were reported. Flooding was very extensive with over \$1 million damage in the town of Elgin alone. Most of the business district in Garber was nearly destroyed. Crop damage was severe with most of the crops ruined in the river flood plain. Erosion of soil from the heavy rains across northeastern Iowa was very severe. Many areas reported soil losses exceeding 250 tons per acre. Reports indicated that a few farm were completely destroyed as the heavy rains and run off washed the soil down to the limestone. Several entire farms will never again be able to be farmed again. The severe damage, in conjunction with the poor agricultural economy, raised the sector that some communities may never recover from the major floods of 1991. There were only two other significant rainfall events during the month. Area coverage was spotty, with the rainfall only aggravating the flooding situation. On the 20th and 21st, up to 1.00 inch or so fell over northwestern Iowa. The final rainfall event of the month was over southwestern Iowa. Up to 1.50 inches of rain fell in these areas on the 21st and 22nd.

Howard County 1 NE Lime Springs Chickasaw County	18	1848CST	 0	0	4.	4	Hail (1.75)
Jerico 1.5 S Jerico	18 18	1950CST 1955CST	0	0	4	4	Hail (2.50) Hail (2.50)
6 N New Hampton	18	2003CST	ŏ	ŏ	Õ.	ŏ	Hook Echo

June 1991

	75 4.	Time Local/	Path Length	Path Width	Per	nber of sons	Da	mated mage	Charles (S)			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Proper	ty Crops	Character of Storm			
IOWA Cont'd												
Mitchell County Riceville Chickasaw County	18	2010CST			0	0	4	3	Thunderstorm Winds (G60)			
3 E to 6 SE New Hampton 4 E New Hampton	18 18	2010CST- 2030CST 2010CST	5.0	25	0	0	3 4	3 4	Tornado (F1) Hail (2.00)			
·	in a drop Chic trave Num	weak northwee ping golf ball kasaw County crsed open cou erous trees we	sterly flow to tenn that was ntry. High ere downer	v aloft. T is ball-siz on the gr gh winds ed with or	he store hail. round for 69 in the of the formula in the formula in the following the formula in the formula i	m cause It spa for aboumph we hem lar	ed propawned at 20 recording (perty and a tornal ninutes, orded in a pic	ounties. It moved slowly south d considerable crop damage by do east of New Hampton, in but caused little damage as it Mitchell County at Riceville. kup truck. These winds were the Riceville area.			
Worth County Northwood Wright County	19	1700CST			0	0	5	5	Hail (2.50)			
1 NE Belmond Countywide	19 19	1700CST 1715CST-			0	0	5	3	Thunderstorm Winds (G80)			
Hancock County	19	2100CST 1730CST-			0	0	5	4	Urban Flood			
Kossuth County	19	2100CST 1800CST- 2100CST			0	0	5 4	4	Urban Flood			
	Isolated thunderstorms developed along a weak frontal boundary in northern Iowa and produced extremely heavy rainfall in Wright, Hancock, and Kossuth Counties. Northeast of Belmond, 5.00 inches of rain fell between 1700 CST and 1730 CST. Most county roads were flooded, and one was completely washed out. In Hancock County, 4.00 inches of rain fell at Britt between 1700 CST and 1830 CST resulting in considerable local flooding. Farther north, 2.00 inches of rain fell at Swea City closing Highway 9 in northern Kossuth County. Streets in Swea City were also flooded. There were few reports of damage on a severe nature with the storms. What appears to have been down burst winds, toppled two barns and several telephone poles northeast of Belmond. The winds were strong enough that the farmhouse shook, and debris was scattered 2 miles to the west of the farmstead. In Worth County, pea- to tennis ball-size hail and gusty winds broke several window panes in Northwood. Considerable crop damage occurred in Worth County in a swath extending from the southwestern part of the county, northeast through the Northwood area.											
Clayton County 2 N Guttenburg 2 N Guttenburg	21 21	1320CST 1328CST			0	0	3	4 4	Hail (1.00) Hail (1.00)			
	repor	ted thundersto ts of heavy rai ton County wh	n and wir	nds of 40 t	o 50 m	ph. Th	e only	severe v	rn Iowa. There were several weather reported was in eastern of Guttenburg.			
Scott County Davenport Davenport	21 21	1815CST 1830CST-		·	0	0	3	0	Lightning			
Lee County Houghton	21	2000CST 1840CST			0	0	4 0	2	Urban Flood Funnel Cloud			
TOREMON			oma daval	onad alam	•	-			·			
	The s	torms were no	t severe ii	oped along	g une oi it a fun:	nel clou	d was	observe	the previous nights convection. I at Houghton, in northwestern			

A line of thunderstorms developed along the outflow boundary from the previous nights convection. The storms were not severe in lowa, but a funnel cloud was observed at Houghton, in northwestern Lee County. Heavy rains fell in Scott County, with Davenport receiving 1.83 inches of rain in half an hour. This caused some urban flooding problems in the city. A total of 3.69 inches of rain was reported by the U.S. Army Corps of Engineers at Lock and Dam 15. Lightning struck two

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	timated amage rty Crops	Character of Storm
IOWA Cont'd									
	buile apar	dings in Dave tment buildin	enport. T g was also	he roof o	f one hausing	ouse was	as stri fire tl	uck, cau nere and	sing some minor damage. An minor damage.
Osceola County 2 NW Melvin	30	2000CST			0	0	4	3	Thunderstorm Winds (G50+)
	repo	rted northwes	t of Melvi	in, in Osce	ola Co	unty. A	. 32- b	y 75-foo	ening hours. High winds were of cattle building was destroyed. o marble-size hail.
KANSAS									
Sherman County Goodland	01	0442CST			0	0	4	3	Thunderstorm Winds (G66)
	The	National Wea	ther Serv	ice reporte	ed tree	limbs bl	lown o	down and	d shingles blown off.
Thomas County Colby	01	0455CST			0	0	4	3	Thunderstorm Winds (G61)
Sherman County 12 N Goodland	. 01	0458CST			0	0	0	0	Thunderstorm Winds (G65)
Rawlins County 10 S McDonald McDonald	01 01	0510CST 0515CST			0	0	4 0	3 0	Thunderstorm Winds (G65) Thunderstorm Winds (G65)
Cheyenne County Bird City Russell County	01	0525CST			0	0	4	3	Thunderstorm Winds (G65)
1 S Russell 5 S Russell	01 01	1030CST 1100CST-			0	0	3	3	Hail (0.75)
	OI.	1645CST			0	0	3 .	3	Flash Flood
	Seve inch	ere thunderstores of rain fell	rms dropp and flood	ed large ha led creeks	ail and l and sta	neavy ra reams.	in ove	er southe	rn Russell County. Nearly 5.00
Meade County Plains	01	1107CST			0	0	4	0	Hail (1.00)
Stafford County 2 N Byers Clay County	01	1113CST			0	0	0	0	Funnel Cloud
Clay County Southern Portion	01	1130CST- 1645CST			0	0	3	3	Flash Flood
	Rain	nfall of 2.00 i	nches caus	sed floodii	ng in fi	elds and	i some	county	roads.
Stafford County 8 S St. Johns	01	1145CST			0	0	0	3	Hail (1.50)
	Hail	damaged who	eat crops i	in isolated	areas.			•	
Pratt County 1 E Pratt	01	1200CST			0	0	4	0	Hail (1.50)
	Hail	fell east of the	ne town of	f Pratt and	l dentec	l cars th	at we	re travel	ing on U.S. Highway 54.
Smith County Lebanon	01	1230CST			0	0	4	3	Thunderstorm Winds (G52)
	Seve	eral large trees	s were up	rooted in 1	Lebano	n.			

		Time Local/	Path Length	Path Width	Per	nber of	Daı	nated nage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	у Сторв	Character of Storm
KANSAS Cont'd		·							
Cloud County 2 S Concordia	01	1330CST			0	0	0	0	Funnel Cloud
Barber County 2 W Medicine Lodge	01	1400CST			0	0	0	0	Flood
•	Low	-lying, second	ary roads	were cov	ered w	ith wate	r due to	o heavy	rain.
Cloud County					•				
Northeastern Portion	01	1400CST- 1500CST			0	0	4	3	Flash Flood
	A th	understorm ov flooded county	er northea y roads.	istern Cloi	ıd Cou	nty droj	pped ne	arly 2.0	00 inches of rain in a short time
Kingman County 2 SW Kingman	01	1500CST			0	0	4	0	Lightning
	Ligh	tning struck ar	n oil tank	battery set	tting it	ablaze.	Damag	ge to th	e oil tank battery was \$20,000.
Butler County 4 N Atlanta	01	1640CST	0.5	50	0	0	0	0	Tornado (F0)
	A sn	naller tornado,	or gustai	nado, was	observ	ed by a	trainec	l spotte	r.
Morris County							_		
West Wilsey Shawnee County	01	1705CST	,		0	0	-	. 0	Funnel Cloud
1 N Rossville	01	1810CST	1.0	20	0	0	3	0	Thunderstorm Winds
	and	rst of thunders temporarily bl ked down a po	locked the	e street.	trees a Some	round R airborne	lossville limbs	e. A la tore d	arge tree fell across Main Street own power lines and one tree
Cheyenne County 6 WSW St. Francis 5 W St. Francis	03 03	1505CST 1510CST			0	0	0	0	Funnel Cloud Hail (1.00)
Phillips County 5 N Speed 8 NW Glade	04 04	1625CST 1635CST			0	0	3 3	3	Hail (0.75) Hail (0.75)
Trego County 3 E Wakeeney Ogalla	04 04	1645CST 1710CST			0	0	3	4	Hail (1.00) Hail (1.75)
Ellis County 6 E Ellis	04	1740CST	-		0	0	3	4	Hail (0.75)
•	Hail	measuring 0.7	5 inch in	diameter	covere	d the gr	ound.		•
Rooks County	•								
Webster Reservoir	04	1752CST			0	0	3	3	Hail (0.75)
	In ad	ldition to large	hail, Ro	oks Count	у гесеі	ved 3.0	0 inche	s of ra	in.
Ellis County 6 E Ellis	04	1836CST			0	0	3	4	Heavy Rain
	Four	inches of rain	fell in 30	0 minutes.					
Rice County 2 NW Chase	04	1926CST			0	0	3	3	Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
KANSAS Cont'd									
Harper County Harper	04	1953CST			0	0	0	0	Hail (0.75)
Marion County Peabody	05	0508CST			0	0	0	0	Flood
	U.S.	Highway 50	was flood	led at Peal	body.				
Neosho County 5 ENE Erie	04	0530CST			0	0	4	0	Lightning
	Ligh	tning struck a	barn and	burned it	to the	ground	•		
Stanton County 15 W Johnson Morton County	05	1854CST			0	0	0	0	Hail (1,00)
7 NW Elkhart 6 W Wilburton	05 05	2050CST			0	0	0	0	Hail (1.00)
Elkhart	05	2108CST 2108CST			ŏ	ŏ	0	ŏ	Thunderstorm Winds (G60) Thunderstorm Winds (G49)
	Win	d gusts to 49	knots (55	mph) wer	e repor	ted at t	he Elk	hart Air	port by the AMOS station.
Rolla	05	2144CST			0	0	0	0	Thunderstorm Winds (G55)
Grant County Ulysses	05	2200CST			0	0	4	0	Lightning
	Ligh com	tning struck puter system p	a radio to paging sys	ower at the stem and r	ne Cour adio co	nty Lav mmunic	v Enfo cation	orcements.	Center damaging part of the
Rawlins County 25 NW Atwood	07	1710CST	0.5	25	0	0	3	0	Tornado (F0)
•	A sn	nall tornado to	ouched do	wn and co	ollapsed	l a coup	le of	old shed	s.
Pottawatomie County Louisville	10	1500CST			0	0	0	0	Thunderstorm Winds
	thun Chai by ti	derstorm wind mpion Americ ravelers on the	ds and he an Elm e Oregon	eavy rain. It is the la Trail in t	The argest A he mid	tree dat America -1800s	tes ba n Elm as a r	ck into tree in eference	sas, was damaged by strong the 1800s and is the National the United States and was used and gathering point. The tree can Elm in the nation.
Riley County Wakefield	12	1700CST			0	0	0	0	Heavy Rain
•	Wak	efield reported	d 1.50 inc	hes of rai	n in a :	30-minu	ites pe	eriod.	
Dickinson County 2 W Abilene	12	1930CST- 2245CST			0	0	3	3	Flash Flood
	Near	rly 5.00 inche	s of rain	caused flo	oding a	long H	ighwa	y 40 wes	et of Abilene.
3 N Abilene	12	1930CST			0	0	4	4	Thunderstorm Winds (G56)
	Thu	nderstorm win	ids blew a	tractor-se	emitrail	er over	along	Interstat	te 70.
Scott County Scott City	14	1415CST			0	0	3	3	Hail (1.00)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Daı	mated mage y Crops	Character of Storm
KANSAS Cont'd									
Clay County 10 NW Wakefield	14	1700CST			0	0	4	4	Hail (1.00)
Reno County 2 E Hutchinson	14	1705CST			0	0	3	0 .	Hail (1.75)
Geary County Junction City	14	1710CST			0	0	0	0	Hail (0.75)
Riley County Riley 3 NE Riley	14 14	1717CST 1725CST			0	0	0	0	Funnel Cloud Thunderstorm Winds
	Thur were	nderstorm wind reports of fur	is downed inel cloud	trees and s in the ar	caused ea, bu	roof da t no cor	mage a nfirmed	t a farm tornad	istead northeast of Riley. There o sightings.
Dickinson County	• •	1720.00		•	•	•			T 1 4 55
4 NW Chapman Marshall County	14	1730CST			0	0	4	4	Hail (1.75)
Marysville	14	1730CST			0	0	4	0	Thunderstorm Winds (G55)
	Wind	ds gusting to n	early 60 i	mph dama	ged tre	es, hon	nes, and	d power	r lines around Marysville.
Geary County Junction City Riley County	14	1733CST			0	0	0	0	Hail (0.75)
Manhattan Milford Lake	14 14	1735CST 1735CST			0	0	0 3	0	Funnel Cloud Hail (2.00)
	Larg	e hail broke a	few wind	ows and s	tripped	trees.			
Pottawatomie County 10 NNE Manhattan	14	1741CST			0	0	0	0	Funnel Cloud
Riley County Fort Riley	14	1743CST			0	0	0	0	Funnel Cloud
Manhattan 4 N Leonardville	14 14	1757CST 1800CST			0	0	0 3	0 3	Funnel Cloud Thunderstorm Winds (G60)
	Thur	derstorm wind	ds downed	several la	arge tre	es 4 mi	iles nor	th of L	eonardville.
Sedgwick County Andale	14	1831CST			0	0	0	0	Hail (0.75)
Pottawatomie County 2 N Westmoreland	14	1833CST			0	0	0	0	Funnel Cloud
Harvey County 4 S Burrton	14	1839CST			0	0	3	0	Hail (1.75)
Marion County 5 N Hillsboro	14	1850CST			0	0	3	0	Hail (1.75)
5 N Hillsboro Riley County	14	1850CST			0	0	3	0	Thunderstorm Winds (G61)
Fort Riley Pottawatomie County	14	1853CST			0	0	0	0	Funnel Cloud
Blaine Morris County	14	1912CST			0	0	0	0	Hail (1.00)
Delevan Pottawatomie County	14	1930CST			0	0	0	0	Hail (0.75)
St. George	14	1930CST			0	0	0	0	Thunderstorm Winds (G55)
	Trees	were downed	and some	e damage	to hom	es resul	lted fro	m the f	falling trees.
Sedgwick County Wichita	14	1950CST			0	0	3	0	Thunderstorm Winds (G69)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	D	timated amage erty Crops	Character of Storm
KANSAS Cont'd									
	Wine	ds gusted to 8	30 mph on	the west	ern side	of Wic	hita.		
McPherson County 4 E McPherson	14	2000CST		-	0	0	3	3	Hail (0.75)
Clay County Wakefield	14	2020CST			0	0 -	3	3	Hail (0.75)
Riley County Riley	14	2025CST			0	0	0	0	Thunderstorm Winds (G55)
Douglas County 5 W Eudora	15	1430CST	3.0	20	0	0	3	0	Tornado (F0)
		or damage oc aled the torna				est of E	udora	from a	small tornado. A home video
Leavenworth County 4 SW Lansing	15	1446CST			0	0	0	0	Funnel Cloud
Douglas County Baldwin City 1 S Clinton 1 W Clinton	15 15 15	1455CST 1512CST 1519CST			0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (0.75) Thunderstorm Winds (G58)
Wabaunsee County Eskridge	15	1600CST			0	0	3	4	Thunderstorm Winds (G60)
	Wine over	d and hail da . A sweet co	maged wh	eat crops as ruined	in east at a far	ern Wah rm half-	oaunse way b	e Count between 1	y. A hay barn was also blown Eskridge and Harveyville.
Harveyville	15	1700CST			0	0	0	4	Hail (1.00)
	Hail	destroyed on	e patch of	wheat an	nd half	of anoth	er tha	it was re	ady to harvest.
Jefferson County Perry	15	1740CST			0	0	0	0	Hail (1.00)
Sedgwick County Wichita	15	1745CST			0	0	0	0	Hail (0.75)
	Thre	e-quarter-incl	n hail fell	at Merida	an and l	Harry Si	treets.		
Wichita	15	2145CST			0	0	4	0	Flood
	exter	eastern and s nsive street flo to the high w	ooding. A	ides of W mobile he	Vichita ome par	had upv rk at 31s	wards t Sout	of 3.00 h and Ka	inches of rain that resulted in unsas Highway 15 was evacuated
Cowley County 3 E Atlanta	15	2200CST			0	0	0	0	Flood
	Cou	nty Road 2 w	as impass	able due t	to the h	igh wate	er.		
Wilson County 4 SE Buffalo	16	0100CST			0	0	4	0	Lightning
	Ligh	tning struck	a tree and	electrocu	ted eigh	nt head	of cat	tle value	d at \$5,200.
Sherman County 5 W Goodland Stanton County	16	2015CST			0	0	0	3	Hail (1.00)
8 W Johnson	16	2115CST- 2129CST			0	0	0	0	Hail (0.75)

June 1991

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

KANSAS Cont'd

Hail fell 8 miles south of town on Old Highway 160. The storm moved east to 4 miles west of Johnson. Hail of various sizes covered the road 5 miles west of town, with the largest size reported as a little larger than a dime.

Grant County 1 W Kinsley	17	1553CST	0	0	0	3	Hail (0.75)	
Edward County 8 SW Kinsley Meade County Fowler 5 S Fowler Ellis County 15 S Hays	17	1627CST	0	0	0	3	Hail (0.75)	
	17 17	1644CST 1647CST	0	0	0	0	Hail (0.75) Hail (1.00)	
	17	1650CST	0	0	4	4	Hail (1.00)	
Meade County 1 E Meade Kiowa County	17	1658CST	0	0	3	0	Hail (1.00)	
14 WNW Greensburg Ellis County	17	1700CST	0	0	0	0	Hail (1.00)	
3 S Schoenche Clark County	17	1702CST	0	0	4	4	Hail (1.75)	
10 SE Ashland Rush County	17	1705CST	0	0	0	0	Hail (2.00)	
3 N Liebenthal Meade County 6 S Meade	17 17	1705CST 1715CST	0	0	4	4	Hail (1.75) Hail (1.75)	
Ford County 2 W Windthorst	17	1725CST	0	0	0	3	Hail (1.75)	
6 E Ford	17	1743CST hail caused major damage to m	0 sturing	0	0 nd souh	5 een ere	Hail (1.00)	
	Lang	c hair caused major damage to m	mtui ing	com a	uu soyo	can cic	pa.	
1 W Bucklin Meade County	17	1803CST	0	0	0	0	Hail (1.00)	
3 ENE Meade	17	1825CST	0	0	0	0	Lightning	
Lightning set fire to a dry pasture. About an acre was burned along with a haystack.								
Seward County 17 NNE Liberal 17 NW Goodland	17 17	1825CST 1940CST	0	0	0	0	Hail (0.75) Thunderstorm Winds (G61)	
Smith County 10 N Kensington Ford County	17	2330CST	0	0	3	3 .	Thunderstorm Winds (G52)	
Ford County 8 NW Dodge City Gray County	18	1610CST	0	0	0	0	Hail (1.00)	
Ingalis	18	1703CST 1723CST	0	0	0	5	Hail (1.00)	
Ford County 7 W Dodge City Hamilton County	18	1705CST	0	0	0	0	Hail (1.00)	
4 WNW Syracuse Seward County	18	1730CST	0	0	0	3	Hail (1.25)	
Kismet Haskell County	18	1755CST	0	0	0	4	Hail (1.00)	
Satana Seward County	18	1810CST	0	0	0	0	Hail (0.75)	
8 W Liberal	18	1840CST	0	0	0	3 .	Hail (1.00)	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estimated Damage Property Crops		Character of Storm	
V/13/04/0/0/03/1										
KANSAS Cont'd										
Grant County 10 SW Ulysses	18	1845CST			0 -	0	0	0	Hail (1.00)	
Haskell County 1 SW Satana	18	1845CST			0	0	0	0	Hail (0.75)	
Stevens County 4.5 N Moscow	18	1849CST			0	0	0	.0	Hail (1.75)	
Morton County 10 N Elkhart	18	2050CST			0	Ó	0	0	Hail (0.75)	
Sherman County Goodland (GLD)	18	2158CST		¥	0	0	4	4	Thunderstorm Winds (G51)	
	A wind gust to 59 mph was recorded at the National Weather Service office.									
12 SW Goodland	18	2200CST	0.5	25	0	0	0	0	Tornado (F0)	
	Small tornado touched down but no damage resulted.									
5 SW Goodland	18	2213CST	0.5	25 .	0	0	0	0	Tornado (F0)	
	No damage was reported from brief touchdown of small tornado.									
Ford County Howell	18	2250CST			0	0	0	0	Hail (0.75)	
Sherman County Goodland (GLD)	19	0243CST			0	0	0	0	Thunderstorm Winds (G63)	
Coccinia (CLD)			ree limbs	were know		•			nesses had windows blown out.	
Hodgeman County		an troop and t	ioo iimos	WOIO AMO		, , , , , , , , , , , , , , , , , , ,	3 50 0	,	topoù ma villaovo diovil den	
8 SW Jetmore Jetmore	19 19	1535CST 1610CST			0	0	0	0 0 ;	Hail (1.50) Hail (0.75)	
Ford County 15 N Dodge City	19	1715CST			0	0	0	0	Funnel Cloud	
Stanton County 6 E Johnson	19	2335CST			0	0	0	0	Hail (1.00)	
Grant County 2 SE Big Bow	19	2355CST			0	0	0	0	Hail (1.75)	
Haskell County 6 NNW Sublette	20	0135CST			0	0	0	4	Hail (1.00)	
Shawnee County Topeka	20	1652CST			0	0	0	0	Thunderstorm Winds (G60)	
	Stroi	ng winds gust	ed to 64 r	nph in No	rth Top	eka; no	dama	ige was	reported.	
Gove County						_	_			
Gove 5 S Quinter	20 20	2005CST 2020CST			0	0	3 3	3 3	Hail (0.75) Hail (0.75)	
Trego County Collyer Washington County	20	2100CST			0	0	3	3	Hail (0.75)	
10 SW Washington 12 SW Washington	21 21	1402CST 1411CST			0	0	4 3	4 3	Hail (1.00) Thunderstorm Winds (G52)	
7 SE Washington 1 E Kimeo	21 21 21	1422CST 1437CST			0	0	3	3 4	Hail (0.75) Hail (1.75)	
Wabaunsee County Eskridge	21	1545CST			0	0	2	0	Lightning	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of rsons Injured	Dar	mated mage y Crops	Character of Storm	
				<u>.</u>				"		
KANSAS Cont'd										
•	Lightning struck a home in Eskridge twice. The first strike occurred at 1545 CST with a second strike at 1630 CST. The lightning entered the house and destroyed a television set. The house has lightning rods, but they failed to protect it. Ironically, two television sets were in use at the time, but only one was damaged.									
Pottawatomie County Blaine	21	1620CST			0	0	3	0	Thunderstorm Winds (G55)	
	Tree	s were blown	down in	Blaine. O	ne tree	fell on	a car,	but no	one was injured.	
Rice County 1 E Little River	21	1738CST			0	0	3 .	3	Hail (0.75)	
McPherson County 15 NW McPherson	21	1755CST			0	0	3	3	Hail (0.75)	
Reno County Huntsville	21	1900CST			0	0	0	0	Thunderstorm Winds (G56)	
	Trees were damaged by strong thunderstorm winds in Huntsville.									
Sedgwick County Wichita	21	2140CST			0	0	0	0	Thunderstorm Winds (G63)	
	Wind gusts estimated to 72 mph were reported at Lincoln and Webb Road in East Wichita.									
Hamilton County				•		_		_		
Kendall Kearney County	22	2020CST			0	0	4	5	Hail (1.00)	
Kendall	22	2020CST			0	0	4	5	Hail (1.00)	
	Several fields of wheat and other crops north of Kendall in Hamilton and Kearney Counties suffered major damage in a 3- or 4-mile-wide swath of hail. Some farmers sustained total losses on their ready-to-harvest wheat. Two tractor-semitrailers wound up in ditches just east of U.S. Highway 50 and Kendall Highway intersection. One truck was laid over on its side and the other was still upright.									
Haskell County 17 N Sublette	22	2350CST			0	0	0	4	Hail (1.00)	
Gray County					_		_		•	
10 N Copeland 12 E Garden City	23 23	0010CST 0050CST			0	0	0	0	Thunderstorm Winds (G62) Hail (1.00)	
12 E Garden City Ford County	23	0050CST			0	0	0	0	Thunderstorm Winds (G62)	
17 S Dodge City Jefferson County	23	0132CST			0	0	0	0	Hail (1.00)	
Meriden	23	1410CST			0	0	4	0	Hail (2.00)	
	Large hail broke windows in cars and homes in the Meriden area just northeast of Topeka.									
Shawnee County		1505000			•	^	^	^	TT '1 (4 50)	
Topeka Topeka	23 23	1525CST 1604CST			0	0	0	0	Hail (1.50) Hail (1.50)	
Topeka	23	1634CST	·		0	0	3	0	Thunderstorm Winds (G55)	
	Winds blew down some large trees in North Topeka, north of U.S. Highway 24.									
Sherman County	25	000/COT			•	0	^	^	7N 1 XIP 1 .6364	
Goodland (GLD) Goodland (GLD)	25 25	2006CST 2016CST			0	0	0	0	Thunderstorm Winds (G61) Thunderstorm Winds (G54)	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	imated amage rty Crops	Character of Storm
KANSAS Cont'd									
Smith County 15 NE Smith Center	30	1930CST			0	0	3	3	Hail (0.75)
Jewell County 15 NW Mankato	30	1945CST			0	0	3	3	Hail (0.75)
Logan County 25 SSW Oakley	30	2025CST			0	0	3	3	Hail (2.50)
Gove County 15 SW Gove	30	2100CST			0	0	3	3	Hail (2.00)
KENTUCKY									
Lewis County	01	1630EST			0	0	4	0	Thunderstorm Winds
	Stron of th	ng thunderstone county.	rm winds	destroyed	a mobil	e home	and up	prooted s	several trees in the northern part
Grant County	01	2100EST			0	0	3	0	Thunderstorm Winds
	Seve	eral trees were	blown de	own in Jor	nesville				
Kenton County	02	1442EST			0	0	4	3	Thunderstorm Winds Hail (1.75)
·	Seve was	eral uprooted t reported in F	rees dama t. Mitchel	ged a hous I and som	se and a e tobac	car in t	the Ft. s in th	Wright ne area w	and Park Hills area. Large hail vere damaged.
Campbell County	02	1540EST			0	0	3	0	Thunderstorm Winds
	Tree	es were blown	down nea	ar Bellevie	w.				
Boone County	02	1600EST			0	0	3	0	Thunderstorm Winds
	Seve	eral large trees	were blo	wn down	near Pe	etersbur	g.		
Kenton County Covington	02	1630EST			0	0	4	0	Flash Flood
	Over out	r 3.00 inches of their banks	of rain fa . High w	lling in a state flood	short pe ed a scl	eriod of hool and	time d man	forced so y streets	everal small streams and creeks in the city.
Mercer County	02	1730EST			0 -	2	0	0	Lightning
	Two knoo	men were inj cked unconscio	ured when	n lightning sceived bu	struck rns.	a ponto	on bo	oat on Ha	arrington Lake. Both men were
Floyd County	02	1945EST			0	0	3	0	Thunderstorm Winds
	Seve	eral trees were	blown do	own in the	county	<i>7</i> .			
Pike County	02	2000EST			0	0	3	0	Thunderstorm Winds
	Stro	ng thundersto	rm winds	uprooted	trees ar	ound P	ikevill	e.	
Knott County	02	2030EST			0	0	3	0	Thunderstorm Winds
:	Tree	es were blown	down in	Knott Cou	inty by	thunde	rstorm	winds.	
Bell County	02	2110EST			0	0	3	0	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	D	timated amage rty Crops	Character of Storm
KENTUCKY Cont	'd								
	Seve	ral trees and	power line	es were ble	own de	own by	hunde	erstorm v	vinds.
Letcher County	02	2115EST			0	0	3	0	Thunderstorm Winds
	Seve	ral trees were	downed	in Letcher	Coun	ty.			
Hopkins County	21	0830CST- 1230CST			0	0	4	0	Flash Flood
	Over evac	4.00 inches uation of seve	of rain fe eral homes	ll in the M s along Ro	ladison semon	ville are t and Fo	ea, flo wler	oding no Streets of	imerous streets and forcing the in the northern side of the city.
Webster County	21	1015CST			0	0	0	0	Flash Flood
	Heav	y rain floode	d parts of	Kentucky	High	way 132	south	west of	Clay.
Union County Sturgis	21	1030EST- 1100EST			0	0	0	0	Flash Flood
	Seve	ral city street ed slowly thro	s were floough the a	ooded in s irea.	ome a	reas up	to 3 f	eet deep	as showers and thunderstorms
Morgan County	21	1500EST			0 .	0	0	0	Flash Flood
	The Malo	West Liberty one and Stacy	Police De Fork.	partment 1	eporte	d State F	Routes	: 191 and	844 flooded and impassable at
Wolfe County	21	1530EST- 1545EST			0	0	3	3	Flash Flood
		y rain forced covered with							Some roads in Flat and Mary way.
Trigg County	21	1607CST		•	0	0	3	0	Thunderstorm Winds
	Stron	ıg winds dam	aged a ba	rn and upr	ooted	trees bet	ween	Linton a	nd Roaring Springs.
Breckinridge County	21	1800EST			0	0	3 .	0	Flash Flood
	Near in Ha	ly 5.00 inche ardinsburg.	s of rain,	falling in	a shor	period	of tim	ne, floode	ed several streets and buildings
LOUISIANA			•						
St. Tammany Parish Slidell	04	1300CST			0	0	3	0	Thunderstorm Hail (1.00)
	A slo	ow moving the street flooding	understori g in the W	n formed o hisperwoo	over the	e northe livision.	rn par	t of Slid	ell and produced 1.00-inch hail
Washington Parish Bogalusa Bogalusa	04 04	1600CST 1600CST			0	0	4 3	3	Thunderstorm Winds Thunderstorm Lightning
	hour.	vere thunders Straight lin tning caused	e winds b	lew down	many	trees. C)ne fa	Bogalusa llen tree	and drifted west over the next damaged the roof of a church.

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	stimated Jamage erty Crops	Character of Storm
LOUISIANA Cont	.'d					,			
Tensas Parish St. Joseph	04	1610CST			0	0	3	3	Thunderstorm Winds
	A se		torm blew	v down se	everal tr	ees and	some	power l	ines in the northern part of St.
Waterproof Franklin Parish	05	1658CST			0	0	4	4	Thunderstorm Winds
2 SE Griffin Morehouse Parish	05	1715CST			0	0	0	0	Thunderstorm Hail (0.90)
2 S Oakridge	05	1720CST			0	0	0	0	Thunderstorm Hail (0.75)
	Wat	evere thunder erproof. Other inch hail 2 n	er severe tl	hundersto	rms pro	rees, po duced n	wer l ickel-	ines, and size hail	I destroyed a mobile home in 2 miles southeast of Griffin and
St. Tammany Parish Slidell	05	1710CST			0	0	0	0	Thunderstorm Hail (0.75)
	A th	understorm p	roduced 0	.75-inch	hail in S	Slidell.			
Allen Parish Kinder Evangeline Parish	05	1825CST			0	0	0	3	Thunderstorm Winds
Ville Platte Calcasieu Parish	05	1850CST		•	0	0	0	4	Thunderstorm Winds
Lake Charles	05	1900CST	0.5	15	0	0	4	0	Tomado (F0)
	they repo num squa	produced sor rted numerou erous trees w re-foot buildi	me wind one wind one wind the wind that was a contract of the wind that we will be with the wind the w	damage a owned in down in s under c	nd at le Kinde Ville Pl onstruct	ast one r. The atte. A ion in I	torna Eva sma ake (ido. The ingeline l Il tornado Charles.	the storms moved rapidly south, a Allen Parish Sheriff's Office Parish Civil Defense reported to blew down part of a 65,000-A nearby mobile home that was 500 business sign. Finally, the se cars parked nearby.
Caddo Parish 7 SE Shreveport	05	1930CST			0	0	3	0	Thunderstorm Winds
	A se	vere thunders	torm blew	down a	couple	of powe	r line	s southea	st of Shreveport.
Orleans Parish New Orleans	10	1425CST- 2300CST			0	0	?	0	Flash Flood
Jefferson Parish Metairie	10	1425CST- 2300CST			1	0	?	0	Flash Flood
Westwego Gretna	10	1425CST- 2300CST			0	0	?	?	Flash Flood
Orleans Parish New Orleans	11	0700CST- 1000CST			0	0	· ?		Flash Flood
Jefferson Parish Metairie	11	0700CST- 1000CST			0	0	· ?	0	Flash Flood
Westwego Gretna	11	0700CST- 1000CST			0	0	?	0	Flash Flood

Portions of New Orleans and neighboring Jefferson Parish received 9.00 to 14.00 inches of rain. On June 10th and 11th, most of the rain fell in two downpours. The first 6.00 to 10.00 inches of rain fell on June 10th between 1425 CST and 2300 CST. The final 3.00 to 5.00 inch deluge fell on June 11th between 0700 CST and 1000 CST. The hardest hit areas of New Orleans included

June 1991

Lauria	Data	Time Local/	Path Length	Path Width	Pe	mber of	Da	mated mage	Chanata of Starra
Location	Date	Standard	(Miles)	(Yards)	Killed	injurea	Proper	y Crops	Character of Storm
LOUISIANA Cont	'd								
	Meta a Me tried flood	iirie, Gretna, etairie drainag to negotiate s	and Westy ge canal an streets that s and Jeffe	wego were ound 1730 were floo	inunc CST ded w	lated. A on June ith up to	An 11-y e 10th. o 3 feet	ear-old Nume of wate	n. In Jefferson Parish, parts of boy drowned while playing in rous cars were flooded as they er. Total homes and businesses ectively. No damage estimates
Plaquemines Parish 5 SW Belle Chasse	11	0924CST	0.5	15	0	0	0	0	Tomado (F0)
	The The	weather obser tornado dissip	ver at the pated at 09	Belle Char 32 CST.	sse Na	val Air	Station	sighted	a small tornado moving north.
Terrebonne Parish Bayou Cane	12	1155CST			0	0	4	0	Thunderstorm Lightning
•	Ligh	tning struck a	home in	Bayou Car	ne. Ti	he result	ing fire	e destro	yed half of the home.
Jefferson Parish Metairie	16	1445CST	0.5	15	0	0	4	3	Tomado (F0)
	A sm	nall tornado to	ore the roo	of off a bu	siness	and shir	nges of	some n	nearby homes in Metairie.
Tangipahoa Parish Hammond	17	1400CST			0	0	0	3	Thunderstorm Winds
		Tangipahoa P mond.	arish Sher	iff's Offic	е геро	rted that	t a thu	nderstor	m blew down a few trees near
Calcasieu Parish Lake Charles	18	1513CST			0	0	4	0	Thunderstorm Lightning
		tning caused a rby mobile h		h did \$5,0	000 dai	mage to	a shed	and its	contents and \$3,500 damage to
Acadia Parish Morse	20	1315CST			0	0	3	0	Thunderstorm Hail (1.00)
	The .	Acadia Parish	Sheriff's	Office rep	orted	quarter-:	size ha	il at Mo	orse.
Iberia Parish 2 SW Cade	21	1400CST		•	0	0	3	0	Thunderstorm Lightning
	Light and d	tning struck a lamaged its st	traveling a eel belted	automobile tires. The	on U. e car l	S. High	way 19 towed	00. It va l in for	aporized the car's radio antenna repairs.
St. Martin Parish 1 SW St. Martinville	24	1500CST	0.5	15	0	0	3	.0	Tornado (F0)
741 m mil 4 111/A	A sm	all tornado ri	pped the 1	oof off a	barn s	outhwes	t of St.	Martin	ville.
Jefferson Parish Lafitte	26	1555CST			0	0	0	2	Thunderstorm Winds Hail (0.75)

A severe thunderstorm blew down several trees and produced dime-size hail in Lafitte.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of	D	imated amage	Character of Storm
Locusion		Duncaru	(141100)	(Turus)	141100		Поро	ity Otopa	Character of Storm
LOUISIANA Con	t'd								
James Parish									
Lutcher Gramercy	27	1300CST- 1500CST			0	0	3	0	Flash Flood
	CST	ames Parish (and 1500 CS es were also	T. This p	emergency roduced w	Prepar videspre	edness i ad stree	reporte t flood	xd 4.50 i ling in L	nches of rain fell between 1300 autcher and Gramercy and a few
East Baton Rouge									
Parish Baton Rouge	27	1400CST			0	0	3	0	Thunderstorm Lightning
	A li	ghtning strike	caused \$	1,000 in d	amage	to a Bat	ton Ro	uge hon	ne.
St. Landry Parish Eunice	27	1556CST- 1800CST			0	0	3	0	Flash Flood
		St. Landry P		iff's Offic	e repo	rted hea	vy raii	n that re	sulted in widespread home and
Caddo Parish Shreveport	28	1427CST			0	1	5	0	Thunderstorm Lightning
MARK	ignit to ex	ting a volatile	gasoline l laze. Lig	olending continuity	ompou	nd that v	vas in	the tank	ssing Company in Shreveport, It took firemen several hours was opening the door of his car.
MAINE									
York County Biddeford	11	1600EST			0	0	?	0	Thunderstorm Winds
	Stro	ng winds blev	trees ont	o power li	nes cau	sing out	tages in	n Biddef	ord, and the surrounding areas.
Kennebec County									
Waterville Winslow	12 12	1530EST 1600EST			0	0	?	0 0	Hail (0.75) Thunderstorm Winds
Albion	12	1600EST			0	0	?	0	Thunderstorm Winds
Manchester Waldo County	12	1612EST			0	6	?	0	Lightning
Unity	12	1615EST			0	0	?	0	Thunderstorm Winds
Thorndike Monroe	12 12	1630EST 1650EST			0	0	?	0	Thunderstorm Winds Thunderstorm Winds
December of Courses	prod wind outa light bran	lucing strong value of the strong struck of the struck of	winds, light branches reported inearby to ported do	ntning, and down in V in Winslov ee and trav wn in Un	I hail. Vinslov w and A veled to ity at	In Wate v and A Albion. o the ga 1615 Es	rville a lbion : At 16 zebo v ST. \	at 1530 I at 1600 12 EST, where the Wind gu	ate afternoon hours on the 12th, EST, 0.75-inch hail fell. Strong EST. Pea-size hail and power, six golfers were injured when ey were seeking shelter. Large sts estimated at 60 mph were pectively.
Penobscot County Bangor	13	0030EST			0	0	?	0	Lightning
	Ligh build	tning struck a ling. The tree	large will left a hol	ow tree the	at fell ti of, dan	hrough (naged th	the slat ree flo	e roof o	f the Trebor Inn, a 162-year-old re escapes, a deck, and a porch.

		Time Local/	Path Length	Path Width		nber of		mated mage	
Location	Date	Standard	(Miles)	(Yards)					Character of Storm
MAINE Cont'd									
Penobscot Bay, Mt. Desert, Western Mountains, Western Foothills, and the Capital	13	1030EST- 1630EST			0	0	?	0	High Winds
MEZ008-009-010 and 012	trees	ng and gusty v and powers and lower	lines causi	ng power	outage	$\bar{\mathbf{s}}$ to ov	e syste er 5,00	em in the O reside	e Gulf of Maine, downed many ences from the western, south-
York County	15	1930EST			0	0	5	0	Lightning
Lyman	Ligh	tning struck a	two-story	house, st	arting	a fire a	nd caus	sing abo	ut \$150,000 in damage.
Piscataquis County Brownville Williamsburg	28 28	0730EST 0840EST			0	0	?	0	Lightning Lightning
	causi	tning struck a ing the structo k a mobile ho	ıre to igni	te. The r	esulting	g fire d	able in estroye	the tow d the st	on of Brownville at 0730 EST, able. At 0840 EST, lightning
Somerset County Caratunk Weshington County	28	1754EST			0	0	?	0	Large Hail
Washington County Topsfield	28	1828EST			0	0	?	0	Hail (1.75)
Somerset County Cambridge Ripley	28	1830EST			0	0	?	0	Thunderstorm Winds
Penobscot County Dexter	28	1830EST			0	0	4	0	Thunderstorm Winds Funnel Cloud
Washington County Baileyville Penabeset County	28	1835EST			0	0	?	0	Hail (0.75)
Penobscot County Exeter Mills Somerset County	28	1840EST	0.75	50	0	0	?	0	Tornado (F0-1)
Brighton Washington County	28	1845EST	,		0	0	?	0	Thunderstorm Winds
Calais	28 28	1900EST 1900EST			0	0	5 ?	0	Hail (2.75) Thunderstorm Winds
Somerset County Harmony St. Albans	28	1900EST			0	0	?	0	Thunderstorm Winds
Penobscot County Levant Kenduskeag Glenburn Hermon	28	1900EST			0	0	?	0	Hail (2.75) Thunderstorm Winds
Bangor Bangor	28	1905EST			0	0	?	0	Thunderstorm Winds (G50) Hail (1.75)
Newport Orrington Holden	28 28	1910EST 1920EST			0	0	?	0	Thunderstorm Winds Thunderstorm Winds
Somerset County Palmyra Hancock County	28	1930EST			0	0	?	0	Lightning
Otis Otis	28	1950EST			0	0	?	0	Hail (0.75)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
MAINE Cont'd									
Ellsworth Hancock Franklin	28 28	2000EST 2015EST			0	0	4?	0	Lightning Hail (1.00)
Penobscot County Newport	28	2045EST		• .	0	1	?	0	Lightning

Severe thunderstorms battered central and southeastern Maine with high winds, large hail, lightning, and one tornado during the early and late evening hours of the 28th. At 1754 EST, large hail fell in the town of Caratunk. Very strong winds and golf ball-size hail were reported in Topsfield at 1828 EST. Strong winds knocked trees and power lines down in Cambridge and Ripley at 1830 EST. Also at 1830 EST, a funnel cloud was sighted in Dexter and very strong winds brought many trees to the ground and caused numerous power outages and thousands of dollars worth of damage to many properties. Nine transformers and five utility poles were damaged or destroyed by the wind. Several trees fell on top of a house near Lake Wassookeag causing extensive damage to the roof. At 1835 EST, 0.75-inch hail was reported in the town of Baileyville. At 1840 EST, an FO to F1 tornado moved through Exeter Mills uprooting swaths of trees and tore the roof of a barn off. The tornado was 50 yards wide and was on the ground for three-quarters of a mile. At 1845 EST, thunderstorm winds blew trees down in the town of Brighton. Extensive damage was reported in Calais at 1900 EST when tennis ball- to baseball-size hail fell. Cars were dented by the hail and their windows blown out. A car dealership had 55 cars damaged with damage estimated at \$135,000. Total damage to cars and homes in Calais was estimated at several hundreds of thousands of dollars. Trees and power lines were also blown down in Calais. Strong winds in Harmony and St. Albans at 1900 EST, resulted in trees and power lines down. The town of Levant was hit with silver dollar- to baseball-size hail at 1900 EST. Trees and power lines were also blown own in the Levant, Kenduskeag, Glenburn, and Hermon areas with one tree falling on a house, some on cars, and some trees blocked roads. A mobile home was blown over by the same strong winds that downed the trees and power lines. At 1905 EST, winds gusted to 58 mph at the Bangor International Airport. Many trees were reported knocked do

MARYLAND and D.C.

Montgomery County Glen Echo Silver Spring	16	1600EST- 1630EST	0	0	4	0	Thunderstorm Winds
·	Pow	er lines were downed at Glen Ech	no and	Silver	Spring.		
District of Columbia	16	1630EST- 1700EST	0	0	3	0	Thunderstorm Winds
	Thu: seve	nderstorm winds toppled a tree of ral hours due to downed power li	nto a nes.	pickup	truck.	Some	7,700 customers lost power for
City of Baltimore	16	1730EST	0	0	5	0	Lightning

Lightning struck power lines leading to a residence in the East Baltimore section. The residence was destroyed when a power surge exploded a television set and set the house afire. Two people were injured when they jumped from a second-floor window to escape the fire.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	timated amage rty Crops	Character of Storm
MARYLAND and	D.C.	Cont'd							
City of Baltimore	29	Afternoon			0	45	0	0	Heat
	of he	at exhaustion ambulance cr neastern Baltin	. Approxi	imately 44 e stadium	people Fou	ataBa rofthe	ltimor se ha	re Oriole d to be	contributed to numerous cases s baseball game were treated by hospitalized. Another man in vated his body temperature to
MASSACHUSETT	S								
Berkshire County Williamstown	11	1630EST			0	0	?	0	Thunderstorm Winds
	A fe	w trees were	downed b	y thunders	storm w	inds in	Willi	amstown	
Worcester County Northern Portion Royalston	- 11	1720EST- 1730EST			0	0	4	0	Thunderstorm Winds (G60)
	Most	d gusts estimat t of the trees ver al houses we	vere fellec	l in two n	arrow s	trips of	trees land	and limb on the no	os along Route 32 in Royalston. orthern side of Tully Mountain.
Middlesex County Northern Portion Chelmsford	11	1815EST- 1830EST			0	0	3	0	Lightning
·	Ligh	tning struck a	shed igni	ting a fire	that d	estroyed	the s	shed.	
Lowell Westford	11	1830EST			0	0	4	0	Thunderstorm Winds (G50)
Billerica	A fer	w trees and lin	mbs were	blown do	wn cau	sing sca	ittered	power	outages.
Essex County Andover	11	1845EST- 1900EST			0	0	4 .	0	Thunderstorm Winds (G60)
		s were uproote p to 3 hours.	ed and blo	wn down (on 11 st	reets. S	Severa	l thousan	d residents were without power
Middlesex County Stoneham	11	1900EST			0	0	5	0	Lightning
	Light Early	tning struck a estimates pla	shopping ced dama	plaza ignit ge at mor	ing a tv e than S	vo-alarr \$100,00	n fire v	which ca	used extensive interior damage.
Essex County Newbury Newburyport	11	1900EST			0	0	4	0	Lightning
),F	Light 20,00	tning knocked 30 electric cus	l out powers lo	er for sev st power	eral ho	urs thro Aerrima	oughou ck Va	it both c lley.	ommunities. A total of about
Berkshire County Pittsfield Richmond Lenox	12	1317EST- 1330EST			0	0	?	0	Thunderstorm Winds
Middletown	Trees	were downed	d by thund	derstorm v	vinds ii	n Berks	hire C	ounty.	

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons	Da	mated mage	Character of Storm
			(1.1100)	(2 43 2 2)			110711	.,,.	
MASSACHUSET	rs Co	ont'd							·
Franklin, Hampshire, and Hampden Counties	12	1345EST- 1515EST			0	0	5	0	Thunderstorm Winds
	scatt	ne of strong the tered locations tric customers.	s. Minor	rms move property	d east a damag	and the e occur	associa red an	ited win d power	d gusts knocked down trees in routages affected up to 7,000
Franklin, Hampshire, Hampden, and	12	1345EST- 1515EST			0	0	4	0	Lightning
Worcester Counties	Ligh	ntning strikes	damaged :	several ho	mes.			•	
Worcester County Winchendon	12	1345EST			0	0	?	0	Thunderstorm Winds
	Tree	s downed alor	ng with si	mall hail.					
Worcester	12	1430EST			0	0	?	0	Thunderstorm Winds
		ge trees were b itywide.	lown dow	n on two s	streets.	Power of	outages	affecte	d up to 5,000 electric customers
Essex County Merrimack	12	1442EST			0	0	?	0	Thunderstorm Winds
	Seve	eral trees were	downed.	,					
Middlesex County Natick Sherborn	12	1515EST			0	0	3	. 0	Thunderstorm Winds
Sheroom	Thu	nderstorm win	ds downe	ed trees in	Natick	and She	erborn	•	
Wayland	12	1519EST	*		0	0	?	0	Thunderstorm Winds
	In W	Vayland, thund	lerstorm v	winds dow	ned tre	es.		*	
Norfolk County Bellingham	12	1519EST			0	0	3	0	Thunderstorm Winds
	Seve	eral trees were	downed	by thunde	rstorm	winds.			••
Middlesex County Framingham	12	1520EST			0	0	3	0	Thunderstorm Winds
	A w	indow was blo	own out o	of an apart	ment co	omplex.			
Norfolk County Westwood	12	1526EST			0	0	5	0.	Thunderstorm Winds (G60)
	Tree	s were downe	d and a re	oof blown	off a b	uilding	lı.		·.
Norwood	12	1527EST			0	0	?	0	Thunderstorm Winds
•	Nun	nerous trees w	ere down	ed blockin	ig few i	oads.			
Middlesex County Hopkinton	12	1530EST			0	0	3	0	Thunderstorm Winds

		Time Local/	Path Length	Path Width	Per	nber of	D	timated amage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Prope	rty Crops	Character of Storm
MASSACHUSETT	'S Co	ont'd							
	One	home was da	maged fro	m downed	l trees.				
Newton Norfolk County	12	1530EST			0	0	?	0	Thunderstorm Winds
Braintree	12	1535EST			0	0 .	?	0	Thunderstorm Winds
	Tree	s were downe	d by thun	derstorm v	winds.				
Quincy	12	1542EST			0	0	3	0	Thunderstorm Winds
	Num	nerous trees w	ere downe	ed by thun	derstor	m wind	s.		
Quincy	12	1542EST			Q	0	?	Ō	Lightning
Quincy Canton	12 12	1542EST 1545EST	•		0	0	0	. 0	Hail (0.75) Thunderstorm Winds
	Seve	ral large trees	were blo	wn down	and one	e autom	obile	was hit.	
Plymouth County		<i>.</i>							
Abington	12	1547EST			0	0, .	?	0	Thunderstorm Winds
	Mass the s A lar	sachusetts duri storms. A per	ing mid- a ak wind g tank was a	nd late-afoust to 58	ternoon mph wa	. Midd as meas	lesex ured a	and Nor it the Bli	Il line moved across eastern folk Counties bore the brunt of ue Hill Observatory in Milton. Dents were reported in the 1.50-
Franklin County Rowe	15	2130EST			0	0	3	0	Lightning
		tning struck a down.	transform	ner on the	non-nu	clear si	de of	the powe	er station causing the facility to
Berkshire County New Marlboro	16	1715EST- 1800EST			0	0	?	0	Flash Flood
	Keve	es Hill Road v	was floode	d and was	hed ou		dina t	a the na	
MOTOGRAM	Roje	3 IIII Road v	vas moodo	u anu was	nou ou	i, accor	umg t	о ше ро	nee emer.
MICHIGAN									
Wayne County Southern Portion	02	0500EST			0	0	0	0	Flash Flood
Segulation of the second	2nd. abov abov for a	Rainfall of 2 e it's flood stage)	2.50 incheage of 7 for by evening it no signi	s fell duri et by late g. This ca ficant pro	ng a 6- mornir used a perty d	hour peng on the few roa	riod o e 2nd ds to l	causing to The ribe closed	the early morning hours of the he Middle River Rouge to rise ver crested at 8.6 feet (1.6 feet l along the river in Hinges Park in the park. By mid morning of
Washtenaw County Ann Arbor	11	1536EST			0	0	0	0	Thunderstorm Winds (G50)
	Ann	Arbor Airpor	t reported	58-mph v	vind gu	sts as tl	ne thu	nderstor	m passed over the airport.
Jackson County Countywide	14	1650EST			0	1	4	0	Thunderstorm Winds (G52)

June 1991

									-	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	D	imated amage rty Crops	Character of Storm	
MICHIGAN Cont	'd									
	and num The of the	U.S. Highwa erous reports area near Par	y 127. A in many ma, on the as also af	trûck wa other areas e west side fected by	s blow s in the of the downer	n over a e county county, ed wires	and the of tre and the and t	e driver es and he area	on I-94, between Airport R sustained injuries. There wires downed by strong winear Grass Lake on the east ring the storm. Approxima	vere nds. side
2 NW to 2.5 NW Pleasant Lake	14	1655EST- 1657EST	1.0	30	0	1	4	0	Tomado (F1)	
	off a over year the t	ss Cooper Ro a barn and ble and many tre old bulldoze tornado and s	ead, and li we a tree of es were two r driver so pun aroun lriver was	fting just to the state of the state of the torm of the torm of the silver, he	before her's two of the grado co r for a	reaching vo-story ground, oming ar distance	Terri frame severa d jum of 20	torial R home. I of whi ped in I feet, b	ake, then moved north-north oad. The tornado lifted the a A mobile home was also tur ch blocked Cooper Road. A his truck. He was then lifted efore being left in the mud we thes himself, and the truck	roof ned 19- I by with
Oceana County Countywide	14	1710EST			0	0	3	0	Thunderstorm Winds	
	Aro	und 10,000 c	ustomers	were withou	out pov	ver due	to mar	ny trees	and power lines being down	1.
Muskegon County Northern Portion	14	1715EST			0	0	4	0	Thunderstorm Winds	
	pow on t	er outage for	10,000 m home caus	ore of Cor sing signifi	nsumer icant da	's Powe amage to	r custo the ro	omers. oof, bre	es and some trees resulting In Whitehall, a large branch aking the windows, cracking c.	fell
Montague	14	1715EST			0	0	3	0	Lightning	
ū	the	ntning stuck a fire out. Dan ne inside.	home in l nage from	Montague, the fire wa	causin is limit	g a fire i	in the a	attic. It althoug	took fire fighters 2 hours to th there was some water dam	put 1age
Tuscola County Fostoria	15	1401EST			0	0	0	0	Hail (1.75)	
	Gol	f ball-size hai	l was repo	orted.						
Sanilac County Brown City	15	1420EST			0	0	0	0	Thunderstorm Winds	
-	Stro	ng thundersto	rm winds	blew trees	s down	١.				
Kalamazoo County	15 15	1430EST 1500EST			0	 0 0	3	0	Thunderstorm Winds Thunderstorm Winds	
e e	Nun			lines were	blown	•	_	e north	east, east, and south-central p	arts
Gratiot County St. Louis	15	1530EST			0	0	3	0	Thunderstorm Winds (G5:	2)

Wind gusts to 60 mph blew downed many power lines and several trees.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons	Da	mated mage	Character of Storm
LOUGHON	Date	- CHATTOUT C	(Miles)	(Tures)	Tunco	Injured	Troper	у сторь	Character of Storm
MICHIGAN Cont'e	ď								
Calhoun County Athens	15	1605EST			0	0	3	· ₍ 0	Thunderstorm Winds (G52)
	Wind	gusts to 60 i	nph blew	down ma	ny pow	er lines	and so	everal tr	rees.
Southeastern	15	1610EST			0	0	4	0	Thunderstorm Winds (G61)
Portion	Hom day b a lar	er, and Tekon because of fall ge tree that fe a caved-in wal	sha report en trees. Il on the	ted the mo The home side of the	st dama of the home	age. In . former . Damas	Albion preside ge incl	, five strent of A uded a c	r lines. The towns of Albion, reets were still blocked the next lbion College was damaged by crushed roof, broken windows, Wind gusts were reported to
Shiawasse County	15	1615EST- 1645EST			0	0	0	0	Thunderstorm Winds
•	Stron	g thunderstor	m winds	blew down	trees	in many	section	ons of th	ne county.
Clinton County St. Johns	15	1615EST			0	0	0	0	Hail (0.75) Thunderstorm Winds (G52)
	Stron 0.75-	ig thunderstor	m wind go hail fell	usts, to 60 in St. John	mph, t as duri	olew dov	vn mar storm.	ıy powe	r lines and several trees. Large
Cass County 2 E Dowagaic to 3 W Marcellus	15	1615EST			0	0	0	0	Thunderstorm Winds
	Stron	g thunderstor	m winds	blew a few	/ large	trees do	own.		
Clinton County Elsie	15	1640EST	·		0	0	0	0	Thunderstorm Winds (G52)
	There	e were wind g	usts to 60	mph, as	the sto	rm mov	ed thro	ough Els	sie.
Ingham County Leslie	15	1645EST		: .	0	0	4	0	Thunderstorm Winds
	over in the	the Leslie are living room	a. The mat the time	nobile hom e, but were	e had not in	the roof njured.	Crush A stor	ed in by age buil	s during the storm as it passed a tree. A family of four was ding in the area also had heavy be bolted shut at the time.
Jackson County Parma, Hanover, and Sprint Arbor	15	1650EST 1700EST			0	0	5	0	Thunderstorm Winds
	was of sever Sprin teleco	on the west side al old barns was a long barns of the control of t	e of of the vere destr ege. This s business	e county. royed. In s put radio off the ai	Hundre Spring stations r. The	eds of to Arbor, on WSA tower	ees we a 360 E/KTO lost co	re blowfoot ra -G, Col st the co	ower lines. Most of the damage in down, at least one home, and dio tower was blown down at ldwater Cable Company and a bllege \$60,000. About 33,000 form in southern Michigan.
Genesse County Flint Southern Portion	15	1655EST- 1705EST	•		0	0	4 .	0	Thunderstorm Winds (G66)

Number of Estimated
Persons Damage
Killed Injured Property Crops Character of Storm

Path Width (Yards)

Path Length (Miles)

Time Local/ Standard

Date

Location

	* 7				1.1 1		
	The Ther of the over	winds, gusting to 76 re were several other r re airport was also unr	mph at Flint's B eports of damage oofed; a garage w rts of Genesse C	ishop . during vas blo ounty.	Airport g this ti wn dow	unroot me: the n 2 mil	a sections of southwestern Flint fed one of the hangar buildings to Dairy Queen, about 1 mile eas es south; trees were blown down was one of these areas to report
Branch County Coldwater	15	1655EST	0	0	4	0	Thunderstorm Winds (G52)
	auto	ng thunderstorm wind mobiles were damage out power until the ne	d by falling trees	nph, b	lew dov imbs.	vn man As a re	y trees and power lines. Severa esult, 5,000 customers were lef
Lapeer County	15	1710EST- 1745EST	0	0	4	0	Thunderstorm Winds
	Man was	y trees were blown do blown down as the se	wn in scattered ar	reas of ns mov	the cou ed thro	nty. In ugh the	Lapeer, a 40-foot x 80-foot barrarea.
Livingston County	15	1715EST	0	0	3	0 -	Thunderstorm Winds
	Win	d gusts to 60 mph ble	w down several t	rees an	d powe	r lines.	
Hillsdale County Bankers and Osseo	15	1718EST	0	0	3	0	Thunderstorm Winds
	10	1/10031	U	U	,	U	Thunderstorm whites
	Tree had and	s and power lines wer to cancel its first conce	e downed by stro ert in 17 years. T n Osseo, a brancl	ng thu he win a fell o	ndersto d was s n a pick	rm wind o strong up truc	ds. In Bankers, the Gospel Bar to the true that it is to be a large apple tree down to crushing the roof and breaking
	Tree had and	s and power lines wer to cancel its first conce bent a flagpole over.	e downed by stro ert in 17 years. T n Osseo, a brancl	ng thu he win a fell o	ndersto d was s n a pick	rm wind o strong up truc	ds. In Bankers, the Gospel Bar to the true that it is to be a large apple tree down to crushing the roof and breaking
Washtenaw County	Tree had and the v	s and power lines wer to cancel its first conce bent a flagpole over. I windows. About 2,00	e downed by stro ert in 17 years. To n Osseo, a branch o customers acro- o caused many tre had heaviest dam	ong thu he win in fell o ss Hills	ndersto id was s n a pick sdale Co	rm wind o strong up true ounty w	ds. In Bankers, the Gospel Bar is it blew a large apple tree down k, crushing the roof and breakin ere without power. Thunderstorm Winds G52)
Washtenaw County Countywide	Tree had and the v	s and power lines wer to cancel its first conce bent a flagpole over. I windows. About 2,00 1730EST d gusts up to 60 mph lsea, and Saline areas	e downed by stro ert in 17 years. To n Osseo, a branch o customers acro- o caused many tre had heaviest dam	ong thu he win in fell o ss Hills	ndersto id was s n a pick sdale Co	rm wind o strong up true ounty w	ds. In Bankers, the Gospel Bar is it blew a large apple tree down k, crushing the roof and breakin ere without power. Thunderstorm Winds G52)
Washtenaw County Countywide Wayne County	Tree had and the vinches side 15 Winches side 15 Will blew car,	s and power lines were to cancel its first conceptent a flagpole over. I windows. About 2,00 1730EST d gusts up to 60 mph lsea, and Saline areas for town, no injuries with 1739EST ow Run Airport had a down quite a few larger to cancel	e downed by street in 17 years. To Osseo, a branch of customers acrown account of the caused many treet had heaviest damager reported. Owing gust to 60 new trees, one of what was not hurt, but the caused many treet in the caused many treet.	ong thu he win he fell on ss Hill: 0 ees and age. I 0 mph as thich fel t his D	ndersto d was s n a pick sdale Co 3 power n Ann 3 the thun ll on a V	o strong up truck ounty w O lines to Arbor, a	ds. In Bankers, the Gospel Bank it blew a large apple tree down k, crushing the roof and breaking the without power. Thunderstorm Winds G52) Thunderstorm The Ann Arbora tree fell on a home in the west
Washtenaw County Countywide Wayne County Ypsilanti	Tree had and the vinches side 15 Winches side 15 Will blew car,	s and power lines were to cancel its first conceptent a flagpole over. I windows. About 2,00 1730EST d gusts up to 60 mph lsea, and Saline areas for town, no injuries with him inside. He	e downed by street in 17 years. To Osseo, a branch of customers acrown account of the caused many treet had heaviest damager reported. Owing gust to 60 new trees, one of what was not hurt, but the caused many treet in the caused many treet.	ong thu he win he fell on ss Hill: 0 ees and age. I 0 mph as thich fel t his D	ndersto d was s n a pick sdale Co 3 power n Ann 3 the thun ll on a V	o strong up truck ounty w O lines to Arbor, a	ds. In Bankers, the Gospel Barg it blew a large apple tree down k, crushing the roof and breaking the roof and breaking the without power. Thunderstorm Winds G52) To come down. The Ann Arbora tree fell on a home in the west tree fell on a home in the west tree fell on the winds (G52) Thunderstorm Winds (G52) Thunderstorm Winds (G52) Thunderstorm Winds (G52)
Washtenaw County Countywide Wayne County Ypsilanti Sanilac County	Tree had and the visite	s and power lines were to cancel its first conceptent a flagpole over. I windows. About 2,00 1730EST d gusts up to 60 mph Isea, and Saline areas of town, no injuries with him inside. He is were blown down, significant to the same of	e downed by stroet in 17 years. To Osseo, a branch of customers across a caused many treshad heaviest dama were reported. Owind gust to 60 note trees, one of what was not hurt, but ome fell across a one of which is the contract of the co	ong thu he win he fell on ss Hill: 0 ees and age. I 0 nph as hich fel t his D few ro	ndersto d was s n a pick sdale Co 3 power n Ann 3 the thur ll on a V Oodge Co oads.	o strong up truck ounty we out	ds. In Bankers, the Gospel Barg it blew a large apple tree down k, crushing the roof and breaking the roof and breaking the roof and breaking the without power. Thunderstorm Winds G52) Thunderstorm Winds in the west tree fell on a home in the west tree fell on the winds (G52) Thunderstorm Winds (G52) The passed by These strong winds tate University medical student the red damage to the roof. Man
Washtenaw County Countywide Wayne County Ypsilanti Sanilac County	Tree had and the visite	s and power lines were to cancel its first conceptent a flagpole over. I windows. About 2,00 1730EST d gusts up to 60 mph Isea, and Saline areas of town, no injuries with him inside. He is were blown down, significant to the same of	e downed by stroet in 17 years. To Osseo, a branch of customers across a caused many treshad heaviest dama were reported. Owind gust to 60 note trees, one of what was not hurt, but ome fell across a one of which is the contract of the co	ong thu he win he fell on ss Hill: 0 ees and age. I 0 nph as hich fel t his D few ro	ndersto d was s n a pick sdale Co 3 power n Ann 3 the thur ll on a V Oodge Co oads.	o strong up truck ounty we out	ds. In Bankers, the Gospel Barg it blew a large apple tree down k, crushing the roof and breaking the roof and breaking the roof and breaking the without power. Thunderstorm Winds G52) Thunderstorm Winds (G52) Thunderstorm Winds (G53) Thunderstorm Winds (G53)

	Time Path Path Local/ Length Width		Number of Persons Killed Injured I		Estimated Damage I Property Crops				
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Prope	rty Crops	Character of Storm
MICHIGAN Cont'e	i						•		
Monroe County Countywide	15	1900EST			0	0	3	0	Thunderstorm Winds
	all a	ral dispatcher, reas of the co age to homes,	unty repo	rting falle	n trees	, limbs,	, and	power li	wamped with phone calls from nes. There were no reports of
Keweenaw County Gay	27	0525EST			0	0	0	0	Thunderstorm Winds
	Stron	ng thunderstor	m winds	blew down	n many	large t	rees tl	nat were	up to 18 inches in diameter.
Houghton County Houghton	27	0528EST			0	0	0	0	Thunderstorm Winds (G52)
	Stror	ng thunderstor	m winds	gusted to	60 mph	at Hou	ıghton	's Hance	ock Airport.
Alger County Grand Marais	27	0715EST			0	0	0	0	Hail (0.75)
Luce County Deer Park	27	0745EST			0	0	3	0	Thunderstorm Winds
	Musl The	kallonge Lake winds blew do	State Parl	k reported trees and	small l branch	nail, hea nes that	ivy rai damag	n, and v	ery strong thunderstorm winds. cars.
Chippewa County Eckerman	27	0750EST			0	0	3	0	Hail (0.75)
	Larg	e hail did sub	stantial da	mage to t	he roof	and ho	od of	a car.	•
Houghton County Sidnaw	27	2015EST			0	0	0	0	Hail (1.00)
	Quar	ter-size hail w	vas reporte	ed at Sidn	aw.				
Iron County Iron River	27	2135EST			0	0	4	0	Hail (1.75)
	Golf	ball-size hail	damaged	many cars	and a	number	of ho	mes.	
Iron River	27	2157EST			0	0	4	0	Thunderstorm Winds
	wind incur sever along	s. This cause red minor to r al roads block U.S. Highwa	ed major proderate de ked by de ay 2. The	power out lamage fro bris. Mos West Iron	age in more to the Count	the Iron breaking damag y Waste	n Rive ng off ge was ewater	er area. or uproof between Treatme	n down by strong thunderstorm Several homes and businesses ted by high winds. There were I Iron River and Crystal Falls ont Plant, near Caspian reported se significant flooding.
MINNESOTA									
Martin County Fairmont	01	0200CST			0	0	?	0	Lightning
		tning struck th ng extensive o		a three-sto	ry apar	tment b	uildinį	g. The co	eiling of an apartment exploded

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	D	timated amage erty Crops	Character of Storm
MINNESOTA Con	ıt'd								ar e
Benton County Foley	02	1130CST- 1300CST			0	0	?	?	Flash Flood
	quic		ney Brook	flooding	part of	Highw	ay 23.	At least	ess than 3 hours. Water rose three residences near the river, amage.
Murray, Nobles, Martin, Blue Earth, Faribault, and	03 04	1000CST- 0900CST			0	1	?	?	Flash Flood
Cottonwood Counties	until in the south than inch The road Coursout	l late morning ne southwest a hern Murray, 6 inches. Th es fell. Unoff heavy amount ls, and highwa nty, after heav	on the 4th nd south- northern e highest icial report s of water ys. Twel yy rains wood Count	n. The he central sec Nobles, a confirmed rts of raint overloade ve cars of ashed out y cut a ch	aviest stions. Ind nor value fall up ed loca a train a portion annel s	rainfall Five a thern Fi occurre to 13 in l city se a deraile ion of the	occurreas ir aribau d at A ches ver syed nor detracted with the contracted to the co	red mainly souther lt Counting the counting	ed through the night and lasted y south of the Minnesota River in Blue Earth, southern Martin, es, experienced rainfall greater Blue Earth County where 9.85 eived in the vicinity of Amboy. looded many basements, county unite Falls, in Yellow Medicine I waters from a nearby creek in ghway 7 near Westbrook. One t.
Redwood County Wabasso	03	2125CST			0	0	?	?	Thunderstorm Winds Hail
		ng thundersto d-driven hail b							s scattering its contents. The mes.
Le Sueur County Le Sueur	04	0230CST			0	0	?	?	Thunderstorm Winds
	Seve	eral large trees	were blo	wn down	due to	strong	winds		
Polk County 1 E McIntosh	09	0100CST			0	0	?	0	Lightning
	Ligh	ntning struck a	home car	using exte	nsive f	fire dam	age.		
1 N Fosston	09	0110CST			0	0	?	0	Lightning
	Ligh dam		a home b	lowing a	hole i	n the ro	of 8	inches w	vide, and caused extensive fire
Lac Qui Parle County Madison	09	1325CST			0	0	?	?	Thunderstorm Winds Hail (1.00)
•	Seve	eral large trees	were blo	wn down	due to	strong	winds	•	
Swift County Murdock Kerkoven	09	1408CST	٠.	•	0	0	?	?	Thunderstorm Winds Hail (0.75)
	Stro: dow		rms rippe	d the sidir	ng fron	n a grai	n elev	ator and	several large trees were blown

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	imated amage ty Crops	Character of Storm
MINNESOTA Con	ıt'd								e e e e e e e e e e e e e e e e e e e
Clay County 1 S Hitterdahl	09	1435CST	Short	Narrow	0	0	?	?	Tornado (F0)
	A sn	nall tornado bi	riefly touc	hed down	and de	estroyed	l a pol	e barn.	
Koochiching County 10 SW Littefork	09	1445CST			0	0	0	?	Hail (0.75)
Clay County 13 S Hawley Pecker County	09	1457CST			0	0	0	?	Hail (0.75)
Becker County Lake Park	09	1507CST	Short	Narrow	0	0	?	?	Tornado (F1)
	A to		he rural L	ake Park	area tw	isting t	rees ar	nd rippir	ng the roof from a 62-foot-long
Koochiching County International Falls	09	1510CST			0	0	?	?	Thunderstorm Winds Hail (0.75)
		ng thunderstor downed.	m winds to	oppled a si	gn nea	r a store	e, and	several l	large trees and power lines were
Clay County 2 W Rollag	09	1530CST			0	0	0	?	Thunderstorm Winds
	A nu	imber of large	trees and	branches	were b	lown d	own.		
7 NE Barnesville	09	1540CST			0	0	?	?	Thunderstorm Winds
	Stron	ng winds blew	the doors	from a fa	ırm bu	ilding.			
Cass County Cass Lake	09	1540CST			0	0	0	?	Thunderstorm Winds
	Seve	ral large trees	blown do	wn due to	strong	winds.			
Becker County 1 N Cormorant Itasca County	09	1548CST			0	0	?	?	Hail (1.00)
Alvwood	09	1555CST			0	0	0	?	Thunderstorm Winds
	In A	lvwood, sever	al large tr	ees blown	down	due to	strong	winds.	,
Squaw Lake	09	1618CST			0	0	0	?	Thunderstorm Winds
	In So	juaw Lake, se	veral large	e trees blo	wn do	wn due	to stro	ong wind	is.
Otter Tail County 1 NW Underwood	09	1620CST			0	0	?	?	Thunderstorm Winds
		ng thunderstorn a mobile hom		prooted or	· sheare	d the to	ps off	of sever	al trees and the roof was ripped
Aitkin County Malmo	09	1640CST			0	0	0	?	Hail (0.75)
Itasca County Marcell	09	1648CST	•		0	0	0	?	Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dan	mated mage y Crops	Character of Storm
MINNESOTA Con	t'd								
	Seve	eral large trees	were blo	wn down	and blo	cked H	ighway	38 for	a time.
St. Louis County Hibbing	09	1700CST			0	0	3	0	Thunderstorm Winds
	Stro	ng thundersto	rm winds	destroyed	a greei	nhouse o	ausing	\$4000	to \$5000 damage.
Cook County	09	1725CST	Short	Narrow	0	0	0	?	Tomado (F0)
	A to Trai	rnado touched l and Trout L	d down br ake Road.	iefly in th The torns	e Boun ido upi	dary Wooted a	aters C nd shea	anoe A red the	rea near the corner of Gunflint tops from several pine trees.
Hennepin County 0.5 W St.	09	2240CST			0	0	?	?	Hail (1.75)
Bonifacious 3 W Maple Plain	09	2259CST			0	0	?	?	Thunderstorm Winds
	Stro	ng thundersto	rm winds	destroyed	a pole	barn.			
Roseau County 7 N Roseau	12	1935CST			0	0	?	.?	Hail (1.00)
Polk County Gentily Record County	12	1945CST			0	0.	?	?	Hail (1.75)
Roseau County 2 NE Warroad	12	2000CST			0	0	0	0	Waterspout
	A fi	ınnel cloud fo hed down on	ormed nor the lake b	theast of efore it lif	Warroa ted bac	d over k into t	the Lai	ke of the	ne Woods. The funnel briefly dissipated.
Salol	12	2000CST			0	0	?	?	Hail (0.75)
	Man	y area roads	were repor	rted to be	white v	vith hai	l.		
Polk County Maple Bay	12	2015CST			0	0	?	?	Hail (0.75)
Roseau County 7 S to 11 SE Roseau	12	2023CST			0	0	?	?	Hail (1.75)
·		f ball-size hai mobiles.	l fell in a	4-mile-w	ide sw	ath sou	th of F	loseau,	causing significant damage to
Red Lake County Red Lake Falls	12	2045CST			0	0	?	?	Thunderstorm Winds (G56)
	Thu	nderstorm wir	ds gusted	to 64 mp	h in Re	d Lake	Falls.		
Pennington County 10 W Thief River Falls	12	2100CST			0	0	?	?	Hail (0.75)
Rice County 2 SE Hazelwood	13	0400CST			0	0	?	?	Thunderstorm Winds
•	Stro	ng thundersto	rm winds	downed fi	ve larg	e trees	and cau	ised dai	nage to a home and garage.
Carver County Chaska	13	1207CST			1	.5	0	0	Lightning

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Da	mated mage ty Crops	Character of Storm
MINNESOTA Con	t'd								
	unde Four	r a tree at the	Hazeltine ved minor	Golf Cou	rse. L	.ightnin	g struc	k the tr	ge from a midday thunderstorm ee and spread to the spectators. st. One individual died and the
Washington County Lake Elmo Stillwater	13 13	1215CST 1235CST			0	0	?	?	Thunderstorm Winds (G50) Thunderstorm Winds Hail (1.75)
	Still	nderstorms wit water vicinities ed some street	s. A few	large trees	strong s were	winds, downed	and to l and r	rrential ainfall 1	rains pelted the Lake Elmo and up to 2 inches in about an hour
Anoka County Anoka	13	1242CST			0	0	?	?	Thunderstorm Winds
	Stro	ng thunderstor	m winds	downed se	veral l	arge tre	es and	power	lines.
Carlton County Mahtowa	13	1500CST			0	0	5	0	Lightning
	Ligh	tning struck a	home and	l caused it	to bu	n to the	groun	d.	
Kittson County 1 E Kennedy	13	1745CST			0	0	4	0	Thunderstorm Winds
	Stron	ng thunderstor	m winds o	destroyed	a hang	ar and d	lamage	d a plai	ne at a local airstrip.
Marshall County 6 NE Warren	13	1818CST	Short	Narrow	0	0	?	?	Tornado (F0)
	Seve	ral trees were	uprooted	and a num	ber of	buildin	gs rece	ived da	mage.
Red Lake County 11 NW Red River	13	1830CST			0	0	?	?	Thunderstorm Winds
Falls	Stror	ig thunderstori	m winds o	destroyed s	several	outbuil	dings o	on a rui	ral farmstead.
Roseau County 8 SE Roseau 1.5 S Roseau	13 13	1950CST 2000CST			0	0	?	?	Hail (0.75) Hail (0.75)
Clay County 2 E Moorhead	13	2100CST			0	0	?	?	Thunderstorm Winds
Swift County Benson	15	0350CST			0	0	0	?	Hail (0.88)
Lac Qui Parle 5 S Madison Dawson	18 18	0722CST 0740CST			0	0	?	?	Hail (0.75) Hail (0.75)
Benton County Sauk Rapids Meeker County	18	0800CST			0	0	?	?	Hail (2.50)
1 S Grove City 1 W Litchfield	18 18	0810CST 0814CST			0	0	?	?	Hail (2.75) Hail (2.75)

Baseball-size hail covered the ground.

									June 1991			
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	umber of ersons d Injured	I	stimated Damage erty Crops	Character of Storm			
MINNESOTA Co	nt'd											
3 SW Darwin	18	0825CST- 0847CST			0	0	?	?	Hail (2.50)			
7 S to 17 SE Litchfield	18	0830CST- 0837CST			0	0	?	?	Hail (2.50)			
4 N Grove City	18	0845CST	Short	Narrow	ŏ	ŏ	ò	ż	Tornado (F0)			
	acro mile dam	ss central port s long occurre	tions of the d. Hail si rops and	e county. ize ranged property.	A nea anywh	rly continere from	nuous tenni	s swath of is ball- to	line and moved east at 30 mph hail about 2 miles wide and 20 baseball-size, and caused major down briefly near Grove City			
Wright County Cokato	18	0856CST			0	0	?	?	Hail (0.75)			
McLeod County	_				_				, ,			
Winstead	18	0908CST	•		0	0	?	?	Thunderstorm Winds (G54)			
	Thu	nderstorm wir	ids gusted	to 62 mp	h in V	Vinstead	down	ing sever	al large trees.			
Wright County Montrose Hennepin County	18 18	0929CST 0936CST			0	0	?	?	Hail (0.75) Hail (1.75)			
Rockford Lac Qui Parle	19	1645CST			0	0	?	?	Thunderstorm Winds			
7 S Dawson	Stro	Strong winds tore the roof from a metal building and uprooted several trees.										
Freeborn County		·	•				•					
Gordonsville Myrtle	19	1700CST			0	0	?	?	Hail (1.75)			
N.J.LO		ge hail covered crops.	the groun	nd nearly a	a foot	deep nea	r Myr	tle causin	g extensive damage to property			
Mower County Oakland Lyon County	19	1748CST			0	0	?	?	Hail (1.50)			
Green Valley	19	1815CST			0	0	?	?	Hail (1.00)			
Douglas County Evansville	19	1850CST			0	0	?	0	Lightning			
	Ligh Man	ntning struck a ny household a	a televisio appliances	on antenna were des	on a l troyed	home and, and wa	d trav ter pi	eled into pes were	the home along the lead wire. welded together.			
Brown County Sleepy Eye Blue Earth County	19	2035CST			0	0	?	?	Hail (1.75)			
Amboy Good Thunder	19 19	2110CST 2135CST			0	0	?	? ?	Hail (1.75) Hail (1.75)			
Stearns County 1 W St Cloud	20	1245CST			0	0	?	0	Lightning			
	Ligh	ntning struck a	commer	cial buildi	ng ign	iting a fi	ire an	d causing	extensive damage.			
Pipestone County Pipestone	20	2200CST			0	0	?	?	Thunderstorm Winds			
	Seve wind		s were do	wned and	minor	propert	y dam	nage was	caused by strong thunderstorm			

June 1991

Lagetian	Data	Time Local/ Standard	Path Length	Path Width (Yards)	Per	nber of sons	D	timated amage	Character of Storm
Location	Date	Standard	(Miles)	(Tarus)	Killed	injured	Proper	ny Crops	Character of Storm
MINNESOTA Con	t'd								
Redwood County Lamberton	20	2305CST			0	0	?	?	Thunderstorm Winds
		ng thunderstor trees.	m downbi	ırst winds	blew v	vindows	out o	of two au	tomobiles, and downed several
Clay County 1 E Dilworth	25	0805CST			v 0	0	?	?	Thunderstorm Winds (G55) Hail (0.75)
	Thur	nderstorm win	ds gusted	to 63 mpl	near]	Dilwort	h.		
Averill Kittson County	25	0815CST			0	0	?	?	Hail (1.25)
1 N Hallock Koochiching County	25	0955CST			0	0	?	?	Hail (0.75)
10 CW Littlefork	25	1410CST			0	0	?	?	Hail (0.75)
Lake of the Woods Cou Baudette	25	1430CST			0	0	?	?	Thunderstorm Winds
	Seve	ral large trees	and powe	r lines we	re dow	med due	e to st	rong thu	nderstorm winds.
Koochiching County Southern Shore of Nett Lake	25	1510CST			0	0	?	?	Hail (0.75)
Marshall County Oslo	26	0035CST			0	0	?	?	Thunderstorm Winds
	Num	erous trees we	ere downe	d and win	dows b	olown o	ut of 1	many are	a homes.
Alvarado	26	0050CST			0	0	?	?	Thunderstorm Winds
	of gr	g thunderstor ain to pour or trong wind.	m winds f nto the gro	orced a nu ound. Wi	ımber o ndows	of grain on the	eleva elevate	tor chute or buildi	es open causing 27,000 bushels ng were also blown out due to
3.5 W to 5.9 N Warren	26	0105CST- 0125CST	5.9	12	0	0	?	?	Tornado (F1)
10 NE Warren	26	0115CST- 0135CST	10	15	0	0	?	?	Tornado (F1)
Polk County Crookston	26	0130CST			0	0	.?	. ?	Thunderstorm Winds
	Stron	ig winds dama	iged a wal	l and a po	ortion o	of a root	f of a	home, a	nd a metal building.
Marshall County Western Portion	26	0030CST- 0200CST		-	0	0	6	?	Thunderstorm Winds (G82)
						_			

A squall line of severe thunderstorms developed over extreme eastern North Dakota and moved into northwest Minnesota causing widespread wind damage and two tornadoes. About the the western three-quarters of the county, from the Minnesota/North Dakota border to about 10 miles east of Highway 32, received extensive damage. A tornado touched down about 3.5 miles west of Warren and leveled a garage. The tornado moved north-northeast plowing through three farmsteads causing considerable damage to outbuildings, and about a dozen grain bins. The tornado lifted in the vicinity of the town of Luna about 5.5 miles north of Warren along Highway 75. Another tornado developed on the north side of Warren downing at least 150 trees and snapping power lines. The tornado moved northeast and struck a farm about 1.5 miles northeast of Warren and toppled an 80

June 1991

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

MINNESOTA Cont'd

foot windmill, lifted a shed from its foundation, blew the roof from a silo, and blew windows out of many buildings. The tornado skipped along in a northeast direction and struck a farmsite about 4 miles northeast of Warren blowing the wall from a garage and flattening many large evergreens.

	mov vicio trees	ding and carry red 2 feet off it nity of Radium s. The hardest	ing it abo s foundati i, but not hit areas v	out 1.5 mile on. The too before desi were Warre	es to rnado troyi n, A	the no lifted ag a ho rgyle,	rtheast. about 1 ome, dan and Ster	A gar 1 miles maging ohen wh	farm lifting the roof from a pole age was leveled, and a barn was to the northeast of Warren in the several buildings, and uprooting here winds were clocked in excess in the range of \$2 million.
Roseau County Warroad Central Portion	26 26	0130CST 0200CST-			0	0	?	?	Най (0.75)
Central Portion	20	0215CST			0	0	?	?	Thunderstorm Winds
		ng thunderstor ung.	rm winds	destroyed	sev	eral bu	iildings	in Pop	olar Grove Township, and near
Wannaska Malung	26 26	0235CST 0250CST	Short Short	Narrow Narrow	0	0	0	?	Tornado (F0) Tornado (F0)
	Two dam		oes moved	through t	he V	Vannas	ka and	Malung	areas causing considerable tree
Stevens County 1 S Alberta	27	0015CST			0	0	?	?	Thunderstorm Winds
	A ba	arn was leveled	d and an e	empty grain	ı bin	was b	lown ov	er.	·
Pope County Glenwood	27	0035CST			0	0	?	?	Thunderstorm Winds
•	Seve	eral large trees	were blov	wn down i	n Gle	nwood	l.		
Stearns County Melrose	27	0043CST			0	0	?	?	Thunderstorm Winds
	A la wind		destroyed	and severa	l lar	ge trees	s were 1	blown d	lown due to strong thunderstorm
Douglas County Alexandria Carlos	27	0045CST			0	0	?	?	Thunderstorm Winds
Callos		ng thunderstor ked traffic for			seve	ral tree	es and p	ower lir	nes. Fallen trees on the highway
Stearns County Albany	27	0059CST			0	0	?	?	Thunderstorm Winds
Holdingford	Stro	ng winds dow	ned large	trees and p	owe	lines.			
Todd County Browerville Engle Rend	27	0100CST	•	,	0	0	?	?	Thunderstorm Winds
Eagle Bend		umber of trees ie areas, and a							ng Prairie Eagle Bend and Long

		Time Local/	Path Length	Path Width	Per	nber of	Da	mated mage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	у Сгора	Character of Storm
MINNESOTA Con	t'd								
Crow Wing County Baxter Brainerd St. Mathias	27	0015CST- 0135CST			0	0	?	?	Thunderstorm Winds (G65)
St. Mamas	area.	Several roofs	were lifte	ed from ho	mes, g	arages d	estrove	ed, and	nty from Baxter to the Brainerd mobile homes flipped onto their ower lines near St. Mathias.
Morrison County Little Falls Randall	27	0115CST			0	0	?	?	Thunderstorm Winds (G69)
-		s and power linittle Falls.	nes were l	olown dow	n due	to stron	g wind	s. Aw	ind gust was clocked at 79 mph
Southern Aitkin and Mille Lacs Counties Onamia	27	0200CST			0	2	5	?	Thunderstorm Winds
Isle Malmo	club numl	lost part of it ber of trees we:	s roof ne re blown (ar Malmo down. Tw	, a ho o smal	me was l campe	moved r trailer	from s	erable wind damage. A supper its foundation near Isle, and a tipped onto their sides; injuring a southern Aitkin County.
Carlton County Cloquet Willow River	27	0220CST			0	0	?	?	Thunderstorm Winds
-	Thun were	derstorm wind blown down,	is blew the and part	ne roof fro of the roo	m a sh f from	ed and a buldi	tossed ng was	it 50 fe torn of	et near Cloquet. Several trees ff near Willow River.
Stevens County Morris Traverse County	28	0630CST			0	0	?	?	Hail (1.75)
Browns Valley Wheaton	28	0830CST			0	0	?	?	Thunderstorm Winds
	onto	dozen trees w its side and mo ed onto its sid	oved sever	ral feet, a :	pped i 60 foot	n half n radio to	ear Brower w	owns V as blow	alley. A grain bin was blown n over, and a mobile home was
Grant County Hoffman	28	0934CST			0	0	?	?	Thunderstorm Winds
	Seve	ral trees were	blown do	wn and po	wer w	as out i	n Hoffi	man.	
Wadena County 2 N Verndale	28	0935CST			0	0	?	?	Thunderstorm Winds
	Four	large trees we	ere snappe	d in half.					
Douglas County Alexandria	28	0939CST			0	0	?	?	Thunderstorm Winds (G72)
		derstorm wind also downed.	ls gusted (to 83 mph	at the	Alexand	Iria air	port. N	fumerous trees and power lines
Clay County Barnesville	28	1600CST			0	0	?	?	Thunderstorm Winds
	Stron powe	g thunderstori r lines, and da	n winds t amaged se	ipped an everal build	empty lings.	tractor	semi-tr	ailer, u	prooted several trees, downed

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dar	mated mage y Crops	Character of Storm
								-	
MINNESOTA Co	nt'd								
Becker County Detroit Lakes	28	1640CST			0	0	?	. ?	Thunderstorm Winds
	A nu	imber of shed	s were da	maged due	to str	ong thu	ndersto	rm win	ds.
Otter Tail County Pelican Rapids 5 E Pelican Rapids	28 28	1648CST 1659CST			0	0	?	?	Hail (1.75) Hail (1.00)
15 SE Pelican Rapids	28	1718CST			0 .	0	?	?	Hail (3.00)
Clearwater County 7 S Bagley	28	1745CST			0	0	?	?	Thunderstorm Winds
	Pow	er lines were	downed a	nd several	large t	rees we	re upro	ooted.	
Beltrami County Bemidji Coop County	28	1758CST			0	0	?	?	Hail (0.75)
Cass County Cass Lake	28	1820CST			0	0	?	?	Thunderstorm Winds
	Stro	ng thunderstor	m winds	blew dow	n sever	al large	trees.		
Todd County Bertha	28	1824CST			0	0	4	?	Hail (1.75) Thunderstorm Winds
	Stroi	ng thunderstor power lines w	m winds ere also b	overturned lown dow	i a mol n.	blie hon	ne caus	ing \$8,	000 damage. Numerous trees
Beltrami County 4 S Turtle River	28	1830CST	•		0	0	?	?	Hail (1.00)
Cass County Pillager Itasca County	28	1855CST			0	0	?	?	Hail (0.75)
30 E Bemidji	28	1900CST			0	0	?	?	Thunderstorm Winds
	Larg of W	e trees were b innibi-goshisl	lown down h Lake.	n and som	e build	ing dam	age wa	s receiv	ed to area resorts in the vicinity
Crow Wing County Baxter	28	1915CST			0	0	?	?	Hail (1.75) Funnel Cloud
	Larg	e hail and a fi	unnel clou	d was obs	served	near Ba	xter.		
Southwest Aitkin and Northern Mille	28	2015CST		•	0	0	?	?	Thunderstorm Winds
Lacs Counties	Stron hom		m winds 1	olew acros	s Mille	Lacs L	ake ca	using co	onsiderable damage to trees and
Kannabec County Northern Portion	28	2030CST			0	0	?	?	Thunderstorm Winds
	Seve	ral large trees	were blo	wn down.					
St. Louis County Duluth	29	0043CST			0	0	0	0	Thunderstorm Winds (G53)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated mage ty Crops	Character of Storm
MINNESOTA Con	ťđ.								
MINITEDOTA CON									
Ramsey County St. Paul	29	1200CST			0	4	0	0	Lightning
	Ligh reviv	tning struck a ed at the scen	golfer on e. Three	the putting other pers	g green sons w	of an a	rea gol injure	f course d.	causing cardiac arrest, but was
St. Paul	29	1230CST			0	2	?	0	Lightning
		tning struck thouters and inju			rtment	and tra	veled	along el	ectrical lines damaging several
Wright County 2 N Delano Hennepin County	30	1636CST			0	0	?	?	Funnel Cloud
Champlin	30	1743CST			0	0	?	?	Thunderstorm Winds
	Seve	ral large trees	and powe	r lines we	re blov	vn dow	n due	to stron	g thunderstorm winds.
Anoka County Anoka	30	1750CST			0	0	?	. ?	Thunderstorm Winds
	Larg	e trees and po	wer lines	were blow	n dow	n due to	o stron	g thund	erstorm winds.
Lincoln County								6	
1 N Lake Benton	30	1830CST			0	0	?	?	Thunderstorm Winds
Chippewa County Montevideo	30	1910CST			0	0	?	?	Thunderstorm Winds (G52)
	Seve	ral trees were	blown do	wn due to	strong	thunde	rstorm	winds.	·*
Grant County									
Erdahl	30	1915CST	Short	10	0	0	?	?	Tomado (F1)
									The tops of several large trees ildings were severely damaged.
Yellow Medicine Coun 3 SE Canby	ty 30	1945CST	Short	5	0	0	?	?	Tornado (F1)
	were	-foot by 65-fo "twisted and t ne 4 inches de	urned like	e pretzels"	. A 3-	inch dia	ımeter	tree lim	s measuring 3 feet in diameter b penetrated the steel siding of e.
Wright County Buffalo	30	2200CST			0	0	6	?	Lightning
	Light level	tning struck a of the two-sto	20-unit ap ory buildii	partment b	uilding ge was	resulti estima	ng in a ted at	a fire an \$1 milli	d severely damaging the upper on.
Hennepin County Corcora Maple Grove	30	2215CST- 2245CST			0	0	?	?	Thunderstorm Winds
Orno	Sever	ral large trees,	and power	er lines we	ere dov	vned du	e to st	rong the	understorm winds.
Greenfield	30	2220CST			0	0	6	?	Thunderstorm Winds (G52)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of rsons Injured	D	timated amage rty Crops	Character of Storm
MINNESOTA Cor	nt'd								
	Hun sust	dreds of trees ained damage.	were do	owned, a was estin	roof w nated \$	as lifted 500,000	l fron	a hom	e, and a barn and garage also
Maple Grove	30	2235CST			0	0	?	?	Thunderstorm Winds (G52)
	Seve	eral trees and	power lin	es were do	owned.				
Wright County Montrose Rockford	30	2238CST			0	0	?	?	Thunderstorm Winds
ROLLIOIU	A g dam		ved from	its founda	ation, a	ınd a tre	e wa	s blown	onto a home causing extensive
Carver County Watertown	30	2240CST- 2250CST			0	0	?	?	Thunderstorm Winds (G52)
	A ni		er lines w	ere blown	•	Ŧ. ·	-	-	area were flattened by the wind.
Hennepin County	1111	unious of powe	7 771105 11	010 010 111	U O L	unu (011			and word named by the wines
Maple Grove	30	2255CST			0	0	?	?	Thunderstorm Winds
	Stro	ng winds seve	rely dama	aged a thre	ee-seaso	on porch	۱.		
Deephaven Minnetonka	30	2310CST			0	0	?	?	Thunderstorm Winds
	Seve	eral large trees	blown d	own by st	rong w	inds.			
Carver County Carver	30	2310CST			0	0	?	?	Thunderstorm Winds
	Nun	nerous power	lines were	e downed:	in Carv	er.			
Hennepin County Bloomington	30	2330CST			0	0	?	?	Thunderstorm Winds
	Nun	nerous trees ar	nd power	lines were	blown	down l	y the	strong v	winds.
Pipestone County Ihlen	30	2335CST			0	0	4	?	Thunderstorm Winds
	A ca dam		destroyed	, and a lar	ge grair	bin wa	s blov	vn 100 fe	et onto its side causing \$11,000
Scott County Northern Portion	30	2335CST			0	0	?	?	Thunderstorm Winds
	Stro	ng thundersto	m winds	downed s	everal 1	large tre	es and	l power	lines.
Hennepin County Minneapolis	30	2335CST			0	0	?	?	Thunderstorm Winds
	A fe	ew power lines	were do	wned due	to stro	ng wind	s.	,	
Ramsey County St. Paul	30	2340CST			0	0	?	?	Thunderstorm Winds
		oximately 44, ned power lin		omers were	e witho	out pow	er for	a time	across the Twin Cities due to

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	Ľ	stimated Damage erty Crops	Character of Storm
MISSISSIPPI									
Leflore County Itta Bena	03	1455CST			0	0	0	0	Hail (0.75)
Prentiss County Booneville	03	1552CST			0	0	0	0	Hail (0.80)
Jasper County 1 N Bay Springs	03	1557CST			0	0	0	0	Hail (1.00)
Itawamba County Fulton	03	1645CST			0	0	0	0	Hail (0.75)
Prentiss County 10 S Booneville	03	1645CST			0	0	2	0	Thunderstorm Winds
	Seve	ral large trees	were up	rooted by	thunde	rstorm v	vinds.		
Monroe County Bigbee	03	1710CST			0	0	3	0	Thunderstorm Winds
	Seve	ral trees and j	power pol	les were bl	lown de	own; on	e hou	ise was d	amaged.
Chickasaw County 4 W Okalona	03	1720CST			0	0	0	0	Funnel Cloud
• .	A fu	nnel cloud wa	as sighted	by the loc	al poli	ce depa	rtmen	t, but it 1	never touched the ground.
Clarke County 4 E Quitman	03	1720CST			0	0	0	O _.	Hail (0.75)
Chickasaw County 4 S Olalona	03	1720CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees and p	power line	es were bl	own do	wn.	•	•• •	
Itawamba County	03	1725CST			0	0	3	0	Thunderstorm Winds
	Tree	s and power l	ines were	blown do	wn thre	oughout	the c	ounty.	
Forrest County 6 SSW Hattiesburg	03	1855CST			0	0	4	0	Thunderstorm Winds
	High down	i winds blew a	portion o	of the roof	off a v	ideo sto	re. S	everal tre	es and power lines were blown
Harrison County Pass Christian		1340CST		•	^	0	^	•	11-11 (0.90)
Warren County	04		•	**	0	0	0	0	Hail (0.80)
Vicksburg Hinds County	04	1345CST			0	0	0	0	Hail (1.75)
Cayuga	04	1405CST		····· '·· O	0	0	2	0	Thunderstorm Winds
n in a	Seve	ral trees were	blown do	own in Cay	yuga.			•	
Pearl River County 1 N Crossroads	04	1525CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	blown do	own.					
Stone County Bond	04	1535CST	4.		0	0	0	0 .	Hail (1.25)
Perry County New Augusta Yazoo County	04 05	1630CST 1235CST		d e e	0	0	0 -	0	Hail (0.75) Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	Ι	stimated Damage erty Crops	Character of Storm
MISSISSIPPI Con	t'd								
		eral trees fell o	on to pow	er lines be	tween	Yazoo (City a	nd Satart	ia knocking out service to some
Rankin County 4 N Luckney	05	1315CST			0	0	0	0	Thunderstorm Winds (G50)
	The	tower at Ross	Barnett 1	Reservoir	record	ed wind	gusts	to 50 km	nots.
Madison County Madison	05	1330CST			0	0	2	0	Thunderstorm Winds
	Seve	eral trees and por damage. A	ower line n airplan	es were blo e was torn	own do from	own alor its tie d	ig Hoy owns	Road. and slam	The roofs of several houses had med into the ground.
Hinds County Clinton	05	1345CST			0	0	4	0	Thunderstorm Winds
		rge pecan tree on in Clinton.		vn over, d	amagii	ng seven	polic	e cars an	d four civilian cars at the police
Jones County									
5 SE Laurel 10 SE Laurel Harrison County	05 05	1402CST 1445CST			0	0 0	0	0 0	Hail (0.80) Hail (0.80)
2 N Kiln	05	1452CST			0	0	2	0	Thunderstorm Winds
	Seve	eral trees were	blown de	own.					
Stone County Wiggins	05	1515CST			0	0	0	0	Hail (0.75)
Perry County New Augusta	05	1520CST		d.	0	0	2	0 .	Thunderstorm Winds
	Seve	eral trees and p	power lin	es were bl	own d	own.			
Harrison County	05	1 <i>540/2</i> 07			^	^	3	•	Thunderstorm Winds
Biloxi	. 05	1540CST			0	0		0	
_	Seve	eral trees were	blown do	own and a	tin ro	of was i	olown	off a bu	liding.
George County Benndale	05	1558CST			0	0	2	0	Thunderstorm Winds
	Seve	eral trees were	blown do	own.					
Bexley	05	1605CST			0	0	4	0	Thunderstorm Winds
	A tr		s partiall	y destroye	ed, an	d numer	ous tr	ees were	blown down by thunderstorm
Jefferson County 2 NE Cannonsburg	05	1700CST			0	0	3	0	Thunderstorm Winds
·	Seve	eral trees and 1	power line	es were do	wned	some o	f the	lines wer	e downed by fallen trees.
Adams County Pine Ridge Pine Ridge	05 05	1710CST 1710CST			0	0	0 2	0	Hail (1.75) Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	imated amage ity Crops	Character of Storm
MISSISSIPPI Cont	'd								
	Seve	ral trees and p	ower line	s were blo	own do	wn.			
Washington County Greenville	05	1748CST			0	0	2	0	Thunderstorm Winds
	Num	erous trees and	l power li	nes were l	olown o	lown ov	er mu	ch of the	city and caused power outages.
Bolivar County Benoit	05	1810CST		· .	0	0	3	0	Thunderstorm Winds
	Thre	e to four miles	s of powe	r lines we	re blov	wn dowi	arou	nd the to	own of Benoit.
Clarke County 3 S Quitman	05	2210CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	blown do	wn on Hi	ghway	45.			
Franklin County Roxie	06	1355CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	blown do	wn.					
Montgomery County Winona	11	1645CST			0	0	4	0	Thunderstorm Winds
	A ste	-	wn off of	a tower a	t a rad	io statio	n. Tv	o satelli	te dishes on a roof were blown
Tishomingo County Pickwick Lake	15	1600CST			1	0	0	0	Lightning
	One	man was killed	d when lig	ghtning st	ruck a	nearby	tree.	(M310)	
Hancock County Waveland	16	1445CST			1	2	0	0	Lightning
	A 13 Wave	year-old girl eland. (F130)	was kille	ed, and tw	vo peo	ple wer	e inju	red, whe	en lightning struck a beach in
Madison County Madison	21	1200CST			0	0	2	0	Thunderstorm Winds
	Six u	tility poles we	re blown	down in	Madiso	n.			
Newton County Newton	21	1335CST			0	0	0	0	Hail (0.75)
Leflore County 2 S Greenwood	22	1440CST	1.0	30	0	0	2	0	Tornado (F0)
	The t	ornado touche	d down b	riefly and	down	ed a cou	ple of	power p	poles.
Carroll County Vaiden	22	1530CST			0	0	2	0	Thunderstorm Winds
	A she	ed was comple	tely demo	lished by	high v	vinds.			
Humphreys County 2 N Belzoni	22	1540CST			0	0	2	0	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	D	imated amage rty Crops	Character of Storm
MISSISSIPPI Cont	'd								
	Seve	ral power lin	es were k	nocked do	wn by	strong v	vinds.		
Sunflower County	22	1700CST			0	0	2	0	Thunderstorm Winds
	Seve in In	ral trees and verness.	power lin	es were bl	own de	own in I	ndiano	ola, and	one large tree was blown down
Jones County 6 NW Laurel	22	1705CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	e blown d	own 6 mil	es nor	hwest of	f Laur	el.	
10 NE Laurel Jasper County	22 22	1715CST 1715CST			0	0	0	0	Hail (0.80) Thunderstorm Winds
	Num	erous trees a	nd power	lines were	repor	ted blow	n dow	n throug	ghout the county.
Hinds County 2 SW Jackson	25	1255CST			0	0	0	0	Hail (0.80)
MISSOURI									
Monroe County 3 S Paris	01	0020CST			0	0	0	0	Flash Flood
	Thur KK v	nderstorms wi was reported	ith very he to be und	eavy rain, j er water.	produc	ed flash	floodi	ng 3 mil	es south of Paris. County Road
Phelps County Rolla	01	0050CST			0	0	0	0	Flash Flood
	A se	ries of thunde	erstorms p	produced f	lash flo	ooding a	nd sor	ne street	flooding in and near Rolla.
Saline County Marshall	01	0430CST- 0915CST			0	0	0	0	Flash Flood
•	near	nderstorms pr Marshall. Fl assable.	oduced 1. lash flood	10 inches ing was of	of rain	n in 45 r I and par	ninute ts of U	s, and 4 U.S. Hig	.27 inches of rain in 3.5 hours hway 65 were under water and
Pulaski County Waynesville	01 02	2230CST- 0030CST			0	0	5	3	Flash Flood
	Occu Many stree	ipants of Leu y cars, signs,	ithan trail fences, a were unde	er court c ind propan rwater and	limbed e tank l dama	into tre s were so ged, incl	es as wept a luding	flood w way cau parts of	ucing extensive flash flooding. raters moved through the area. ising extensive damage. Many Interstate 44. The Roubidoux racuated.
Dunklin County Malden	03	2100CST			0	0	3	0	Thunderstorm Winds
	Thur	nderstorm wir	nd gusts d	owned lar	ge tree	s and da	maged	l a churc	ch on business Highway 25.
Ste. Genevieve County St. Mary's	04	1540CST			0	0	0	0.5	Hail (1.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	D	timated amage rty Crops	Character of Storm
MISSOURI Cont'd									
	Golf	ball-size hail	was repo	rted by a	local r	adio stat	ion al	ong Higl	nway 61.
Newton County Neosho	05	1730CST			0	0	0	0	Flash Flood
	Thu	nderstorms wi	th very h	eavy rain p	produc	ed flash	and u	rban floo	oding in Neosho.
Pemiscot County Steele	11	1759CST			0	0	2	0	Thunderstorm Winds
	The	Steele Police	Departme	nt reporte	d large	trees do	own f	rom thun	derstorm wind gusts in Steele.
Franklin County Lonedell	13	1420CST			0	0	2	0	Thunderstorm Winds
	The	county sherif	s office	reported se	everal	large tre	es do	wned.	
Jefferson County NE De Soto De Soto De Soto Festus	13 13 13	1447CST 1450CST 1500CST			0 0 0	0 0 0	0 2 3	0 0 0	Funnel Cloud Thunderstorm Winds Thunderstorm Winds
Tostus	wind	nnel cloud wa l gusts knocke CST. Repor	ed down l	arge trees	CST b and p	y a spot ower lin	ter no es in	rtheast o De Soto	f De Soto, while thunderstorm and Festus from 1450 CST to
Atchison County Watson	14	1935CST			0	0	4	1	Thunderstorm Winds
	Thur	nderstorm win	d gusts k	nocked do	wn lar	ge trees	and p	ower line	es.
Holt County Oregon	14	1948CST			0	0	4	1	Thunderstorm Winds
	Thur	nderstorm win	d gusts k	nocked do	wn lar	ge trees	and p	ower line	es.
Andrew County	14	2045CST			0	0	4	2	Thunderstorm Winds
	Thur	nderstorm win	d gusts k	nocked do	wn lar	ge trees	and p	ower line	es.
Worth County	14	2050CST			0	0	3	0	Thunderstorm Winds
	Thur	nderstorm win	d gusts k	nocked do	wn lar	ge trees.			
Atchison County Fairfax	14	2230CST			0 .	0	2	0 .	Thunderstorm Winds (G52)
	Thur	nderstorm win	ds gusted	to 60 mpl	h at Fa	uirfax.			
Livingston County 3 E Chillicothe Wheeling	15 15	1437CST 1455CST	0.8	20	0	0	4 3	3	Tornado (F0) Thunderstorm Winds
	Equi	pment on U.S	. Highwa	y 36 at 153	37 CST	. The s	ame si	orm prod	etween King Ranch and Moore duced strong thundestorm wind o inches of rain in 2 hours.
Macon County Bevier	15	1545CST			0	0	0	0	Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	mber of rsons Injured	Da	imated amage rty Crops	Character of Storm
MISSOURI Cont'd									
	Dim	e-size hail fel	l near Bev	vier, but n	o dama	ige was	report	ed.	
Howell County West Plains	15	1555CST			0	0	5	0	Thunderstorm Winds
	Thu Plair	nderstorm wir	nd gusts o	lamaged re prooted an	oofs to	seven er lines	modul knock	ar home	es near the old airport in West
Moniteau County Fortuna	15	1640CST	,	-	0	0	0	0 .	Hail (0.75)
	Thre	e-quarter inch	hail fell	at Fortuna	ı: no d	amage v		orted.	,
Monroe County		4			,				:
Paris Paris	15	1643CST			0	0	0	0	Thunderstorm Winds (G52)
•	Win	d gusts to 60	mph were	reported	in and	around	Paris;	no dam	age was reported.
Oregon County Thomasville	15	1710CST	<i>2</i> '		0	0	0	0	Hail (1.00)
	One-	-inch diameter	hail and	strong wi	nds we	re repor	ted ne	ar Thon	nasville.
Audrain County 7 E Mexico	15	1715CST	0.2	25	0	0	0	2	Tornado (F0)
	The of M	Missouri State Iexico.	Highway	y patrol rej	ported	that a sn	nall to	rnado to	uched down briefly 7 miles east
Pike County		· · · · · · · · · · · · · · · · · · ·						,	
5 SE Curryville	15	1740CST			0	0	3	0	Thunderstorm Winds
	Pow	er lines were	knocked o	lown from	thund	erstorm	wind	gusts.	•
Lincoln County 2 N Troy	15	1815CST			0	0	3	0	Thunderstorm Winds
	Pow	er lines were	knocked (lown from	thund	erstorm	wind	gusts.	
Franklin County					_	_	_	_	
3 S Leslie 5 W Union	15 15	1903CST 1905CST			0 0	0 0	2 .	0 0	Thunderstorm Winds Thunderstorm Winds
Villa Ridge	15	1907CST	•		0	0	0	0 ·	Thunderstorm Winds (G52)
	Larg	ne of thunderst ge trees were rted at Villa I	knocked o	luced stror lown sout	ng and oh of L	damagin eslie an	g wind d west	ls as it n of Uni	noved through Franklin County. on with wind gusts to 60 mph
Jefferson County	•	•	-		٠.				
House Springs	15	1930CST			0	0	3	0	Thunderstorm Winds
	Pow	er lines were	knocked o	lown by th	nunder	storm w	ind gu	sts.	
St. Louis County St. Louis	15	1945CST			0	0	4	0	Thunderstorm Winds
		er lines were i derstorm wind		lown in th	e weste	ern, nor	thern,	and sou	thern portions of the county by

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage sy Crops	Character of Storm
MISSOURI Cont'd									
Clay County Kansas City Airport Kansas City	21 21	1457CST 1500CST			0	0	5 5	0	Thunderstorm Winds (G85) Thunderstorm Winds
•	aircr		iged and	the tower	was e	vacuate	d for a		ansas City (MKC). Numerous time. Numerous reports were
Warren County Wright City	21	1600CST			0	0	4	0	Thunderstorm Winds
	Thur brok	nderstorm wind en off several	l gusts ble feet above	ew a roof of the ground	off a find.	re statio	on in V	right C	City and a number of trees were
Newton County S Joplin	22	1800CST			0	0	0	0	Funnel Cloud
	A fu	nnel cloud wa	s reported	south of	Joplin	by spot	ters an	d a dep	uty sheriff.
Jasper County Webb City	22	1850CST	0.5	30	0	0	0	0	Tomado (F0)
	Airp but r	ort personnel a no damage was	and a pilot reported.	reported a	brief	touchdo	wn of a	a small	tornado near the Joplin Airport,
Newton County S Joplin	22	1923CST			0	0	0	0	Funnel Cloud
	Spot	ters reported a	funnel cl	oud near I	intersta	ite 44 so	outh of	Joplin.	
MONTANA									•
MTZ001, 004	04 08	0800MST- 1700MST			0	0	4	0	Flood
	The onear water	Gallatin, Jeffer Gallatin Gatev r. The Flather	rson, Big I vay had w ad River I	Hole, and ater in its Drainage r	Misson basem eached	uri abov ent. Se flood s	e Tosteveral b	on flood ridges v ut did li	led low lying areas. One home were impassible due to the high attle damage.
Custer County 12 E Miles City	04	1400MST			0	0	0	0	Funnel Clouds
	Thre	e funnel cloud	s were spe	otted 12 m	niles ea	st of M	liles Ci	ty in C	uster County.
Yellowstone County Laurel	05	Evening			0	0	3	0	Lightning
	The 1	public library	and the se	wer treatr	nent pl	lant wer	re struc	k by lig	htning.
MTZ007	05 10	2000MST- 2000MST			0	0	4	0	Flood
	Heavy rains of 2.00 to 3.00 inches on the 5th caused Rock Creek to flood washing out fences and several roads and bridges. Butte Creek also flooded. One home north of Red Lodge flooded on the 7th.								
Garfield County 5 South Jordan	06	1934MST	•		0	0	0	0	Funnel Clouds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	omber of ersons d Injured	Estima Dama Property	age	Character of Storm
			(crosses)	()					
MONTANA Cont'	d								
	Thre	e funnel clou	ds were re	eported 5	miles	south of	Jordan.		
25 West Jordan	07	1830MST	?	?	0	0	0	0	Tornado (F0)
Yellowstone County Billings Billings	07 08	1732MST 1900MST			0	0	3 4	3 0	Hail (1.75) Lightning
	Seve	ral dwellings	were stru	ck by ligh	tning.				
Blaine County Harlem	11	1600MST			0	0	3	3	Thunderstorm Winds
	Tree	s were blown	over and	hayfields	aroun	d Harlem	were fl	attened	d. Power was out for 2 hours.
Stillwater County Columbus	12	1900MST			0	0	3	0	Urban Flood
	Seve	ral businesses	were flo	oded and	3.50 ii	nches of	rain was	repor	ted near the County Shops.
MTZ003	19 23	1200MST- 0800MST			0	0	5	2	Flood
	Rive	rs all flooded	l. Bridge	and road	l dama	ige along	with lo	wland	on, Marias, Birch and Dupuyer I flooding. The flooding was ge on the 19th.
Silver Bow County Butte	19	1700MST			0	0	4	0	Thunderstorm Winds
Dutt		ng winds caus	sed spotty	damage a	-			•	Thomosowini White
Lewis and Clark Coun		-g							
Near Helena	19	1725MST			0	0	4	0	Hail (1.75)
	Wide	espread hail d	amage wa	s reported	east a	and south	least of I	Helena	·
Stillwater County Columbus	19	1715MST			0	0	4	3	Urban Flood
	Seve	ral businesses	had wate	r in them.					
Yellowstone County Laurel	19	1721MST			0	0	5	5	Hail (1.75) Flash Flood Funnel Cloud
	Heav Laur	y rains cause el. Severe ha	ed extensi ail damage	ve floodir was repo	ng in	the north Three fu	nern end	of La	nurel and in farmlands around ere also reported in Laurel.
3 NE Laurel Billings	19 19	1735MST 1810MST	?	?	0	0		0 5	Tornado (F0) Urban Flood Thunderstorm Winds
									spread flooding below the Rim. ages also occurred.
Ballantine	19 .	1815MST	?	?	0	0	0	0	Tornado (F0)

		Time Local/	Path Length	Path Width		nber of		mated mage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Črops	Character of Storm
MONTANA Cont'	đ								
Musselshell County Musselshell	19	1700MST			0	0	5	5	Hail (1.50) Flash Flood
		ere hail damage t time near De		orted arou	nd Del	phia and	d Muss	elshell.	Flash flooding occurred for a
Rosebud County 10 W Forsyth	19 19	1755MST- 1900MST			0	0	4	5	Hail (2.00) Flash Flood
	Seve	ere hail and wa	ter damag	ge occurre	d 10 m	iles wes	st of Fo	orsyth.	
Treasure County Hysham	19	1935MST			0	0	4	5	Flash Flood Hail (2.00)
	Two	inches of rain	fell in a	short tin	e with	6 inche were w	es of washed o	ater in out.	Hysham. Severe hail damage
3 E Hysham	19	2015MST			0.	0	4	4	Flash Flood Thunderstorm Winds
	Heav	y rains caused	Sorpy C	reek to flo	ood.				
Big Horn County Crow Agency	19	1940MST		٠	0	0	3	4	Hail (1.75) Funnel
Rosebud County 5 N Forsyth	19	2015MST	?	?	0	0	0	0	Tornado (F0)
Custer County Miles City	19	2130MST			0	0	3	4	Hail (1.00) Thunderstorm Winds
Lewis and Clark Count 5 NW Helena	y 20	1700MST			0	0	3	0	Hail (1.00)
	Birds	seye, Marysvil	le, Lincol	ln, and ea	stern H	lelena re	eceived	some l	nail damage.
Cascade County Great Falls	20	1755MST			0	0	4	0	Urban Flood
	In 22	2 minutes, 1.14	4 inches o	of rain fell	in We	st Great	t Falls	causing	minor flooding and ponding.
Pondera County Brady Judith Basin County	20	2239MST			0	0	0	0	Thunderstorm Winds (G61)
Stanford	21	1415MST			0	0	3	3	Hail (1.00)
Golden Valley County 2 N Broadview Meagher County	21	1502MST			0	0	4	4	Hail (1.00)
Near White Sulpher Springs	21	1530MST			0	0	0	0	Funnel Cloud
	Two	funnel clouds	were repo	orted near	White	Sulpher	r Sprin	gs.	
Yellowstone County Billings	21	1533MST			0	0	5	3	Hail (0.75) Urban Flood

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

MONTANA Cont'd

MONTAIN COM										
	In 1	hour, 1.20 in	iches o	f rain fell c	ausing s	severe	flooding	g below	the Rim.	
Billings	21	1540MST	?	?	0	0	0	0	Tornado (F1)	
	A to	rnado briefly	touche	d down jus	t west o	f Billi	ngs Airj	ort.		
37 NE Billings Custer	21 21	1545MST 1600MST			0	0	3 5	4 5	Hail (1.75) Flash Flood	
	Very heavy rainfall resulted in flash flooding.									
Big Horn County 5 to 12 N Hardin	21	1556MST	?	?	0	0	5	5	Tornado (F1) Flash Flood Hail (1.75)	
	road	rnado was on . Severe hailed in the area	l dama;	ound about i ge and floo	3 miles. ding wa	It des as asso	troyed a ciated v	mobile	e home and blew a pickup off the thunderstorm. Highways were	
Musselshell County 20 S Roundup	21	1615MST			1	1	6	5	Flash Flood	
	occu in th won	rred near the	Tumble able to was sv	eweed Salo get out of	on, was	hing a with t	pickup he assis	and a c stance o	County Line. The flash flood ar off the highway. The woman of the people in the Saloon. The was closed and five bridges were	
Fergus County 15 NW Lewistown 15 NE Roy	21 21	1615MST 1630MST	?	?	0	0	0 5	0 5	Tornado (F0) Flash Flood	
		Sohemian Cor es flooded.	ners, 4	.50 inches	of rain	fell cau	ising la	rge amo	ounts of water over roadway and	
Rosebud County 15 W Colstrip 10 NW Forsyth	21 21	1647MST 1930MST	?	?	0	0	0	0	Tornado (F0) Tornado (F0)	
Chouteau County Big Sandy	21	1945MST			0	0	4	3	Hail (1.75)	
Treasure County Near Hysham	21	Evening			0	0	5	5	Flash Flood	
÷ .		vy rains sent rted.	water o	ver Intersta	ate 94.	Consid	derable	amount	s of crop and road damage were	
Golden Valley County 18 NW Ryegate Yellowstone County	22	1642MST			0	0	0	0	Hail (1.00)	
30 NE Billings Prairie County	22	1936MST			0	0	0	0	Funnel Cloud	
South of Fallon	22	1940MST			0	0	5	5	Hail (1.75) Flash Flood	
28 SE Terry 28 NW Terry	22 22	1945MST 2000MST			0	0	5 5	5 5	Hail (2.50) Flash Flood	

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of	D	timated amage	Character of Storm	
Location	Date	Guindard	(Miles)	(14105)	Kinco	Injuico	Порс	ity Clops	Character of Storm	
MONTANA Cont	'd									
	Three inches of rain in 30 minutes caused flooding. Roads were washed out and homes flooded. Water was over Intersate 94 West of Terry early morning of the 23rd.									
Carbon County Bridger	23	1630MST			0	0	4	5	Hail (1.75)	
	Seve	re crop dama	age eastern	Carbon (County,	especia	lly in	the Sano	l Creek area.	
Rosebud County 2 W Colstrip	23	1843MST			0	0	3	0	Funnel Thunderstorm Winds	
Ashland	23	2014MST			0	0	3	3	Thunderstorm Winds Thunderstorm Winds	
	Mino	Minor roof damage occurred.								
Gallatin County Bozeman Custer County 15 NE Miles City	23	1900MST			0	0	4	4	Hail (1.25)	
	24	0030MST			0	0	3	0	Tornado (F0)	
	Roof	f damage occ	urred to a	farm buil	ding.					
Near Miles City	24	0030MST			0	0	5	5	Flash Flood	
	Heavy rains in Custer County caused severe flooding. Roadways were washed out, crops flooded, homes flooded and Interstate 94 was closed with water washing over it.									
Cascade County N Great Falls Carbon County Red Lodge	24	1400MST			0	0	0	0	Funnel Cloud	
	24	1545MST			0	5	0	0	Lightning	
	Ligh	tning struck	Wild Bill	Lake inju	ring fiv	e people	.			
Sweet Grass County Greycliff Yellowstone County 3 S Laurel W Billings	24	1740MST			0	0	0	0	Hail (0.75)	
	24 24	1956MST 2020MST			0	0	4 5	4 4	Hail (1.75) Hail (3.50)	
	Seve	Severe hail damage occurred to windows, roofs, and automobiles.								

25 0130MST 0 0 5 5 Thunderstorm Winds (G52)

0

0

Severe damage occurred in Terry. Windows, roofs, trees, buildings and grain bins were destroyed.

3

5

0

0

3

Thunderstorm Winds (G52)

Thunderstorm Winds

Custer County Miles City Prairie County

Dawson County Bloomfield

Terry

24

25

2200MST

0055MST

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of		nage	Character of Storm
Docation	Date	Jundard	(Mines)	(Talus)	Mileo	Injured	Troperty	Стора	Character of Storm
MONTANA Cont	'd								
Glendive Richey	25 25	0150MST 0155MST			0	0	4 5	4 5	Thunderstorm Winds (G67) Flash Flood Hail (1.50)
	In R	ichey, severe	damage o	occurred fi	rom flas	sh flood	ing and	hail.	
Phillips County Near Malta	25	0200MST			0	0	4	5	Hail (1.75) Thunderstorm Winds
	The	nderstorm wii	nds and ha	ail caused	conside	rable cr	op dam	agae.	
Richland County									
7 W Sidney Fairview	25 25	0222MST 0330MST			0	0	5	5	Thunderstorm Winds Thunderstorm Winds Hail (1.00)
	Thu	nderstorm wii	nds caused	l widespre	ad dam	age to t	rees and	l build	ings.
Roosevelt County Culbertson	25	0240MST			0	0	5	5	Flash Flood
Wheatland County Harlowton	25	0330MST			0	0	3	4	Hail (1.75)
Cascade County Sun River	25	1420MST			0	0	3	0	Hail (1.00)
Dawson County Richey	25	1430MST			0	0	4	4	Thunderstorm Winds Hail (1.50)
	Wide	espread dama	ge to buil	dings occu	arred in	Richey			
Richland County		•		Ū		•			
Lambert Lambert	25 25	1500MST 1500MST	?	?	0	0	4	0	Tornado (F0) Hail (0.75) Thunderstorm Winds Flash Flood
	Heav	y rainfall cau	ised exten	sive dama	ige to c	rops and	lroadw	ays.	
Custer County Miles City	25	1610MST			0	0	3	3	Hail (1.00)
Mccone County Near Circle	25	1630MST			0	0	4	4	Hail (1.50)
Glacier County Near Cut Bank	29	1530MST			0	0	4	4	Hail (1.75) Funnel Cloud
Toole County Sweetgrass	29	1600MST	?	?	0	0	3	0	Tornado (F0)
Rosebud County 10 NW Colstrip	29	1637MST	?	?	0	0	O	0	Tornado (F0)
Forsyth	29	1705MST	?	?	0	0	0	0	Hail (1.75) Funnel Cloud
Hathaway	29	1730MST			0	0	5	5	Hail (5.00)

Fist-size hail was reported in Hatahway, and two funnel clouds and 1.75-inch hail were reported in Forsyth.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
	•								
MONTANA Cont'o	1								
Rosebud Forsyth	29 29	1735MST 2220MST			0	0	0 4	0 4	Hail (1.75) Hail (1.75) Flash Flood
	High	way 10 was u	nder wate	r in Forsy	th.				
Blaine County 30 S Chinook	29	1640MST			0	0	4	4	Hail (1.50) Flash Flood
	Road	ls were washe	d out near	Cow Isla	nd Sch	ool.			
Fergus County Denton Wheatland County	29	1700MST			0	0	4	4	Hail (1.50)
4 SE Shawmut	29	1743MST			0	0	4	4	Hail (1.50)
Custer County Miles City	29	1747MST- 1710MST			0	0	6	5	Hail (2.25) Urban Flood Funnel Cloud
	storn	liles City, seven sewers and carly morning	aused flo	oding. In	curred terstate	and hai 94 wa	l meas s flood	suring 1. ded near	13 inches in diameter plugged the Prairie County line during
Prairie County Near Mildred	29	1933MST		·	0	0	5	5	Hail (2.50)
	Very	heavy rain, b	ut little w	ind.					
Garfield County Near Jordan	29	2000MST			0	0	5	5	Flash Flood
	Up to	o 5.00 inches	of rain fe	ll washing	out ro	adways	and c	rops.	
Daniels County 3 S Flaxville Yellowstone County	29	2027MST			0	0	0	0	Tornado (F1)
Laurel	29	2030MST			0	0	3	0	Lightning
	A ho	tel was struck	by lightn	ing in Lau	ırel.				
Roosevelt County 20 N Wolf Point	29	2100MST			0	0	5	5	Flash Flood
	Road	ls and crops w	ere damag	ged by 4.0	0 to 5.	00 inch	es of	water.	
MTZ005, 008 Jul	30 02 North result	1930MST 0800MST hern Phillips (ting runoff wa	County re	ceived up roads and	0 to 5.0 caused	0 0 inche the Mi	5 es of : lk Riv	5 rain on ver to flo	Flood the evening of the 30th. The ood during early July.
Phillips County 15 N Saco	30	2000MST	?	?	0	0	4	0	Tornado (F0)
•	A tor	rnado destroye	d several	buildings.					

		Time Local/	Path Length	Path Width	Pe	mber of	D	timated amage	
Location	Date	Standard	(Miles)	(Yards)	Kille	d Injured	Prope	rty Črops	Character of Storm
NEBRASKA									
Thurston County Thurston	01	0100CST			0	0	5	2	Thunderstorm Winds
		nderstorm wir ge trees were a			from	its base	, crur	npled it,	and dropped it 75 feet away.
Hall County Doniphan	01	0245CST			0	0	3	0	Hail (1.50)
	Wal	nut-size hail d	amaged a	few vehice	eles.				
Chase County 7.5 NE to 11.5 NE	01	0600CST	4.0	50	0	0	4	2	Tornado (F1)
Imperial	The Imp	Chase County erial. It destro	y Civil D oyed seve	efense coo n center p	ordinat ivots a	or said a	a torn ked o	ado was ut power	sighted 7.5 miles northeast of to Imperial.
Hitchcock County Stratton	01	0605CST			0	0	3	?	Thunderstorm Winds (G52)
. •	Fifty	y- to sixty-mpl	h thunders	storm win	ds dan	naged out	tbuild	ings as a	storm moved through Stratton.
Perkins County 7 SW to 5 SW Grant	01	0630CST	2.0	25	0	0	4	0	Tornado (F1)
	A to	rnado touched	down on	a farm so	uthwes	st of Gran	nt and	skipped	north for 2 miles. It ripped the , and farm equipment.
Lincoln County	1001	On the farming	ousc, and	darinagou	a woo	Ach Sha	ı, out	Junumga	, and farm equipment.
Lincoln County North Platte	01	0715CST- 0726CST			0	0	3	0	Hail (1.75)
	Dim Nun	e- to occasiona nerous trees w	al golf bal ere damag	l-size hail ged and so	fell as ome au	a thunde tomobile	rstorn es wer	n ripped i e dented	northward through North Platte.
Buffalo County 7 N Riverdale	01	0925CST	•	•	0	0	4	0	Ueil (1.75)
/ N Kiveldale		f ball-size hail	domogod	governal ve	_		4		Hail (1.75)
Riverdale		0943CST	damaged	Several v	ешс <i>і</i> ез	0	4	4	
Kiverdale	01 Daniel		J J				•	4	Hail (2.75)
W 10 .	Base	eball-size hail	damaged	crops and	severa	u venicie	es.		
Howard County Boelus	01	1044CST			0	0	3	0	Hail (1.75)
	Golf	f ball-size hail	damaged	a few vel	nicles.				
Phelps County Holdrege	01	1055CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	nderstorm win	ds gustin	g to 60 m	ph dov	wned sev	eral tr	ees.	
Seward County Cordova Goehner Tamora	01 01 01	1100CST 1110CST 1115CST			0 0 0	0 0 0	0 0 0	0 0	Hail (1.75) Hail (0.75) Hail (1.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dai	mated mage y Crops	Character of Storm
		····							
NEBRASKA Cont	ď								
Phelps County 2 W Wilcox	01	1105CST	0.5	30	0	0	0	0	Tornado (F0)
	A to	rnado briefly	touched d	own with	no app	arent da	ımage.		
Kearney County 7 SW Minden to Minden	01	1120CST			0	0	4	0	Thunderstorm Winds (G52)
•••••	Thu	nderstorm win	ds gusting	g to 60 mp	h dama	aged tre	es and	downed	l power lines.
Minden	01	1125CST			0	0	4	0	Lightning
	Ligh	tning struck a	house in	Minden a	nd caus	sed exte	nsive d	lamage.	
Howard County Dannebrog	01	1145CST- 1415CST			0	0	4	0	Flash Flood
	Cou	e to four inchenty Club was in the club was in the control of the	looded an	d the golf	course	clubho	ater to a	run ove s washe	r Highway 58. The Danelbrog d out. Several buildings in the
Webster County Blue Hill	01	1200CST	1.0	40	0	0 .	4	0	Tornado (F1)
	A to	rnado touched nset buildings,	down and several to	l damaged rees uproo	three f ted, on	farms be	efore lit	fting. I destroye	Damage included metal torn off ed, and several sheds damaged.
Hall County Cairo to Grand Island	01	1205CST- 1435CST			0	0	4	4	Flash Flood
	over	to four inche flow. Many rpasses were f	county r	oads and	cornfi	elds we	ere floo	oded.	ks in northern Hall County to In Grand Island, streets and
Clay County 2 SW Fairfield	01	1210CST	0.5	30	0	0	4	0	Tornado (F0)
	A tor a fev	rnado briefly to v cottonwood	ouched do trees, and	wn on a ra damaged	nch and fences.	d blew a	way se	veral m	etal Quonset buildings, downed
Merrick County 2 S Worms to Worms	01	1210CST- 1440CST			0	0	3	5	Flash Flood
		e to four inch and some cou			rairie C	creek to	overfle	ow, flo	oding several hundred acres of
Hamilton County Phillips Aurora Hampton	01	1230CST- 1500CST			0	0	4	4	Flash Flood
1	Two	to four inche rred in Aurora	s of rain when Li	flooded m ncoln Cree	any co k wen	ounty ro	ads an its bar	d cornf iks.	ields. Some property damage
Webster County 2 W Lawrence	01	1245CST	1.0	30	0	0	3	0	Tornado (F0)

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of ersons i Injured	D	timated amage erty Crops	Character of Storm
NEBRASKA Cont	t'd								
	A to	rnado touche	d down ar	nd damage	ed seve	ral small	build	lings on a	a few farms before lifting.
Clay County 3 SW Sutton	01	1315CST			0	0	0	0	Funnel Cloud
	A fu	nnel cloud w	as spotted	by Civil	Defens	se person	nel.		
5 S Sutton	01	1320CST	1.0	30	0	0	4	0	Tornado (F0)
	A to liftin		d down on	a farm ar	nd dam	aged tree	es, sid	ling on a	house, and outbuildings before
Seward County Utica	01	1345CST			.0	0	0	0	Thunderstorm Winds (G61)
	Thur	nderstorm wi	nds of 60	to 70 mpl	n move	d cars in	Utic	a.	
Saunders County 3 NE Ashland	01	1345CST			0	0	4	1	Thunderstorm Winds
·	a mo	nderstorm wi bbile home w deep into the	as ripped	ted about a off and so	20 tree: attered	s, which about.	block Seve	ted roads ral 2 by	around the camp. The roof of 4s from the roof were driven 1
Fillmore County Geneva Fairmont	01	1350CST			0	0	4	0	Thunderstorm Winds (G52)
	Thur off a	nderstorm with machine she	nds gustinged and one	g to 60 mp house su	h cause ffered	ed extens major da	ive tromage	ee damag when a i	e. In Geneva, the roof was torn tree fell on it.
Sarpy County Gretna	10	1410CST			0	0	2	2	Hail (1.57) Thunderstorm Winds (G56)
Polk County Stromsburg Osceola	01	1415CST- 1645CST			0	0	4	4	Flash Flood
	flood lowl Davi lying	ded the city pand flooding. is Creek over	park. The Many co flowed its	Blue Riv unty roads banks and	er, jus i just so d cause	st south outh and and extens	of Str west of sive da	omsburg, of Stroms amage to	In Stromsburg, Prairie Creek, overflowed and caused major burg were flooded. In Osceola, the city park and flooded lowola flooded and were closed for
York County Bradshaw York	01	1420CST- 1650CST			0	0	4	4	Flash Flood
Thayer Gresham	and]	Beaver Creek	, south of	Bradshaw	, went	out of th	neir ba	anks. In	coln Creek, north of Bradshaw, York, two city parks, the York ic to be diverted.
Sarpy County 6 W Papillion	01	1420CST			0	0	2	2	Hail (1.75)
3 NE Gretna Papillion	01 01	1425CST 1445CST			0	0	2 2 2	2 2	Hail (1.75) Thunderstorm Winds (G64)
Butler County Bellwood 5 W David City	01 01	1430CST 1500CST			0	0	4 3	0	Thunderstorm Winds Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	imated amage rty Crops	Character of Storm
NEBRASKA Cont	'd								
	Thui and	nderstorm wir destroyed a n	nds damag nachine sh	ed power ed near D	poles, avid Ci	trees an ty.	d seve	ral farm	outbuildings around Bellwood
Douglas County 7 W Omaha	01	1448CST	•		0	0	2	2	Thunderstorm Winds (G69)
	Tree	limbs were b	oroken by	strong wi	nds.				
Sarpy County LaVista	01	1500CST	9		0	0	2	1	Thunderstorm Winds (G52)
Douglas County 9 SW Omaha	01	1634CST			0	0	5	0	Lightning
	Ligh	tning struck	a house, c	ausing \$10	00,000	damage			
Dundy County 8 W Benkelman	03	1552CST	Short	25	0	0	0	0	Tornado (F0)
	The north	Dundy Count heast before l	y Sheriff's	s Office re	ported	a brief t	ornad	o touchd	own near Doane, which moved
Banner County	03	1548MST- 1619MST			0	0	0	0	Funnel Cloud
	Num	erous funnel	clouds we	re observ	ed thro	ighout t	he co	inty.	
Antelope County 9 N Neligh	04	1245CST			0	0	4	?	Thunderstorm Winds
	Thur	nderstorm wir	nds blew o	ver a cen	ter pivo	t irrigat	ion sy	stem.	
Knox County	04	1315CST			0	0	?	?	Hail (0.75)
2 SW Creighton Antelope County	-					_	-	,	
Brunswick Madison County	04	1350CST			0	0	?	?	Hail (1.75)
5 W Norfolk Knox County	04	1358CST			0	0	?	?	Hail (1.75)
1 W Creighton Madison County	04	1400CST			0	0	?	?	Hail (0.75)
8 WSW Norfolk	04	1415CST	Short	10	0	0	0	0	Tornado (F0)
	A to:	rnado briefly	touched d	own in ar	open i	ield.		•	
Norfolk 2 W Madison	04 04	1420CST 1430CST			0	0	4 ?	?	Hail (1.75) Hail (1.75)
5 NW to 4 N Madison	04	1445CST- 1510CST	3.0	80- 100	-	0.,	5	?	Tornado (F2)
William I	A to		ed or destr						on two farms.
1 W Norfolk	04	1451CST		- ,	0	0	4	?	Hail (1.75)
5 S Norfolk 4 S Norfolk	04 04	1508CST 1513CST		٠	0	0	4	?	Hail (2.75) Thunderstorm Winds (G60)
Stanton County 4 NE Norfolk	04	1536CST	Short	10	0	0	?	· ?	Tornado (F0)

A tornado briefly touched down in an open field.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	timated amage erty Crops	Character of Storm
									
NEBRASKA Con	t'd								
12 SE Norfolk	04	1600CST	Short	20	0	0	?	?	Tornado (F1)
	A to	rnado caused	extensive	tree dama	age.				
1 N Clarkson	04	1623CST	0.5	05	0	0	3	3	Hail (1.75)
5 NW to 1 N Clarkson	04	1630CST	2.5	25- 75	0	0	3	?	Tornado (F1)
	A to	rnado damage	ed farm b	uildings a	nd tore	up trees	and	fence pos	sts.
Colfax County Howells Howells	04 04	1700CST 1705CST	Short	10	0	0	3	?	Hail (1.75) Tornado (F0)
	A to	rnado uproote	ed many t	rees and d	downed	power l	ines.		
Cuming County 5 N Howells	04	1715CST	0.6	10	0	0	2	?	Tomado (F1)
	A to	rnado destroy	ed outbui	ldings at	several	farms.			
Dodge County Dodge	04	1740CST			0	0	6	6	Hail (2.75)
	Base estin	ball-size hail nated up to \$2	severly d 2 million	amage 40, for crops,	,000 acr and ov	res of cr er \$1 m	ops, o	equipmento equip	it, and buildings. Damage was ment and buildings.
Franklin County 4 SW Naponee 1 E Upland	04	1750CST- 1810CST			0	0	4	6	Hail (2.75)
	Base It de over	ball size hail stroyed whea \$2 million.	cut a 2- to t crops an There wa	4-mile-w d extensiv s also maj	vide path vely dam jor vehic	n from s naged co cle dam	outhworn an	est to no d soybea long the	rtheast across Franklin County. n crops, with damage estimated path of the storm.
2 SW Macon	04	1800CST	0.5	30	0	0	3	0	Tornado (F0)
		rnado briefly re lifting.	touched o	lown on a	farm de	estroyin	g a sh	ed and b	lowing shingles off a barn roof
Dodge County 1 S Snyder	04	1800CST			0	0	0	0	Funnel Cloud
1 S Scribner	04	1855CST			ŏ	Ŏ	4	2	Thunderstorm Winds
	Thur	derstorm wii	nds blew	out windo	ws and	downed	l trees		
Countywide	04 06	1800CST- 1500CST			0	0	5	6	Flash Flood Flood
	field	o 6.00 inches and baseme and flooding.	nts and c	caused flas losed road	sh flood Is aroun	ling alor d Scribi	ng Ma ner.]	aple and Runoff ir	Pebble Creeks. Water flooded to the Elkhorn River produced
North Bend	04	1925CST	•		0	0	5	5	Hail (1.75)
	Golf	ball-size hai	damaged	crops and	d numer	rous car	s.		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	mber of rsons Injured	Dar	nated nage y Crops	Character of Storm
NEBRASKA Cont	.'d								
Antelope County	04	2000CST			0	0	3	?	Flash Flood
	Sever	ral bridges in	northern	Antelope	County	were v	vashed (out.	
Cedar County Laurel	04	2000CST			0	0	?	?	Flash Flood
	Water	r flooded Hig	shway 15	near Laur	el.				
Knox County	04	2000CST			0	0	4	?	Flash Flood
	under	le and Verdig r water, ballf county brid	elds were	flooded, a	and wat	ox Cour ter flow	nty were ed over	e flood a bridg	ed. Sections of Verdigre were e on the northern side of town.
Madison County	04	2000CST			0	0	5	?	Flash Flood
· .	flood	ing. Union a	nd Taylor	Creeks ov	er flow	ved into	lowland	ds and s	extensive lowland and street everal bridges and gravel roads uthbound travel from Norfolk.
Pierce County	04	2000CST			0	0	?	?	Flash Flood
	North	Fork of Elk	horn wen	t out of its	s banks	at Osn	nond.		
Colfax County	04	2000CST		. '	1	0	7	5	Flash Flood
	cropla water and d millio	and. Floodin s spilled over lamaged 34 b	g along the and throusinesses, ar-old ma	e East For agh a dike 12 public in ignored	k of M Four building evacu	aple Cre to six fings, and ation or	eek caus eet of w l 25 to 3 ders an	ed exter ater rad 0 home d drow	ries damaging 55,000 acres of nsive damage at Howells where ced through the downtown area es. Estimated damage was \$29 med when water collapsed the BP)
Cuming County	04	2000CST	•		0	0	4	5	Flash Flood
	Exten 54,00	sive lowland 00 acres of cr	flooding o	occured alo	ong Pel	ble Cre	ek in th	e south	ern part of the county damaging
Saunders County	04 05	2200CST- 1500CST			0	0	5	6	Flash Flood
		to five inche under water.	es of rain	caused Wa	ahoo an	d Salt (Creeks t	o flood	. Over 200,000 acres of crops
Scotts Bluff County	05	1741 1 60T		•		^	9	9	Three dearts are Winds (CC1)
3 E Scottsbluff	05 A wir	1 741MST nd gust of 70	mnh xxac	ranordad	0 at the	0 Waatha	? r Sarvia	? • Offic	Thunderstorm Winds (G61)
Lincoln County	A WII	ud gust of 70	mpn was	recorded	at the	. vv cather	Servic	e Ome	··
Sutherland	06	1530CST			0	1	3	0	Thunderstorm Winds (G55)
	and a	feeding chu	te. Fallii	ng limbs a	and tre	es dam	aged ou	tbuildii	trees, power lines, a grain bin, ngs and roofs. One man was abbed a live wire.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage	Character of Storm
			(2.2.2.5)	(11100)			110pun	y ctope	
NEBRASKA Cont'	ď								
Cheyenne County Sidney	07	1140MST			0	0	0	0	Funnel Cloud
	Seve	ral funnel clo	uds were	spotted.					
Kimball County Bushnell	09	1510MST			0	0	?	?	Hail (0.75)
Keya Paha County 3 S Mills	09	1615CST			0	0	?	?	Hail (1.75)
Scotts Bluff County Bayard 10 E Scottsbluff	09 09	1530MST 1554MST-			0	0	0	0	Funnel Clouds
11 E Scottsbluff 0.5 W to	09 09	1610MST 1630MST 1640MST-	1.0	50	0	0	0 ?	?	Tornado (F1) Hail (1.75)
3 NE Minatare	0,	1650MST	3.5	150	0	0	6	4	Tornado (F3)
	As it	ball-size hail moved througestimated at \$	the tow	n, it destr	are and oyed 20	Bayard O houses	A to	rnado to tensive	ouched down west of Minatare. ely damaged 30 others. Damage
Cheyenne County Sidney Scotts Bluff County	09	1653MST			0	0	?	?	Hail (1.75)
Minatare	09	1700MST			0	0	?	?	Hail (0.75)
Rock County 7 N Newport	09	1800CST			0	0	?	?	Hail (1.75)
Box Butte County Alliance	09	1738MST			0	0	?	?	Hail (0.75)
Holt County Stuart Stuart	09 09	1838CST 1935CST			0	0	?	?	Thunderstorm Winds (G52) Hail (1.00)
Buffalo County 2 W to 1 N Elm Creek	09	2325CST	,		0	0	3	0	Thunderstorm Winds (G52)
	Thur and a	nderstorm win a shed sustaine	ds gusting ed severe	g to 60 m damage.	ph dam	aged a	few far	ms. A	large playhouse was destroyed
Dodge County Fremont	13	0500CST- 1400CST			0	0	5	6	Flash Flood
	Up t	o 6.00 inches	of rain fe	ll in the H	remon	area, f	flooding	g street:	s and basements in town.
Merrick County Central City Clarks	13	1820CST- 1900CST			0	0	4	4	Hail (1.75)
	Walr	nut- to golf ba	ll-size hai	l caused e	extensiv	e dama	ge to c	rops an	d vehicles.
York County Waco Gresham	13	1910CST- 1925CST			0	0	3	4	Hail (1.75)
OICHIAIII	337 -1		11 2: 1- 1	1 1	,	-	_	-	•
Champs Country	walr	iut- to golf ba	ii-size hai	i caused e	extensiv	e dama	ge to c	rops an	d some damage to vehicles.
Sherman County 6 NE Loup City	13	1930CST			0	0	3	-3	Hail (0.75) Thunderstorm Winds (G52)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
NEBRASKA Cont'	'd								
	Hail	and thunders	torm wind	s gusting	to 60 r	nph dan	naged	vechicle	s and crops.
Polk County Osceola Shelby	13	1950CST- 2020CST			0	0	4	5	Hail (1.75)
	Walı vehic		oall-size h	ail did ex	tensive	damag	e to d	corn and	soybean crops and numerous
Saunders County	13 15	2200CST- 0300CST			0	0	5	6	Flash Flood
	Two virtu	to four inche ally isolated t	s of rain o	over the V of Wahoo.	Vahoo (Over	Creek b 7,000 a	asin fl cres c	looded lo	owlands, fields, and roads, and were damaged.
Douglas and Sarpy Counties	13 14	2300CST- 1200CST			0	0	5	1	Flash Flood
	High	y rains in the way 370 in B r, silt, and de	lellevue.	Creek Ba Golf cours	sin proses, par	duced f ks, and	loodii busin	ng from i esses alo	Fort Street near 120th street to ong the creek were damaged by
Douglas County 10 NW Omaha	13	2330CST			0	0	3	1	Thunderstorm Winds (G52)
	Thur	nderstorm win	ds moved	a mobile	home.				
Pierce County 2 SW Pierce Wayne County	14	1600CST			0	0	?	?	Hail (0.75)
Wayne County Wayne Pierce County	14	1613CST			0	0	?	?	Hail (1.00)
Pierce County	14	1650CST			0	0	?	?	Thunderstorm Winds
	Thur	nderstorm win	ds blew to	ees and a	few po	wer lin	es dov	vn.	
Sarpy County Offutt Air Force Base	14	1858CST			0	0	0	0	Funnel Cloud
roice pase	A fu	nnel cloud wa	s sighted	by the bas	se weat	her stat	ion ob	server.	
Papillion	14	1905CST			0	0	3	0	Hail (1.50)
Douglas County 2 S Omaha 11 W Omaha 4 NE Omaha 5 N Omaha	14 14 14 14	1915CST 1915CST 1924CST 1927CST	•		0 0 0 0	0 0 0 0	3 2 0	0 1 0 0	Hail (1.75) Thunderstorm Winds (G52) Thunderstorm Winds (G60) Funnel Cloud
	Wind	ds gusting to	69 mph at	Eppley A	irfield	knocke	d over	the wea	ther instrument shelter.
Richardson County Falls City	14	2215CST			0	0	3	1	Thunderstorm Winds (G52)
	Sixty	-mph winds t	olew trees	and powe	r lines	down.			
Washington County Blair	15	0200CST			0	0	3	1	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	D	timated amage rty Crops	Character of Storm
NEBRASKA Cont	'd								
		mobile hous		noved 2 i	feet of	f their fo	oundat	ions by	strong winds. The gusts also
Cass, Otoe, Nemaha, and Richardson	15 16	0400CST- 1300CST			0	0	2	4	Flood
Counties	Low	lands along t	he Missou	ıri River f	looded	as flood	lwater	from tri	butaries emptied into the river.
Wayne and Dodge Counties	15 16	1200CST- 0300CST			0	0	2	4	Flash Flood
	Up t	to 5.00 inches h of Uehling.	of rain n	ear Wayne	e cause	Logan (Creek	to overfl	ow its banks from Wakefield to
Grant County	17	1505CST			0	0	0 .	0	Funnel Cloud
	The sout	sheriff's offic h of Ashby n	e and the poving to	public repo the east.	orted f	unnel clo	uds 5	miles sou	uthwest of Hyannis and 15 miles
Keith County Lemoyne	17	1535CST			0	0	0	0	Funnel Cloud
	A sp	otter reported	d a funnel	cloud mo	ving e	ast near	Lemo	yne.	
Morrill County Bayard Broadwater	17	1439MST	:		0	0	0	0	Funnel Cloud
Box Butte County Alliance	17	1439MST			0	0	0	0	Funnel Cloud
Garden County _Lewellen	17	1439MST			0	0	0	0	Funnel Cloud
Keith County Lake McConaughy	17	1600CST	Short	25	0	0	3	O	Tornado (F1)
	A to a de	ornado briefly ck, shingles f	touched or	lown on the	he nor	thern sho an antenr	re of	Lake Mo a cabin.	Conaughy, ripping the roof off
Hooker County 5 W Mullen	17	1600CST- 1610CST	Short	?	0	0	0	0	Tornado (F0)
,		sheriff's offic age was repo		d a tornad	o whic	h made s	six sep	parate to	ichdowns as it moved east. No
McPherson County 15 N Tryon	17	1630CST	Short	25	0	0	0	0	Tornado (F0)
	The Cou	county sheri	ff's office en countr	reported y and mov	a torn ved eas	ado brie st.	fly to	uched do	own on the Hooker-McPherson
Perkins County Venango	17	1647CST			0	0	0 .	0	Funnel Cloud
	A sp	otter reported	d a funnel	cloud ove	er Ven	ango mo	ving 1	ortheast	
Lincoln County North Platte	17	1908CST			0	0.	0.	0	Funnel Cloud

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dan	nated nage y Crops	Character of Storm
NEBRASKA Cont'	đ								
North Platte	17	1908CST- 1935CST			0	0	0 -	0	Hail (1.00)
	Ther	ters reported a e were numero lamage was to	ous reports	s of pea-t	o 1.00	-inch si	ze hail a	around	Bailey yards moving northeast. the North Platte area. Most of cles.
Furnas County Beaver City	17	2030CST			0	0	4	0	Thunderstorm Winds (G52)
	Thur	derstorm wind	ls briefly	gusted to	60 mp	h and k	nocked	over a	32-foot grain bin.
Buffalo County Kearney	17	2136CST			0	0	3	0	Thunderstorm Winds (G56)
	Thur	derstorm wind	s gusting	to 65 mp	h dama	aged tre	es.		•
Hall County Wood River	17	2208CST			0	0	2	0	Thunderstorm Winds (G52)
	Thur	derstorm wind	ls briefly	gusted to	60 mp	h and c	aused n	ninor tr	ee damage.
Cheyenne County			•	_	•				J
5 NE Potter	18	1513MST			0	0	0	0	Funnel Cloud
Grant County Ashby	18	1622CST			0	0	3	0	Hail (2.75)
	Base	ball-size hail f	ell and da	maged tre	es and	a few a	automol	oiles.	4
Cheyenne County									
10 W Sidney Arthur County	18	1613MST	Short	10	0	0	?	?	Tornado (F0)
15 N Arthur	18	1746CST			0	0	?	?	Hail (2.50)
	Egg-	to tennis ball-	size hail	fell in ope	n rang	eland.			
Box Butte County									
Alliance Arthur County	18	1650MST			0	0	?	?	Thunderstorm Winds (G50)
3 W Arthur	18	1816CST	Short	20	0	0	2	0	Tomado (F1)
		county sherriff noved a horse		eported a	tornado	hit a ra	anch and	d tore d	own trees, broke corral fences,
Sheridan County Antioch	18	1725MST			0	0	?	? .	Thunderstorm Winds
	Thun	derstorm wind	ls leveled	trees and	a barn				
Keith County				*	_	_	_		
6 SW Ogaliala	18	1955CST			0	0	0	0	Funnel Cloud
	A fu	nnel cloud was	reported	by spotte	rs.				
Perkins County Grant	18	2000CST			0	0	3	0	Thunderstorm Winds
	The build	Grant Fire De ings, and know	epartment eked powe	reported er lines do	strong wn.	thunde	erstorm	winds,	which damaged trees, a few

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	D	imated amage ity Crops	Character of Storm		
NEBRASKA Cont	'd										
Lincoln County 10 N Wallace 20 SW Hershey 2 W Brady 10 S Brady	18 18 18 18	2034CST 2050CST 2150CST 2205CST			0 0 0 0	0 0 0 0	0 0 0 ?	0 0 0 ?	Funnel Cloud Funnel Cloud Funnel Cloud Hail (1.75)		
	A Civil Defense spotter reported golf ball-size hail in the vicinity of Jeffrey Lake.										
Hamilton County 3 SE Giltner 4 E Stockham	21	1140CST- 1200CST	·		0	0	4	4	Hail (2.50)		
		Golf ball- to tennis ball-size hail covered the ground and caused extensive damage to crops, vehicles, and outbuildings.									
Clay County 8 NW Sutton	21	1200CST	1.0	40	0	0	5	0	Tomado (F1)		
	off i	ts foundation,	a 300-gal	lon fuel ta	ınk kno	ocked ov	/er, a l	barn desi	10,000-bushel storage bin lifted troyed, and several trees blown several trees knocked over.		
York County Henderson 7 E Henderson	21	1200CST- 1220CST			0	0	5	5	Hail (2.50)		
	build	ball- to tennis lings, vehicles e corn crops in	, and gare	dens took	a pour	iding fr	amage om the	to prop hail wl	erty and crops. In Henderson, nich covered streets and lawns.		
Clay County 4 N Saronville 4 N Sutton	21	1205CST- 1225CST			0	0	5	6	Hail (1.75)		
	of Su and	utton. The hai	l caused e lows of ve	extensive of	crop and house	d prope s. Dan	rty dai nage to	mage, str	om north of Saronville to north ripping some crops completely, oybean, milo, and wheat crops		
3 ENE Clay Center Eldorado	21	1352CST- 1410CST			0	0	4	4	Hail (1.75)		
	Golf	ball-size hail	damaged	crops, vel	hicles,	and fari	m mac	hinery.			
Lancaster County Lincoln	21	1400CST- 1500CST			0	0	4	0	Thunderstorm Winds Lightning		
	throu	ombination of aghout the city in Lincoln Ele	v. Trees f	fell onto p	ower l	ines and	d cause	ed powe	ectrical lines and power poles r outages in several sections of		
Lincoln	21	1400CST- 1500CST			0	0	3	0	Urban Flood		
	was		downtown	n Lincoln					stensive urban flooding. Water rs were reported floating down		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of ersons	Estimated Damage Property Crops		Character of Storm		
Liceaton	Date	Standard	(Miles)	(Tarus)	Killer	a injuico	Пор	city Crops	Character of Storm		
NEBRASKA Cont'	d										
Lincoln	21	1445CST			0	0	4	0	Thunderstorm Winds		
	and `	nderstorm wing Yolande Aven Contents totaled	ue and mo	oved them	nd sup appro	porting t ximately	russe: 60 y	s from a ards east.	siding warehouse at 16th Street Damage to the warehouse and		
Banner County Harrisburg Keya Paha County	23	2225MST			0	0	?	?	Hail (1.75)		
5 N Norden	25	2315CST			0	0	?	?	Thunderstorm Winds		
		ng winds from led a windmill		ng thunde	rstorm	s downe	d larg	ge tree lir	nbs, blew over hay stacks, and		
Banner County 3 E Harrisburg Scotts Bluff County	27	1929MST			0	0	?	?	Hail (1.00)		
Gering 6 E Minatare	27 27	2148MST 2210MST			0	0	? 6	?	Hail (1.00) Thunderstorm Winds		
	Thunderstorm winds downed trees and power lines and damaged houses. The upper level of one house was demolished; its furniture was thrown into nearby fields.										
Box Butte County 10 W Alliance	27	2325MST	0.3	30	0	0	6	3	Tomado (F1)		
	A to	rnado destroye	d farm b	uildings a	nd dov	vned pov	ver li	nes.			
Lincoln County Hershey	28	1915CST			0	0	?	?	Thunderstorm Winds		
	A th	understorm roa	ared throu	igh Hersh	ey, kn	ocking p	ower	lines do	wn.		
Sutherland	28	1935CST			0	0	?	?	Thunderstorm Winds (G52)		
	A th	understorm pro	oduced w	inds of 50	to 60	mph.					
McPherson County Tryon	28	1950CST- 2005CST			0	0	?	?	Hail (1.75)		
	A thu	anderstorm mo	oved thro	ugh Tryon	ı, drop	ping gol	f ball	-size hail			
Banner County											
Harrisburg Dawes County	28	2004MST			0	0	0	0	Funnel Cloud		
22 S Chadron Sheridan County	28	2235MST			0	0	?	?	Hail (1.75)		
4 N Hay Springs 14 N Rushville Keya Paha County	28 28	2310MST 2318MST			0	0	0	0 0	Funnel Cloud Funnel Cloud		
7 N Springview Hall County	30	1450CST			0	0	?	?	Hail (1.75)		
Wood River	30	1720CST			0	0	3	0	Thunderstorm Winds (G52)		
	Thun	derstorm wind	ls gusting	to 60 mp	h dam	aged sor	ne tre	æs.			
Adams County 2 W Prosser	30	1725CST			0	0	4	0	Thunderstorm Winds (G78)		

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons	D	timated amage	Character of Storm
Location	Date	Standard	(Miles)	(Tarus)	Kille	u mjureu	Prope	пу Стора	Character of Storia
NEBRASKA Cont	'd								
	Thu	nderstorm wi	nds gusted	to 90 mp	h for	20 secon	ds and	d damage	d trees and outbuildings.
3 NW Hastings	30	1728CST			0	0	4	0	Thunderstorm Winds (G61)
·	Thu	nderstorm wi uildings, and	nds gusted trees.	to 70 mp	h for	a short p	eriod	and dam	aged shingles on a few houses,
Buffalo County 4 S Shelton	30	1730CST			0	0	4	0	Thunderstorm Winds (G69)
·		nderstorm wi damaged tree		g to 80 m	ph, br	oke wind	dows	on a hou	se, knocked down power lines,
Cedar County Randolph Laurel	30	1805CST			0	0	3	0	Thunderstorm Winds (G52)
·	Nun	nerous trees a	nd limbs v	were blow	n dow	n.			
Hamilton County Aurora	30	1830CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	nderstorm wi	nds gustin	g to 60 m	ph dov	wned pov	ver lii	nes and d	amaged trees.
Pierce County Pierce	30	1830CST		• •	0	0	3	?	Thunderstorm Winds
	Exte wind		mage occu	rred at a g	olf co	urse whe	re a la	irge sheli	er belt was ripped up by strong
York County Bradshaw	30	1848CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	nderstorm wi	nds gustin	g to 60 mj	ph dar	naged tre	æ.	V	
Clay County 3 SW Clay Center Clay Center	30	2145CST- 2200CST			. 0	0	5	0	Thunderstorm Winds (G61)
	and	nderstorm win irrigation pip e severely dan	e. There	was exten	sive t	w over a ree dama	10,00 ige in	00-bushel Clay Ce	grain bin, a large grain auger, nter. Two cars and one house
NEVADA									
NVZ003 Extreme Western	04	1920PST			0	0	0	0	High Winds
Nevada								Nevada	Winds were reported at 50 to
NEW HAMPSHIR	Œ								
Belknap County Laconia	11	1515EST			0	0	?	0	Thunderstorm Winds
Cheshire County Chesterfield	11	1725EST	•		0	0	?	0	Thunderstorm Winds
Hillsborough County Hudson	11	1805EST			0	0	?	0	Thunderstorm Winds

June 1991

Lightning

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Estimated Damage Property Crops		Character of Storm
NEW HAMPSHIR	E Co	nt'd						-	
Manchester Rockingham County	11	1820EST			0	0	?	0	Lightning
Exeter	11	1826EST			0	0	?	Q	Lightning
Exeter	11	1826EST			0	0	?	0	Thunderstorm Winds
Portsmouth	11	1849EST			0	0	?	0	Lightning
Hampton	11	1931EST			0	0	?	0	Lightning

Thunderstorms rumbled across portions of southeastern New Hampshire during the late afternoon and early evening hours on the 11th. The thunderstorm activity was accompanied by strong winds and frequent lightning. Strong winds blew a large maple tree down in Laconia at 1515 EST which fell on a utility pole and some wires causing numerous power outages. Strong winds from a thunderstorm blew numerous trees down in Chesterfield at 1725 EST and another tree was blown down in Hudson at 1805 EST. The downed tree pulled power and telephone lines down across a road. A four car, chain reaction accident occurred when a car stopped to avoid the wires. Lightning struck a substation in Manchester at 1820 EST, knocking out power to 15,000 residents in the surrounding area. At 1826 EST, several streets in Exeter were blocked by numerous downed trees and power lines as a result of strong winds. Thunderstorm winds also blew trees down onto a car and a mobile home. Lightning caused a power outage to 4,300 customers in the area. Lightning struck struck a citizen's band radio antenna on a roof of a house in Portsmouth at 1849 EST. The lightning ignited the roof rafters, blew out a wall in the bedroom and melted a switch. The home also received some minor smoke damage. At 1931 EST, lightning struck a fiberglass and metal radio antenna on the roof of an apartment building in Hampton and destroyed some electrical wiring. The radio antenna fell to the ground after being struck by the lightning. At 1957 EST, lightning struck a television antenna on the roof of a home in Hampton. Wiring was melted and severed as a result of the lightning. The lightning also damaged a water main at the house.

Cheshire County
Richmond
Hillsborough County
Merrimack

Hampton

11

1957EST

12	1400EST	0	1	?	0	Lightning
12	1612EST	0	0	5	0	Lightning

Lightning from passing thunderstorms resulted in quite a bit of damage and one man was injured on the 12th. At 1400 EST a man in the town of Richmond was struck by lightning while talking on the phone. At 1612 EST, lightning struck the Town Hall in Merrimack and knocked out the communications console and damaged some computers. Damage was estimated at \$100,000.

Sullivan County Sunapee

16 1700EST 0 0 ? 0 Lightning

Lightning struck two New Hampshire Electric Cooperative substations causing 1,500 to 2,000 homes to lose power in the surrounding area.

NEW JERSEY, Northern

Hudson County							
Secaucus	03	2122EST	0	0	?	0	Lightning
Bergen County							• •
Ridgefield	03	2124CST-					
Wallington		2206EST	0	0	?	0	Lightning
Teaneck							•
Bergen and Hudson	03	2130EST-					
Counties		2330EST	0	0	?	?	Flash Flood

A small complex of heavy thunderstorms moved very slowly across extreme northeastern New Jersey. Torrential rains of nearly 3.00 inches were reported at Edgewater in eastern Bergen County. However, most reports ranged from 1.00 to 2.00 inches. This produced very quick flooding of roadways throughout Bergen and Hudson Counties. In addition, frequent cloud-to-

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of rsons Injured	D	imated amage rty Crops	Character of Storm
NEW JERSEY, I	Northe	m Cont'd							
		ınd lightning aged.	accompani	ed these st	orms.	Several	homes	s, trees, a	and power lines were struck and
Middlesex County New Brunswick Essex County West Orange	04	1515EST			0	0	?	0	Lightning
Verona	04	1517EST			0	0	?	0	Lightning
Union County Linden	04	1555EST			0	0	? .	0	Lightning
	Frec Brui	juent cloud-to iswick. Elec	o-ground light etricity was	ghtning da also knoo	maged cked ou	two hon	nes in st Orai	Verona a	and one each in Linden and New a power pole was struck.
Sussex County Sussex County Morris County	12 12	1500EST 1530EST			0	0	?	0	Thunderstorm Winds (G50) Thunderstorm Winds
Chatham Chester	12	1530EST- 1538EST	·		0	0	0	0	Hail (0.75)
Essex County Milburn	12	1553EST			0	0	0	0	Hail (0.75)
Bergen County Parkridge	12	1555EST			0	0	?	0	Thunderstorm Winds
	gene	uall line moverated winds to ome large ha	that downe	orthern N d numero	ew Jers us trees	ey durin and pov	g the l wer lin	late afternes. The	noon hours. The thunderstorms e storms were also accompanied
Morris County Near Lake Hopatcong	16	1550EST			0	0	?	0	Thunderstorm Winds
Bergen County Rochelle Park Fairlawn	16 16	1620EST 1625EST			0	0	?	0	Thunderstorm Winds Thunderstorm Winds
Possaic County Bloomingdale	16	1630EST			0	1	0	0	Thunderstorm Winds
Bergen County Paramus Lodi Bergenfield Teaneck	16	1640EST			0	0	?	0	Thunderstorm Winds
Morris County Wharton Denville Boonton	16	1700EST			0	0	?	0	Thunderstorm Winds
Parsippany Wharton	16	1700EST			0	0	0	0	Hail (1.75)
	wind	ere thundersto ds downed nu person was i	imerous tre	es and po	wer lin	es. Gol	f ball-	size hail	n New Jersey. Their associated was also reported at Wharton. ar.

NEW JERSEY, Southern

Burlington County New Gretna

03 1515EST

0 0 3

Thunderstorm Winds

Thunderstorm wind gusts turned over a mobile home and uprooted a few trees.

June 1991

40.51.5

Location	Data	Time Local/ Standard	Path Length	Path Width	Per	nber of sons	Estimated Damage Property Crops		Character of Storm		
Location	Date	Standard	(Miles)	(Yards)	Killed	injured	Propen	у сторв	Character of Storm		
NEW JERSEY, So	uthen	n Cont'd									
Mercer County Trenton	16	1535EST			0	0	3	0	Thunderstorm Winds (G54)		
	Thur Stree	derstorm wind t. A flag was	i gusts, es also blow	stimated at n out of it	62 mj s hold	ph, dow er.	ned tre	es and	utility lines along South Broad		
Ocean County Whiting 3 SE Cedar Crest S Toms River	30 30 30	1352EST 1400EST 1700EST			0 0 0	0 0 0	3 3 3	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds		
	Thur	derstorm wind	l gusts do	wned tree	s and ı	ıtility li	nes.				
Gloucester County 2 SE Hurffville	30	1630EST			0	0	3	0	Thunderstorm Winds		
	Thunderstorm wind gusts downed numerous trees and utility lines.										
Salem County 1 NE Olivet	30	1630EST			0	0	3	0	Thunderstorm Winds		
	Thun	derstorm wind	l gusts do	wned thre	e trees	and uti	lity lin	es.			
Cumberland County Vineland	30	1650EST			0	0	3	0	Thunderstorm Winds		
	Thun	derstorm wind	l gusts do	wned trees	s and u	ıtility li	nes.				
Atlantic County Laureldale Atlantic City International	30 30	1650EST 1653EST			0	0	3 ?	0	Thunderstorm Winds Thunderstorm Winds (G56)		
Airport 2 SW Atlantic City	30	1700EST			0	0	4	0	Thunderstorm Winds		
	at At	lantic City Int	ernational	Airport (ACY),	, and se	veral a	ircraft v	gusts were measured at 64 mph were moved around. At Badar and over another aircraft.		
NEW MEXICO											
Lea County 10 NW Hobbs 2 SW Maljamar 8 W Lovington 13 W Hobbs 3 W Lovington 2 NE Lovington 6 W Hobbs	05 05 05 05 05 05 05	1458MST 1500MST 1507MST 1509MST 1510MST 1523MST 1535MST	0.5 0.1 0.5 0.2 0.2 0.2 0.2	10 10 10 10 10 10 10 20	0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	Tornado (F0)		

A thunderstorm complex produced several reports of small tornadoes in Lea County. The public reported a small tornado between Lovington and Hobbs at 1458 MST, 10 miles northwest of Hobbs. The public reported a tornado in the vincinity of Maljamar, 2 miles southwest moving toward Hobbs at 1500 MST. The Lovington Police Department reported a tornado on the ground between Lovington and Maljamar at 1507 MST, 8 miles west of Lovington. The sheriff's office in Lovington reported a touchdown of a tornado 3 miles west of Lovington followed by its lifting at 1510 MST. The state police reported a tornado 2 miles northeast of Lovington at 1523 MST. A SKYWARN spotter reported a tornado 6 miles west of Hobbs moving toward Hobbs at 1535 MST. All of these tornadoes touched down briefly and caused no significant damage.

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	I	stimated Damage erty Crops	Character of Storm
NEW MEXICO Co	nt'd								
1 W to 3 E Nadine	06	1615MST	4.5	100	0	0	5	0	Tornado (F2)
	as a s	strong thunde er. The torna ugh Nadine, t	rstorm co ido forme	mplex models we stood we stood	oved fro Nadine	om west , moved	of Ho east o	bbs towa lestroyin	t, and south of the city of Hobbs and the New Mexico-West Texas g two mobile homes as it moved to f Nadine. (See listings below
12 W to 5 SE Hobbs	06	1615MST- 1630MST	17.5	150	0	0	5	0	Tornado (F2)
5 SW to 5 SE Hobbs	06	1615MST- 1630MST	10.0	150	0	5	5	2	Tornado (F2)
5 SW to 5 SE Hobbs	06	1615MST- 1630MST	17.5	150	0	0	5	2	Tornado (F2)
	that in pr West miles Emer torna dama ceme destr At le	traveled paral recipitation be t Texas borde s on the grou rgency Mana ado damage; age; 1 apartmeteries; 7 hon- royed. A 40-	lel to each fore dissipant. The to and. The gement D houses we tent completes with year-old v	n other di- pating about a control of the control o	id the rout 5 m raveled es enter eported oyed; 7 ninor ro ters in as adm	nost damiles east in a hoped the country the foll houses pof dama them; 2	nage. and so-scot ity from owing had mage; 2 hous Lea R	All thre outheast ch mann on the g damage ninor dan 0- to 30-es had likegional	of Hobbs but apparently the two e tornadoes became wrapped up of Hobbs near the New Mexicoer with an estimated total of 8.5 west at about 1615 MST. The e: 80 locations had confirmed nage; 7 mobile homes and minor foot-tall trees were uprooted in ghtning damage; 92 trees were Hospital with a fractured ankle. Total damage was assessed at
Eddy County Otis	05	Afternoon			0	0	4	0	Lightning
Loving	Ligh	tning struck	four oil ta	nks, one	of whi	ch caugh	t fire	and exp	loded.
orrance County Near Cedarvale	06	1038MST	Short	10	0	0	0	0	Tornado (F0)
	A to	rnado was rej	ported nea	ır Cedarv	ale by	the Torr	ance (County S	Sheriff's Office.
10 NW Duran	06	1110MST	Short	10	0	0	0	0	Tornado (F0)
	A to	rnado was rej	oorted 10	miles no	rthwest	of Dura	n by '	Torrance	County Civil Defense officials.
Near Encino	06	1125MST	Short	10	0	0	0	0	Tornado (F0)
	The Corn	Torrance Conner, near the t	unty Civil	Defense	officia	ls repor	ted a	tornado	about 20 miles south of Clines

Golf ball-size hail was reported by the public on the southern side of the town of Edgewood. The report was received by Weather Service Forecast Office at 1515 MST.

0

0

Hail (1.75)

0

Santa Fe County Edgewood

1325MST

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	F	umber of Persons ed Injured	I	stimated Damage erty Crons	Character of Storm			
				. \				<u></u>				
NEW MEXICO	Cont'd								÷			
Lincoln County Picacho	06	1400MST			0	0	0	0	Hail (1.75)			
	The	public report	ed pea- to	golf ball-	-size h	ail that l	asted	from 140	0 MST to 1500 MST.			
Chaves County 13 NW Roswell	06	1415MST			0	0	0	0	Hail (4.50)			
	SKY	WARN spot	ters report	ed baseba	ll- to s	softball-s	ize ha	il 13 mil	es northwest of Roswell.			
Chaves County Roswell	06	1447MST			0	0	0	0	Hail (2.00)			
	The	Flight Service	e Speciali	st at the F	loswel	I Airport	repo	rted 2.00	-inch-diameter hail			
Roosevelt County 5 SW Portales	. 06	1523MST	0.1	20	0	0	0	0	Tornado (F0)			
	of Poweal	ortales from	1523 MST gustnado,	to 1527 developed	MST. I along	The Por	rtales ing ed	Emergen lge of a tl	in open country just southwest cy Manager confirmed that the nunderstorm outflow boundary.			
Elida	06 -	1540MST			. 0	0	0	0	Hail (1.00)			
	A N	A National Weather Service cooperative observer reported 1.00-inch hail.										
Lea County 5 SW Hobbs	06	1542MST			0	0	2	0	Hail (1.75)			
	The	public report	ed golf ba	ll-size hai	1 5 mi	les south	west o	of Hobbs	at 1545 MST.			
1 E Hobbs	06	1544MST	0.2	10	0	0	0	0	Tornado (F0)			
	The road		ed a brief	touchdown	ofa	tornado 1	mile	east of H	lobbs in the vicinity of Landfill			
15 W Hobbs	06	1545MST	0.3	10	0	0	0	0	Tornado (F0)			
	The signi	sheriff's offi ficant damage	ce in Ho	bbs repor !.	ted a	tornado	15 m	iles west	of Hobbs at 1545 MST; no			
Quay County Tucumcari Tucumcari Tucumcari	06 06 06	1545MST 1545MST 1555MST			0 0 0	0 0 0	0 3 0	0 0 0	Hail (1.00) Thunderstorm Winds Hail (1.75)			
	repor wind	As a line of thunderstorms developed across eastern New Mexico, a television meteorologist reported 1.00-inch-diameter hail in Tucumcari. The meteorologist reported that strong thunderstorm winds blew a roof from a home in Tucumcari. A few minutes later, Quay County deputies reported golf ball-size hail.										
Roosevelt County Portales	06	1547MST			0	0	0	0 .	Funnel Cloud			
	Porta	ales police rep	ported a fi	ınnel clou	d near	Portales						

									June 1991	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	D	timated amage rty Crops	Character of Storm	
NEW MEXICO C	ont'd									
Curry County 7 SW Clovis	06	1610MST	0.1	20	0	0	0	0	Tornado (F0)	
	The	eak tornado to Air Weather luced no signi	Service of	bserver i	thunde reported	erstorm and the to	about rnado	l mile so which to	outh of Cannon Air Force Base. ouched down in open country	
Lea County 10 N Hobbs	06	1638MST	.2	10	0	0	0	0	Tornado (F0)	
	The	public reporte	d a brief	touchdow	n of a	small to	rnado	10 miles	north of Hobbs at 1638 MST.	
Curry County Melrose	06	1644MST	,		0	0	0	0	Thunderstorm Winds (G56)	
		flow winds from the reported by A					ph wi	nds at the	e Melrose range. These winds	
Union County Des Moines 1 SE Des Moines	07 07	2108MST 2135MST			0	0	0	0	Hail (1.75) Hail (1.75)	
	A strong thunderstorm in northwestern Union County produced golf ball-size hail. The public reported at 2108 MST that the hail was accumulating on the ground and producing a 6-inch depth. Later, the Union County Sheriff's Office reported through the Clayton Police Department that golf ball-size hail also fell just southeast of Des Moines at 2135 MST.									
Otero County Mayhill	08	1330MST			0	0	0	0	Hail (0.75)	
	A co	operative obs	erver in N	Mayhill re	ported	hail from	m 0.50	to 0.75	inch in diameter.	
Mayhill	08	1345MST			0	0	0	. 0	Hail (1.00)	
	An o	observer in Ma	ayhill rep	orted hail	the siz	e of por	com.			
Eddy County Queens	08	1357MST			0	0	0	0	Hail (0.75)	
	A co	operative obs	erver in ()ueens rep	orted (0.75-inc	h hail.			
2 NE Lakewood	09	1510MST			0	0	0	0	Hail (1.00)	
	The	public reporte	d 0.75- to	1.00-inc	h hail.					
Torrance County 7 SW Encino	10	1656MST	Short	10	0	0	0	0	Tornado (F0)	
, · · · ·	A pi Fore	ilot reported a ecast Office in	brief ton Albuquer	nado touc que at 17	hdown 15 MS	in a pil T.	ot rep	ort (pire	p) received at Weather Service	
Sandoval County Placitas	16	2000MST			0	0	3	0	Lightning	
		ntning blew a nated damage			of a ho	ouse dan	naging	an inte	erior wall and phone recorder;	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	Dai	mated mage y Crops	Character of Storm
NEW MEXICO C	Cont'd								
Curry County Clovis	18	1845MST			0	0	4	0	Thunderstorm Winds
	wind dama	ls in Clovis. age at the Cl	The Emovis Airpo	ergency Nort, building	lanage g wind	r reporte lows blo	ed car own out	window and tre	produced damaging straight-line we broken, some small aircraft be limbs downed. The damage the Clovis Airport.
Sandoval County Rio Rancho	19	1630MST			0	0	3	0	Lightning
	conc	rete porch. I ed a 4-inch h	The lightni ole in the	ng then we floor and	ent und anothe	er the ho r hole in	ouse, ca an adj	me up	round, hitting and damaging a through the bedroom floor, and vall. The lightning destroyed a n damaging the refrigerator.
Chaves County 9 SW Lakewood	19	1730MST			0	0	?	?	Hail (2.75)
	Base area areas	were damage	was reported by the h	rted 9 mile ail stones.	s soutl Majo	nwest of r crop da	Lakew amage i	ood Possis likely	ost Office. Automobiles in the in the Lakewood and 7-Rivers
Chaves County Lakewood	19	1730MST			0	0	0	0	Hail (1.00)
	A SI grou		ootter repo	rted 0.75-	to 1.0	00-inch	hail tha	t fell f	or 15 minutes and covered the
Roosevelt County Portales Elida	20	1443MST			0	0	0	0	Hail (0.88)
Kenna	The in Ro	Portales Poli	ce Departi	nent relay tales, Elid	ed nun a, and	nerous re Kenna f	eports or rom 14	of nicke 43 MS	el-size hail from thunderstorms Γ to 1456 MST.
Lincoln County 2 W Sunset	20	1500MST	·		0	0	0	0	Hail (1.00)
	The	public report	ed 1.00-in	ch hail 2 1	miles w	est of S	unset.		
Chaves County Roswell	20	1555MST			0	0	0	0 .	Hail (1.00)
	A Ro	oswell televis	ion meteo	rologist re	ported	1.00-in	ch hail	in Rosv	vell.
Near Roswell	20	1610MST			0	0	0	0	Hail (0.75)
	A Fe		n Adminis	stration Fl	ight Se	rvice Sp	ecialist	at the	Roswell Airport reported 0.75-
Roosevelt County 5 NE Portales	20	1620MST			0	0	0	0	Hail (0.75)
		levision mete mitter.	orologist	reported of	dime-si	ze hail	coverin	ig the	ground at the KVII television
Eddy County Lakewood	20	1655MST			0	0	0	0	Hail (0.88)

June 1991

Location	Date	Time Local/	Path Length	Path Width	P	umber of ersons	D	imated amage	Chanata of Steam
Location	Date	Standard	(Miles)	(Yards)	Kille	a injurea	Рторе	пу Сторя	Character of Storm
NEW MEXICO C	ont'd						,		
	A S	KYWARN ol	oserver rep	ported 0.7	8-inch	hail at L	akewo	ood.	
Lakewood	20	1705MST			0	0	0	0	Funnel Cloud
	A sn funn	nall rope-funi el dissipated	nel on the at 1710 M	backside o IST.	of thu	nderstorm	was 1	reported	by a SKYWARN spotter. The
Lea County 3 N Tatum	20	1729MST			0	0	0	0	Funnel Cloud
	A SI	KYWARN sp	otter in Ta	itum repor	ted a f	unnel clo	ud 3 r	niles nor	th of Tatum, moving southeast.
Eunice	20	1730MST		•	0	0	2	0	Hail (1.50)
	The occu	Eunice Policerred to winds	e Departm shields.	ent report	ed wa	lnut-size	hail ir	Eunice	at 1730 MST. Minor damage
Eunice	20	1742MST			0	0	2	0	Hail (1.75)
	The	public report	ed golf ba	ıll-size hai	l in E	unice at 1	742 N	MST.	
Tatum	20	1752MST			0	0	0	0	Hail (0.75)
	A SI note	KYWARN sp d.	otter repo	rted dime-	size ha	ail in Tatı	ım at	1752 MS	ST. No significant damage was
Chaves County 6 W Roswell	28	1415MST			0	0	0	0	Funnel Cloud
		KYWARN sp iway.	otter repo	rted a rop	e-like	funnel cl	oud 6	miles w	vest of Roswell on the Ruidoso
Otero County Near Tularosa	29	1518MST		•	0	0	0	0	Hail (1.00)
	KPS	A Radio Stat	ion in Ala	mogordo	report	ed 0.50-	to 1.0	0-inch h	ail near Tularosa.
Santa Fe County Santa Fe	29	Mid- Afternoon	0.2	30	0	0	3	0	Tomado (F0)
	anot	ic reported a her. It caus uched.	tornado in ed some o	n Santa Fe lamage to	which a wo	h ripped orkshop r	eight (oof, b	trees out out left a	of the ground and snapped off mobile home 50 yards away
NEW YORK, Cen	tral								
Oneida County Camden Verona Lowell New Hartford Utica	11 11 11 11 11	1400EST 1400EST 1400EST 1410EST 1410EST			0 0 0 0	0 0	3 4 3 3 4	0 0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
Montgomery County St. Johnsville Fort Plain Palatine Amsterdam	11 11 11 11	1455EST 1500EST 1500EST 1515EST			0 0 0	0 0 0	3 3 4	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estim Dam Property	age	Character of Storm
						7			
NEW YORK, Cen	itral C	ont'd							
Tioga County				· · ·				,	
Owego	11	1515EST			0	0	4	0	Thunderstorm Winds
Newark Valley Candor	11 11	1515EST 1515EST			0	0	3 4	0	Thunderstorm Winds Thunderstorm Winds
Spencer	11	1515EST			ŏ	ŏ	3	ŏ	Thunderstorm Winds Thunderstorm Winds
Fulton County						-		_	
Johnstown	11	1515EST			0	0	3	0	Lightning
Johnstown Broadalbin	11 11	1525EST 1525EST			0	0	4 2 .	0	Thunderstorm Winds Thunderstorm Winds
Broome County	11	1221231	•		U	U	4 :	U	i nunderscorm which
Maine	11	1528EST			0	1	4	0	Thunderstorm Winds
Link Field	11	1530EST			0	0	0	Ŏ	Thunderstorm Winds (G50)
Chenango Forks	11	1530EST			0	0	3	0 .	Thunderstorm Wind
Saratoga County Saratoga Springs	11	1531EST	*		0	0	3 .	0	Thunderstorm Winds
Saratoga Springs	ii	1531EST			ŏ	ŏ	ŏ	ŏ	Hail (1.00)
Schenectady County				•	_	_	_	_	
Schenectady	11	1545EST			Ŏ	Ŏ	3	0.	Thunderstorm Winds
Rotterdam Niskayuna	11 11	1545EST 1545EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Albany County	11	1343131		i .	U	U	J	v	i nunderstorm wings
County Airport	11	1545EST			0	0	0	0	Thunderstorm Winds (G51)
Saratoga County					_	_	_	_	
Burnt Hills	11	1545EST			0 -	0 -	3 3	0	Thunderstorm Winds
Milton Center Charlton	11 11	1545EST 1545EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Ballston Spa	îî	1545EST			ŏ	ŏ	3	ŏ	Thunderstorm Winds
Waterford	11	1545EST			0	0	3	0	Thunderstorm Winds
Washington County	11	1 <i>5</i> 4 <i>5</i> 0 0 T			^	^	^	^	II-1 (1 75)
Cambridge Rensselaer County	11	1545EST			0 -	0	0	0	Hail (1.75)
Speigletown	11	1550EST			0	0	3	0	Thunderstorm Winds
Delaware County									ř
Hancock	11	1600EST			0	0	2	0.	Thunderstorm Winds
Albany County Watervliet	11-	1605EST			0	0	3	0	Thunderstorm Winds
Chenango County	11.	10031231				U	,	U	Thurderstoff winds
Afton	11	1606EST			0	0	3	0	Thunderstorm Winds
Rensselaer County		464577077			_	_	_	_	
Melrose Troy	11 11	1615EST 1615EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Washington County	11	1012521			U	U		U	I hunderstorm winds
Greenwich	11	1628EST			0	0	2	0	Thunderstorm Winds
Rensselaer County									
Hoosick	11	1630EST			0	0	3	0	Thunderstorm Winds
Sullivan County Mileses	11	1700EST			0	0	3	0	Thunderstorm Winds
Callicoon	ii	1700EST			ŏ	ŏ	3 3	ŏ	Thunderstorm Winds
Bethel	11	1710EST			0	0	3	0	Thunderstorm Winds
Mongaup Valley	11	1710EST			0	0	3 3 4	0	Thunderstorm Winds
Swan Lake Liberty	11 11	1710EST 1710EST			0	0		0 0	Thunderstorm Winds Thunderstorm Winds
Liberty	11	1710EST		-	Ö	Ö	0	Ŏ	(Hail (0.75)
Ferndale Ferndale	11	1710EST			0	0	3	0	Thunderstorm Winds
Woodbourne	11	1710EST			0	0	4	Ŏ	Thunderstorm Winds
Mountain Dale	11	1710EST	•		0	0		0	Lightning Thursday Winds
Mountain Dale Grahamsville	11 11	1710EST 1710EST			0	0		0	Thunderstorm Winds Thunderstorm Winds
Attranta Ame	11,	1/101201			U	J		J	THUMBELSWIM WINDS

June 1991

Thunderstorm Winds

Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of rsons Injured	Estimated Damage Property Cro	
NEW YORK, C	entral C	cont'd						
Ulster County Ellenville Dutchess County	11	1730EST			0	0	3 0	Thunderstorm Winds

1810EST 1810EST

11

Poughkeepsie Hyde Park

Several fast moving squall lines swept through eastern New York on the afternoon and early evening of June 11th. Among the areas hardest hit were the town of Maine in Broome County, as well as parts of Tioga and Sullivan Counties. In Maine, a 13-year-old boy was injured when a cement block from a dugout fell on his head in Teener's Park and there were damaged trees and property reported on 15th street. In Tioga County, around 1,200 people were left without power with the town of Owego being the hardest hit. In Sullivan County, 3,000 people were left without power in numerous areas across the county, with hail completely covering the ground in the Liberty area.

Oneida County									
North Bay	12	0930EST			0	1	0	0	Lightning
Sylvan Beach	12	0930EST			ŏ	Ō	4	ŏ	Thunderstorm Winds
Herkimer County	12	09301231			U	U	7	U	Thunderstorm which
Little Falls	12	1040EST			0	0	0	0	Hail (0.88)
Montgomery County	12	10401231		•	U	v	v	V	11au (0.66)
Fort Plain	12	1105EST			0	0	?	0	Hail (1.75)
Cortland County	12	11001201			U	U	•	v	11an (1.75)
McGraw	12	1108EST			0	0	3	0	Thunderstorm Winds
Broome County	12	11001251	٠.		U	v	,	. •	I MURREISWIIII WIIIIS
Binghamton	12	1214EST			0	0	3	0	Thunderstorm Winds
Schenectady County	12	1214131			v	U	.,	U	Thunderswith Whas
Niskayuna	12	1220EST			0	0	2	0	Thunderstorm Winds
Albany County	12	12201201			. •	U	L	•	Thunderswith White
Selkirk	12	1230EST			0	0	3	0	Thunderstorm Winds
County Airport	12	1233EST			ŏ	ŏ	ő	ŏ	Hail (0.75)
Rennselaer County	12	14331331			v	U		U	11an (0.75)
Stephentown	12	1310EST			0	0	- 0	0	Hail (1.00)
Columbia County	12	1310131			U,	U	. •		11au (1.00)
Hillsdale	12	1330EST			0	0	3	0	Thunderstorm Winds
Craryville	12	1330EST			. ŏ	ŏ	3	ŏ	Thunderstorm Winds
	12	100001	.+		. 0	U	.	U	I ilulideistoriii Wilids
Ulster County	12	1330EST			0	0	2	0	Thunderstorm Winds
Ulster Heights	12	1330EST			ŏ	ŏ	3 3	ŏ	Thunderstorm Winds
Ellenville					ŏ	Ö	3	Ö	
New Paltz	12	1340EST			Ö		3	Ö	Thunderstorm Winds Thunderstorm Winds
Woodstock	12	1340EST				0	3		
Kingston	12	1340EST			0	0	3	0	Thunderstorm Winds
Dutchess County	10	1247E0E			^	^	^	Δ.	TI-11 (0.75)
10IIII0000E	12	1347EST			0	0	0	0	Hail (0.75)
Ulster County	10	1256ECT			^	^	•		II-3 (0.75)
Stone Ridge	12	1356EST			0	0	0	0	Hail (0.75)
Sullivan County	. 10	1.4000000			^	_	~	^	771 - 14: 337° 1-
Hortonville	12	1400EST			0	0	3	0	Thunderstorm Winds
Livingston Manor	12	1400EST			0	0	3 3 3	0	Thunderstorm Winds
Woodbourne	12	1400EST			0	0	3	0	Thunderstorm Winds
Hurleyville	12	1400EST			0	0	3	0	Thunderstorm Winds
Callicoon	12	1400EST			0	0	3	0	Thunderstorm Winds
Franklin County					_	_	_		
Malone	12	1415EST			0	0	3	0	Thunderstorm Winds
Dutchess County	4-				•	_	_	_	
Northern Portion	12	1415EST			0	0	3	0	Thunderstorm Winds
Orange County	10	4.44.577.000		,	•		^		
Port Jervis	12	1415EST			0	Õ	3	Ŏ	Thunderstorm Winds
Newburgh	12	1420EST	•		0	0	3	- 0	Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estin Dan Property	age	Character of Storm
NEW YORK, Cen	tral C	ont'd							
Dutchess County Fishkill E Fishkill Poughkeepsie Hyde Park Stormville Wappingers Falls Putnam County Philipstown Orange County Pine Island Amity Florida Putnam County Kent Dutchess County Holmes Orange County	12 12 12 12 12 12 12 12 12 12 12 12	1430EST 1430EST 1430EST 1430EST 1430EST 1430EST 1430EST 1435EST 1435EST 1445EST			000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 3 3 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	000000000000000000000000000000000000000	Hail (1.75) Thunderstorm Winds
Montgomery Putnam County Patterson	12 12	1445EST 1450EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Orange County Walden Warwick Hamilton County	12 12	1500EST 1508EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Piseco Lake	12	1700EST			0	0	0	0	Hail (0.88)

Squall lines moved across eastern New York for the second consecutive day, downing trees and power lines. Hardest hit were Ulster, Dutchess, and Orange Counties. In Ulster County, more than 3,000 people were left without power with Kingston, Woodstock, and Ellenville being hardest hit. In Dutchess County, over 7,000 people were left without power with the Stormville Mountain, East Fishkill, and Wappingers Falls areas being hardest hit. In addition, golf ball-size hail fell in the Fishkill area. In Orange County, three cars were damaged by large limbs in Port Jervis, with around 2,000 people left without power in the Pine Island, Amity, and Florida areas. Golf ball size-hail was also reported in Fort Plain in Montgomery County, while in Oneida County, a 58-year-old North Bay woman was slightly injured when she was struck by lightning.

Chenango County							
Earlville	15	1557EST	0	0	3	0	Lightning
Earlville	15	1557EST	0	0	4	0	Thunderstorm Winds
Sheburne	15	1628EST	0	0	3	0	Thunderstorm Winds
New Berlin	15	1628EST	0	0	3	0	Thunderstorm Winds
S New Berlin	15	1632EST	0	0	3	0	Thunderstorm Winds
Oxford	15	1635EST	0	0	3	0	Thunderstorm Winds
Norwich	15	1635EST	0	0	3 3	0	Thunderstorm Winds
Otsego County							
Burlington	15	1640EST	0	0	3	0	Thunderstorm Winds
Cooperstown	15	1640EST	Ŏ	Ŏ	3 5	Ŏ	Thunderstorm Winds
Schoharie County	_ -		-	-	-	-	
Jefferson	15	1719EST	0	0	3	0	Thunderstorm Winds
Conesville	15	1725EST	Ō	Ō	3	Ō	Thunderstorm Wind
Gilboa	15	1730EST	Ŏ	Ŏ	4	Ŏ	Thunderstorm Winds
Warren County			_	_	_	_	
Bolton	15	1758EST	0	0	3	0	Thunderstorm Winds
Horicon	15	1800EST	0	0	4	0	Lightning
Lake Luzerne	15	1810EST	Ō	Ō	2	Ŏ	Lightning
Johnsburg	15	1810EST	0	0	3	. 0	Lightning
Queensbury	15	1825EST	Ŏ	Ŏ	4	Ŏ	Thunderstorm Winds
			•	_	-	-	

Number of

Persons

Estimated

Damage

Path

Width

Time

Local

Path

Length

June 1991

Location	Date	Standard Standard	(Miles)	(Yards)		Injured		y Crops	Character of Storm
NEW YORK, Cer	ntral C	Cont'd							
Washington County Argyle Whitehall Hampton Granville	15 15 15 15 15	1845EST 1845EST 1845EST 1845EST 1845EST			0 0 0 0	0 0 0 0	3 3 3 3	0 0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Lightning
	15th the a In C some down and thou narre	. This mark treas hardest tooperstown, to homes and ned along wards of res	ed the third hit were Co the worst a car and ith power While in V idents in the	I time in 5 coperstown storm in resulted in lines in Ea Varren and he two con t by a lig	days the day	nat seve parts of rs resul- ous pow Sherbuington (without bolt at	re thung Chenan ted in to wer outs irne, Ne Countie power. the Hi	lerstorngo, Wa rees be iges. I ew Berl s, dow Also dden I	e afternoon and evening of June ns hit parts of the area. Among rren, and Washington Counties, ing torn apart, which damaged n Chenango County, trees were in, South New Berlin, Oxford, ned trees, and power lines left, three Girl Scouts from Scotia, ake Girl Scout Camp in Lake 1983.
Orange County Wawayanda Slate Hill Goldenham Goshen Campbell Hall Vails Gate Maybrook	16 16 16 16 16 16	1300EST 1300EST 1300EST 1300EST 1300EST 1300EST 1323EST			0 0 0 0 0	0 0 0 0 0	2 3 3 3 3 3 3 3	0 0 0 0 0 0 0	Thunderstorm Winds

Dutches County Southeast Portion 3 Thunderstorm Winds 16 1400EST 0 1400EST 0 0 0 Thunderstorm Winds 16 16 1405EST 0 0 3 0 Thunderstorm Winds 1430EST 0 0 0 Thunderstorm Winds 16 3 Flash Flood 16 1430EST 0 0 O 3 0 0 0 16 1437EST Lightning 0 2 1440EST 0 0 16 Thunderstorm Winds

0

0

Severe thunderstorms moved across parts of the southern Catskills and Lower Hudson Valley of New York on the afternoon of June 16th. Most of the damage reported occurred in Orange County where downed trees and power lines were scattered throughout the county.

3

0

Thunderstorm Winds

NEW YORK, Coastal

Pawling

Amenia

Florida

Village Orange County Goshen

Putnam County Putnam Valley

Orange County Florida

Putnam County

Continental

16

1400EST

New York, Bronx, Queens, Kings, and Nassau Counties	03	2145EST- 2330EST	0	0	?	0	Flash Flood
Nassau County Hicksville Suffolk County	03 04	2240EST 0014EST-	0	0	?	0	Thunderstorm Winds
Surious County	. 04	0115EST	0	0	?	0	Flash Flood

A small complex of heavy thunderstorms moved slowly across coastal sections of New York. Torrential rains of between 1.00 to 2.00 inches fell during a very short time. This caused extensive flooding in poor drainage areas roadways. In addition, one thunderstorm moving across Hicksville generated winds strong enough to down two large trees.

Landing	Data	Time Local/	Path Length	Path Width	Per	nber of	Dan	nated nage	Chanadas of States
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propen	Crops	Character of Storm
NEW YORK, Coas	stal C	Cont'd							
Westchester County								_	
Briarcliff Manor Westchester County	12	1510EST	0.8	50	1	0	4	0	Tomado (F0)
Yorktown	12	1511EST			0	0	?	0	Thunderstorm Wind
Pleasantville	12	1519EST			0	0	?	0	Thunderstorm Wind
Scarsdale Champague	12	1535EST- 1539EST			0	0	?	0	Thunderstorm Wind
Chappaqua New Rochelle	12	1550EST			1	2	?	Ŏ	Thunderstorm Winds
Rockland County	12	1555EST			Ō	Ō	?	0	Thunderstorm Wind
Westchester County White Plains Airport Westchester County	12	1555EST			0	1	6	0	Thunderstorm Wind
Croton-On-Hudson	12	1600EST			0	0	?	0	Thunderstorm Wind (G70)
Rockland County	Man wom	or. A man wa	s killed w and her cl	hen the to hildren inj	rnado ured b	threw a y a falli	tree or ing tree	top of	produced a tornado at Briarcliff f his auto. In New Rochelle, a White Plains Airport, 13 planes 50)
Spring Valley New City	16	1555EST- 1600EST			0	0	?	0	Thunderstorm Winds
Westchester County Thornwood	16	1645EST			0	0	?	0	Thunderstorm Winds
	Thur	derstorms dow	ned trees	and power	lines a	cross se	ections o	of Rock	land and Westchester Counties.
Nassau County Eisenhower Park	30	1555EST			0	9	2	0	Lightning
	A bo	lt of lightning al condition w	hit a tree ith second	nine peop d-degree b	le were urns.	standir	ng unde	r. All	nine were injured; two were in
NEW YORK, West	tern								
Cheming County		4 4 5 577 577				•			gggg 4 . ggggg 4 .cm.ec.
Elmira Elmira	11 11	1455EST			0	0	3 4	0	Thunderstorm Winds (G51) Thunderstorm Winds
Big Flats	11	1500EST 1500EST			ŏ	Ö	4	ŏ	Thunderstorm Winds
Horseheads	11	1500EST			0	0	4	0	Thunderstorm Winds
	After The	noon thunders hunderstorms	torms dev produced	eloped in damaging	a war winds	m, mois that do	st, soutl	wester rees an	rly flow ahead of a cold front. d power lines.
Oswego County Nine Mile Point Onondaga County	12	0805EST			0	0	3	0	Thunderstorm Winds (G51)
Fayetteville	12	0900EST			0	0	4	0	Thunderstorm Winds
Nedrow	12	0945EST			0	0	3	Ŏ	Hail (1.75)
Elbridge Seneca County	12	1000EST			0	0	4	0 ,	Thunderstorm Winds
Romulus Schuyler County	12	1010EST			0	0	4	0	Thunderstorm Winds
Burdett	12	1038EST			0	0	4	0	Thunderstorm Winds
Thompkins County Ithaca	12	1145EST			0	0	4	0 .	Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	I	stimated Samage erty Crops	Character of Storm
NEW YORK, Wes	stern	Cont'd							
	dow outa	npours, and	large hail.	The wind	ds dow	med tree	s and	power lii	ucing damaging winds, heavy nes resulted in numerous power duced street flooding in the city
Chautauqua County Jamestown Onondaga County	15	1420EST			0	0	4	0 -	Thunderstorm Winds
Marcellus Nedrow Pompey	15 15 15	1445EST 1500EST 1530EST			0 0 0	0 0 0	4 4 4	0 0 0	Thunderstorm Winds Thunderstorm Winds (G52) Thunderstorm Winds
Erie County Evans	15	2130EST			0	0	4	0	Thunderstorm Winds
	Thu	nderstorms d	eveloped i	n a warm, roduced d	very amagii	humid, ng winds	southy s whic	vesterly f	low which prevailed across the
NORTH CAROLI			•			0		-	,
Duplin County Northern Portion	01	1505EST			0	0	?	0	Thunderstorm Winds
		nerous large irred.	trees wer	e blown	down	at scatte	ered l	ocations,	and minor structural damage
Surry County Mt. Airy	01	1600EST	-		0	0	4	0	Lightning
	Ligh	ntning started	several fi	res and da	maged	two ho	mes.		•
Yadkin County 7 SW Yadkinville	01	1810EST			0	0	?	0	Thunderstorm Winds
	Win	d blew down	trees, and	l damaged	a mol	oile hom	e and	shed.	. •
Montgomery County Candor	01	Unknown			0	0	4	0	Lightning
	Ligh	ntning knocke	ed out the	town's sev	wer pu	mping s	ystem	and the	library's air conditioning.
Dare County Duck	02	0530EST	-		0	0	4	0	Lightning
	Ligh	ntning fires d	amaged tw	o homes	in Duc	k.			
Nash County 3 NW Middlesex	02	1722EST			0	0.	0	0	Thunderstorm Winds
	Seve	eral trees wer	e downed	and marb	le-size	hail was	s repo	rted.	
Catawba County Lake Norman	03	1600EST	•		0	1	0	0	Lightning
	A m	nan was struc	k by lighti	ning while	water	skiing	on Lal	e Norma	un, but survived.
Lincoln County 8 W Lincolnton	03	1830EST			0	0	5	0	Lightning

Location	Date	Time Local/ Standard	Path Path Length Width (Miles) (Yards)		P	ımber of ersons d Iniured	D	timated amage	Character of Storm
NORTH CAROLI	NA C	Cont'd							
	Fire	destroyed one	e home an	ıd widespr	ead p	ower out	ages c	ccurred.	
Cleveland County Highway 18	10	Unknown			0	0	?	0	Whirlwind
	A 1 toss	0- by 12-foot ed 100 to 150	section of feet in th	f roof, sur e air causi	porte ng da	d by 2-b mage to	y-4 ra shrub	fters, wa s.	s ripped from a storefront and
Cabarrus County Concord	16	1837EST			0	0	4	0	Lightning
	Fire	s damaged one	e home an	id one bus	iness.			•	
Franklin County Southern Portion	16	2000EST			0	0	0	0	Thunderstorm Winds
	Seve	eral trees were	blown do	own in the	south	ern porti	ion of	Franklir	County.
Person County Roxboro	16	2100EST			0	0	5	0	Lightning
	Fire	destroyed one	home we	orth about	\$75,0	000.			
Surry County 2 E Level Cross	17	1350EST			0	0	5	0	Thunderstorm Winds
	Estin trees	mated 60-mph s onto area hor	winds blomes; dama	ew a flat r ages excee	oof of	ff an apai 50,000.	rtmen	t building	g onto two trucks, and downed
Columbus County 34 W Wilmington	17	1600EST	-		0	0	5	0	Thunderstorm Winds
	Abo with estin	ut 35 homes w in a 1-mile r nates to prope	ere damag adius of rty ranged	ged, mostl Lake Wac 1 \$65,000	y by f camav to \$7:	alling tre v Village 5,000.	es, an	d several the north	boats and a pier were damaged shore of the lake. Damage
Mecklenburg County NWN Charlotte	17	1715EST- 1730EST			0	0	?	0	Thunderstorm Winds
	Win	ds blew down	trees, one	e landed o			build	ling.	
Randolph County Archdale	17	1930EST			0	0	?	0	Urban and Small Stream Flooding
	Heav	vy rain from a ded a nearby h	thundersto	orm causeo	the f	looding o	of Mu	idy Creel	that overwashed a bridge, and
Pasquotank County Elizabeth City	18	0700EST			0	0	4	0	Urban and Small Stream
				_				-	Flooding
Hartford County	Fou	r to six inches	of rain ir	the prece	ding :	24 hours,	cau	sed flood	ing of businesses in the city.
Hertford County Ahoskie	19	1600EST- 1700EST			0	0	?	0	Urban and Small Stream Flooding

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	Number of Persons Killed Injured		timated amage	Character of Storm				
NORTH CAROLI				(11100)				у ч.оро	Charles C. Storm				
	A su	A sudden 3-inch rainstorm flooded streets and several businesses.											
Iredell County Lake Norman	19	1705EST			0	0	0	0	Waterspout				
	A w	A waterspout sighting interrupted a drill at a nuclear power plant.											
Robeson County 4 SE Maxton	19	2320EST			0	0	4	0	Thunderstorm Winds				
	Five	Five homes and a mobile home were damaged.											
Carteret County	00	00455075			^	•	•		XX				
Near Emerald Isle Carteret County	20	0845EST			0	0	0	0	Waterspout				
Near Salter Path Carteret County	20	1925EST	0	0	0	0	0	0	Waterspout				
7 W Morehead to 5 W Newport	20	1945EST	?	?	0	0	0	0	Tornado (F0) Funnel Cloud				
Halifay County	Brief touchdowns were reported in wooded areas.												
Halifax County Lake Gaston	22	1730EST			1	0	0	0	Lightning				
	A V	irginia teenag	er was kil	led while	boatin	g. (M15	O)						
Hyde County Swanquarter	22	1755EST			0	0	?	?	Thunderstorm Winds				
	Nun	nated wind spaceous trees we ble and to cro	ere blowr	0 to 120 n n down, o	nph we ne land	ere repor ded on a	ted by hous	the Coa e. There	st Guard and public observers. e was also damage to a church				
NORTH DAKOTA	\												
Billings County 5 NW Belfield	04	1737CST			0	0	0	0	Funnel Cloud				
Slope County 9 N Rhame	08	1700CST	**5 0	8	0	0	3	0	Tornado (F1)				
	A to	rnado damage	ed a farmh	ouse and	wrecke	d outbu	ilding	s.					
Bowman County 6 NW Bowman 10 NW Bowman Slope County Amidon 5 W Marmarth 5 SW Amidon	08 08	1730CST 1735CST			?	?	?	?	Funnel Cloud Funnel Cloud				
	08 08 08	1745CST 1800CST 1855CST	**100	10	0 0 0	0 0 0	4 4 4	4 4 4	Hail (1.00) Tornado (F0) Hail (1.00)				
		rnado damage	ed farm bu	ildings w	hile ne	arby hai	l dam	aged 509	6 of the crops.				
Billings County		-				•		-	•				
Fryburg Adams County	08	1800CST			0	0	3	3	Hail (1.75)				
8 N Bucyrus 11 S Reeder	08 08	2028CST 2130CST			0	0	4	4	Hail (1.00) Hail (2.50)				

		Time	Path	Path	Number of		Estimated				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)		sons Injured	Dam Property		Character of Storm		
							. <u> </u>		" 		
NORTH DAKOTA Cont'd											
Stutsman County											
4 N Streeter Richland County	09	0805CST			0	0	0	0	Hail (1.00)		
Lidgerwood Kidder County	09	1830CST			0	0	0	0	Hail (0.75)		
2 E Steele Nelson County	13	1426CST			0	0	0	0	Hail (0.75)		
Lakota	13	1450CST			0	0	4	4	Hail (1.75)		
6 N Tolna Ramsey County	13	1535CST			0	0	3	3	Hail (1.00)		
10 E Devils Lake Walsh County	13	1515CST	**5 0	8	0	0	0	0	Tornado (F0)		
10 E Brocket 5 NE Brocket	13 13	1550CST 1605CST	**50 **50	8	0	0	0	0	Tornado (F0) Tornado (F0)		
Cavalier County 1 SE Nekoma	13	1615CST	1.0	100	0	0	5	5	Tornado (F1)		
Langdon	13	1617CST	1.0	100	?	?	?	?	Funnel Cloud		
Nekoma	13	1644CST		•	0	0	0	0	Hail (0.75)		
	A tornado struck two farms just southeast of Nekoma. The tornado removed a roof from one of the farmhouses, collapsed an attached garage, broke windows, uprooted trees, and destroyed farmbuildings. Shredded debris was strewn throughout the farmhouse and yard.										
Stutsman County	10	1/05/00m			•	•	•		TT 11 /4 00)		
2 W Jamestown 2 W Spiritwood	13 13	1625CST 1652CST			0	0	3 4	3 4	Hail (1.00) Hail (1.75)		
Jamestown	13	1850CST			0	0	4	4	Hail (1.75)		
6 SE Jamestown Grand Forks County	13	1900CST	**80	10	0	0	0	0	Tornado (F0)		
Grand Forks											
Air Force Base	13	1724CST			0	0	3	3	Thunderstorm Winds (G56)		
McIntosh County 7 E Lehr	13	1805CST			0	0	4	4	Hail (1.75)		
Barnes County Valley City	13	1945CST			0	0	3	3	Thurdomtorm Winds (G55)		
Dazey City	13	2000CST			ŏ	ŏ	Ŏ	ŏ	Thunderstorm Winds (G55) Hail (0.75)		
	Wind flippe	ls to 63 mph ded over on Int	owned tre erstate 94	es and cau	sed pov	wer out	ages in V	Valley	City. A tractor-semitrailer was		
McIntosh County 6 S Lehr	13	1855CST			0	0	0	0	Hail (0.75)		
Cass County 7 NW Amenia	13	2048CST	**70	10	0	0	0	0	Tornado (F0)		
6 S Fargo	13	2050CST	, ,		0	0	4	4	Hail (0.75)		
Fargo Fargo	13 13	2058CST 2105CST			0	0	4	3 4	Thunderstorm Winds (G57) Hail (1.00)		
1 44 50	Hail		of Fargo	while stro		-			t downed power lines and trees		
Golden Valley County											
6 SSE Golva Slope County	14	1302CST	** 50	8	0	0		0	Tornado (F0)		
2 W Amidon 10 SW New England	14 14	1350CST 1429CST			0	0		3 3	Hail (1.75) Hail (1.75)		
Grant County 15 N Elgin	14	1610CST			0	0	_	4	Hail (1.75)		
					-	-	•	•			

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	Ī	stimated Damage erty Crops	Character of Storm	
NORTH DAKOTA	A Con	nt'd								
Carson	14	1700CST			0	0	4	4	Hail (2.75)	
	Base	ball-size hail	stones cau	sed consid	lerable	damage	to ca	rs and tre	es.	
McLean County 7 NW Roseglen 6 SW Douglas	14 14	1700CST 1700CST			0	0	4	4 4	Thunderstorm Winds Thunderstorm Winds	
	desti	royed farm bi	uildings, s	cattered e	quipme	ent, upro	oted t	trees, ble	ern McLean County. The storm w granaries off their bases, and en and southwest of Douglas.	
Morton County 4 SW Mandan 5 N Breien Burleigh County	14 14	1755CST 1815CST		•	0	0	3	3 0	Thunderstorm Winds (G52) Hail (0.75)	
8 NW Bismarck	14	1800CST			0	0	3	3	Thunderstorm Winds (G56)	
	Micro upro	roburst winds oted trees in	s in easter the Misso	n Morton uri River	and w basin.	vestern B	urleig	h Counti	es blew down power lines and	
Stark County Dickinson Grant County	20	0230CST			0	0	3	3	Thunderstorm Winds (G54)	
12 N Elgin	20	0330CST			0	0	3	3	Thunderstorm Winds (G62)	
Morton County 20 SE Glen Ullin 1 S Mandan Burleigh County	20 20	0430CST 0510CST			0	0	3	3 3	Hail (1.75) Hail (1.00)	
Bismarck Emmons County	20	0500CST			0	0	3	3	Hail (1.00)	
5 W Temvik 5 W Temvik	20 20	0530CST 0530CST			0 ?	0 ?	4 . ?	4 ?	Thunderstorm Winds Funnel Cloud	
Linton Kintyre	20 20	0530CST 0530CST			0	0 0	4 4	4	Thunderstorm Winds Thunderstorm Winds	
•	A funnel cloud was sighted 5 miles west of Temvik while strong winds in the area uprooted trees lifted grain bins, and damaged farm equipment. In Linton, strong winds 5.00 inches of rai uprooted trees and flooded streets. Further to the east, strong winds uprooted trees in Kintyre. At the same time, heavy rains throughout Emmons and Logan Counties, 4.00 inches in Napoleor flooded fields, and washed out roads, bridges and part of a railroad bed.									
McIntosh County 12 SW Wishek 1 E Ashley	20 20	0530CST 0600CST	**100		0	0	5 4	5 4	Tornado (F1) Thunderstorm Winds	
	build wind	lings. The to	rnado forr	ned rapidly	y and l	asted on	ly 30 s	seconds.	ooted trees, and destroyed farm Just east of Ashley, microburst ot fertililzer tank, and damaged	
Dickey County 25 NW Ellendale Fullerton	20 20	0705CST 0730VST			0	0	4	4	Thunderstorm Winds Thunderstorm Winds	

The winds destroyed a barn and other buildings, and flipped over mobile homes 25 miles northwest of Ellendale. Meanwhile, winds toppled grain bins and downed trees in the town of Fullerton. The wind occurred with 4.50 inches of rain.

		Time Local/	Path Length	Path Width	Per	nber of	Dar	nated nage	or	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Crops	Character of Storm	
NORTH DAKOTA	Con	t'd								
Bowman County Scranton Gascoyne Scranton Adams County Reeder Hettinger	24 24 24 24 24	0530CST 0530CST 0540CST 0530CST 0600CST			0 0 0	0 0 0	5 4 4 5 4	5 4 4 5 4	Hail (1.75) Hail (1.75) Thunderstorm Winds(G52) Hail (1.75) Hail (1.75)	
5 N Lemmon	24	0725CST			0	0	4	4	Hail (1.75)	
	Cour	nties), and can nton, the hail	used total	crop dan	iage.	The ha	ilstorm	lasted	Bowman and western Adams 45 minutes. In the town of the hail was in drifts 18 inches	
Hettinger County Mott	24	0720CST			0	0	3	3	Hail (1.75)	
Divide County Fortuna	24	2030CST			0	0	4	4	Hail (0.75)	
Noonan	24	2145CST			ŏ	Ŏ	.	.	Hail (1.75)	
Burke County 14 S Columbus McKenzie County	24	2245CST			0	0	4	4	Hail (2.50)	
Alexander Dore	25 25	0241CST 0400CST			0	0	3 3	3. 3	Thunderstorm Winds (G52) Thunderstorm Winds	
	Wind	ls blew down	75 trees r	near the M	ontana	border	•			
Williams County Buford Williston Williston Williston Williston Williston	25 25 25 25 25 25 25	0345CST 0350CST 0418CST 0517CST 0532CST			0 0 0 0	0 0 0 0	4 4 4 5 4	4 4 4 5 4	Thunderstorm Winds Thunderstorm Winds (G54) Thunderstorm Winds (G59) Thunderstorm Winds (G60) Thunderstorm Winds (G57)	
· ,	Winds blew out windows and doors of a museum at the Fort Buford historical site, and blew over two outhouses. In the city of Williston, prolonged winds uprooted trees 2 feet thick, blew down signs, power poles and power lines. The winds damaged homes and destroyed outbuildings thoughout the city.									
Renville County Norma Williams County	25	0600CST			?	?	?	?	Funnel Cloud	
1 W Williston Trenton 1 S Williston	25 25 25	1640CST 1640CST 1645CST			0 0 0	0 0 0	5 4 5 4	5 4 5.	Hail (0.75) Thunderstorm Winds (G57)	
Tioga	25 25	1750CST			ŏ	Ŏ	4	4	Hail (1.00) Hail (0.75)	
23 N Williston	25	1934CST			0	0	6	6	Hail (1.75)	
	morn 25th. west brunt	first outbreak ing of the 25t The hail fror of Williston, t of the hailsto	began tow h. The son these sto up through orms cut a	vard the evecond outhorms cause the north-ce to 10-mile s	ening oreak of extended extended to the extended extended to the extended e	of the 2 ccurred isive cro William hrough	24th and during op dama s Coun north-c	d conting the late age, what into central '	ern North Dakota within 2 days. nued overnight, then ended the e afternoon and evening of the ich stretched from the state line southern Divide County. The Williams County. Crop losses Divide Counties.	
Morton County Mandan	25	2145CST			0	0 .	4	4	Hail (2.75)	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	E	stimated Damage erty Crops	Character of Storm			
NORTH DAKOTA Cont'd												
St. Anthony	25	2150CST			0	0	3	3	Hail (1.75)			
Burleigh County Bismarck 2 NW Bismarck 9 NW Bismarck	25 25 25	2150CST 2150CST 2152CST			0 0 0	0 0 0	3 3 3	3 3 3	Hail (1.00) Hail (1.25) Hail (1.00)			
	Hail Mor	Hail was widespread over the cities of Bismarck and Mandan, as well as other sections of easte Morton and western Burleigh Counties. Baseball-size hail was reported in Mandan.										
Kidder County 3 S Dawson	25	2325CST			0	0	3	3	Thunderstorm Winds			
	Win	ds turned over	r a dock a	nd blew d	lown s	everal tr	ees.					
Grand Forks County Grand Forks Air Force Base	26	0051CST			0	0	4	4	Thunderstorm Winds (G56)			
Stutsman County 10 W Pingree Kensal Foster County	26 26	0310CST 0340CST			0	0	3 3	3 3	Hail (1.75) Hail (1.00)			
Carrington	26	0330CST			0	0	4	4,	Thunderstorm Winds (G52)			
		ds blew down lings in rural			billbo	ards in	the to	own of C	Carrington, and damaged farm			
Griggs County Cooperstown	26	0435CST			0	0	0	0	Hail (0.75)			
Steele County 5 NE Finley	26	0500CST			0	0	4	4	Hail (1.75)			
Grant County 15 S Glen Ullin	30	1435CST			0	0 ,	3	3	Thunderstorm Winds (G50)			
Morton County 6 NE New Salem 6 NE New Salem	30 30	1430CST 1442CST			0	0	5 5	5 5	Thunderstorm Winds (G65) Hail (1.75)			
Oliver County Center 7 NE Center 2 NE Center 14 N New Salem	30 30 30 30	1510CST 1515CST 1515CST 1525CST			? 0 0 0	? 0 0 0	? 4 4 4	? 4 4 4	Funnel Cloud Hail (2.75) Thunderstorm Winds (G65) Hail (1.75)			
	Oliv pow	Winds up to 75 mph occurred over a small part of north-central Morton County and south-central Oliver County. The winds destroyed a field of 1,000 Christmas trees, damaged homes, blew down power lines, and blew outbuildings over. The wind was followed by large hail which broke windows and destroyed crops. A funnel cloud was sighted at Center.										
McLean County 2 E Washburn 2 E Washburn	30 30	1533CST 1533CST			0	0	5 4	5 4	Hail (1.75) Thunderstorm Winds (G52)			
		fell along a 3 100% damage		le strip of	land ji	ast south	and	east of W	/ashburn. A majority of crops			
McKenzie County Watford City	30	1850CST			0	0	3	3	Thunderstorm Winds (G52			

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of ersons I Injured	I	stimated Damage erty Crops	Character of Storm
ОНЮ									
Madison County	01	0100000			•	•		0	When James on Winds
Mt. Sterling Pickaway County	01	0100EST			0	0	4	0	Thunderstorm Winds
Ashville	01	0130EST			0	0	4	0	Thunderstorm Winds
	a bar	nderstorms mo n roof was da destroyed in A	maged, a	television	ı anten	na was t	down cent c	trees and over and f	power lines. In Mt. Sterline, our cars were damaged. A car
Lucas County Waterville	01	1100EST- 1600EST			0	0	3	0	Flood
	Heav crest	y rainfall pusted at 9.1 feet,	hed the M at 1500	Maumee R EST.	liver, a	at Water	ville,	over the	9-foot flood stage. The river
Fayette County 1 N Washington C.H.	. 01	2000EST			0	0	4	0	Thunderstorm Winds
	A th	understorm bro	oke off la	irge tree b	ranche	es.			
Franklin County		4000777777			_				TT 11 44 500
Hillard Western Portion	02 02	1320EST 1330EST			0	0	4	0	Hail (1.50) Thunderstorm Winds
Washington County Marietta	02	1335EST			0	0	4	0	Hail (1.75)
Ross County Hallsville	02	1355EST			0	0	4	0	Hail (1.00)
Hamilton County Countywide	02	1600EST			0	0	4	0	Thunderstorm Winds
Marion County					_	_	-	•	
1 S Marion Allen County	02	1610EST			0	0	4	0	Thunderstorm Winds
Countywide	02	1630EST- 1830EST			0	0	4	0	Urban and Small Stream
		10301231			v	U	7	U	Flooding
Hamilton County Blue Ash	02	1630EST			0	0	3	0	Hail (0.75)
Franklin County Southern Portion	02	1635EST			0	0	5	0	Thunderstorm Winds (G56)
Brown County Mt. Orab	02	1700EST			0	2	0	0	Lightning
Franklin County				•		•			
Southeastern Portion Licking County	02	1710EST			0	0	4	0	Thunderstorm Winds
Southwestern Portion	02	1720EST			0	0	4	0	Hail (1.00)
Fairfield County Canal Winchester Lithopolis	02	1725EST			0	0	4	0	Thunderstorm Winds
Hocking County Logan	02	1800EST			0	0	4	0	Thunderstorm Winds (G52)
Scioto County Rarden Pike County	02	1850EST			0	0	5	0	Thunderstorm Winds
1 W Elmgrove Waverly	02 02	1900EST 1920EST			0	0	4 4	0	Thunderstorm Winds Thunderstorm Winds

Thunderstorms moved across central and southern Ohio producing damaging winds and large hail. Trees and power lines were blown down in many locations. Homes were damaged in southwest

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of	Estimated Damage	ps Character of Storm
Location	Date	Januaru	(INTINES)	(Talus)	Mile	nijarca	Property Cio	ps Character of Storing
OHIO Cont'd	•							
	Fran 335	klin County a in Waverly.	ind in Rar Two won	den, in Sc nen were i	ioto Co njured	ounty. A	A small build ghtning stru	ding was destroyed on State Route ck them in Mt. Orab.
Franklin County 3 N Port Columbus International Airport	02	1700EST	0.5	20	0	0	4 0	Tornado (F0)
·		eak tornado to estroyed a con						ather Service office in Columbus.
Cuyahoga County Garfield Heights	11	1400EST- 1500EST			. 0	0	4 0	Urban Flooding
								orm sewers and flooded roads in deep along Turney Road.
Trumbull County Cortland Kinsman	11 11	1500EST 1510EST			0	0	4 0 4 0	Thunderstorm Winds Thunderstorm Winds
Stark County 1 N North Canton	11	1520EST			0	0 .	4 0	Thunderstorm Winds
Columbiana County Sebring and Salem	11	1610EST			0	0	4 0	Thunderstorm Winds
-	dama	nderstorms maged just nort	oved throu h of North	igh northe Canton.	east Oh A gar	io blowi age and	ng down tre car were da	es and power lines. A home was maged in Sebring when a tree was
Putnam County Columbus Grove	15	1915EST			0	0	4 0	Thunderstorm Winds (G55)
Lucas County Toledo	15	1930EST			0	0	4 0	Thunderstorm Winds
Putnam County Gilboa	15	1930EST			0	0	4 0	Thunderstorm Winds
Wood County Weston	15	1949EST			0	0	4 0	Thunderstorm Winds
Hancock County Findlay Arcadia	15	1955EST			0	0	4 0	Thunderstorm Winds
Seneca County Fostoria Kansas Bettsville	15 15 15	2005EST 2010EST 2020EST	0.25	20	0 0 0	0 2 0	5 0 5 0 4 0	Thunderstorm Winds Thunderstorm Winds Tornado (F0)
Sandusky County Clyde and Fremont	15	2020EST			0	0	5 0	Thunderstorm Winds (G54)
Ottawa County Catawba Island	15	2025EST			0	0	4 0	Thunderstorm Winds
Crawford County Crestline	15	2045EST			0	0	4 0	Thunderstorm Winds
Erie County 2 N Sandusky	15	2055EST			0	0	4 0	Thunderstorm Winds
Richland County Western Portion	15	2100EST			0	0	4 0	Thunderstorm Winds
Huron County Willard	15	2105EST			0	0	4 0	Thunderstorm Winds
Lorain County Lorain	15	2130EST			0	0	4 0	Thunderstorm Winds
Cuyahoga County Parma Heights	15	2200EST			0	0	4 0	Thunderstorm Winds

Location	Time Path Path Local/ Length Width Date Standard (Miles) (Yards)		Per	nber of sons	Estimated Damage Property Crops		Character of Storm		
Location	Date	Statidard	(Miles)	(Yards)	Killed	injurea	Propen	y Crops	Character of Storm
OHIO Cont'd									
Franklin County Hillard	15	2248EST			0	0	4	0	Thunderstorm Winds (G52)
	trees down car, i A ho	, power lines, a n, damaged bui near Kansas. A	and some ildings, de A weak to e lost its	road signs estroyed a rnado forn	. A se mobile ned wit	vere do home, th the do	wnburs and inj wnbur	st blew : jured tw st near	nd evening hours blowing down numerous trees and power lines to men when a tree fell on their Bettsville and destroyed a barn. Iding, under construction, was
Washington County Countywide	16	2100EST- 2400EST			0	0	5	0	Flash Flood
Monroe County Countywide	16	2100EST- 2400EST	. 4		0	0	5		Flash Flood
	coun	ties. Water v	vas flowi	ng over Si	tate Ro	outes 55	50 and	339 in	small streams throughout these Washington County, west of miles west of Marietta.
Pike County Eastern Portion	18	1950EST 1950EST			0	0	4 3	0	Thunderstorm Winds Hail (0.75)
	An is	solated thunder	rstorm ble	w down to	rees an	d dropp	ed larg	ge hail.	
Butler County	22	1700EST-							
Duties County	<i>LL</i> .	1900EST			0	0	5	0	Flash Flood
Hamilton County	22	1700EST- 1900EST			0	0	5	0	Flash Flood
	roads In A	s, and basemer	nts. Some	e roads, bi outheasteri	ridges, n Ham	and dr ilton C	iveway ounty,	s were	sed flooding of many streams, damaged from the high water. ere floating down Sutton and
Lake County Willoughby	30	1130EST			0	1	0	0	Lightning
Mahoning County Coitsville Township	30	1220EST	٠		0	0	4	0	Thunderstorm Winds
Canfield Columbiana County	30	1245EST			0	0	4	0	Thunderstorm Winds
East Liverpool Seneca County	30	1316EST			0	0	4	0	Thunderstorm Winds
1 SE Fostoria Fulton County	30	1430EST			0	0	4	0	Thunderstorm Winds
1.5 E Wauseon	30	1554EST			0	0	3	0	Hail (0.75)
5 NE Wauseon Tuscarawas County	30	1615EST			0	0	4	0 .	Thunderstorm Winds
Stillwater	30 Thun	1625EST	ttered no	oce northe	0 -m ∩h	0 io bleu	4 down	0 trees a	Thunderstorm Winds (G56)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	ber of sons Injured	Estimated Damage Property Crops		Character of Storm
			((Lance of					
OKLAHOMA									
Harmon County 4 W Hollis	01	1535CST			0	0	?	?	Hail (0.88)
Blaine County 4 SW Watonga	01	1545CST			0	0	?	?	Hail (0.88)
Harmon County 4 W Hollis Jefferson County	01	1547CST			0	0	?	?	Hail (0.88)
6 S Ringling Garfield County	01	1610CST			0	0	?	?	Thunderstorm Winds (G52)
3 E Waukomis Jackson County	01	1700CST			0	0	?	?	Thunderstorm Winds
6 S Duke Greer County	01	1710CST			0	0	?	?	Thunderstorm Winds (G70)
2 W Granite Jackson County	01	1720CST			0	0	?	?	Hail (0.88)
Altus Municipal Airport	01	1727CST			0	0	6	?	Thunderstorm Winds
Jackson and Tillman Counties	01 02	1730CST- 1730CST			0	0		9	Flash Flood
2 E Martha	01	1730CST			ŏ	ŏ	4 5	?	Thunderstorm Winds
Washita County Dill City	01	1730CST			0	0	?	?	Thunderstorm Winds (G52)
Kiowa County 4.5 W Roosevelt	01	1745CST			0	0	?	?	Thunderstorm Winds (G60)
Caster County Alfalfa	01	1750CST			0	0	?	?	Hail (0.80)
Shidler	01	1800CST			ŏ	ŏ	?	?	Hail (0.88)
Osage County Shidler	01	1800CST			0	0	?	?	Thunderstorm Winds (G52)
Kiowa County	01	1803CST			0	0	?	?	Thursdoortoon Winds (C59)
Hobart Mountain View Washita County	01	1815CST			Ö	ŏ	?	?	Thunderstorm Winds (G58) Thunderstorm Winds (G52)
10 SE Clinton Jackson County	01	1815CST			0	0	?	?	Thunderstorm Winds
Headrick Kiowa County	01	1825CST			0	0	?	?	Hail (0.75)
Mountain Park	01	1830CST			0	0	?	?	Thunderstorm Winds
7 S Mountain View Blaine County	01	1835CST- 1854CST			0	0	?	?	Thunderstorm Winds (G52)
4 SW Watonga Caddo County	01	1900CST			0	0	?	?	Thunderstorm Winds (G52)
3 SSW Binger Comanche County	01	1910CST			0	0	?	?	Thunderstorm Winds (G52)
5 NW Meers	01	1920CST			0	0	?	?	Thunderstorm Winds
		ng winds from nwest of Meer		thundersto	orm bro	oke liml	os off (trees at	the Wichita Mountains Refuge
Caddo County Binger	01	1930CST			0	0	?	?	Thunderstorm Winds (G52)
Cement Grady County 2 E Chickasha	01 01	1937CST 1937CST			0	0	?	? ?	Thunderstorm Winds (G52) Thunderstorm Winds (G52)
7 W Chickasha Kingfisher County	01	1937CS1 1940CST			0	Ö	?	?	Thunderstorm Winds (G52) Thunderstorm Winds
Dover Dover	01	1942CST			0	0	?	?	Hail (0.75)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage y Crops	Character of Storm
OKLAHOMA Con	t'd								
Canadian County									
Piedmont	01	1952CST			0	0	?	?	Thunderstorm Winds (G50)
Oklahoma County									
Wiley Post	01	1952CST			0	0	?	?	Thunderstorm Winds (G51)
Airport	,							•	
Grady County	Λ1	20000000			^	^	0	0	The 1- 1- 1- 1- (050)
3 SW Blanchard Oklahoma County	01	2000CST			0	0	?	?	Thunderstorm Winds (G52)
Wiley Post Airport	01	2002CST			0	0	?	?	Thunderstorm Winds (G56)
Bethany	ŏi	2006CST			ŏ	ŏ	ż	ż	Thunderstorm Winds (G56)
NW Oklahoma City	ŎÎ	2010CST			ŏ	ŏ	ż	· •	Hail (0.75)
Cleveland County					•	-		-	
Moore	01	2011CST		:	0	0	?	?	Thunderstorm Winds (G52)
Norman	01	2020CST			0	0	?	?	Thunderstorm Winds `
Oklahoma County		00000000			•	•			
Bethany	01	2030CST			0	0	3	?	Lightning
Lincoln County	Λ1	2045CST			0	0	?	?	II-iI (1 00)
Carney Oklahoma County	01	2045CS1			U	U	·	.	Hail (1.00)
SE Oklahoma City	01	2045CST			0	0	4	?	Lightning
Payne County	V1	2013001			•	•	•		ragnumg
Stillwater	01	2053CST			0	0	?	?	Thunderstorm Winds (G55)
Kiowa County				•					
Mountain Park	01	2100CST			0	0	?	?	Hail (1.00)
Mountain Park	01	2100CST	•		0	0	?	?	Flash Flood
Creek County	Δ1	2100000			^	^	?	0	771
3 S Olive Seminole County	01	2100CST			0	0	?	?	Thunderstorm Winds (G52)
3.5 W Little	01	2200CST			0	0	?	?	Thunderstorm Winds
Caddo County	UI.	2200031			U	U	•	.*	Thunderstorm winds
Anadarko	01	2215CST		¥	0	0	?	?	Hail (0.75)
Kiowa County	-				-	-	-	•	(31.2)
Snyder	01	2250CST			0	0	?	?	Hail (1.25)

Severe thunderstorms entered the southwestern portions of the state, and spread into the central portions with damaging winds, large hail, and flash flooding. The hardest hit was Altus where winds of 80 mph destroyed or damaged 28 hangers, removed half of the terminal building roof, and damaged eight aircraft. Altus Air Force Base also sustained some damage, with some trees blown over. One of the trees caused roof damage to a house on the base. Damage was estimated at \$2 million. East of Martha, in the Quartz Mountain Estates, several homes had roofs blown off or windows blown in by the strong winds, several outbuildings were destroyed, with total damage estimated at \$100,000. Altus also suffered from flash flooding as 7.50 inches of rain fell in a 24-hour period beginning 1730 CST on the 1st. In one apartment complex, 18 units and the clubhouse were inundated by 12.00 to 15.00 inches of water and mud. About 25 other families were affected in Altus by up to 1 foot of water in their homes or apartments. High water across U.S. Highway 283 south of Altus completely submerged one automobile and swept it off the road, but no one was injured. Many other roads across Jackson County were submerged. Much of the urban flooding was caused by a clogged culvert across a drainage system which normally empties excessive storm water into the Altus-Lugert irrigation canal. Numerous reports of strong winds and large hail were received. Thunderstorm winds downed trees southeast of Clinton, at Mountain Park, and at the Wichita Mountains Wildlife Refuge, 5 miles northwest of Meers. Storms continued to move to the northeast and affected the central and north-central portions of the state with other reports of large hail and strong winds. Tree damage was reported east of Wakomis and south of Olive, and tree and power line damage was reported west of Chickasha, and at Norman. In Bethany, lightning struck a water treatment plant, causing damage to pump motors and a transformer. Damage was estimated at \$2,000. Lightning also struck thre

June 1991

		Time	Path	Path	Nur	nber of	Esti	mated	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)		sons Injured		mage	Character of Storm
Location	Date	Diamonto	(Mines)	(Tarus)	Mileo	Injured	Tropen	y Ctops	Character of Storm
OKLAHOMA Cont	t'd								
Oklahoma County Edmond	02	0100CST			0	0	4	?	Lightning
		tning struck 000 damage		of a hon	ne in no	orthwes	tern Ed	lmond,	with the resulting fire causing
Grady County Rush Springs	02	0130CST			0	0	3	? ,	Lightning
	Ligh	tning struck	the porch	of a Rush	Spring	s home,	causin	ig dama	ge estimated at \$2,000.
Carter County Ardmore	02	1707CST	•		0	0	2	?	Thunderstorm Winds
Ardmore Dixon	02 02	1715CST 1730CST			0 0	0	?	?	Thunderstorm Winds (G52) Thunderstorm Winds
	Isola and	ted severe thoutbuildings	understorn in Dixon.	ns caused t	tree and	power	line da	mage in	Ardmore, and damage to trees
Woodward County			•						.
2 NW Mooreland 1 SSE Mooreland	04 04	1540CST 1633CST	:		0 0	0	?	?	Hail (0.75) Hail (3.25)
5 E Mutual	04	1705CST- 1730CST	*		0	0	?	?	Hail (1.00)
5 E Mutual	04	1730CST- 1805CST			0	0	?	?	Hail (1.00)
Dewey County 4 SSE Cestos	04	1730CST			0	0	?	?	Hail (1.75)
Woodward County					-	_			
5 E Mutual Dewey County	04	1805CST		•	0	0	?	?	Hail (1.25)
1 W Seiling	04	1823CST			0	0	?	?	Hail (0.88)
Seiling Major County	04	1833CST			0	0	?	?	Hail (0.75)
3 S Chester	04	1845CST			0	0	?	?	Hail (0.75)
Dewey County Seiling	04	1853CST		*	0	0	? .	?	Hail (0.88)
Seiling Alfalfa County					_	_			
6 ENE Amorita Dewey County	04	1914CST			0 -	0	?	?	Hail (0.88)
Seiling	04	1920CST	;		0	0	?	?	Hail (0.88)
Taloga Grant County	04	2001CST			0	0	?	?	Hail (0.88)
5 NE Nash	04	2042CST			0	0	?	?	Hail (0.75)
Beckham County 5 SW Elk City	04	2042CST			0	0	?	?	Hail (1.25)
		re thunderst homa, prodi					rn Ok	lahoma	and moved into north-central
Osage County 8 S Shidler	05	ሰን15/ርሮፕ			0	Λ	9	9.	Unil (0.75)
o S Snidler 10 W Pawhuska	05 05	0215CST 0345CST			0	0 0	?	?	Hail (0.75) Hail (0.75)
2 N Pawhuska	05.	0410CST			Ö	0	?	· ?.	Hail (0.75)
Northern and Central Portions	05	0500CST- 1000CST			0	0	?	?	Flash Flood
10 W Pawhuska	05	0600CST	•		Ŏ	Ŏ	?	?	Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated image ty Crops	Character of Storm
OKLAHOMA Con	t'd								
Rogers County									
Oologah 8 SE Oologah	05 05	0640CST 0645CST			0	1	4 ?	?	Thunderstorm Winds Hail (0.75)
Pawnee County Terlton	05	0650CST			0	0	?	?	Hail (0.75)
Creek County Mannford	05	0700CST			0	0	?	?	
5 NE Bristow	05	0700CS1 0725CST			Ŏ	Ŏ	?	?	Hail (0.75) Hail (0.75)
Bristow	05	0840CST			ŏ	ŏ	?	ż	Thunderstorm Winds (G52)
Lincoln County 3 N Stroud	05	0900CST			0	0	?	?	Hail (0.75)
Oklahoma County					_	-			• •
NW Oklahoma City Lincoln County	05	0925CST			0	0	?	?	Hail (0.75)
Meeker Oklahoma County	05	0943CST			0	0	?	?	Hail (0.75)
Harrah Seminole County	05	0951CST			0	0	?	?	Hail (0.75)
Seminole	05	1020CST			0	0	?	?	Thunderstorm Winds (G54)
Oklahoma County SW Oklahoma City	05	1027CST			0	0	?	?	Hail (1.00)
SW Oklahoma City	05	1034CST			ŏ	ŏ	?	ż	Hail (0.88)
E Oklahoma City Cleveland County	05	1045CST			Ŏ	Ŏ	?	?	Hail (0.75)
7 E Moore	05	1050CST			0	0	?	?	Hail (0.75)
Oklahoma County 0.5 W Tinker	05	1053CST			0	0	?	?	Hail (1.50
Air Force Base Cleveland County	05	1111000			•			•	II '1 (0 gg)
Moore Pottawatomie County	05	1111CST			0	0	?	?	Hail (0.75)
Pink Atoka County	05	1135CST			0	0	?	?	Hail (0.75)
Atoka	05	1149CST			0	0	?	?	Hail (1.25)
2 SE Stingtown	05	1207CST	0.3	50	0	0	?	?	Tornado (F0)
2 SE Stringtown	05	1207CST			0	0	?	?	Hail (1.75)
11 SE Lane	05	1207CST	0.3	50	0	0	?	?	Tornado (F0)
	A circause	rculation deve ed a weak torn	eloped alo ado that n	ng a thun nade a brie	derstor ef touch	m gust idown s	front outhea	moving st of La	through Atoka County. This ne, but did not caused damage.
Cleveland County Noble	05	1208CST			0	0	?	?	Hail (1.75)
Grady County 5 SSW Blanchard Atoka and Choctaw Co	05	1230CST			0	0	?	?	Hail (1.00)
11 SE Lane 7 NNE Boswell	05	1232CST- 1240CST	4.0	100	0	0	?	?	Tomado (F0)
Coal County Centrahoma	05	1235CST			0	0	?	?	Thunderstorm Winds
Bryan County Durant	05	1240CST			0	0	3	?	Thunderstorm Wind
Marshall County Madill	05	1245CST			0	0	?	?	Thunderstorm Winds (G52)
Love County Marietta	05	1250CST			0	0	?	?	Thunderstorm Winds (G54)
McClain County 3 SW Payne	05	1253CST		٠	0	0	?	?	Hail (0.75)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	_	nber of sons Injured	D	imated image ity Crops	Character of Storm
OKLAHOMA Con	t'd								
Marshall County 5 S Madill	05	1300CST			0	0	?	?	Thunderstorm Winds (G52)
Garvin County Lindsay	05	1300CST	-	•	.0	0	?	?	Hail (0.75)
Bryan County Calera	05	1300CST			0	0	3	?	Thunderstorm Winds
Choctaw County 4 NNW Boswell	05	1305CST			0	0	?	?	Hail (0.88)
Love County Thackerville	05	1310CST			0 .	0	?	?	Thunderstorm Winds (G52)
Bryan County Calera	05	1315CST			0	0	?	?	Thunderstorm Winds
Grady County 8 SE Rush Springs	05	1355CST			0	0	?	?	Hail (1.00)
5 ESE Rush Springs Stephens County	05	1415CST			0	0	?	?	Hail (1.00)
Bray Caddo County	05	1420CST			0	0	3	?	Thunderstorm Winds
Carnegie	05	1554CST- 1603CST			0	0	?	?	Hail (1.00)
Washita County Rocky	05	1726CST			0	0	?	?	Hail (0.75)
Kiowa County 3 E Cooperton	05	1738CST			0	0	?	?	Hail (0.75)
Beckham County 5 SW Elk City Washita County	05	1822CST			0 .	0	?	?	Hail (1.75)
6 WSW Burns Flat 2 W Canute	05 05	1823CST 1827CST			0	0	?	?	Hail (1.00) Thunderstorm Winds
Roger Mills County Berlin	05	1853CST-	·		J		•	•	
Stephens County		1903CST			0	0	?	? -	Hail (1.25)
Duncan	05	1900CST- 2200CST		•	0	0	?	?	Flash Flood
Beckham County Elk City Posses Mills County	05	1911CST			0	0	?	?	Hail (1.75)
Roger Mills County Reydon	05	1915CST- 1945CST		•	0	0	?	?.	Hail (0.75)
Greer County 4 E Mangum Tillman County	05	1943CST			0	0	?	?	Thunderstorm Winds (G52)
Tillman County 6 E Davidson	05	2126CST			0	0	?	?	Flash Flood

A complex of severe thunderstorms developed in Osage County during the early morning of June 5th, and remained nearly stationary for several hours before moving southeast across eastern Oklahoma. There were several occurrences of dime- to nickel-size hail with these storms. Strong thunderstorm winds blew a mobile home over near Oologah, destroying the home and injuring an occupant, a 22-year-old woman. In Bristow, severe thunderstorm winds blew down several large trees. Due the stationary nature of the storms, 5.00 to 7.00 inches of rain fell mainly between 0200 CST and 0700 CST across portions of Osage County, mainly between Pawhuska and Shidler. This resulted in flash flooding, with many creeks overflowing their banks around 0500 CST. Serious flooding occurred on Clear Creek, which flows into Bird Creek, and resulted in flooding on Bird Creek. Several roads were closed, including Highway 60 west of Pawhuska, which was covered by water 3 to 4 feet deep. Several homes were flooded and many people were evacuated from their homes in Pawhuska, as the rapidly rising waters from Bird Creek innundated the area. The heavy rains finally moved out of the area by 0700 CST, and the serious flooding began to abate by 1000

June 1991

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

OKLAHOMA Cont'd

Murray Counties

CST. The thunderstorm complex began to diminish somewhat before dawn with only a few hail reports being received. Shortly after sunrise, a new round of severe thunderstorms began to fire along the old outflow boundaries that developed from the decaying overnight convection. The activity redeveloped over Creek County around 0700 CST, and spread south and southwestward over the entire day, producing numerous reports of severe thunderstorm winds, large hail, a few flash flood reports, and two tornadoes. The first tornado (F0) was a brief touchdown at 1207 CST, 2 miles southeast of Stringtown, with no reported damage. The second tornado (F0) moved southeast, along a 4-mile path from, 11 miles southeast of Lane to 7 miles north-northeast of Boswell with no reported damage. It was on the ground between 1232 CST and 1240 CST. Trees and limbs were broken off or uprooted in Centrahoma and Calera. In Durant, strong winds toppled a tree, sending it onto the roof of an adjacent house. In Calera, strong winds blew the roof off a mobile home, and in Bray the winds ripped the roof off a gym.

Cimarron County							
Boise City	07	1650CST	0	0	?	?	Hail (0.75)
2 SE Boise City	07	1710CST-					` ,
•		1730CST	0	0	?	?	Hail (1.00)

Hail up to 0.75-inch diameter was reported at the Boise City Airport. Shortly thereafter the county sheriff's office reported 0.75- to 1.00-inch hail falling for 20 minutes just southeast of Boise City.

Hughes and Johnson Counties	07	1500CST-						
Counties		2000CST	0	(0	3	?	Flash Flood

Thunderstorm rainfall of up to 6.00 inches caused flooding across Hughes and Johnston Counties. Most flooding reported was to roadways, although one home was flooded 1 mile south of Wapanucka in Johnston County.

Carter County	08	0400CST-					
Ardmore		0800CST	0	0	?	?	Flash Flood
Marshall, Bryan,	08	0600CST-					
Pottawattomie,		1200CST	0	0	?	?	Flash Flood
Johnston, and							

Heavy rainfall on the 8th fell on already-saturated ground from rains on the 7th, and resulted in numerous reports of roads closed due to flooding in Marhall, Pottawatomie, Johnston, Murray, and Bryan Counties. Between the 7th and 8th, 10.50 inches of rain was measured in Kingston in Marshall.

Greer County							
Mangum	12	1614CST	0	0	?	?	Hail (0.75)
1 W Granite	12	1628CST	0	0	?	?	Hail (1.00)
Granite	12	1639CST	0	0	?	?	Hail (0.75)
Kiowa County					_	_	
Lone Wolf	12	1644CST	0 0	0	?	?	Hail (1.00)
1 N Hobart	12	1713CST	0	0	?	?	Hail (0.75)
Jackson County			_	_	_	_	
4 W Warren	12	1721CST	0	0	?	?	Hail (1.25)
Washita County	10	1500 555	•	•	•		TT '1 (0.00)
1 W Rocky	12	1730CST	0	0	?	7	Hail (0.88)
Jackson County	40	1055.00M					TT 11 /4 AP
4 W Warren	12	1755CST	0	0	?	?	Hail (1.25)
Northern Portion	12	1800CST-	_	_	_	_	
		2000CST	0	0	4 ?	?	Flash Flood
4 W Warren	12	1810CST	0	0		?	Hail (0.75)
4 W Warren	12	1810CST	0	0	4	?	Thunderstorm Winds
Kiowa County							
Roosevelt	12	1812CST	0	0	?	?	Thunderstorm Winds (G52)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	stimated Jamage erty Crops	Character of Storm
OKLAHOMA Con	t'd								
Jackson County 8 NE Altus	12	1915CST			0	0	?	?	Hail (0.75)
Kiowa County 3 N Mountain Park	12	1945CST			0	0	?	?	Hail (1.00)
Caddo County Stecker Stecker	12 12	2002CST 2025CST	·	•	0	0	?	?	Hail (0.75) Thunderstorm Winds (G54)
Tillman County Hollister	12	2045CST			0	0	?	?	Thunderstorm Winds
Comanche County Chattanooga Tillman County	12	2107CST			0	0	?	?	Hail (0.88)
Tillman County Loveland	12	2110CST			0	0	?	?	Hail (0.75)
	after dama Holl	noon hours a aged a barn, a ister. Heavy ed more flood	ind contini ind damage rains fallii	ued into t e to trees ng over ar	the ever was rep eas whi	ning. oorted in ich had	West nase been	of Warre vere thun receiving	n of the state during the late en, severe thunderstorm winds iderstorm in Tillman County at heavy rain in the past 2 weeks at and minor damage to several
Canadian County 5 NW El Reno Grady County	13	0450CST			0	0	?	?	Thunderstorm Winds
7 S Bradley Oklahoma County	13	0518CST			0	0	?	?	Hail (0.88)
NE Oklahoma City	13	0640CST			0	0	?	?	Hail (0.88)
	Seve City	re thundersto and south of	rms early Bradley, a	in the mo and damag	rning o	n the 1 ees in n	3th proorthw	roduced i estern El	solated large hail at Oklahoma Reno.
Ellis County 11 S Arnett 8 S Harmon Woodward County	14 15	2330CST 0008CST			0	0	?	?	Hail (0.88) Hail (0.88)
4 SSW Sharon Dewey County	15	0008CST			0	0	?	?	Hail (0.88)
Leedey Major County	15	0030CST			0	0	?	?	Hail (0.75)
18 ENE Chester	15	0100CST			0	0	?	?	Hail (1.75)
	Seve prod	re thunderstoruced mostly o	rms develo	ped arour ickel-size	nd midn hail, w	ight act	oss tl repor	he northw t of golf	vestern portions of the state and ball-size hail.
Caddo County 3 S Hinton Woods County	15	1630CST			0	0	?	?	Hail (1.00)
5 NW Lookout Caddo County	15	1630CST			0	0	?	?	Hail (0.75)
ESE Gracemont Gracemont Grady County	15 15	1722CST 1728CST			0	0	?	?	Hail (1.50) Hail (1.75)
Verden E Ninnekah 1 S Alex	15 15 15	1730CST 1820CST 1834CST			0 0 0	0 0 0	???	???	Hail (0.75) Hail (1.00) Hail (0.75)
Oklahoma County SE Oklahoma City	15	1855CST			0	0	?	?	Hail (0.75)

.	5 4	Time Local/	Path Length	Path Width	Per	nber of	Daı	mated mage	or Co.
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Crops	Character of Storm
OKLAHOMA Cont	'd								
Grady County 3 Ninnekah Alex	15 15	1910CST 1910CST			0	0	?	?	Hail (0.75) Hail (0.75)
-2	Seve		ms across	portions	of cer	_	d sout	•	n Oklahoma produced several
Atoka County 4.5 E Stringtown	16	0030CST			0	0	?	?	Hail (1.00)
Pushmataha County Antlers	16	0130CST			0	0	?	?	Hail (0.75)
	Icola	tad cavara thur	adaratarm	a in acuth	aasta m	Oklobe	\ma n=	hooub	largo hail
	Isola	ted severe thur	luerstorm	s in south	eastern	Okland	oma pro	Saucea	large nam.
Harper County 14 NE Rosston 14 NE Rosston	17 17	1820CST 1820CST			0	0	?	?	Thunderstorm Winds (G52) Hail (0.88)
10 NW Buffalo	17	1825CST			0	0	??????	?	Hail (0.88)
10 NW Buffalo 1 N Buffalo	17 17	1825CST 1845CST			0	0	?	?	Thunderstorm Winds (G52) Hail (0.75)
1 E Laverne	17	1845CST			Ŏ	Ö	?	?	Hail (1.00)
9 S Buffalo	17	1850CST			0	0		?	Hail (0.88)
9 S Buffalo Woodward County	17	1900CST			0	0	?	?	Thunderstorm Winds (G61)
Ft. Supply	17	1915CST			0	0	?	?	Hail (0.88)
Ft. Supply Alfalfa County	17	1915CST			0	0	?	?	Thunderstorm Winds (G55)
Cherokee	17	2025CST			0	0	?	?	Thunderstorm Winds (G52)
	Sever	re thunderstorr	ns develo	ped across large hail.	s the no	orthern	portion	ns of the	e state and produced numerous
Beaver County		4500000			_	_		•	to to on
Forgan 3 S Elmwood	18 18	1702CST 1740CST-			0	0	?	?	Hail (0.88)
Texas County		1752CST	0.5	30	0	0	?	?	Tornado (F0)
5 S Hooker	18	1900CST			0	0	0	0	Hail (1.75)
1 NE Elmwood 5 E Hooker	18 18	1905CST 1920CST			0	0	0	0	Hail (0.88) Hail (0.88)
15 N Guymon	18	1920CST			Ŏ	ŏ	Ŏ	ŏ	Hail (0.88)
7 S Hooker	18	1920CST			0	Ō	0	Ō	Hail (1.75)
Straight	18	1945CST			0	0	0 3	0	Hail (1.75)
Guymon Hardesty	18 18	1952CST 2020CST			ŏ	Ŏ	ő	ŏ	Thunderstorm Winds (G63) Hail (0.75)
-	Oklal produ by co dama A Na Golf mph	homa panhandluced a tornado ounty sheriff's ige. The storm itional Weather ball-size hail co	le with re near Clear Cl	ports of si ir Lake, ju but the to ed to move cooperative ie ground up truck	trong values to the to the observation was reparted to the to the to the to the to the total to	vinds, I th of El touched southwaver rep ported a bbile ho	arge ha mwood down vest out orted g t Straig	il, and l. The in open of Bea olf ball tht. The	one tornado. A thunderstorm weak F0 tornado was observed country causing no significant ver County into Texas Countysize hail just south of Hooker. e Guymon Airport reported 72-road, downed power lines and
Woodward County 2 W Mutual	19	1500CST			0	0	?	?	Hail (0.75)

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	imber of ersons d Injured	Dε	imated mage ty Crops	Character of Storm
OKLAHOMA Cont	'd								
Dewey County Vici Camargo Camargo	19 19 19	1530CST 1540CST 1540CST			0 0 0	0 0 0	???	? ? ?	Lightning Hail (0.75) Thunderstorm Winds (G52)
Pushmataha County 2 SE Finley 2 SW Finley Atole County	19 19	1540CST 1600CST			0	0	?	?	Hail (1.00) Hail (1.00)
Atoka County 4 SSW Farris	19	1650CST			0	0	?	?	Hail (0.88)
Washita County Burns Flat	19	1650CST			0	0	?	?	Thunderstorm Winds (G52)
Pushmataha County 2 SW Finley	19	1700CST			0	0	?	?	Hail (1.00)
	north struc old,	nwestern Oklal k a huge red o	homa and cedar tree argest rec	the secon and burn d cedar tre	ed in the ed it to ee in t	he souther the growth the state.	eastern ound.	part of The tree	afternoon of the 19th, one in the state. Near Vici, lightning was estimated to be 150 years tly been measured at 10 feet 4
Oklahoma County NE Oklahoma City Downtown Oklahoma City	20 20	1500CST 1500CST			0	27 15	?	?	Excessive Heat Excessive Heat
-	north and v exha- conv	neastern part of women ages 13 ustion, and se- ention group	f Oklahon I to 22. T ven peopl was also	na City. T wenty peo e were ser meeting	The gyrople wont to the at a d	m was pa ere treate he hospit owntowr	acked wed at the tal for a conv	vith 2,50 e scene treatmer ention o	mnasium in a high school in the 00 attendees, mainly young men for symptoms due to minor heat and later released. The same center. The convention center or minor heat stress symptoms.
Kingfisher County 4 NE Loyal 3 E Loyal 5 E Loyal Grant County	20 20 20	1605CST 1640CST 1710CST			0 0	0 0 0	??	?	Hail (0.88) Hail (0.88) Hail (0.75)
8 W Jefferson	20	1731CST			0	0	?	?	Hail (0.75)
	After	rnoon thunders	storms in	Kingfishe	er and	Grant C	ounties	caused	dime- to nickel-size hail.
Love County Thackerville Marshall County	21	1430CST			0	0	?	?	Hail (0.75)
Lebanon	21	1500CST			0	0	?	?	Hail (0.75)
Sequoyah County Sallisaw	21	1525CST			0	0	?	?	Hail (0.75)
	Isola	ted severe thu	nderstorn	ns produce	ed dim	e-size ha	ul.		
Harper County 8 N Selman Rosston	21 21	2040CST 2148CST			0	0	?	?	Thunderstorm Winds (G52) Hail (1.00)
Woods County Waynoka	21	2210CST			0	0	?	?	Hail (0.88)
Woodward County Ft. Supply	21	2230CST			0	0	?	?	Hail (0.75)
Ellis County 3.5 S May	21	2230CST			0	0	?	?	Hail (1.00)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated image ty Crops	Character of Storm
OKLAHOMA Conf	t'd								
Harper County	01	0000000			•	•	•	0	ma 1 . svr 1
5 NE Laverne Beaver County	21	2230CST			0	0	?	?	Thunderstorm Winds
Slapout	21	2235CST- 2250CST			0	0	?	?	Hail (0.75)
Major County		2230031			V	U	•	•	Haii (0.73)
10 NNW Chester Woodward County	21	2300CST			0	0	?	?	Hail (0.88)
5 SW Bouse Junction	21	2300CST			0	0	?	?	Hail (0.75)
5 NE Sharon	21	2330CST			0	0	?	?	Hail (0.75)
Ellis County 17 S Harmon	22	0038CST			0	0	?	?	Hail (0.88)
Dewey County					_	_	_	_	
Taloga	22	0015CST			0	0	?	?	Hail (0.75)
2 NW Putnam	22	0100CST			0	0	?	?	Hail (0.75)
Kay County Ponca City	22	0130CST			0	0	?	?	Thunderstorm Winds
Blaine County		0130031			U	U	•	•	Thunderstorm winds
Watonga	22	0130CST			0	0	?	?	Lightning
Pawnee County					-	_			
Pawnee	22	0200CST			0	0	?	?	Thunderstorm Winds
Pawnee	22	0215CST			0	0	3	?	Lightning
Ellis County 17 S Harmon	22	0200CST			0	0	?	?	Hail (0.75)
Roger Mills County Herring	22	0230CST			0	0	?	?	Hail (0.75)
Grant County 4 N Wakita	22	0330CST			0	0	?	?	Thunderstorm Winds
	panha in dia near lighta struct	andle during th ameter was rep Laverne, dow	ne afternoon ported in to ned or da storage g nga, light	on and spre hese thund maged tre arage at a ning shatte	ad to n lerstori es at F	orth-ce ms, and onca C	ntral p l stron lity, P	ortions of winds awnee,	of Oklahoma and the eastern overnight. Hail up to 1.00 inch downed trees and power poles and near Wakita. In Pawnee, fire completely destroyed the a home. The pieces from the
Wagoner County									

Wagoner County 8 NE Wagoner Cherokee County	22	1230CST	0	0	?	?	Hail (1.00)
Hulbert 3 NW Cookson	22 22	1305CST 1330CST	0	0	?	? ?.	Hail (0.75) Thunderstorm Winds
Wagoner County 5 E Wagoner Pottawatomie County	22	1345CST	0	0	?	?	Hail (0.75)
4 ENE Shawnee Cleveland County	22	1345CST	0	0	?	?	Hail (1.00)
12 ESE Norman Lincoln County Prague	22	1410CST 1405CST	0	0	? .	?	Hail (0.50)
0.5 W Prague McLain County	22 22	1403CST 1413CST	0	0 0	3 ?	?	Lightning Hail (1.00)
Goldsby Cleveland County	22	1415CST	0	0	?	?	Hail (1.00)
Noble Norman SW Norman	22 22 22	1416CST 1416CST 1448CST	0 0 0	0 0 0	?	?	Hail (0.75) Hail (0.88) Hail (1.25)
24 MOUNT		1110001	U	v	•	4	וומנו (1.42)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	aber of sons Injured	Estin Dan Property	nage	Character of Storm
			<u> </u>						
OKLAHOMA Con	t'd								
Pottawatomie County 5 W Shawnee	22	1450CST			0	0	?	?	Hail (1.00)
Cleveland County Noble	22	1453CST			0	0	?	?	Thunderstorm Winds (G61)
Okfuskee County 10 NNW Okemah 1 N Oktaha	22 22	1500CST 1500CST			0	0	?	?	Thunderstorm Winds (G56) Hail (0.88)
Sequoyah County Muldrow	22	1506CST			0	0	· ?	· ?	Thunderstorm Winds
Cleveland County Noble	22	1511CST			0	0	?	?	Thunderstorm Winds (G60)
Muskogee County 1 N Council Hill	22	1520CST			0	0	?	?	Hail (1.75)
McClain County 1 S Goldsby	22	1529CST			0	0	?	?	Hail (0.88) Thunderstorm Winds (G61)
Cleveland County Noble	22	1532CST			0	0	?	?	Thunderstorm Winds (G59)
Hughes County Holdenville	22	1530CST			0	0	4	?	Lightning
Pottawatomie County 7 W Macomb	22	1532CST			0	0	?	?	Thunderstorm Winds
Muskogee County Haskell Haskell	22 22	1545CST 1545CST			0	0	?	?	Hail (1.75) Thunderstorm Winds (G52)
Okmulgee County 5 W Okmulgee	22	1545CST			0	0	?	?	Thunderstorm Winds (G52)
McClain County 5 S Newcastle	22 22	1553CST 1553CST			0	0	?	?	Thunderstorm Winds (G61) Hail (1.75)
5 S Newcastle Seminole County 10 S Wewoka	22	1600CST			0	0	?	· ?	Thunderstorm Winds (G61)
Pontotoc County Francis	22	1620CST			0	0	?	?	Hail (1.00)
McClain County 7 S Newcastle	22	1621CST			0	0	?	?	Hail (1.75)
Grady County 2 SW Blanchard	22	1625CST			0	0	?	?	Hail (0.88)
McClain County 7 SW Newcastle	22 22	1627CST 1630CST			0	0	?	?	Thunderstorm Winds (G52) Flash Flood
Muskogee County Bryan County Durant	22	1632CST			0	0	· ?	· ?	Hail (1.00)
McClain County Blanchard	22	1637CST			0	0	?	?	Hail (1.00)
Garvin County 5 S Stratford	22	1655CST			0	0	?	?	Hail (0.75)
Grady County 3 SW Blanchard	22	1700CST			0	0	?	?	Hail (0.75)
Wagoner County 2 N Porter	22	1700CST			0	0	?	?	Hail (0.75)
Pittsburg County Savanna Atoleo County	22	1715CST			0	0	?	?	Hail (0.88)
Atoka County 3 NW Redden Pontotoc County	22	1725CST			0	0	?	?	Hail (0.88)
Harden City	22	1730CST			0	0	?	?	Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	D	timated amage rty Crops	Character of Storm
OKLAHOMA Con	t'd								
Coal County Lehigh	22	1800CST			0	0	?	?	Hail (0.75)
Atoka County 5 NE Stringtown	22	1805CST		•	0	0	?	?	Hail (0.75)
Johnston County Millcreek	22	1810CST			0	0	?	?	Thunderstorm Winds
Pushmataha County 1 S Clayton	22	1810CST			0	0	?	?	Thunderstorm Winds
Garvin County 6 NNW Elmore City Atoka County	22 22	1830CST 1830CST			0	0 0	?	?	Thunderstorm Winds Flash Flood
Choctaw County Frogville	22	1900CST			0	0	?	?	Hail (1.50)
Bryan County 3 N Armstrong	22	1900CST			0	0	?	?	Hail (1.50)
Johnston County 5 W Wapanucka	22	1930CST			0	0	?	?	Thunderstorm Winds
	Thur	nderstorm win	ds blew d	lown tree	limbs v	west of V	Wapar	ucka.	
McCurtain County							•		
2 E Broken Bow Glover	22 22	1935CST 1940CST			0	0	?	?	Thunderstorm Winds Thunderstorm Winds
Idabel Carter County	22	1945CST			Ŏ	Ŏ	?	Ž.	Thunderstorm Winds
6 S Dickson Bryan County	22	1945CST			0	0	?	?	Hail (0.75)
Durant	22	2000CST			0	0	?	?	Flash Flood
Marshall County 5 SW Kingston	22	2010CST			0	0	?	?	Thunderstorm Winds
Murray County Dougherty	22	2030CST			0	0	?	?	Hail (0.75)
Love County 2 E Rubottom	22	2035CST			0	0	?	?	Hail (1.75)
Marshall County	22	2100CST			0	0	?	?	Flash Flood
	The flash boats east south Cour flood storm grounanter	storms became flooding. Street. Damaged of Broken Bouwest of Kingnies. Atoka Cling in Duran ling from hearns. In Holdernd. In Pragu	e severe verong wind or uproote ow, and seton. Flactounty rect and acrevy rainfal nville, lightnick, burned	with many is at Lake d trees we outhwest ush flooding eived alm oss Atoka l washed thining struck l out the ra	repor Tenkil ere rep of Kin ng was ost 4.0 a and l a car cuck a a fire adio an	ts of stro ler, near orted at agston. reported 0 inches Marshall off a roa vacant h truck of d siren,	Cook Muldi Trees d in B of rai Cound. L nome,	inds and son, cau row, at I and por row, Maryan, Maries. In the ightning and the radio anticant.	long and ahead of a cold front. large hail, as well as isolated sed dock damage and sunk two Harden City, south of Clayton, wer lines were reported down uskogee, Marshall, and Atoka ninutes. Roads were closed by a Muskogee County, roadway also did damage during these resulting fire burned it to the enna. The lightning blew the the truck's two rear steel-belted
Woods County 1 N Waynoka	23	1140CST			0	0	?	?	Thunderstorm Winds
Alfalfa County 3 E Jet	23	1140CS1 1255CST			0	0	?	?	
Garfield County					0	0	?		Thunderstorm Winds (G54)
Carrier Grant County	23	1300CST						?	Thunderstorm Winds
2 S Nash	23	1310CST			0	0	?	?	Thunderstorm Winds

Location	Data	Time Local/	Path Length	Path Width	Per	nber of	Da	imated image	Character of Share
Location	Date	Standard	(Miles)	(Yards)	Killed	Injurea	Proper	ty Crops	Character of Storm
OKLAHOMA Con	t'd								
Payne County Logan County	23.	1352CST			0	0	?	?	Thunderstorm Winds
Crescent Canadian County	23	1400CST			0	0	?	?	Thunderstorm Winds
2 S Piedmont Kingfisher County Logan County	23 23	1410CST 1415CST			0	0	?	?	Thunderstorm Winds (G54) Thunderstorm Winds
14 SW Stillwater Coyle	23 23	1440CST 1443CST			0 0	0	?	?	Thunderstorm Winds Thunderstorm Winds
Oklahoma County Will Rogers	23	1446CST			0	0	?	?	Thunderstorm Winds (G54)
Payne County 12 W Perkins McClair County	23	1500CST			0	0	?	?	Thunderstorm Winds (G52)
McClain County Newcastle Oklahoma County	23	1505CST			0	0	?	?	Thunderstorm Winds
Midwest City Pottawatomie County	23	1510CST			0	0	?	?	Thunderstorm Winds (G61)
6 E Tecumseh McClain County	23	1540CST			0	0	?	?	Thunderstorm Winds (G61)
7 S Newcastle Seminole County	23	1542CST			0	0	?	?	Thunderstorm Winds (G52)
Seminole Cleveland County	23	1600CST	•		0	0	?	?	Thunderstorm Winds
Lexington Pontotoc County	23	1610CST			0	0	?	?	Thunderstorm Winds (G61)
8 W Ada Garvin County	23	1610CST			0	0	?	?	Thunderstorm Winds (G52)
Pauls Valley Hughes County	23	1620CST			0	0	?	?	Thunderstorm Winds (G52)
Atwood Coal County	23	1630CST			0	0	?	?	Thunderstorm Winds
Tupelo Olney	23 23	1645CST 1715CST		•	0	0 0	?	?	Thunderstorm Winds Thunderstorm Winds
	mov- thun	ed quickly so	outheast vids downe	with wide d or dama	spread ged tre	reports es north	of sof w	trong w aynoka,	oma during the afternoon and inds and large hail. Severe Carrier, Kingfisher, southwest Olney
Sequoyah County Sallisaw	24	1500CST			1	0	?	?	Excessive Heat
	A 33	3-year-old mai	n working	in a field	raking	hay co	llapsec	d and die	ed from the heat. (M330)
OREGON									
Hood River and Counties					?	?	?	?	Freeze
	A la on y Vall	oung pears, ap	t in the froples, and	uit growin cranberrie	g regions. Ten	ons of nonperatur	orthwe es fell	est Orego as low a	on had an undetermined impact as 28 degrees in the Hood River
Umatilla County Pendleton	10				?	?	?	?	Hail (0.50)
	A th	understorm di	umped 0.5	0-inch ha	il stone	s on do	wntow	n Pendl	eton.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
OREGON Cont'd									
Grant County 5 E John Day	23	2200PDT			0	0	4	?	Flash Flood
•		nty homes sust were closed.	tained floo	od damage	and fa	milies v	were e	vacuated	l. Portions of Highways 26 and
Baker County Baker City	24	1200PDT			0	Ó	0	5	Hail (0.50)
•	A th of g	understorm pro rain and potato	oduced 0. crops we	50-inch ha ere obliter	ail and ated by	piled it the sto	as mu rm.	ich as 6 i	inches deep. At least 200 acres
Malheur County Jamieson	24	Unknown			?	?	?	?	Flood
	Thur	nderstorms flo	oded acres	s of land,	ruining	crops	of bee	ts, carro	ts, lettuce, and grain.
Gilliam County Condon	28	Unknown			?	?	?	?	Heavy Rain
	A se	vere weather s	potter rep	orted 1.8	3 inche	s of rai	n in 4	5 minute	es.
Umatilla County 6 SE Lexington	28	Unknown			?	?	?	?	Funnel Cloud
Deschutes County 10 NE Bend	28	Unknown			?	?	?	?	Funnel Cloud
,	Two	sightings of f	unnel clou	ıds were ı	reported	l by the	publi	ic.	
Jefferson County					•				
Madras	28	Unknown			?	?	?	?	Heavy Rain
	A se	vere weather s	potter rep	orted 1 in	ich of 1	ain in 1	hour		
PENNSYLVANIA,	East	tern							
Berks County 2 NE Reading Barto Barto	11 11 11	2010EST 2030EST 2030EST	• • •		0 0 0	0 0 0	4 0 3	0 0 0	Thunderstorm Winds Hail (0.75) Thunderstorm Winds
	A the Barto	understorm dro . In north-ea	opped din st Reading	ne-size ha g the roof	il and l was bl	nad win own of	d gus f a ho	ts that uj use.	prooted trees in the vicinity of
Montgomery County 2 S Blue Bell 1 E Plymouth Valley	11 11	1900EST 1900EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
· and	of a l	nderstorm wind baseball dugou the wall colla	t, east of l	wned tree Plymouth	s south Valley.	of Blu Three	e Bell Little	and col League	llapsed the concrete block wall players suffered minor injuries
York County Airville	16	1430EST			0	0	4	0	Thunderstorm Winds
	Thun	derstorm wind	l gusts de	roofed a h	nouse a	nd mov	ed a n	nobile ho	ome off its foundation.

June 1991

									Julio 1771
		Time	Path	Path	Nu	mber of	Es	imated	
Landina	Data	Local/	Length	Width		rsons		amage	Character of Staum
Location	Date	Standard	(Miles)	(Yards)	Killed	injured	Рторе	пу Сгорв	Character of Storm
PENNSYLVANIA,	Eas	tern Cont'd							
Chester County West Chester	16	1437EST			0	0	4	0	Thunderstorm Winds (G52)
	Thu	adometoma ssia	d musta s	atimatad a	+ 60	mh dav	mad ta	oon and t	
		n automobile.	u gusis, c	Stilliated a	t 00 m	фи, dow	neu u	ccs and i	tree limbs; one of the trees fell
Bucks County		4.4555555			•		•	•	77 1 . TYP 1 (070)
Warrington	16	1455EST			0	0	?	0	Thunderstorm Winds (G52)
	Thu	nderstorm win	d gusts w	ere estima	ited at	60 mph	•		
Delaware County									
Drexel Hill	16	1500EST			0	0	?	0	Thunderstorm Winds (G52)
Villanova Wayne	16 16	1500EST 1508EST			0	0	?	0	Thunderstorm Winds (G52) Thunderstorm Winds (G61)
Radnor	16	1525EST			0	1	?	ŏ	Thunderstorm Winds
Newtown Square	16	1525EST			0	0	3	0	Thunderstorm Winds
Chester County	Tree an au	s were downed	in the Ruring the c	adnor and Iriver. Tw	Newto	own Squ	are ar	eas. In F	em bringing down utility lines. Radnor, one tree came down on d in their automobiles by falling
2 SE Oxford	16	2000EST			0	1	4	0	Thunderstorm Winds (G65)
	dow	nderstorm win ning trees, lim ile home was	bs, utility	y lines and	as hig poles	gh as 7: , and ov	5 mph erturn	, sweep ing one	through a mobile home park mobile home. A woman in the
Lancaster County 2 S Lampeter	30	1445EST			0	1	4	0	Thunderstorm Winds
New Holland	30	1450EST			Ŏ	Ô	4	ŏ	Thunderstorm Winds
	on a Holl	State Troope and, the wind portions of the	r's vehicl gusts cau	le who su sed a com	stainec mercia	l injurie l buildin	s and g that	was trap was und	p near Lampeter. One tree fell oped in the vehicle. In New er construction, to collapse and s down in other portions of the
Chester County 1 W Westwood 1 SE Pocopson 1 S Morstein	30 30 30	1515EST 1515EST 1530EST			0 0	0 0 0	4 3 3	0 0 0	Lightning Thunderstorm Winds Thunderstorm Winds
	a tre	nderstorm wind e that fell on t ed a fire near	he campe	r that he w	vas rid	ing in no	ear Mo	orstein.	in. A boy was pinned beneath He was not injured. Lightning a house.
Delaware County 2 NE Thornton Media Swarthmore Holmes	30 30 30 30	1600EST 1615EST 1620EST 1625EST			0 0 0 0	0 0 0	3 3 3	0 0 0 0	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds

In Thornbury Township near Thornton, thunderstorm wind gusts, estimated at 60 mph, downed trees and utility lines.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Da	mated mage ty Crops	Character of Storm
PENNSYLVANIA	, We	stern							
Indiana County 8 SW Indiana	11	1720EST			0	0	0	0	Thunderstorm Winds
	Tree	s were blown	down and	power o	utages v	were rep	ported:	in Ault	man.
Cambria County 12 NW Ebensburg	11	1800EST			0	0	?	0	Thunderstorm Winds Lightning
	In Ba	arnesboro, a fe set on fire.	w trees ar	nd power	lines w	ere dow	ned and	d a tran	sformer was struck by lightning
McKean County 21 S Bradford	11	1350EST			0	0	0	0	Thunderstorm Winds
	Larg	e tree limbs ar	nd power	lines were	e down	ed. Sig	ns wer	e blow	n down 4 miles east of Kane.
18 SE Bradford	11	1355EST			0	0	0	0	Thunderstorm Winds
	Powe	er lines were b	olown dov	vn at Cler	mont.				
Potter County 11 SW Coudersport	11	1400EST			0	0	0	0	Thunderstorm Winds
Coddisport	Large	e tree limbs an	nd power	lines dow	med in	Austin.			
Erie County 12 SW Erie	15	1315EST			0	0	0	0	Hail (0.75)
	Hail	measuring 0.7	5 inch in	diameter	was re	ported i	n Fair	iew.	
18 S Erie	15	1330EST			0	0	?	0	Hail (0.75) Thunderstorm Winds Lightning
	Edin Coun Colle	ty. Large tent	lime-size l ts and por	hail and d rt-a-jons v	owned vere kn	power li ocked d	ines. P lown, a	ower or nd ligh	utages occurred in southern Erie tning started a fire at Edinboro
Crawford County Meadville	15	1455EST			0	0	0	0	Hail (0.75)
	In M	eadville, 0.75	inch hail	fell.					
Venango County 19 NE Franklin	15	1535EST			0	0	0	0	Thunderstorm Winds
	Wind	s in excess of	58 mph v	were repo	rted at	Pleasan	tville.		
McKean County Bradford	15	1535EST	•		0	0	0	0	Hail (0.75)
	Bradi	ord reported ().75-inch	hail.					
Forest County 1 N Tionesta Western	15	1600EST			0	0	0	0	Thunderstorm Winds Hail (0.75) (1.25)
									•

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	E	stimated Samage erty Crops	Character of Storm
PENNSYLVANIA	, We	stern Cont	'd						
	Pow-	er lines were rted half-dol	e downed a lar-size hai	and 0.75-ii il.	nch ha	il were i	report	ed in Jar	nison. Western Forest County
10 NE Tionesta	15	1630EST			0	0	0	0	Hail (0.75)
	Ten	miles northe	ast of Tior	nesta, 0.75	inch-	hail was	repor	ted.	
Clarion County 12 NE Clarion	15	1740EST			0	0	0	0	Thunderstorm Winds
	Pow	er lines were	blown do	wn in Coo	k For	est State	Park	•	
Jefferson County 13 SE Brookville	15	1920EST			0	0	0	0	Thunderstorm Winds
	Reyr	noldsville and	d Sykesvill	le reported	l dowr	ed powe	r line	s.	
Erie County 4 N Erie	15	2000EST			0	0	0	0	Thunderstorm Winds
	On I	Presque Isle,	large tree	limbs and	powe	r lines w	ere d	owned.	
12 NE Erie	15	2035EST			0	0	0	0	Thunderstorm Winds Hail (0.75)
	Dim	e-size hail w	as reported	l, and pow	ver lin	es were o	lown	ed.	
Washington County 18 E Washington	16	1902EST			0	0	0	0	Flash Flood
	Sewe	ers were back	ced up in (Charleroi a	and Sp	eers.			
Fayette County 15 NW Uniontown	16	1915EST			0	0	0	0	; Flash Flood
	Base	ments were	flooded in	Belle Ven	non an	d Perryo	polis	•	
16 NE Uniontown	16	2110EST			0	0	. 0	0	Flash Flood
	Road	ls were flood	led in Eve	rson and E	Bullski	n Towns	hip.		
Westmoreland County 15 S Greensburg	16	2110EST			0	0	0	0	Flash Flood
	Road	d flooding oc	curred nea	r Scottdal	e in W	estmore!	and (County.	
Blair County Altoona	22	1500EST	•		0	0	0	0	Flash Flood
٠	Mill	Run overflo	wing resul	ted in 2 to	4 fee	t of wate	er in s	some plac	ces.
Clearfield County Dubois	22	1711EST			0	0	0	0	Flash Flood
	Roac	d flooding oc	curred on	Routes 21	9 and	255, and	l Pen	n Run wa	as flooded in low-lying areas.
Jefferson County Dubois	30	1155EST			0	0	0	0	Thunderstorm Winds

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	D	timated amage rty Crops	Character of Storm
PENNSYLVANIA,	, Wes	stern Cont'o	i						
	Wind	gusts to 60	mph were	reported	at Dub	ois Flig	ht Ser	vice Stat	ion.
Butler County 12 NW Butler	30	1215EST			0	0	0	0	Funnel Cloud
	A fu	nnel cloud wa	s spotted	by a lifeg	uard at	Morair	ne Stat	te Park.	
13 N Butler	30	1215EST			0	0	0	0	Thunderstorm Winds
	Num in ce	erous 80-foot intral Cherry	trees wer Township	e snapped by thunde	off at erstorm	50 feet winds.	above	ground,	and power lines were downed
6 NE Butler	30	1215EST			0	0	0	0	Thunderstorm Winds
	Large	e trees and wi	ires were	downed in	Oakla	nd Tow	nship	•	
Jefferson County 8 NE to 14 E Brookville	30	1225EST			0	0	0	0	Thunderstorm Winds
DIOCEVINO	Trees Falls	s and power l Creek.	ines were	downed i	n War	saw and	Polk	Townsh	ips, and trees were downed in
Lawrence County Northwestern Portion	30	1230EST			0	0	0	0	Thunderstorm Winds
	Trees	s and power li	ines were	downed a	round	northwe	stern	Lawrenc	e County.
Mercer County	30	1230EST			0	0	0	0	Thunderstorm Winds
	Trees	s and power li	ines were	downed a	ll over	Mercer	Coun	ıty.	
Lawrence County	30	1255EST			0	0	0	0	Thunderstorm Winds
	The s	state police re	ported tre	es and pov	wer lin	es dowr	ned ac	ross the	county.
5 N New Castle 8 SE New Castle	30	1300EST			0	0	0	0	Thunderstorm Winds
4 SW New Castle	Trees	s and power lis s were blockir	nes were d ng Route 1	lowned in 18 in Shen	Neshai ango	nnock, I Fownshi	lickon p.	y, Wilm	ington, and Wayne Townships.
Clearfield County 15 SE Clearfield	30	1320EST			0	0	0	0	Thunderstorm Winds
	Powe	er lines were b	olown dov	vn in Osce	ola M	ills.			
Beaver County 14 NW Beaver 2 E Beaver	30	1320EST			0	0	0	0	Thunderstorm Winds
5 S Beaver	In Da	arlington, Roc	hester, an	d Center	Towns	hips lar	ge tree	es and po	ower lines were blown down.
2 E Beaver	30	1325EST	•		0	0	0	0	Funnel Cloud
		nnel cloud wa	s spotted	near Roch		•			
5 S Beaver	30	1335EST		-	0	0	0	0	Thunderstorm Winds

Center Township reported wind gusts to 60 mph.

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons	D	imated amage	Character of Storm
Location	Date	Standard	(Miles)	(Tarus)	Killed	injureu	Prope	ny Crops	Character of Storm
RHODE ISLAND									
Providence County Smithfield Glocester	12	1540EST- 1600EST			0	0	5	0	Thunderstorm Winds
Johnston Cumberland	A sq	uall line move omers, and ca	ed across thusing scat	ne county k tered prop	nockin erty da	g down mage.	trees,	disruptii	ng power to some 7,000 electric
Kent County Warwick	12	1553EST			0	0	3	0	Thunderstorm Winds
	Tree	s were knock	ed down o	nto severa	l cars.				
SOUTH CAROLIN	ΝA								
Oconee County Walhalla	Unk	nown			0	0	4	0	Lightning
	Ligh time	tning damage cannot be de	d the fire termined.	alarm syst Total dan	tem at nage w	the Occ as estin	nee C nated a	County D at \$8,500	etention Center. The date and).
Pickens County Easley Greenville County	01	1445EST			0	0	?	?	Hail (0.75)
NW Greenville	01	1515EST			1	0	5	0	Thunderstorm Winds (G60) Hail (0.75)
Anderson County E Powdersville Anderson City	01 01	1515EST 1600EST			0	0	?	?	Hail (0.75) Hail (1.75)
	the down a ho Man estin EST	lamage occurr n, signs were me causing se y other struct nates were we	red in north torn down evere dama tures and tures \$10 lin the san	hern Green, and small age and the wehicles was 00,000 in me area for the small and the small area.	nville valle build be death ere dan this small about	where a ings we of the maged luall part t 30 min	numb re dan woma by fall of Gr nutes.	per of tree maged or inside: ling limber eenville. Large l	es and power lines were blown destroyed. A large tree fell on from suffocating on the debris. It is and trees. Property damage The storm started about 1500 nail fell across much of eastern
Berkeley County 2 S Jamestown 7 NW Goose Creek	01 01	1714EST 1735EST			0	0	?	?	Hail (0.25) Hail (0.25)
	Pea- mile	size hail, and is north-west of	heavy rain of Goose (s with stro Creek, a w	ng, gu ind gu	sty wind st to 30	is wer	e reporte was repo	d by two storm spotters. Seven orted.
Spartanburg County Campobello Pickens County	02	1500EST			0	0	3	?	Thunderstorm Winds
N of Easley	02	1525EST			0	0	4	?	Thunderstorm Winds Hail (1.75) Lightning
Laurens County Durbin Creek	02	1705EST			0	0	?	?	Thunderstorm Winds
	A sr	nall area of se	evere thun	derstorms	develo	ned in	much	the same	manner as the day before A

A small area of severe thunderstorms developed in much the same manner as the day before. A roof was blown off a small building in Campobello and there was quite a bit of damage in east-central Pickens County. Trees were blown down, lightning caused at least one house fire, and golf ball-size hail fell. Damage from the fire was estimated at \$800. Trees were also blown down in northern Laurens County.

June 1991

									Julio 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated mage tv Crops	Character of Storm
SOUTH CAROLIN	IA C	ont'd							
Orangeburg County Orangeburg	14	1200EST			0	0	4	0	Thunderstorm Winds
4 NE Orangeburg	14	1235EST			0	0	?	?	Urban Flooding Hail (0.75)
	and of th	destroying it. e mobile home	Several ot es. There	her mobile was urbai	e home n flood	es suffer ling at t	ed mir he viac	or dama luct on	t; knocking it off its foundation ge. No one was injured in any U.S. Highway 21/178 By-pass. of Orangeburg.
Calhoun County 1 SE St. Matthews	14	1240EST			0	0	?	?	Thunderstorm Winds
	Live	wires were bl	own dow	n on a roa	d.				
Berkeley County Goose Creek	14	1400EST			0	0	?	0	Urban Flooding
	to C ₁	n flooding occ rowfield Plants storm sewers.	ation Cou	ntry Club,	near t	he club	house,	was flo	High School. The access road oded and whirlpools developed away 176.
Pickens County 5 W Pickens	14	1630EST			0	0	4	0	Lightning
	Light	tning struck a	house, an	d apparen	tly spa	rked a	fire. 7	he hous	se was unoccupied at the time.
Berkeley County									
Goose Creek	15	1400EST- 1630EST			0	0	?	0	Lightning Urban Flooding
	cause injurinval 16th. and f Blue by th Goos	ed by lightning ies were reported woman was The fire gutter to the fire damage in Fox Drive. Note fire. At 162	g. There ted. The admitted ed a bedro the rest o No one wa EST, the e Departn	were six major lighto a local som in her of the houses home at the last may	other htning hospit home, se. At the tire	lightnin fires we al for si located 1525 E me. The	g fires ere as i noke in l at 129 EST, li le kitch ed. Li	in the follows: nhalation Kennir ghtning living ghtning ghtning ghtning	d three major house fires were area, but no major damage or At 1409 EST, an 81-year-old n, and died at 0030 EST on the agton Drive, and there was heat struck a tree and house at 309 ng room, and attic were gutted also knocked out power at the form stranded about 18 cars on
Beaufort County Bluffton Bluffton	15 15	1545EST 1559EST			0 0	0	3 4	0	Lightning Lightning
	the se proce the ir	cene did not fi eded to the gratersection of l	nd a fire. ound. Da U.S. High	Most of t mage was way 278 a	the dar estima ınd Sin	nage wa ated at \$ nmonsv	is to th 1,000. ille Ro	e soffit Lightr ad at 15	ton. Firefighters dispatched to of the building as the lightning ing also struck a utility pole at 59 EST, in Bluffton. The pole to the transformer on the pole.
Greenville County Simpsonville	16	1630EST		·	0	0	4	0	Thunderstorm Winds Lightning

A single thunderstorm among many became severe. Several trees were blown down in Simpsonville and a couple of mobile homes were shifted off their foundations by the wind. Lightning struck at least one home causing some damage.

•									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	mber of rsons Injured	Da	mated mage ty Crops	Character of Storm
SOUTH CAROLII	NA C	cont'd							
Clarendon County 1 SE Alcolu	-17	2100EST			0	0	4	?	Thunderstorm Winds
	dest	nderstorm win royed a storag 120 mile mark	e shed, an	d blew a s	heriff's	s patrol	r block car into	s, but le o a ditch	ft them upright. The winds also i. Trees were blown down near
Georgetown County Murrells Inlet	17	1321EST			0	0	?	0	Lightning
	Ligh	ntning struck th	he antenna	tower for	WKO	A-FM R	adio St	ation, fo	orcing it off the air for 20 hours.
Union County Phillipi Community	17	2000EST			0	0	3	?	Thunderstorm Winds
Community		eral trees wer iderstorm.	e blown	onto struc	tures a	ind pow	er line	es were	also blown down in a severe
Greenville County Greenville	18	1900EST	u.e		0	0	3	0	Flash Flood
	Rep Rive	eating thunder er also crested	storms car above flo	used some ood stage.	severe Some	urban 1 retainin	floodin g wall	g in the s and ot	city of Greenville. The Reedy her property were damaged.
Anderson County Anderson	19	0945EST			0	0	3	0	Flash Flood
	Ove cars	r 4 inches of a were stalled of	rain fell in out in the	about 1 flood wate	5 hour er. So	causing me smal	severe	urban ms over	flooding in Anderson. Several flowed in and around the city.
Marlboro County Bennettsville	19	1900EST			0	0	4	0	Urban Flooding
McColl and 2.5 SSE Blenheim	19 20	1900EST- 0030EST			0	0	4	?	Flash Flooding
McColl Bennettsville	19 19	2046EST 2100EST			0	1	3	0	Lightning Lightning
	Lightwo failubefo to 3 were rece Flet four In B inch was	rating struck to radio commu are of Covingto ore the Civil W O years. It has e lost as a rest ived some dant cher Street, and dirt roads we dennettsville, Uses of water. The	he buildin nications on Pond D /ar. In the last been es soult of the last been from last been l	g sending towers at am, 2.5 m e past, pre timated the flood. I on the flash Main Stree I out. All way 15-40 g lot at the omobile 1	an electhe Coules solvious fat 40 transfer floods floods l roads of Bi-Loot was	trical subunty Ja uth-south ailures to 50 acre coll and the King ed in Mo were w ss from shoppir	rge thrill. Five heast of the eres of series o	ough the inches of Blenher arthen property of the continuation of	n set at the McColl Apartments. e wiring. Lightning also struck of rain in 2 hours caused the sim, built on Cotting-ham Creek cortion occurred about every 20 s, and 40 to 50 acres of cotton 13 to 14 homes or businesses or Street, East Gibson Avenue, aved road was washed out, and the Bennettsville - McColl area. County High School had 4 to 6 s the street from the high school cColl, 39 inches of water was
Pickens County Clemson	22	1230EST			0	0	?	0	Urban Flooding
	Part	s of College A	Avenue ha	d urban fl	ooding	during	a thun	derstorn	n.
Spartanburg County Spartanburg	22	1300EST			0	1	0	0	Lightning

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage	Character of Storm
				<u></u>		<u> </u>			
SOUTH CAROLIN	IA C	ont'd							
	Ligh	tning struck a	tin-roof s	shed, shock	king aı	occup	ant.		
Oconee County Seneca	22	1814EST			0	0	2	0	Lightning
	Ligh burn \$300	out, sending	n air cond smoke thr	itioning ur ough the	nit on t ventilat	he roof tion sys	of Tr tem o	inity Bap f the chu	tist Church, causing a motor to rch. Damage was estimated at
Beaufort County Hilton Head Island	23	2155EST			0	0	?	0	Lightning
Totalin	Ligh	tning struck a	microway	ve telephor	ne tran	smissio	n tow	er and da	amaged switching equipment.
Jasper County Hardeeville	23	2246EST			0	0	2	0	Lightning
	Light dama		e roof of	the Carolii	na Lod	ge Mote	el, sta	rting a fi	re, causing approximately \$500
SOUTH DAKOTA									
Beadle County Huron	02	2000CST			1	0	0	0	Flood
	A bo	y drowned wheally dry, but	nen he rod was full o	e his bike f water du	into a le to ra	drainag in that	e ditc	h that wa n May 3	s full of water. The ditch was lst and June 1st. (M140)
Spink County Redfield	03	1403CST			0	0	0	0	Hail (0.75)
Yankton County Yankton	03	1410CST			0	0	2	0	Thunderstorm Winds (G51)
Hughes County	03	1500CST- 2300CST			0	0	5	2	Flood
	could	l not handle th	e large an	nount of w	ater. 1	Many ro	oads, l	bridges, a	nd creeks flooded because they and culverts were damaged and flood waters in Pierre.
Spink County Ashton	03	1510CST			0	0	2	0	Thunderstorm Winds (G53)
	A me	etal shed, a loa	ading chut	te, and a c	orral v	vere blo	wn o	ver by st	rong winds.
Potter County 7 S Lebanon	03	1518CST			0	0	0	0	Hail (0.75)
Brookings County Brookings	03	1535CST			0	0	0	0	Thunderstorm Winds (G50)
Hamlin County Bryant	03	1600CST			0	0	3	0	Flood
•	After		.00 to 6.0 were also	0 inches, v	water v	vas runn			way 28 in the center of Bryant.
Custer County 6 SE Custer	03	1600CST		III	1		0	0	Lightning

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	imated image ty Crops	Character of Storm
SOUTH DAKOTA	Con	ıt'd							
	A· 9	-year-old boy	died after	he was st	ruck by	lightni	ing.		
Yankton County Yankton Panalinan County	03	1620CST			0	0	0	0	Thunderstorm Winds (G51)
Brookings County Lake Campbell	03	1734CST			0	0	3	0	Thunderstorm Winds (G60)
	Thu	nderstorm wi	nds destro	yed part o	f a roof	f on a h	ouse a	nd knoc	ked over 10 mature trees.
SDZ010 Central	04 05	1400CST- 0200CST			0	0	5	2	Flood
	bloc som	ked in Stanley	, Sully, H damaged,	lughes, and and railro	d Lyma ad tracl	n Count ss were	ties. N destro	lear Can yed nea	ere under water. Roads were ning, several stock dams broke, r Canning. Some crop damage ies.
Sanborn County 7 W Woonsocket	04	1430CST			0	0	3	0	Thunderstorm Winds (G60)
Gregory County 2 W Bonesteel	04	1440CST			0	0	2	0	Thunderstorm Winds (G55)
Spink County Redfield	04	1500CST			0	0	2	0	Thunderstorm Winds (G60)
Lawrence County 40 NW Rapid City	05	1615CST			0	0	0	2	Hail (1.00)
Countywide	05	1700CST- 2000CST			0	0	5	0	Flood
	loca out High alon	tions of the co culverts and hway 385 was	ounty. Hi secondary s closed as d Whitewo	ighway 14 roadway nd two nea ood Creek	A throu entrand arby car s. Hig	igh Bou es near mpgrou hway 8	ilder C the c nds w	Canyon h country of ere evac	using flash flooding in various and minor flooding that washed club, along Bear Butte Creek. uated due to the flash flooding d was closed for a time due to
Deadwood Meade County	05	1700CST	•		0	0	0	. 0	Hail (1.75)
Sturgis	05	1730CST			0	0	3	0	Flood
	Seve	eral city street	s washed	out when	Bear Bu	itte Cre	ek flo	oded.	
Fall River County Oelrichs	05	1900CST- 2000CST	ø		0	0	2	0	Flood
	One	to three inch	es of rain	caused mi	nor floo	oding o	f road	ways.	
Custer County 35 S Rapid City	05	1900CST- 2000CST			0	0	2	0	Flood
	One	to three inche	s of rain o	aused min	or floo	ding of	roadw	ays in th	e Keystone and Hermosa areas.
Lawrence County Spearfish	06	1430CST			0	0	2	0	Flood
	Floo	ding from 1.2	20 inches	of rainfall	in 45 r	ninutes	cause	d minor	damage.
Meade County Blackhawk	08	1511CST			0	0	0	0	Hail (0.75)

		Time	Path	Path	Nun	nber of	Estimated	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)		sons Injured	Damage Property Crop	S Character of Storm
			()	(11111)		1191111	Taskana anak	
SOUTH DAKOTA	Con	t'd						·
Pennington County								** 44 .c ***
Camp Columbus	80 80	1531CST 1543CST			0	0	0 0	Hail (0.75) Hail (1.00)
Placerville Johnson Siding	08	1543CST			ŏ	ŏ	0 0	Hail (1.25)
24 WNW Rapid City	08	1550CST			Ŏ	Ŏ	Ŏ Ŏ	Hail (1.00)
Hisega	08	1552CST	4		0	0	0 0	Hail (1.25)
Canyon Lake Park 5 N Hermosa	08 08	1620CST			0	0	0 0	Hail (0.88)
New Underwood	08	1633CST 1645CST			ŏ	0	0 0	Hail (1.00) Hail (1.00)
Rapid City	09	1431CST			ŏ	ŏ	ŏŏ	Hail (1.25)
25 SW Philip	09	1640CST			0	0	0 0	Hail (1.50)
Custer County	^^	154600T			^	^		II 11 (1 0C)
28 SW Rapid City Brown County	08	1546CST			0	0	0 0	Hail (1.25)
8 S Aberdeen	09	1435CST			0	0	2 3	Hail (1.25)
Warner	09	1437CST		,	Ō	Ō	0 0	Hail (1.00)
Warner	09	1443CST			0	0	2 3	Hail (1.75)
10 SE Aberdeen	09	1504CST			0	0	0 0	Hail (0.75)
Spink County 1 S Mansfield	09	1438CST	1.0	10	0	0	0 0	Tornado (F0)
1 0 1/12-12-13		11,50051	1	10	•	•		101111111111111111111111111111111111111
	A sn	nall tornado to	ouched do	wn for a s	hort tir	ne in a	field with no	damage reported.
Mellette	09	1514CST			0	0	0 0	Hail (0.75)
Jackson County	0)	131431			v	U		11an (0.73)
Cedar Pass	09	1645CST			0	0	0 2	Hail (1.00)
15 SSE to 50 SE	09	1700CST-			0	^		TT 11 (1 50)
Philip		1800CST			U	0	4 3	Hail (1.50)
	Large	e hail damage	d crops ar	nd vehicle	s acros	s an 8-n	nile-wide and	70-mile-long area.
Hamlin Country	_	_	-					-
Hamlin County Bryant	09	1720CST			0	0	0 0	Hail (0.75)
Marshall County	0)	1720031				U	0 0	11aii (0.73)
5 N Britton	09	1725CST			0	0	0 0	Hail (0.75)
Roberts County	^^	1005 CCC			^	^		II-1 (0.75)
Sisseton Pennington County	09	1905CST			0	0	0 0	Hail (0.75)
Pactola Dam	13	1457CST			0	0	0 0	Hail (0.75)
Whispering Pines	13	1450CST-						
Ed-made Country		1515CST			0	0	2 0	Hail (1.00)
Edmunds County 10 W to	13	1745CST-						•
1 W Roscoe	1.5	1800CST	9.0	10	0	0	0 0	Tornado (F1)
	Rosc up an	oe to 6 miles	west of Re it dissipate	oscoe. The	e path vest of !	of the to Roscoe.	ornado contii Although th	westerly from 10 miles west of nued for another 5 miles but was e tornado had a long path, it was
Countywide	13	1820CST	viii o u gii	Pon mone	0	0	3 4	Hail (0.75)
County wide								, ,
		il swath, appro swich. There						s west of Roscoe to 5 miles west
Loyalton	13	1930CST			0	0	0 0	Hail (0.75)
Brown County Fredrick	13	2030CST			0	0	2 0	Thunderstorm Winds (G58)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	mber of rsons	Da	imated mage ty Crops	Character of Storm
		· · · · · · · · · · · · · · · · · · ·							
SOUTH DAKOTA	Con	t'd							
5 S Fredrick	13	2045CST			0	0	3	4	Hail (1.25)
	and	understorm in property dama ped in the 1-r	ige. Mos	t of the pr	operty	damage	was de	nd stron one to w	g winds that caused some crop rindows and roofs. Crops were
Buffalo County 8 SW Gann Valley Spink County	13	2145CST			0 -	0	0	0	Hail (0.75)
Mellette Fall River County	13	2200CST			0	0	0	0	Thunderstorm Winds (G52)
10 S to 10 SW Oelrichs Shannon County	14	1515CST- 1625CST			0	0	2	4	Hail (1.00)
15 W Pine Ridge	14	1615CST- 1635CST			0	0	0	3	Hail (0.75)
	Seve	eral inches of	hail piled	up in sou	thweste	ern Shan	non C	ounty.	
Kingsbury County 3 N Badger	14	1925CST	0.1	10	0	0	0	0	Tomado (F0) Hail (1.00)
	A sr	nall tornado to	ouched do	wn briefly	y, but o	caused n	o dam	age.	
South Dakota Black Hills	18	0205CST- 0430CST			0	0	4	4	Hail (2.00)
	A se	ries of early 1	norning th	hunderstor	ms mo	ved acro	oss the	Black I	Hills. The storms dropped hail
Danie stan County	betw	veen 1.00 to 2	.00 inche	s in diame	ter. H	iaii dami	age wa	is wides	pread.
Pennington County Camp Columbus	18	0205CST			0	0	2	0	Hail (1.00)
2 SE Rapid City Rapid City	18 18	0215CST 0240CST			0	0	3 3 4	0	Hail (2.00) Hail (1.75)
Rapid City Wall	18 18	0330CST 0330CST			0	0 0	3	0 0	Hail (2.00) Hail (1.50)
	Hail City	broke windo , and damaged	ws, punch l airplane	ned holes s parked a	in fiber t the R	rglass he lapid Ci	ouse a ty Air	wnings, oort.	smashed windshields in Rapid
Meade County Piedmont	18	0215CST			0	0	2	0	U-:1 (1 50)
Haakon County	18	0430CST	٠				3		Hail (1.50)
Philip Clark County 1 N Elrod	18				0	0	0	0	Hail (0.75)
Codington County		0545CST			_				Hail (1.00)
Watertown 3 N Kranzburg 1 N Kranzburg	18 18 18	0620CST 0623CST 0625CST			0 0 0	0 0 0	5 4 4	5 5 5	Hail (2.00) Hail (1.00) Hail (1.75)
	and '	ge hail broke vicinity. Exte 00 acres of co	nsive dam	age was ca	sused to	and pro surrou	oduced nding s	widesp soybean	read tree damage in Watertown and corn fields. Approximately
Deuel County Clear Lake	18	0630CST			0	0	1	5	Hail (1.50)

									Julie 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage ty Crops	Character of Storm
SOUTH DAKOTA	Con	t'd			·				
	-								
	Hail	damaged abou	ıt 12,000	acres of c	rops.				
Grant County 1 S Milbank Revillo	18 18	0630CST 0745CST			0	0	3 4	3 2	Hail (1.00) Thunderstorm Winds (G55)
	A th	understorm up ars and an apa	prooted tre	es and do mplex was	wned p dama	power 1 ged.	ines pr	imarily	in the Revillo area. Trees fell
Eastern South Dakota	19 20	1500CST- 0800CST	?	?	?	?	?	?	Flood Tornado Funnel Cloud Hail
	half	of the state. '	The harde	st hit area	was V	Vatertov	vn whe	re 4.00	nunderstorms across the eastern to 6.00 inches of rain brought louds, and hail.
McCook County Spencer	19	1500CST			0	0	0	0	Hail (1.00)
Brown County 3 N Verdon	19	1510CST			0	0	0	0	Hail (0.75)
Day County 6 SW Bristol Holmquist 5 E Bristol	19 19 19	1520CST 1524CST 1527CST			0 0 0	0 0 0	0 0 0	3 3 4	Hail (0.75) Hail (0.75) Hail (1.75)
	Hail	damaged crop	s and cov	ered roads	in so	me area	s.		
Clark County Fordham 9 SW Clark 13 SW Clark	19 19 19	1540CST 1550CST 1600CST			0 0	0 0 0	4 0 3	5 4 4	Hail (1.75) Hail (1.00) Hail (2.75)
	Large dama exter	iged barns. A	ver 200 h pproximat	touse wind tely 6.00 i	lows, I nches o	killed a of hail a	pproxii ccumu	nately ? lated in	200 chickens, dented cars, and some areas. Crop damage was
Codington County Watertown 10 NW Watertown	19 19	1605CST 1605CST	0.3	25	0	0	4 0	4 2	Thunderstorm Winds (G55) Tornado (F0)
	and s 10 n Betw	mall hail caus liles northwes een 3.00 to 4	ed crop da t of Wate .00 inches	umage and ertown. I of rain fe	broke Rain co ell ove	windov ontinue r Water	vs. At d in th town w	ornado e Wate hich w	tensive damage to trees. Rain touched down briefly in a field rtown area through the night. as already saturated from rains a, including Interstate 29, were
Kingsbury County Lake Preston	19	1645CST			0	0	4	1	Hail (1.75)
	Hail	broke house v	windows a turned and	ınd damag d a tree fel	ed roo	fs while	e thunc	lerstorn	n winds overturned corn cribs. Preston. Some trees were split.
McCook County Spencer Salem	19 19	1500CST 1630CST			0	0	2 2	4 0	Hail (1.00) Lightning

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage	Character of Storm
			<u> </u>					<u> </u>	
SOUTH DAKOTA	Con	t'd							
Salem Canistota Montrose	19 19 19	1700CST 1715CST 1810CST			0 0 0	0 0 0	5 5 2	4 5 4	Flood Hail (1.75) Hail (0.75)
	Saler stree Hail struc	n was the hard ts were compl caused exten- tural damage	lest hit by etely und sive dam to houses	flooding verwater. age in Ca Estima	when now A Saler A S	umerou n girl w breakii \$250,00	s basem vas inju ng hun o dama	nents we dred who dreds o age wer	er portions of McCook County. For filled by flood waters. Most en she was struck by lightning. If house windows and causing re reported. Crop damage was completely destroyed.
Minnehaha County Humboldt Humboldt Miner County	19 19	1804CST 1850CST			0	0	2 2	3	Hail (1.75) Hail (0.75)
Miner County 1 S Howard	19	1805CST			0	0	0	3	Hail (0.75)
Marshall County Lake City Eden 2 N Britton	19 19 19	2355CST 2357CST 2357CST			0 0 0	0 0 0	0 0 1	2 3 4	Hail (0.75) Thunderstorm Winds (G68) Hail (0.75)
	Hail	and wind dan	naged ove	r 100 acre	s of cr	ops.			
Northeastern South Dakota	20 22	0000CST- 0000CST			0	0	5	5	Flood
	Dake rain surre roads	ota. The wors fell in June. 'ounded by wat	t flooding The Sioux ter. Pasto sed. Floor	g again oce K River over 1 res becan 1 od waters	curred : verflow- ne floo- also s	in Wate ed its ba ded, and wept ac	rtown v anks in d sever ross are	where b Watert al head eas east	ly-saturated northeastern South etween 9.00 to 12.00 inches of own, and many houses became of livestock were lost. Many of Verblen. Highway 25 was so flooded.
Roberts County Claire City 4 N Victor	20 20	0035CST 0045CST			0	0	2 3	3	Thunderstorm Winds (G58) Hail (1.75)
	Betw	een 2.00 to 3.	00 inches	of rain fe	ell over	Robert	s Coun	ty causi	ng extensive lowland flooding.
Lake County Madison	20	0612CST			0	0	3	3	Thunderstorm Winds (G65)
		iderstorm wind lamaged.	ds downed	l several l	arge tre	es and l	limbs.	A few l	ousiness signs were also twisted
Minnehaha County Hartford	20	1725CST			0	0	3	0	Hail (1.75)
Edmunds County 5 N Bowdle	20	1740CST	0.8	50	0	0	0	1	Tomado (F0)
		rnado touched							or structures and caused little
Spink County 13 SE Doland 15 S Doland	20 20	1815CST 1820CST	0.5	50	0	0	3 4	0	Lightning Tornado (F0)
	A to	rnado blew ap	art a large	e machine	shed,	and ligh	tning o	racked	the foundation of a new home.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dan	nated nage y Crops	Character of Storm
SOUTH DAKOTA	Con	t'd							
Beadle County 18 SE Huron Codington County	20	1830CST			0	0	0	0	Hail (0.75)
2 S Rauville 3 N Watertown Watertown	20 20 20	1917CST 1930CST 1930CST			0 0 0	0 0 0	0 0 2	0 0 0	Thunderstorm Winds (G51) Hail (0.75) Thunderstorm Winds (G55)
1 NE Kranzburg	20	1947CST			0	0	3	0	Thunderstorm Winds (G60)
	Thur dama	nderstorms not age. A wind p	t only cau	ised flood Kranzburg	ing, bu	it winds tin from	s from n a barı	storms n roof.	again produced tree and limb
Minnehaha County	22	0300CST	•		0	0	3	0	Lightning
	Ligh	tning damaged	d a radio t	ransmitter	· puttin	g the st	ation of	ff the a	ir.
Pennington County					1	6			
12 W Rapid City Hisega Corson County	23 23	1426CST 1510CST			0	0	2 2	0	Hail (1.50) Hail (1.50)
Keldron	24	0703CST			0	0	0	1	Hail (0.75)
Thunderhawk 5 S McIntosh	24 24	0707CST 0807CST			0	0	0	1 3	Hail (0.75) Hail (1.75)
Meade County Faith	25	1940CST			0	0	0	3	Hail (1.75)
Dewey County Isabel	25	2107CST			0	0	3	4	Hail (1.75)
	Appı		house wi	ndows we	ere brol	ken by	hail.		siding and crops were heavily
Timber Lake	. 25	2128CST	•		0	0	1	1	Thunderstorm Winds (G59)
Tripp County 10 S Colome	26	0010CST			0	0	0	0	Thunderstorm Winds (G75)
	The the n	gusty winds in niddle of the n	the area night due	produced to a "heat	no dan flash."	iage, bu	it the su	ırface t	emperature warmed to 98°F in
Butte County Belle Fourche	26	2020CST			0	0	2	0	Thunderstorm Winds (G55)
	Thur	derstorm wind	ds produce	ed tree da	mage.				
Grant County Milbank	26	2330CST			0	0	3	0	Thunderstorm Winds (G54)
	Thun	derstorm wind	ds toppled	seven tre	es with	one fa	lling on	a car.	,
Potter County									
Gettysburg 4 SW Gettysburg	28 28	0430CST 0525CST			0	0	3	2 2	Thunderstorm Winds (G62) Thunderstorm Winds (G52)
	Thun	derstorm wind	ds toppled	trees, da	naged	power l	ines, ar	nd over	turned a swing set.
Edmunds County					- '				-
12 W Warner Brown County	28	0620CST			0	0	0	0	Thunderstorm Winds (G52)
6 W Warner Aberdeen 2 W Aberdeen	28 28 28	0625CST 0645CST 0651CST			0 0 0	0 0 0	2 2 4	0 0 1	Thunderstorm Winds (G54) Thunderstorm Winds (G55) Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons i Injured	D	timated amage rty Crops	Character of Storm
SOUTH DAKOTA	Con	t'd							
Columbia	28	0715CST			0	0	0	0	Thunderstorm Winds (G55)
	Thu	nderstorm wir	nds downe	d large tre	ee limb	s. Min	or floo	oding als	o occurred in Aberdeen.
Marshall County Roy Lake	28	0745CST			0	0	5	0	Thunderstorm Winds (G55)
		veen 50 to 70. Three boats						ds. Tree	es blocked an access road to the
Hughes County Pierre	30	0032CST			0	0	0	0	Thunderstorm Winds (G52)
Clark County Clark	30	0715CST			0	0	3	0	Lightning
	Ligh devi		ed several	houses	and de	stroyed	teleph	ones, te	elevisions, and other electrical
Gregory County Herrick 10 S Burke	30 30	1530CST 1515CST			0	0	1 4	0	Hail (1.00) Hail (2.75) Thunderstorm Winds (G80)
	tin r	broke windo coofs from bar ds of corn and	rns and de	molished	a tin s	hed. A	1,500	-bushel	nnas from houses. Winds blew grain bin was also blown over. il.
Edmunds County		4 5 0 5 0 0 TD			•	•		_	m 1
5 W Ipswich Brown County	30	1535CST			0	0	. 1	2	Thunderstorm Winds (G52)
Aberdeen	30	1625CST			0	0	2	0	Thunderstorm Winds (G50)
	Thu	nderstorm wir	nds damag	ed several	trees.		•		
Spink County Mellette 6 E Mansfield 6 NW Doland 11 W Turton 5 W Conde	30 30 30 30 30	1613CST 1627CST 1647CST 1650CST 1652CST	0.1 0.1 0.1	10 10 10	0 0 0 0	0 0 0 0	2 2 0 0	0 0 1 1	Hail (0.75) Hail (0.75) Tornado (F0) Tornado (F0) Tornado (F0)
Conde	30	1725CST			0	0	3	1	Hail (0.88)
	Ton	nadoes that br	iefly toucl	ned down	in ope	n pastur	es cau	sed little	damage.
Day County 3 NE Crandall Brookings County	30	1700CST			0	0	0	0	Hail (0.75)
Brookings County	30	1910CST			0	0	4	0	Thunderstorm Winds (G52)
	Thu	nderstorm wir	nds downe	d power l	ines ar	nd large	tree li	mbs.	
Brown County Aberdeen	30	2015CST			0	0	3	0	Thunderstorm Winds (G55)
	Thu	nderstorm wir	nds snappe	ed 1-foot-c	diamete	er trees s	several	l feet fro	m the ground.
Marshall, Brown, and Roberts Counties	30	1600CST- 2200CST			0	0	4	4	Flood

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	Da	mated mage ty Crops	Character of Storm
SOUTH DAKOTA	Con	t'd							
	out	nderstorms dro many county rdeen.	opped over roads and	r 2.00 incl d flooded	hes of 1 all lo	rain over w-lying	northe	eastern S Seve	South Dakota. The rain washed ral streets were impassable in
TENNESSEE									
Maury County Mt. Pleasant	01	1700CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees and	power line	es were kr	ocked	down.			
Bradley County Cleveland	03	1500CST			0	0	2	0	Thunderstorm Winds
	Som	e trees were k	mocked do	own and p	roduce	d some	damag	e to a h	ouse.
Benton County	04	1300CST			0	0	4 .	0	Thunderstorm Winds
	Seve	ral windows v	were smasl	hed at a ca	ır deale	rship, a	nd tree	s and po	ower lines were knocked down.
Montgomery County Ringgold	04	1320CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	blown do	wn in Rii	nggold.				
McMinn County Riceville	04	1420CST			0	0	2	0	Thunderstorm Winds
	Seve	ral trees were	blown do	wn by th	underst	orm wir	ıds.		
Bradley County Charleston	04	1443CST			0	0	3	0	Thunderstorm Winds
	Num	erous trees ar	nd power l	ines were	downe	ed by th	unders	torm wi	nds.
Clay County Near Celina	04	1700CST			0	0	4	0	Lightning
	Ligh	tning rupture	d an oil ta	nk causing	g an oi	l slick.			
Houston County Western Portion	12	0940CST			0	0	4	0	Flash Flood
	Two	homes were	under wate	er due to	heavy 1	rainfall.			
Humphreys County	12	0945CST			0	0	2	0	Flash Flood
	Num	erous roads v	vere under	water in	Humpl	reys Co	ounty.		
Henry County Paris	12	1215CST			0	0	2	0	Flash Flood
	Som	e flooding res	ulted when	n 5.50 inc	hes of	rain fel	l in a 3	3-hour p	period.
Benton County Big Sandy Faxon	12	1400CST			0	0	5	0	Flash Flood

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage ty Crops	Character of Storm	
TENNESSEE Con	t'd									
Camden	hom	inches of rain les were dama to the flood v	ged. Subs	2-hour pe stantial dan	riod. I mage w	our bri as done	dges w to a pe	ere was arl farn	shed out, and between 15 to 20 after an earthen dam gave way	
Shelby County Memphis	12	1800CST			0	0	2	0	Flash Flood	
	Urb	an street flood	ling occur	red in the	midtov	vn secti	on of N	Memphi	s.	
Bradley County Cleveland	12	1900CST			0	o ,	2	0	Flash Flood	
	Urb	an street flood	ling occur	red due to	heavy	rainfall			•	
Hamilton County	12	1950CST			0	0	2	0	Flash Flood	
	Stre	et flooding ca	used some	e cars to s	tall.					
Tipton County	13	1430CST			0	0	2	0	Flash Flood	
	Som	ne street flood	ing occurr	red and sta	alled a	few cars	j.			
Dyer County Millsfield Roses County	15	1950CST	0.2	10	0	0	3	0	Tornado (F0)	
Roane County Rockwood and	16	0500CST			0	0	2	0	Thunderstorm Winds	
Kingston	Several trees and power lines were knocked down.									
Bradley County Cleveland	16	1200CST			1	0	0	0	Lightning	
		man was ki 21M)	lled when	he was s	struck l	y light	ning w	hile he	was under his mobile home.	
Anderson County Clinton Oak Ridge	16	1500CST			0	0	2	0	Thunderstorm Winds	
Our Mago	Seve	eral trees and	power lin	es were kı	nocked	down.				
Marion County Haletown	16	1815CST			0	0	4	0	Lightning	
	Two	apartments v	vere burne	ed by a fir	e that v	vas stari	ted by	lightnin	g.	
Carter County Elizabethton	19	1700CST			0	0	2	0	Flash Flood	
	Stre	et flooding w	as reporte	d in Elizal	bethton	•				
Madison County Northern Portion	20	1845CST	,		0	0	2	0	Flash Flood	
	Son	ne localized fl	ooding oc	curred bet	ween Ja	ackson a	and Hu	mbolt.		
Henry County Henry	20	2130CST			0	1	3	0	Thunderstorm Winds	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	D	imated amage rty Crops	Character of Storm	
TENNESSEE Conf	t'd									
	Thre	e trees fell on	a car cau	sing injur	y to o	ne perso	n.			
Davidson County Nashville	21	0500CST			0	0	4	0	Thunderstorm Winds	
	Thunderstorm winds resulted in damage to the baseball stadium at Vanderbilt University. Approximately 50 trees were blown down.									
Benton County Holladay	21	1330CST			0	. 0	0	2	Hail	
	A la	rge garden sus	stained hai	l damage	at one	home.				
Bradley County Northwestern Portion	21	1350CST			0	0	0	.0	Hail (1.75)	
Overton County Byrdstown	21	1400CST			0	0	3	0	Lightning	
	Dam	age to a Tenne	essee Vall	ey Author	rity su	bstation	was re	eported.	·	
Franklin County Winchester Decherd	21	1600CST			0	0	3	0	Thunderstorm Winds	
	Seve	ral trees were	uprooted	and a few	street	signs w	ere bl	own dov	vn.	
Fayette County Somerville	21	1700CST	4		0	0	3	0	Thunderstorm Winds	
	Seve	ral trees were	blown do	wn.						
Shelby County Collierville	22 ·	1350CST			0	0	3	0	Lightning	
	Seve	ral trees and p	ower line	s were kno	ocked	down, a	nd the	re was c	lamage to an iron fence.	
Memphis	22	1454CST			0	0	3	0	Thunderstorm Winds	
	Powe One	er was knocked house sustaine	l out in eas d minor d	stern Mem lamage, ar	phis in nd sev	cluding eral tree	the Na s were	tional W uproote	eather Service Forecast Office.	
TEXAS, Northern								٠		
Knox County										
Truscott Foard County	01	1658CST			0	0	?	?	Hail (0.75)	
Crowell	01	1710CST			0	0	?	?	Thunderstorm Winds (G52) Hail (0.75)	
1 W Crowell	01	1710CST			0	0	?	?	Hail (0.75)	
Foard City 1 SW Thalia	01 01	1710CST 1712CST			0	0 0	?	?	Hail (0.75) Hail (1.00)	
Hardeman County Medicine Mound Hood County	01	1726CST			0	0	?	?	Hail (1.00)	
3 N Granbury	02	0840CST			0	0	?	?	Funnel Cloud	
2 W Granbury	02	0928CST- 0929CST	Short Na	now	0	0	4	?	Tornado (F1)	

June 1991

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage		
Location	Date		(Miles)	(Yards)					Character of Storm
TEXAS, Northern	Cont	'd							
	A to	mado touchad	l down be	iafly at the	Granh	nev Aien	ort (?	milec we	st of Granbury) causing damage
	to a	boat dock un	der const	ruction, an	id a co	nstructio	n trai	ler.	st of Oranioury) causing damage
Parker County 4 SW Weatherford	02	0945CST			0	0	?	?	Funnel Cloud
8 SW Weatherford	02	0950CST-	a 1 . 3	_	_	-	-		
4 NW Weatherford	02	0951CST 1018CST-	Short N	Warrow	0	0	?	?	Tornado (F0)
3 SW Weatherford	02	1019CST 1025CST-	Short 1	Varrow	0	0	?	?	Tornado (F0)
J DW WOLLKATOR	UL.	1026CST	Short N	Varrow	0	0	?	?	Tornado (F0)
	A to	ornado touche hwest of Wea	ed down therford,	briefly in and 3 mile	open es sout	country hwest of	8 mi Weat	les south herford r	west of Weatherford, 4 miles lear Farm-to-Market Road 406.
Wise County	~	1120000							•
12 S Bridgeport	02	1120CST- 1121CST	Short N	Varrow	0	0	?	?	Tornado (F0)
	A to	rnado touche	d down b	riefly in o	pen co	untry.			
Taylor County		4000000			•	•	•	0	TT 11 (4 MP)
10 SW Abilene Cooke County	02	1300CST			0	0	?	?	Hail (1.75)
Gainesville	02	1610CST			0	0	3	?	Thunderstorm Winds
	Stro	ng winds blev	w down s	everal larg	e tree	limbs.			
Parker County	~	1/57/007			•	^	n	9	The 1- 1- 1074
4 SE Tin Top Weatherford	02 02	1657CST 1705CST	•	•	0	0	?	?	Thunderstorm Winds (G74) Hail (0.75)
Horseshoe Bend	02	1710CST	.		Ŏ	ŏ	?	?	Thunderstorm Winds (G52)
Eastland County Cisco	02	1705CST			0	0	?	?	Hail (0.75)
Hood County Granbury	02	1710CST			0	0	?	?	Thunderstorm Winds (G52)
2 E Granbury	02	1718CST			0	0	?	?	Thunderstorm Winds (G57)
Cresson	02 02	1805CST			0	0	?	?	Hail (0.88)
Granbury	UZ	1805CST- 2100CST			0	0	?	?	Flash Flood
		ng winds of 6 luced flash flo							east of Granbury). Heavy rains
Coleman County Valera	02	1717CST			0	0	?	?	Hail (1.75)
Grayson County 9 SE Sherman	02	1730CST			0	0	3	?	Thunderstorm Winds
		ng winds blev	w down s	everal tree	s.				
Comanche County		1000			•		•		me t , err -
Del.eon Countywide	02 02	1900CST 1930CST-	•		0	0	3	?	Thunderstorm Winds
July Will	~=	2230CST			0	0	?	?	Flash Flood

Strong winds blew down large tree limbs. Heavy rains resulted in the flash flooding of several creeks, roadways, and low-lying areas throughout Comanche County.

0

?

?

Flash Flood

0

2230CST

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Dat	nated nage y Crops	Character of Storm
TEXAS, Northern	Cont	'd							
Brown County Brownwood	02	1913CST			0	0.	? .	?	Hail (1.75)
Johnson County Godley	02	1950CST- 2300CST		,	0	0	?	? .	Flash Flood
	Seve	ral roads were	closed in	Godley d	lue to f	lash flo	oding.		
Stephens County Breckenridge Bell and Coryell	02 03	2258CST 1345CST-			0	0	?	? . :	Hail (0.75)
Counties	0.5	1800CST			0	0	?	?	Flash Flood
	Heavy rains of 3.00 inches in a 90-minute period produced flash flooding of several roadway Bell and Coryell Counties. High water was observed up to 3 feet deep in a radio station build in Copperas Cove.								
Cooke County Gainesville	05	1330CST			0	0	3	?	Thunderstorm Winds
	A do	wnburst blew	down sev	eral powe	r lines,	large t	ree lim	bs, and	damaged outdoor metal sheds.
Lamar County 1 W Arthur City	05	1330CST			0	0	3	?	Thunderstorm Winds
	A do	wnburst blew	down a fe	ew trees.					
Collin County Melissa Allen	05 05	1415CST 1430CST		•	0	0	3 ?	?	Thunderstorm Winds (G61) Lightning
		ng winds measu struction site i			w down	ı severa	l trees.	Light	ning struck and killed a man at
Bowie County Beaversdam	05	1422CST			0	0	? · ·	?	Hail (0.88)
Hunt County Greenville Caddo Mills Cash	05 05 05	1441CST 1500CST 1500CST			0	0 0 0	? 3 3	?	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds
·			down sev	eral trees	•	-	_	-	do Mills and Cash.
Dallas County		6		;	Po			,	
Dallas Dallas Wise County	05 05	1450CST 1506CST			0	0	?	?	Thunderstorm Winds (G50) Hail (0.75)
Bridgeport Decatur Paradise	05 05 05	1537CST 1555CST 1555CST			0 0 0	0 0 0	3 ? ?	???	Thunderstorm Winds Hail (1.00) Hail (1.00)
Boyd Newark	05 05	1615CST 1630CST			0	0	6 4	? ?	Thunderstorm Winds Thunderstorm Winds (G66)

A downburst downed power lines and trees in Bridgeport. Strong winds destroyed a large manufacturing plant and 3 mobile homes, produced major damage to 15 mobile homes and 10 buildings, moved several mobile homes off their foundations, blew down power lines, street signs, and over 100 trees at Boyd. Strong winds measured at 76 mph damaged several buildings and blew down trees at Newark.

Number of

Estimated

Path

Time

Path

		Time Local/	Path Length	Path Width	_	mber of rsons	_	mated mage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Crops	Character of Storm
TEXAS, Northern	n Cont	'd							
Stephens County Breckenridge	05	1545CST-			0	•	0	, O	7011. 7011
	Неат	1700CST	ted in the	flash floo	0 ding of	0 F several	?	? avs and	Flash Flood low-lying areas.
Toront County	1104	, , , , , , , , , , , , , , , , , , , ,		naon noo	ome or		1000	.,	10 // 17 mg aroust
Tarrant County. Azle	05	1645CST	•	*	0	0	3	?	Thunderstorm Winds
	Stro	ng winds ble	w down se	everal tree	s.				* .
Foard County Crowell Haskell County	05	2045CST			Ó	0	?	?	Thunderstorm Winds (G50)
Haskell Wise County	05	2110CST			0	0	?	?	Thunderstorm Winds (G70)
Northern Portion	08	1655CST- 1930CST			0	0	?	?	Flash Flood
	Heav Road	vy rains resul ds 2265 and	ted in the 1655 locat	flash floo ed near A	ding of lford.	State H	ighway	287 ne	ar Alford, and Farm-to-Market
Upshur County	11,	0030CST- 0800CST			0	0	5	?	Flash Flood
	hom U.S.	es and streets Highway 2: s between Gi	in Diana 9 betwee	near the l n Longvie	Little C w and	ypress Diana,	Creek. State H	High v Iighway	in the flash flooding of several water resulted in the closing of 154, and four farm-to-market vashed out by water up to 3 feet
Cass and Gregg Cour	nties								
Northwestern Portions	. 11	0150CST- 0630CST			0	0	6	?	Flash Flood
Marion County Western Portion	in th the Mar	e flash floodi roadway. Te	ng of U.S en other r	. Highway oads were	259 no	orth of L in part	ongvie s of G	w wher regg, n	ur period. High water resulted e 8.00 inches of water was over orthwestern Cass, and western gview where three persons were
Foard County Crowell	12	1825CST			0	0	?	?	Thunderstorm Winds (G53)
Hardeman County Chillicothe	12	1900CST			0	0	3	?	Thunderstorm Winds (G52)
	Seve	eral trees wer	e blown d	own by st	rong 60)-mph w	inds.		
Wilbarger County 3 S Vernon	12	1910CST			0	0	5	?	Thunderstorm Winds (G52) Hail (0.75)
Oklaunion 1 S Vernon	12 12	1950CST 2105CST			0 0	0	?	?	Hail (0.75) Hail (0.75) Hail (0.75)
Countywide	12 13	2200CST- 0600CST			0	0	?	?	Flood
	Stro build	ng winds me dings 3 miles	asured at south of	60 mph Vernon.	blew d Heavy	own sev	veral tr f over :	ees and 3.50 ind	l damaged the roof of several ches resulted in Paradise Creek

		Time Local/	Path Length	Path Width	Number of Persons		D٤	imated image	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Proper	ty Crops	Character of Storm
TEXAS, Northern	flood	ling U.S. High	hway 283	south of V	ernon i	near the	Santa	Rosa ro	deo grounds while several farm-
	to-m	arket roads w	ere covere	ed by high	water.	ı			
Coleman County Coleman Taylor County	13	1815CST			0	0	?	?	Hail (0.75)
1 NE Abilene	14	2245CST			0	0	?	?	Hail (1.75)
Stephens County Caddo	14	0010CST			0	0	?	?	Thunderstorm Winds (G50)
Eastland County Cisco	14	0015CST			0	0	?	?	Thunderstorm Winds (G52)
Young County Graham	15	0030CST			0	0	?	?	Hail (1.00)
Palo Pinto and Parker Counties	16	1315CST- 1530CST			0	0	?	?	Flash Flood
	Heav	v rains produ	ced flash	flooding o	of sever	al roady	vavs ir	ı both P	alo Pinto and Parker Counties.
Dal Dist Class		, ,					,	9	
Palo Pinto County Mineral Wells 1 S Mineral Wells	16 16	1315CST 1436CST			0	0	?	?	Hail (1.75) Hail (0.75)
Erath County Hannibal	16	1400CST			0	0	?	?	Hail (1.75)
Northern Portion	16	1455CST- 1630CST			0	0	?	?	Flash Flood
Lingleville	16	1625CST			0	0	?	?	Thunderstorm Winds (G52)
	Heav	y rain produc	ed flash f	looding of	f low-ly	ing are	as nor	th of Ste	ephenville.
Young County					_	_	_	_	
Graham Throckmorton County	16	1539CST			0	0	?	?	Hail (1.75)
5 S Throckmorton Shackelford County	16	1600CST			0	0	?	?	Hail (0.75)
Albany Jack County	16	1620CST			0	0	?	?	Hail (0.75)
4 S Bryson Eastland County	16 16	1602CST 1615CST-			0	0	?	?	Hail (1.00)
2 S Cisco	16	2300CST 1700CST			0	0	?	?	Flash Flood Thunderstorm Winds
2 5 Cases	Heav inclu obser	y rains produc ding State Hi	ghway 80 eir banks.	. Several	severa homes	l roadwa	looded	w-lying I in the	areas, and low-water crossings Cisco area where creeks were atdoor building and blew down
Coryell County Southern Portion	16	1630CST- 1930CST			0	0	?	?	Flash Flood
,	Heav Cove		0 inches p	roduced fl	ash flo	oding of	f sever	al street	s and residences near Copperas
McCulloch County 3 N Brady Shelby County	16	2115CST			0	0	?	?	Funnel Cloud
Center 1 W Center	18 18	2015CST 2025CST			0	0	3	?	Thunderstorm Winds Thunderstorm Winds

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	Estima Dama Property	ige	Character of Storm
			:					-	
TEXAS, Northern	Cont	'd							
	Stro	ng winds blev	v down se	veral trees	onto p	power li	nes at Ce	enter a	and 1 mile west of Center.
Tarrant County							•		
Watauga	22 22	1820CST			0	0	?	?	Hail (0.88)
N Richland Hills Keller	22	1826CST 1832CST			0	0	ź	? ?	Hail (1.25) Hail (1.00)
Keller	22	1848CST	•		Ŏ	Ö	?	?	Hail (1.50)
Dallas County 1 NW Coppell	22	1831CST			0	0	?	?	Ueil (1 75)
Coppell	22	1837CST			Ö	ŏ	?	?	Hail (1.75) Hail (1.00)
Grayson County					•	_			, ,
Luella Sherman	22 22	1849CST 1857CST			0	0 0	?	? ?	Hail (0.75) Hail (3.00)
Sherman	22 22	1910CST			Ö	ŏ	5	<u>;</u>	Thunderstorm Winds
Northern Portion	22	2020CST-				•			
Couthmovd	22 .	2230CST 2030CST			0	0	?	? ?	Flash Flood
Southmayd	44 .	2030C31			U	U	£	•	Hail (1.75)
	prod	ng winds blev luced flash flo ral locations o	oding of s	several roa	dways	street si in Denn	igns in S ison whe	herma re 3-f	an at 1910 CST. Heavy rains oot-deep water was observed at
Denton County									
4 W Lewisville	22	1856CST			Ŏ	0	?	?	Hail (1.00)
Sanger	22	2156CST			.0	0	?	?	Thunderstorm Winds (G74)
	Stro	ng winds mea	sured at 8	5 mph ble	w dow	n power	r lines.		
Collin Country									
Collin County 5 N Plano	22	1903CST			0	0	?	?	Hail (1.00)
Plano	22	1910CST			ŏ	0	?	?	Hail (1.75)
1 N Plano	22	1913CST	•	•.	0	0	?	?	Hail (0.88)
7 W McKinney Lamar County	22	1920CST			0	0	?	?	Hail (2.00)
Paris	22	2000CST			0	0	?	?	Thunderstorm Winds
	Sten		, doum so	warni trans	in Da	.i.			
•	Suo	ng winds blev	A GOMIT SE	verai trees	шга	15.			
Fannin County		÷			4		•		
8 N Bonham Bonham	22 22	2015CST 2036CST-			0	0	?	?	Hail (0.75)
БОЯЩАНИ	23	0030CST			0	0	?	?	Flash Flood
	Heav Bonl		ted in the	flash flo	oding	of sever	al roadw	/ays,	creeks, and low-lying areas in
Bowie County									
Beaversdam	22	2038CST			Ŏ	0	3	?	Thunderstorm Winds
De Kalb	22	2038CST			0	0	3	?	Thunderstorm Winds
		ng winds blev er lines in De		everal tree	s and	damage	d outdoo	r shee	ds in Beaversdam and downed
Cooke County Mountain Springs	22	2118CST			0	0	?	?	Hail (0.75)
Montague County					J	-			,
Saint Jo	22	2130CST			0	0	3	?	Thunderstorm Winds

Strong winds blew down several street signs and large tree limbs.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured		Estimated Damage perty Crops	Character of Storm
									
TEXAS, Northern	Cont	'd							
Falls County Mooresville	24	1750CST			0	0	?	?	Hail (1.75)
TEXAS, Southern									•
Guadalupe County Seguin	03	1900CST			0	0	3	?	Thunderstorm Winds
•	A la	rge oak tree v	vas blowr	onto the	roof o	f a bowli	ing a	alley.	
Lee County Lexington	03	1930CST			0	0	4	?	Thunderstorm Winds
	The	Lee County S	Sheriff's C	Office repo	rted tr	ees dowr	ned a	across seve	ral state roads near Lexington.
Burleson County Somerville	03	1943CST			0	0	?	?	Thunderstorm Winds
		Burleson Cou in Somervill		ff's Office	report	ed power	r lin	es downed	, and a roof blown off a flower
Val Verde County Del Rio	06	0040CST			0	0	?	?	Thunderstorm Winds (G56)
	Win	d gusts to 64	mph were	recorded	at the	National	We	ather Serv	ice office.
Fort Bend County					<u>.</u> '	_	_		
Katy N W Houston	06 06	1650CST 1715CST	?	?	0	0 0	4 3	?	Tornado (F0) Tornado (F0)
	other	rs when a torr	nado toucl r lines an	hed down i d a few si	n a su gns w	bdivision ere blow	on n do	South Peel wn on the	and the roof was blown off two k Road before lifting back into northwestern side of Houston
Burnet County 1 S Burnet	07	0324CST			0	0	3	?	Thunderstorm Winds
	The	roof was blov	vn off of	a small bu	ilding	, and son	ne ti	rees were t	olown down near Burnet.
Calhoun County Seadrift	07	1025CST			0	0	4	?	Thunderstorm Winds
	A m	obile home w	as flipped	off its for	undatio	on.			-
San Patricio County N Portland	07	1120CST	?	?	0	0	?	?	Tornado (F0)
	The repor	Portland Poli	ce Depar storm.	tment repo	orted a	tornado	nea	ar the Rey	nolds plant. No damage was
Aransas County Key Allegro	08	1745CST			0	0	4	?	Lightning
	Ligh foot	tning caused r hole in the ro	najor dam of and on	age to a ho	ome or	i Key All	egro	. Lightnir	ng struck the roof and left a 10-

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	mber of rsons Injured	D	timated amage rty Crops	Character of Storm
			<u></u>						
TEXAS, Southern	Cont	'd			٠				
Jasper County	10	0215CST- 0800CST	٠		0	0	4	?	Flash Flood
	The stall subs	Jasper County ed in 3 feet of ided about 09	y Sheriff's water. W 000 CST.	Office re ater was	ported also acr	flooding oss Tex	g along as Hig	g Texas l hway 96	Highway 96. Several cars were at Call Junction. The flooding
Travis County Austin	11	1415CST			0	0	3.	?	Thunderstorm Winds
	Seve	eral trees and	power lin	es were re	ported	downed	in so	uthern A	austin.
Guadalupe County 2 SE New Brunfels	14	1644CST			0	0	?	?	Hail (2.75)
,	Golf	ball- to base	ball-size h	ail was re	ported	2 miles	south	east of N	lew Braunfels.
Atascosa County 1 E Leming	14	1710CST			0	0 -	3	?	Thunderstorm Winds
	A fe	w trees were	reported o	lowned ea	st of L	eming.			•
Colorado County Columbus	15	0700CST- 0930CST		•	0	0	4	?	Flash Flood
	High alon	iway 71 was u	ınder wate	r for 2 hoi	urs. Th	e interse	ection	of Highv	Columbus. The underpass on vay 91 and 71 was also flooded, businesses were damaged from
Tyler County 3 E Woodville	16	1535CST			0	0	?	?	Hail (0.75)
Kerr County 2 N Kerrville	16	1910CST	?	?	0	0	?	?	Tornado (F0)
	The torna	Department or ado touched d	f Public S own and	afety Offic went back	ce in Ke into th	errville i ie sky w	reporte vithout	ed a torn doing a	ado 2 miles north of town. The ny damage.
Williamson County Round Rock	16	1915CST			0	0	?	?	Thunderstorm Winds
		w trees were 1 blown over.	reported d	owned in	the tow	n of Ro	und R	ock. Th	e Exit 254 sign on Interstate 35
Jackson County 1 S Edna	16	1940CST- 2132CST	0.1	30	0	0	2	9	Torondo (EO)
2 W Edna	16	2215CST	0.5	100	0	0 2	3 4	? ?	Tornado (F0) Tornado (F0)
	torna soutl trees	ado lifted bacl n of Edna and	k up withe damaged ed, houses	out causin a barn. T sustainec	g any d he third I roof d	lamage. I tornado	A sec toucl	conditor ned down	and, 1 mile south of Edna. The nado also touched down 1 mile 2 miles west of Edna. Several were blown out. Two women
Bee County Beeville	16	2230CST			0	0	4	?	Thunderstorm Winds

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Da	imated mage ty Crops	Character of Storm
TEXAS, Southern	Cont'	d							
	The	Beeville Police	e Departn	nent repor	ted sev	eral tree	es dow	ned.	
Val Verde County 28 NE Del Rio	17	1720CST			0	0	?	?	Hail (0.75)
	Dime	e-size hail was	reported	at Kickap	oo Ca	vern Sta	te Parl	ζ.	·
Jefferson County Port Arthur	18	1500CST			0	0	?	?	Flash Flood
	Seve	ral streets wer	e flooded	in Port A	rthur v	when ov	er 1.00	0 inch o	f rain fell in less than 1 hour.
Galveston County San Leon	18	1900CST			0	0	4	?	Thunderstorm Winds (G69)
	Sever estim	ral trees were lated between	uprooted 60 to 80	, and a fe mph.	w utili	ty poles	were	heavily	damaged. Wind speeds were
Refugio County 2 S Tivoli 10 SW Austwell	20 20	1035CST 1040CST	?	?	0	0	?	?	Tornado (F0) Tornado (F0)
	Refu	sheriff's office gio County. T Salt Creek and	he first to	rnado was	e from report	two ton ted near	nadoes Highw	s that br ay 35 so	iefly touched down in northern outh of Tivoli. The second was
Mason County Mason	22	1530CST			0	0	4	?	Thunderstorm Winds
		Mason County ern side of M						oken, c	ausing power outages. On the
Kimble County 10 N Junction 8 SE Junction	22 22	1725CST 1745CST			0	0	?	?	Hail (0.88) Thunderstorm Winds
	The l	Kimble Count nt building wa	y Sheriff as damage	s Office 1 d southea	reporte st of Ju	d nickel inction.	-size h	ail nort	h of Junction. The roof on a
Kerr County Mountain Home	22	1845CST			0	0	?	?	Hail (0.75)
Comal County 4 N Bulverd	22	1900CST			0	0	3	?	Hail (1.75)
		ball-size hail v broken.	vas report	ed at the i	ntersec	tion of l	Highwa	ays 281	and 46. A few car windshields
Bexar County Helotes Leon Springs	22 22	1930CST 1940CST			0	0	. 5	?	Thunderstorm Winds (G52) Hail (1.75)
Leon Springs	22	1945CST- 2345CST		1	0	0	?	?	Flash Flood

Severe thunderstorms moved across northwestern Bexar County in the early evening hours. Approximately 3.00 inches of rain fell over the Leon Springs area. The Leon Springs Fire Department reported water over Interstate 10. The flooding subsided before midnight. Earlier in the evening, thunderstorm winds caused major roof damage to several homes in the Helotes area.

									1
		Time Local/	Path Langth	Path Width		umber of ersons	_	stimated Damage	
Location	Date		Length (Miles)	(Yards)					Character of Storm
TEXAS, Southern	Cont	.'d							* **
Bee County Pettus	23	1637CST			0	0	3	?	Thunderstorm Winds
	The	Bee County S	Sheriff's C	Office repo	orted t	rees dov	n and	window	s broken by high winds.
Aransas County		·		-					
Aransas Pass	29	0538CST			0	0	3	?	Thunderstorm Winds (G57)
		eral trees were	uprooted	as thunde	erstorn	ns move	d on sl	hore. W	ind speeds were estimated to be
TEXAS, Western									
Moore County Dumas	01	0102CST			0	0	4	0	Thunderstorm Winds
	Dov	vnburst winds	blew the r	oof off tw	o buile	dings and	d cause	ed minor	damage to another building near
	Dun	nas, according	g to the M	oore Cou	nty Sh	eriff's C	office.		
Dallam County Dalhart	01	0105CST			0	0	0	0	Thunderstorm Winds (G54)
		vnburst winds damage was n		o 63 mph	were 1	reported	by the	Contrac	et Weather Observer in Dalhart.
Deaf Smith County									
3 N Hereford Oldham County	01	0200CST			0	0	0	. 0	Hail (0.75)
Vega	01	0255CST			0	0	0	0	Hail (0.75)
	Thu Veg	nderstorms or a, according t	ver the we	estern Pan s office re	handle ports.	produc No dar	ed dir nage r	ne-size h esulted.	nail north of Hereford and near
Potter County						_	_	_	
Amarillo	01	0734CST			0	0	0	0	Hail (1.00)
	A S	KYWARN sp	otter repo	rted quart	er-size	hail in	northe	ern Amai	rillo; no damage was noted.
Hansford County					_	_	_	_	
1 W Spearman	01	0855CST			0	0	2	1	Hail (1.75)
		Hansford Co ificant damag			ce obs	erved go	olf bal	ll-size ha	nil just west of Spearman. No
Briscoe County	.	1010000			_			•	TT 11 (0.00)
10 NW Silverton 12 E Silverton	01 01	1012CST 1121CST			0	0	0	0	Hail (0.88) Hail (0.75)
Quitaque	01	1126CST			0	0	1	0	Hail (1.00)
	Lake	e MacKenzie.	From 1	1121 CST	to 10	131 CS7	ſ, din	ne-size h	hail. Nickel- size hail fell near ail was reported near Caprock quarter-size hail near Quitaque.
Donley County	_		•					•	· · · ·
7 S Jericho Gray County	01	1200CST			0	0	0	0	Hail (0.75)
5 W McLean	01	1240CST			0	0	2	1	Hail (1.75)

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of	Da	mated mage	Character of Storm
Document	Duw	- Cultoura	(Milles).	(14145)	101100	Hijarca	Troper	ту стора	Character of Storing
TEXAS, Western	Cont'e	đ							
Hall County 12 ENE Turkey	01	1305CST			0	0	0	0	Hail (0.75)
	in w McL	estern Donley	County. Fall Count	The Mo ty Sheriff	Lean l s Offic	Fire De	partme	nt repoi	e public reported dime-size hail ted golf ball-size hail west of ail in central Hall County. No
Motley County 10 E Flornot Northfield	01 01	1225CST 1315CST	0.2	30	0	0 0	0	0	Tornado (F0) Hail (0.75)
	torna	do remained	over open	country a	and no	damage	was c	observed	Flomot and Northfield. The l. As the parent thunderstorm amage was noted from the hail.
Childress County 1 SW Childress 5 SW Childress Carey Childress Childress 5 S Childress Childress	01 01 01 01 01 01	1340CST 1400CST 1425CST 1430CST 1450CST 1533CST 1540CST	0.1	20	0 0 0 0 0 0 0	0 0 0 0 0	0 0 1 0 0	0 0 1 0 0 0	Tornado (F0) Hail (0.75) Hail (1.75) Hail (0.75) Hail (1.00) Hail (0.75) Thunderstorm Winds
:	A slo torna from Dow	w-moving sev do just southw the Childress	vest of Ch weather st uprooted 1	ildress. Nation, radi	umero io statio nildress	us repor on KCT: s, accord	Childre ts of di X, and ding to	ss Coun me- to g the Tex	ity. The public reported a small golf ball-size hail were received as Department of Public Safety. partment of Public Safety. No
Cottle County Cee Vee	01	1348CST		•	0	0	0	0	Hail (0.75)
	Dime	-size hail fell	at the Cec	Vee Gin,	in noi	rthweste	m Cott	tle Cour	ity. No damage was observed.
5 N Paducah 8 W Paducah 2 W Paducah Paducah Paducah	01 01 01 01 01	1448CST 1533CST 1552CST 1557CST 1625CST	0.3	30	0 0 0 0	0 0 0 0	0 0 2 1 2	0 0 1 1 2	Tomado (F0) Hail (1.00) Hail (1.75) Hail (1.00) Hail (2.75)
	Depa and r	rtment reporte to damage was	ed a small s observed	tornado n l. The Pa	orth o ducah	f Paduca Fire De	sh. Th partme	e tornac nt also	County. The Paducah Fire do remained over open country reported several occurrences of cant damage resulted from the
King County 10 SE Guthrie Guthrie	01 01	1657CST 1725CST			0	0	2 1	1 1	Hail (1.75) Hail (0.75)
	The l	King County S nail fell in Gu	heriff's O thrie, acco	ording to	rted go the she	lf ball-s riff's of	ize hai fice, b	l in sou ut no si	theastern King County. Dime- gnificant damage resulted.
Cottle County 8 S Paducah	01	1705CST			0	0	3	2	Hail (2.00)

June 1991

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

TEXAS, Western Cont'd

Miles

Hail slightly larger than golf balls was observed by a storm chaser in southern Cottle County. The hail caused minor damage to vehicles on U.S. Highway 83.

King, Dickens, and Cottle Counties								
4 N Guthrie	01	1810CST		0	0	2	1	Hail (1.75)
Finney	01 -	1842CST		Ō	0	. 1	1	Hail (1.00)
Paducah	01	1820CST	•	0	0	0	0	Flash Flood
2 E Dumont	- 01	1902CST		0	0	1	1	Hail (1.75)
1 W Dumont	01	1931CST		. 0	0	1	1	Hail (1.00)
4 E Paducah	01	1938CST		0	0	0	0	Hail (0.88)
Dumont	01	1955CST	•	0	0	0	0	Hail (1.75)
2 E Dumont	01	2005CST		0	0	2	4	Hail (2.00)
6 E East Afton	01	2040CST		0	0	2	1	Hail (1.75)
Paducah	01	2040CST		0	0	0	0	Hail (0.75)
4 S Paducah	01	2050CST		0	0	3	5	Flash Flood
3 NE Finney	01	2053CST		0	0	2	4 .	Flash Flood
8 E East Afton	01	2112CST		0	0	1	1	Hail (0.88)
Paducah	01	2130CST		0	0	2 .	1	Hail (1.75)
3 E Dumont	01	2144CST		0	0	1	1	Hail (1.00)
2 W Dumont	01	2215CST		Q	0	1	Q	Hail (0.75)
Paducah	01 .	2220CST		0	0	0	0	Hail (0.75)

A large complex of train-effect thunderstorms moved across the eastern South Plains. Continuous dime- to hen egg-size hail was observed by the King County Sheriff's Office and the public in northwestern King County and northeastern Dickens County. The storm lasted for over 4 hours, from 1810 CST to 2215 CST. Storm chasers and the Paducah Fire Department reported several instances of dime-size hail in Paducah, and flash flooding near and south of Paducah. The King County Sheriff's Office observed minor flood damage to the Highway 83 bridge northeast of Finney. Over 6.00 inches of rain was reported by the cooperative observer in Paducah. Crops in the area suffered heavy damage from the hail and flooding.

Howard County 2 NE Knott	02	0958CST	0.2	30	0	.0	0	0
--------------------------	----	---------	-----	----	---	----	---	---

A spotter reported a tornado near Highway 87 in northwestern Howard County. The tornado was over open country and no damage resulted.

Tornado (F0)

Runnels County	:		,					
3 SW Winters 2 S Crews	02 02	1608CST 1630CST		0	0	2	1	Hail (1.75) Hail (1.00)
Z D CICWS	U.	1030031		v	v			11an (1.00)

The Winters Police Department observed golf ball-size hail southwest of Winters. The Ballinger Police Department reported quarter-size hail near Crews. No significant damage resulted from either hail event.

02 1949CST 0 0 1 1 Thunderstorm Winds (G52)

The Ballinger Police Department reported downburst winds estimated to 60 mph near Miles. No significant damage was observed.

Nolan County						,
Champion 9 S Sweetwater	2205CST 2228CST	0	0	2 2	1 2	Hail (1.75) Hail (1.75)

A severe thunderstorm over Nolan County produced golf ball-size hail near the Champion community, in western Nolan County. Golf ball-size hail also fell south of Sweetwater. No significant damage was reported.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Dar	nated nage y Crops	Character of Storm
TEXAS, Western (Cont'	d					•		
Andrews County Andrews	03	0301CST			0	0	0	0	Hail (0.75)
	The	Andrews Cour	nty Sherif	f's Office	reporte	d dime-	size hai	il near .	Andrews. No damage resulted.
Reeves County Pecos Pecos	04 04	1916CST 1927CST	-		0	0	0	0	Hail (0.75) Hail (1.00)
10 S Pecos Pecos	04 04	2015CST 2020CST			0	0	2	1	Hail (1.00) Thunderstorm Winds
	Cou	re thundersto	inse Coor	dinator an	to qu d SKY	arter-siz WARN	ze hail spotter	near P s. Do	ecos, according to the Reeves wnburst winds damaged roofs,
Pecos County Coyanosa	05	1439CST			0	0	2	0	Hail (1.75)
	The resul	Pecos County ted.	Sheriff's (Office obs	erved g	olf ball-	-size ha	il near	Coyanosa. Only minor damage
Castro and Swisher Counties 15 W Tulia	05	1455CST-							
13 W Tulia		1515CST	2.0	150	0	0	0	0	Tornado (F1)
	A se torna Since	vere storm alo ado touched do the tornado	ng the Sw wn in east remained	isher/Cast ern Castro over open	ro Count Countr	nty line y, then i y, no d	, produ moved r amage v	ced a to northead was rep	ornado over open country. The st into western Swisher County. orted.
Ward County Wickett	05	1515CST			0	0	2	0	Hail (1.75)
	The	public reporte	d golf bal	l-size hail	in Wic	kett. N	lo signi	ificant (damage resulted.
Wheeler County 1 W Kellerville	05	1520CST			.0	0	1	1	Hail (1.75)
	The dama	Shamrock Pol ige resulted.	lice Depar	rtment rep	oorted	golf bal	ll-size l	nail nea	ar Kellerville. No significant
Randall County 2 W Umbarger 15 S Canyon	05 05	1535CST 1548CST			0	0	0 2	0 .	Hail (0.88) Hail (2.50)
	A SI	XYWARN sported ten	otter obser nis ball-si	ved nicke ze hail in	el-size	hail nea	r Umba	arger.	The Randall County Sheriff's ty. No significant damage was
Winkler County 5 S Kermit	05	1545CST			0	0.	0	0	Thunderstorm Winds (G52)
	A SK obser		tter report	ted downb	urst w	inds to	60 mph	south	of Kermit, but no damage was
Pecos County Fort Stockton 6 W Bakersfield	05 05	1620CST 1644CST			0	0	3	0	Thunderstorm Winds (G52) Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	imber of ersons d Injured	r	stimated Damage erty Crops	Character of Storm
TEXAS, Western	Cont'	d						•	
	and	evere thunders dime-size hail n the hail obs	west of B	Pecos Co akersfield	ounty p . Mine	oroduced or damag	dowr ge fror	iburst win n the win	nds to 60 mph in Fort Stockton d was reported, with no damage
Deaf Smith County 2 N Dawn	05	1700CST			0	0	2	1	Hail (1.75)
	A li	ne of thunder ording to the	storms ov public. N	er the wes	stern F int dar	anhandle nage res	e proculted.	luced gol	f ball-size hail north of Dawn,
Gaines County Seminole	05	1705CST			0	0	4	2	Thunderstorm Winds
		nburst winds eminole.	downed	ower line	s, upr	ooted the	ree tre	es, and d	lamaged buildings in and north
Swisher County 6 SE Tulia Castro County	05	1717CST	0.1	20	0	0	0	0	Tomado (F0)
Hart Swisher County	05	1730CST			0	0	0	2	Thunderstorm Winds
Tulia Tulia	05 05	1747CST 1747CST			0	0 0	4 0	0	Hail (1.75) Flash Flood
	Sher acco	riff's Office o	bserved a WARN s	tornado s potters.	outhea The Tu	st of Tu Ilia Polic	lia. I ce rep	Downbur orted gol	Counties. The Swisher County st wind uprooted trees in Hart, f ball-size hail and flooding in
Lamb County 10 W Earth	05	1656CST			0	0	1	1	Hail (1.75)
2 W Earth Yoakum County	05	1735CST			0	0	2	1	Hail (1.75)
Plains Cochran County	05	1725CST			0	0	2	1	Thunderstorm Winds (G52)
Morton Terry County	05	1731CST			0	0	3	2	Thunderstorm Winds
Brownfield Brownfield	05 05	1737CST 1741CST			0	0	3 3	2 1	Thunderstorm Winds Thunderstorm Winds
Hockley County Ropesville	05	1747CST			0	0	3	Ź	Thunderstorm Winds
•	prod	ne of severe the luced a series es. Golf ball	of down	bursts wh	ich do	wned po	wer i	lines and	stern New Mexico. The storms caused minor roof damage to nage.
Lubbock County Reese Air Force Base	05	1753CST	٠		0	0	2	1	Thunderstorm Winds (G60)
Lynn County New Home	05	1755CST			0	0	3	1	Thunderstorm Winds (G60)
	As t Rees note	se Air Force I	wnburst-p Base and at	roducing New Hor	storms ne in n	moved orthern	east, Lynn	wind gus County.	sts to 70 mph were reported at Minor damage to buildings was
Glasscock County 7 E Garden City	05	1755CST	0.1	20	0	0	0	0	Tornado (F0)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of ersons d Injured	D	imated image rty Crops	Character of Storm
				_ (====)				<u> </u>	
TEXAS, Western	Cont'e	1							
		public report ly and caused			in eas	stern Gla	sscock	County	7. The tornado touched down
Hutchinson County 1 W Stinnett	05	1803CST			0	0	2	. 2	Hail (2.50)
•	A tel		rologist re	eported ter	nnis ba	ll-size ha	il just	west of	Stinnett with significant damage
Castro County Dimmitt Hart	05 05	1805CST 1828CST			0	0	2 2	0	Flash Flood Flash Flood
		y rainfall ov ficant damage			oroduc	ed flood	ing in	the citi	es of Dimmitt and Hart. No
Lamb County Olton Crosby County	05	1808CST	0.2	30	0	0	0	. 0 ,	Tomado (F0)
Ralls	05	1826CST			0	0	4	1	Thunderstorm Winds
Abernathy 3 W Hale Center	05 05	1830CST 1833CST	0.3	20	0 0	0	4	10	Thunderstorm Winds (G60) Tornado (F0)
Garza County Post Post	05 05	1830CST 1850CST	:		0	0	3	1 0	Thunderstorm Winds (G60) Hail (0.75)
	Polic torna wind down	e Department does were over s to 70 mph	and west er open co were rec	of Hale Country and ceived from	enter b I no da om SK	y the Ha mage wa YWARN	le Cou as obse V spot	nty Eme crved. N ters and	rted near Olton by the Dimmitt rgency Operations Center. The Numerous reports of downburst county sheriff offices. The nd caused roof damage in Ralls
Hutchinson County Stinnett	05	1830CST			0	0	2	1	Hail (1.75)
	A SK	YWARN spo	otter repor	ted golf b	all-siz	e hail in	Stinne	ett. No	significant damage resulted.
Moore County Sunray Sherman County	05	1830CST			. 0	0	0	0	Hail (1.00)
5 W Stratford	05	1845CST			0	0	1	1	Hail (1.75)
	Offic	Sunray Fire D e observed go event.	epartment olf ball-siz	reported e hail wes	quarter st of SI	r-size hai ratford.	l near No si	Sunray. gnifican	The Sherman County Sheriff's t damage was noted with either
Swisher County Tulia 3 W Kress	05 05	1900CST 1930CST			0	0	2 3	1 0	Hail (1.75) Thunderstorm Winds
	The Down	nburst winds	epartment damaged	reported a mobile	golf ba home	all-size h in Kress	ail in T s, acco	Tulia with rding to	h only minor damage resulting. the Swisher County Sheriff's
Hale County Happy Union	-05	1905CST			0	0 .	3	0	Thunderstorm Winds

									June 1991
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons Injured	Dar	mated mage y Crops	Character of Storm
,									
TEXAS, Western	Cont'	d							
3 E Happy Union Floyd County	05	1927CST			0	0	2	0	Thunderstorm Winds
Lockney	05	1925CST			0	Q	2	2	Thunderstorm Winds (G52)
Barwise Floydada	05 05	1928CST 1934CST	0.2	30 .	0	0	0 3	0 1	Tornado (F0) Thunderstorm Winds
Dickens County Dickens	05	1940CST			0	0	2	1	Thunderstorm Wind (G52)
	near Cent sheri	the Barwise of er reported m	community inor dama Floyd an	y in weste ige from d	rn Floy ownbu	yd Coun rst wind	ity. Th	e Hale	public reported a brief tornado County Emergency Operations in and near Happy Union. The s to 60 mph. Power lines were
Scurry County Fluvanna	05	1915CST	0.4	30	0	0	0	0	Tornado (F0)
	A SK	YWARN spo	tter obser	ved a smal	l torna	do near i	Fluvanı	na. The	tornado was over open country
		no damage re							volumes was over open comming
Lamb County Olton	05	1919CST			0	0	0	0	Flash Flood
	Heav	v rains from	the South	Plains sto	rms nr	oduced :	minor f	loodine	in Olton; no damage resulted.
V: Canada	1104	, , , , , , , , , , , , , , , , , , , ,		I WILL OF	11120 P1				, in olion, no aming receive.
King County 4 N Guthrie Motley County	05	1955CST			0	0	2	2	Thunderstorm Winds (G56)
Roaring Springs	05	2006CST		•	0	0	2	1	Thunderstorm Winds (G52)
Cottle County Paducah	05	2012CST		٠.	0	0	3	1	Thunderstorm Winds
	to 65 Office	5 mph were r	eported b	y the publ	lic nea	r Roarin	ig Sprii	igs and	South Plains, wind gusts of 60 by the King County Sheriff's cower lines were downed by the
Carson County 6 W White Deer	05	2019CST			0	0	0	0	Hail (1.00)
	The resul		ty Sheriff	's Office	observ	ed quart	er-size	hail w	est of White Deer; no damage
Nolan County									
3 SW Roscoe	05	2030CST	0.6	40	0	0	0	0	Tornado (F0)
		Nolan County open country					south	west of	Roscoe. The tornado remained
Wheeler County									
Shamrock	05	2032CST- 2200CST			0	0	4	0	Flash Flood
	Depa	roximately 5.0 artment reportes in the city.	00 inches ted floodi	of rain fe ng in Sha	ll in S mrock	hamrock The f	during floodwa	g the e iters ca	vening. The Shamrock Police used minor damage to several
Reeves County 2 N Saragosa	06	1458CST	0.2	30	0	0	0	0	Tomado (F0)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Estimated Damage Property Cro	ops Character of Storm
TEXAS, Western O	Cont'o	d						
er mi	A Sk coun	YWARN spo try and no da	tter report	ted a smal noted.	l tornad	o north	of Saragosa	. The brief tornado was over open
Pecos County 6 NE Fort Stockton	06	1502CST	0.1	30	0	0	0 0	Tornado (F0)
		public observenoted.	ed a small	tornado i	northea	st of Fo	rt Stockton	on Imperial Highway; no damage
Ector County 10 WNW Goldsmith	06	1544CST	•		0	0	2 0	Hail (1.00)
**	The	public reporte	d quarter	size hail	in nortl	western	Ector Cou	nty; no damage was observed.
Ward County Pyote	06	1610CST		¥	0	0	2 0	Hail (1.75)
•	The resul	Ward County ted.	Sheriff's	Office rep	orted g	olf ball-	size hail in	Pyote with no significant damage
Andrews County Andrews	06	1630CST			0	0	0 0	Hail (0.75)
	The	public reporte	d dime-si	ze hail in	Andrev	vs; nó d	amage resu	Ited.
Dawson County 8 SW Lamesa	06	1725CST	0.3	30	0	0	0 0	Tornado (F0)
	The was	Dawson Coun	ty Sheriff intry and	's Office in	reported e was n	l a smal oted.	l tornado so	outhwest of Lamesa. The tornado
Hockley County 8 N Smyer	06	1855CST			.0	0	0 0	Thunderstorm Winds (G52)
Lubbock County Shallwater Lubbock 2 E Lubbock	06 06 06	1902CST 1922CST 2013CST			0	0 0 0	3 1 2 0 3 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Dow	nburst winds ter lines were	to 60 mph downed i	were repo n Shallow	rted by vater ar	SKYW.	ARN spotte	rs north of Smyer and in Lubbock. railer was overturned just east of
Hutchinson County Pringle Stinnett	06 06	1935CST 2115CST			0	0	0 0	Hail (0.75) Hail (0.75)
	The resul		e Departn	nent repor	ted din	ne-size l	nail near Pr	ringle and in Stinnett; no damage
Potter County W Amarillo W Amarillo W Amarillo Pandall County	09 09 09	1915CST 1919CST 1940CST			0 0 0	0 0 0	0 0 1 0 0 0	Hail (0.75) Hail (1.25) Hail (0.88)
Randall County SW Amarillo S Amarillo	09	1917CST 1927CST	•	·	0	0	1 0	Hail (1.75) Hail (1.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	P	umber of ersons d Injured	Da	imated image ty Crops	Character of Storm
TEXAS, Western	Cont'	d							
	were	evere thunders e recieved from age resulted.	storm mo m televisio	ved across on meteoro	Amar ologist	illo. Nu s, SKYW	merou ARN	s reports spotters,	s of dime- to golf ball-size hail and the public. No significant
Pecos County 20 E Fort Stockton	10	1235CST- 1300CST			0	0	2	2	Hail (1.00)
·	The CST	Texas Depart to 1300 CST	ment of F . No sig	ublic Safe nificant da	ty repo image	orted qua was obse	rter-si erved.	ze hail e	ast of Fort Stockton from 1235
Reeves County Balmorhea	10	1858CST- 1905CST	0.6	40	0	0	0	0	Tornado (F0)
		Reeves Country				reported a	a torna	do near	Balmorhea. The tornado stayed
Concho County 2 E Eden	13	1811CST			0	0	0	0	Hail (1.00)
	The resu		inty Sheri	ff's Offic	e repo	rted qua	rter-si	ze hail	just east of Eden; no damage
Lubbock County 3 N Lubbock	11	2245CST			0	0	1	1	Hail (1.75)
	An o Inter	off-duty Natio rnational Airp	onal Weath ort. No	ner Service signigican	empl dama	oyee rep ge result	orted g	olf ball-	size hail just south of Lubbock
Midland County 6 SW Midland	14	1728CST			0	0	0 .	0	Hail (0.75)
		e-size hail fe age resulted.	ll at the l	National V	Veathe	r Service	Offic	e at Mic	dland International Airport; no
Martin County Stanton	14	1900CST	4		0	0	1	0	Hail (1.00)
.	A S	KYWARN sp	otter obse	erved quar	ter-siz	e hail nea	ar Stan	ton; no	significant damage was noted.
Scurry County Snyder 5 NW Dunn Snyder Snyder	14 14 14 14	1930CST 1943CST 1950CST 1955CST	0.7	50	0 0 0 0	0 0 0	1 3 2 3	3 1 1 0	Thunderstorm Winds (G52) Tornado (F1) Hail (1.00) Thunderstorm Winds
	snap	ped power po	oles along	Highway	350 sc	outh of Si	nyder.	Downt	rthwest of Dunn. The tornado purst winds to 60 mph damaged nied the winds.
Terrell County Dryden	14	1940CST			0	0	2	1	Hail (1.75)
_	The	public report	ed golf ba	ıll-size hai	l in D	ryden. 1	No sign	nificant	damage resulted.
Ector County W Odessa	14	1945CST			0	0	0	0	Thunderstorm Winds (G52)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons	Estimated Damage Property Crops	Character of Storm
TEXAS, Western	Cont'							
ILAAS, WOMII (Cont	u						•
	Dow	nburst winds	gusted to	60 mph a	ta We	st Odess	sa gas plant.	No damage was observed.
Nolan County Sweetwater Fisher County	14	2000CST			0	0	2 1	Thunderstorm Winds (G52)
Roby	14	2010CST			0	0	2 2	Thunderstorm Winds (G60)
Stonewall County Aspermont	14	2025CST			0	0	1 1	Thunderstorm Winds
	Dow and	nburst winds 70 mph at Ro	from the by. No s	Scurry Co ignificant	unty st damag	orm gus e was re	sted to 60 mp ported.	h at Sweetwater and Aspermont
Scurry and Fisher Counties								
1 NW Inadale 4 ENE Inadale	14	2020CST- 2035CST	4.5	50	0	0	3 1	Tornado (F1)
	A to	rnado touched s as it crossed	down in U.S. Hig	southeaster	rn Scur and mo	ry Coun	nty near Inada southwester	le. The tornado damaged power n Fisher County where it lifted.
Howard County 4 SW Big Spring	14	2030CST			0	0.	0 0	Thunderstorm Winds (G52)
	The resul		ed downb	urst winds	s t o 60	mph i	n southwester	n Howard County; no damage
Tom Green County San Angelo 6 N San Angelo	14 14	2151CST 2230CST			0	0	3 1 4 3	Thunderstorm Winds (G61) Thunderstorm Winds
	Tom	nburst winds Green Count Green Count	y Sheriff'	s Office re	eported	damage	e to buildings	rice Office in San Angelo. The and uprooted trees in northern
Runnels County Winters	14	2300CST			0	0	3 3	Thunderstorm Winds
	As t	he downburst aged in Winter	winds n	noved throng to the	ough R Winters	unnels s Police	County, tree Department.	s were uprooted and buildings
Schleicher County Eldorado 2 E Eldorado	16 16	1515CST 1600CST			0	0	0 0 0	Hail (0.75) Hail (0.75)
	The obser	Schleicher Corver observed	ounty She dime-size	riff's Offi hail 2 mi	ce repo	orted di t of Elde	me-size hail orado; no dar	near Eldorado. A cooperative nage resulted.
Nolan County 6 SE Sweetwater	16	1750CST	•		0	0 -	2 1	Hail (1.75)
•	The l	Nolan County age was observ	Sheriff's (ved.	Office repo	orted go	olf ball-s	ize hail near I	ake Sweetwater. No significant
Randall County 10 SE Amarillo	16	2145CST		•	0 .	. 0 . •	0 0	Hail (0.75)
	A te		orologist	reported of	dime-si	ze hail	near Lake 7	anglewood. No damage was

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	I	stimated Damage erty Crops	Character of Storn	1
TEXAS, Western	Cont'	d								
Hutchinson County Stinnett Borger	16 16	2230CST 2300CST	·		0	0	0	0	Hail (0.75) Hail (0.88)	
	Dim a Na	e- to nickel-siz tional Weathe	ze hail fel er Service	l in Hutch cooperati	inson (ve obs	County, a erver. N	eccore No da	ling to the	e Borger Police l s observed.	Department and
Crosby County Ralls	17	1005CST	,		0	0	0	4	Hail Winds	
		to marble-siz s around Rall		iven by w	inds gu	isting to	45 m	ph, cause	ed extensive crop	damage in the
Garza County 6 E Justiceburg 6 E Justiceburg	17 17	1015CST 1020CST		 	0	0	2	1 0	Thunderstorm Hail (0.75)	Winds (G52)
	The signi	public reporte ficant damage	d dime-si e resulted	ze hail and	i down	burst wi	nds g	usting to	60 mph east of J	usticeburg. No
Pecos County 15 W Fort Stockton	17	1633CST			0	0	0	0	Hail (1.00)	
. •	The obse		Sheriff's	Office rep	orted q	uarter-si	ze ha	il west of	Fort Stockton.	No damage wa
Parmer County 7 N Lazbuddie	18	1945CST			0	0	, <u>;</u> O	0	Hail (0.88)	
	A SI	XYWARN sp	otter repo	rted nicke	l-size l	hail nort	h of I	azbuddie	e; no damage res	sulted.
Hansford County 18 N Spearman	18	2030CST			0	0	0	0	Hail (0.75)	
×		Hansford Cou age was obser		ff's Office	report	ed dime-	size l	nail in the	northern part of	the county; no
Deaf Smith County Hereford	18 ·	2036CST- 2048CST			0	0	0	0	Hail (0.75)	
Castro County Dimmitt	18	2046CST			0	0	0	0	Hail (0.75)	
	Here	Parmer Count ford and near iff's Office.	Dimmitt	, accordin	g to th	e Herefo	nd Cord Po	astro Cou olice Dep	enties. Dime-size partment and the	ze hail fell nea Castro County
Swisher County 3 S Happy	18	2146CST			0	0	2	0	Hail (1.75)	
	Nick Cou	el- to golf bal nty Sheriff's (ll-size hai Office. N	l fell in ar lo signific	id near ant dai	Happy, nage res	accor ulted.	ding to the	he Tulia Police a	and the Swishe
Hartley County 6 SW Dalhart	18	2215CST	•		0	0	0	0	Hail (1.75)	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of	Da	mated mage	Character of Storm
Lacation	Date	Statidatu	(IVIIICS)	(Taius)	Killeu	ngureo	rioper	ty Clops	Character of Storm
TEXAS, Western	Cont'	d							
Dallam County Dalhart	18	2230CST			0	0	2	0	Hail (1.00)
Moore County Sunray Cactus	18 18	2230CST 2230CST			0	0	0	0	Hail (0.75) Hail (0.75)
Sherman County 2 N Cactus	18	2230CST			0	0	0	3	Hail (0.75)
Hartley County 6 SW Dalhart	18	2236CST			0	0	0	0	Hail (0.75)
Dallam County Dalhart	18	2245CST			0	0	2	1	Hail (1.00)
Hartley County						-			•
4 ESE Hartley	18	2300CST			0	0	0	0	Hail (0.88)
	of th	ere thunderstor le damage donc le crop damage	e by the h	the northw ail was no	estern signifi	Panhand cant. H	dle pro Ioweve	duced der, the h	ime- to quarter-size hail. Most ail north of Cactus did result in
Hutchinson County 5 E Borger	19	0430CST			0	0	5	0 .	Lightning
J E Boiger			Ensin a s						
	at \$7	75,000.	me m a g	reemouse	iacini	y east of	Dorge	r. The	resulting damage was estimated
Bailey County Muleshoe	20	1736CST			0	0	0	0	Hail (0.88)
	The	Muleshoe Poli	ce Depart	ment repo	rted ni	ckel-siz	e hail i	n Mules	shoe; no damage was observed.
Lamb County Olton	20	1845CST			0	0	1	0	Hail (0.88)
	Nick resul		ll in Olto	n, accordi	ng to	the Olto	on Fire	Depart	ment. No significant damage
Hale County		•							
6 W Plainview 1 N Abernathy	20 20	1850CST 1901CST			0	0	2 0	0	Thunderstorm Winds (G52) Hail (0.75)
	Plain	Hale County view. The Al ficant damage	pernethy F	ire Depar	tment o	observe	ported d dime	downbu-size hai	arst winds to 60 mph west of il just north of Abernathy. No
Lubbock County 6 E Slide	20	1950CST			0	0	2	1	Thunderstorm Winds (G52)
		ff-duty Nation gnificant dama			employ	ee repoi	rted do	wnburst	winds to 60 mph east of Slide;
Briscoe County Silverton	20	2007CST			0	0	0	0	Hail (0.88)
	The 1	Briscoe Count	y Sheriff'	s Office of	bserved	l nickel	-size h	ail in Si	lverton; no damage resulted.
Midland County Midland Midland Midland	21 21 21	1637CST 1646CST 1708CST	-		0 0 0	0 0 0	0 1 0	0 0 0	Hail (0.75) Hail (1.00) Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons i Injured	Da	mated mage ty Crops	Character of Storm
TEXAS, Western	Cont'	d							
	An o	off-duty Natio	nal Weatl significan	her Service t damage	e emple was no	oyee and ted.	the pu	ıblic rep	orted dime- to quarter-size hail
Ward County Monahans	21	1706CST			0	0	2	0	Hail (1.75)
	A se Sher	evere thunders riff's Office.	storm prod No signif	duced golf icant dam	ball-si age res	ze hail in ulted.	Mon.	ahans, a	s reported by the Ward County
Lynn County O'Donnell	21	1713CST			0	0	0	0	Hail (0.75)
	The	Lynn County	Sheriff's	Office rep	orted o	lime-size	hail i	ı O'Dor	nnell; no damage was observed.
Ector County Odessa	21	1744CST			0	0	2	0	Hail (1.75)
	The note		Departmen	t observed	l golf b	all-size h	ail in V	West Od	essa; no significant damage was
Pecos County 15 S Fort Stockton	21	1755CST	0.2	30	0	0	0.	0	Tornado (F0)
		public reporte			outh of	Fort Sto	ekton.	No da	mage resulted since the tornado
Midland County 6 SW Midland 6 SW Midland	21 21	1803CST 1814CST			0	0	0 2	0	Thunderstorm Winds (G52) Thunderstorm Winds (G61)
	Dov Inte	vnburst winds rnational Airp	gusted to	o 63 and significant	71 mp	h at the ge resulte	Nationed.	nal Wear	ther Service Office at Midland
Howard County Big Spring Sand Springs	21 21	1829CST 1840CST	0.5	40	0	0	0	0	Thunderstorm Winds (G52) Tornado (F1)
	The		nty Sheri:	ff's Office	report	ted a sma	all tori	iado nea	big Spring; no damage resulted. ar Sand Springs. The tornado a tile fence.
Tom Green County San Angelo	21	2110CST			0	0	0	0	Thunderstorm Winds (G52)
	The	public report	ed wind g	gusts to 60	mph i	n San A	ngelo;	no dam	age resulted.
San Angelo	21	2375CST			0	0	5	0	Lightning
									San Angelo. The resulting fire age is near \$200,000.
Hansford County 5 S Spearman	22	0135CST		·	0	0	0	0	Hail (0.75)
	The note		unty Sher	iff's Offic	e obser	ved dime	e-size l	nail sout	h of Spearman; no damage was

	.	Time Local/	Path Length	Path Width	Per	mber of	Dar	nated nage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Propert	y Crops	Character of Storm
TEXAS, Western	Cont'	đ							
Concho County Eden	22	1427CST			0	0	0	0	Hail (0.75)
	The	Concho Count	ty Sheriff'	s Office 1	reported	d dime-s	size hai	l in Ed	en; no damage resulted.
Deaf Smith County 5 SE Hereford Hereford	23 23	1610CST 1640CST-			0	0	2	. 1	Hail (1.75)
Randall County Umbarger	23	1650CST 1645CST-			0	0	0	0	Hail (0.88)
Castro County		1648CST			0	0	1	1	Hail (1.75)
10 E Summerfield Deaf Smith County 5 S Hereford	23 23	1718CST 1725CST-			0	0	1	1	Hail (1.75)
	23	1740CST			0	0	0	0	Hail (0.88)
Castro County Dimmitt 5 NW Dimmitt	23 23	1740CST 1745CST			0	0	0 2	0 1	Hail (0.88) Hail (1.75)
Swicker County	The s	storms produce	ed nickel-	to golf ba	N-size l	nail, acc	ording	to the H	County and moved southeast. lereford Police Department and amage resulted from the hail.
Swisher County Happy Happy	23 23	1745CST 1750CST	•		0	0	0	0	Hail (0.88) Thunderstorm Winds (G52)
	Weat	ne line of stor her Service co mph damaged	operative	observer i	n Happ	у. Йо	damage	resulte	l was reported by an National d. Downburst winds estimated
Castro County 7 SE Dimmitt	23	1803CST- 1805CST	0.1	20	0	0	0	0	Tornado (F0)
		Castro County open country					rnado s	outheas	t of Dimmitt. The tornado was
Swisher County Happy 7 N Tulia	23 23	1810CST 1816CST			0	0	2 4	1 0	Thunderstorm Winds (G70) Lightning
	signi	Tulia Police I ficant damage ge to the struc	was note	nt reported. Light	d down ning st	nburst v ruck a	vinds g home r	usting orth of	to 80 mph near Happy. No f Tulia, resulting in extensive
Castro County 5 N Hart	23	1820CST			0	0	1	2	Hail (1.75)
·		ball-size hail fi gnificant dam			h and F	Hart, acc	ording	to the (Castro County Sheriff's Office.
Lamb County 3 S Spring Lake 6 W Olton 10 SSW Olton	23 23 23	1854CST 1948CST 2016CST			0 0 0	0 0 0	1 2 1	2 1 1	Hail (1.75) Hail (1.75) Hail (0.75)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of rsons Injured	D	stimated Samage erty Crops	Character of Storm
TEXAS, Western	Cont'	d							·
8 SSW Olton 8 N Littlefield	23 23	2018CST 2020CST	0.1	20	0 0	0	0	0	Tornado (F0) Hail (0.75)
	acco The	rding to SKY	WARN sp Departme	otters and nt reporte	l the Oli d a brie	ton Fire	Depa	rtment.	ced dime- to golf ball-size hail, No significant damage resulted. f Olton. The tornado was over
UTAH	Ť								
Davis and Weber Counties	31 01	1100MST 0300MST			0	0	4	0	High Winds
	favo were	rable conditio	ns for stro ome storag	ong easterl ge building	ly canyo gs were	on wind	s alon	g the Wa	re over southern Idaho created satch Front. Gusts near 70 mph le in Davis County, and power-
Salt Lake County Kearns	12	0750MST			0	0	0	0	Thunderstorm Winds (G58)
	over lowe	the northwes	tern portice atmosphe	on of the ere still dr	state du y, the th	iring the	e late torms	afternoon that form	o cause scattered thunderstorms and evening hours. With the led were high based, and caused
VERMONT									
Bennington County Pownal Pownal Pownal Shaftsbury Shaftsbury Center	11 11 11 11 11	1600EST 1600EST 1600EST 1600EST 1600EST 1605EST			0 0 0 0 0	0 0 0 0 0	? 3 3 ? 5 3	0 0 0 0 0	Hail (1.00) Flash Flood Thunderstorm Winds Hail (1.00) Thunderstorm Winds Hail (1.75)
Windham County Brattleboro Brattleboro Brattleboro	11 11 11	1648EST 1648EST 1648EST			0 0 0	0 0 0	4 3 3	0 0 0	Thunderstorm Winds Urban Flood Lightning
Caledonia County St. Johnsbury Danville	11 11	1730EST 1730EST			0	0	3	0	Thunderstorm Winds Thunderstorm Winds
Essex County Concord	11	1730EST			0	0	3	0	Thunderstorm Winds
	num midy parti on a destr 346.	s hardest hit erous trees an way up its tru ally collapsed farm denting royed 40 acres	appear to d power l nk, falling the roof a the alumin s of young was also	o have been have been have been the front would be to have been to have been have been have been have been have been plant hard be to have been plant hard be to have been have	een Sha downed ront of a vall of t of the a nts. In	Iftsbury I. In Si a house he hous farm's b Pownal	and haftsb The e. In buildin l, loca	Pownal ury, a 15 tree's in Shaftsbur igs and br lized floor	and evening of June 11th. The in Bennington County, where 0-year-old fir tree was snapped mpact destroyed a chimney and ry Center, golf ball-size hail fell reaking windows. The hail also oding was reported along Route with many large trees and wires

. 0

Thunderstorm Winds

Addison County Middlebury

12

1725EST

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage arty Crops	Character of Storm
VERMONT Cont'o	i								
	Larg	e trees were r	eported d	own in the	Midd	lebury a	rea.		
Bennington County Manchester Windham County	15	1925EST			0	0	3	0	Thunderstorm Winds
Vernon	15	2130EST			0	0	4	0	Lightning
	Trees surge down	e into the swit	ines were tchyard of	downed in the Verm	n Manc ont Ya	hester, nkee N	while uclear	an offsit Power I	e lightning strike sent a power Plant, forcing a temporary shut
Orleans County N Troy N Troy	27 27	2050EST 2055EST			0	0	4 3	0	Thunderstorm Winds Lightning
		ower in the to ng extensive		nocked out	by fal	ling tree	es and	lightning	g. One tree also fell on a house
VIRGINIA									
Frederick County Winchester	01	1152EST			0	0	0	0	Thunderstorm Winds (G78)
	A seemph	vere weather s (78 knots).	potter rec	orded sust	ained v	vinds ov	er 70	mph (61	knots) with a brief burst to 90
Fauquier County Warrenton	01	1230EST			0	0	0	0	Thunderstorm Winds
	Thur	derstorm win	ds downe	d 1-foot-di	ameter	tree lir	nbs.		•
Fairfax County	01	1257EST			0	0	4	0	Lightning
	Seve	ral homes wer	re damage	d by lighti	ning st	rikes.			
Arlington County	01	1307EST			0	0	3	0	Thunderstorm Winds
	The outag		unty Polic	e Departn	nent rep	ported r	umer	ous tree	limbs down that caused power
Cities of Roanoke and Salem	01	1350EST- 1510EST			0	0	4	0	Lightning
	Saler	n, a house w	as set af	ire by lig	htning	and su	ffered	1 \$10,00	O damage to one of them. In O damage. Several thousand ng power lines.
Cumberland County	01	1800EST			0	0	5	0	Lightning
		tning struck a ath it; all were		he central	part o	f the co	unty	with nine	e head of cattle were standing
Fairfax County	03	0030EST- 0202EST			0	0	4	0	Thunderstorm Winds
	in ou	county police of stages to about supted for sev	t 6,000 c	ustomers.	trees do A wat	owned a er treat	t seve ment	ral places plant was	. Downed power lines resulted a disabled when its power was

Lauria	Data	Time Local/	Path Length	Path Width	Per	nber of	Dar	nated nage	Character of States
Location	Date	Standard	(Miles)	(Yards)	Killed	injurea	Propert	Crops	Character of Storm
VIRGINIA Cont'd									
Gloucester County 3 E Maryus 3 N City	05	1000EST- 1100EST	?	?	0	0	0	0	Waterspout
Virginia Beach	mout toucl	th of Mobjacl adowns or dan	c Bay and lage were	l another received.	over the v	the mou vaterspo	ith of uts wer	the Chenot to	Bay. One was reported over the esapeake Bay. No reports of ornadic in nature, forming from waters of the Chesapeake Bay.
Floyd County Floyd	15	1500EST			0	1	0	0	Lightning
	A m	an was hospita	lized after	r being str	ruck by	y lightni	ing whi	le in a	field.
City of Lexington	16	1400EST			0	2	0	0	Lightning
	Two a the		lightly inj	ured when	n lighti	ning stri	uck a li	ghting	board one of them was using at
Madison County Aylor	16	1420EST			0	0	4	0	Lightning
	Ligh	tning set fire t	o a barn a	t Aylor,	destroy	ing the	barn a	nd abou	at 4,000 bales of hay in it.
Essex County 5 S Tappahannock Chesterfield County	16	1745EST			0	0	0	0	Hail (0.75)
Midlothian Chesterfield	16	1750EST			0	0	5	0	Thunderstorm Winds
	Ches	lidlothian, thr terfield, wind rtment.	ee stores damaged	suffered the roofs of	roof don seve	amage; eral hom	one sto les and	ore lost busines	t three-fourths of its roof. In sees according to the county fire
Middlesex County Jamaica	16	1818EST			0	0	0	0	Hail (1.00)
King and Queen County Crouch	y 16	1900EST			0	0	4	0	Thunderstorm Winds
		ng winds upro nado were not			ked do	wn a wa	all of a	barn aı	nd tore off its roof. Reports of
Lunenburg County Kenbridge	16	1900EST			0	0	4	0 .	Thunderstorm Winds
	Thur barn	derstorm wind roof onto a tr	ls topple a actor.	200-year	-old o	ak tree o	onto tw	o vehic	les, damaging both, and blew a
City of Emporia	16	1915EST			0	0	0	0	Thunderstorm Winds
	Thur	derstorm wine	ds downed	trees in	Empor	ia.			
Goochland County 3 ENE Fife	16	1923EST			0	0	4	0	Lightning
	In th	e Enon area, li nen were injur	ightning ca	aused a fin	re that re.	heavily	damage	ed the u	apper portion of a house. Three

		Time Local/	Path Length	Path Width		ber of		imated image	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured			Character of Storm
VIRGINIA Cont'd									
Southhampton County Cortland	16	2010EST			0	0	0	0	Thunderstorm Winds
	Tree	s were downer	d in Cortl	and by the	underst	orm wii	nds.		•
City of Williamsburg	16	2025EST	,		0	0	0	0	Hail (0.75)
King and Queen County 1 N St. Stephens Church	17	1930EST			0	0	5	0	Lightning
	An c	office building	was gutte	ed by a lig	ghtning-	-caused	fire.		
Essex County 1 E Howertons	17	1930CST			0	0	4	0	Lightning
	Ligh blaze		fire that	heavily da	maged a	a home.	A fir	eman wa	as slightly injured fightning the
Lunenburg County 3 W South Hill	17	1730EST- 1830EST			0	0	4	0	Thunderstorm Winds
	Seve	ral trees were	downed,	one of wh	ich fell	onto a	car ca	using ex	tensive damage to the car.
Madison County	18	0230EST			0	0	0	0	Thunderstorm Winds
	The	Madison Cour	nty Sherif	f's Office	reporte	d nume	rous t	rees dow	med.
Madison County Syria	18	0300EST			0	0	4	0	Lightning
	Ligh	tning caused a	fire that	destroyed	a week	end ho	me.		
Albemarie County Crozet	22	1426EST			0	0	4	0	Lightning
	Light	tning struck a	house in	Crozet car	using \$	20,000	damag	ge in the	resulting fire.
Brunswick County 2 SE Gasburg	22	1515EST			1	0	1.	0	Lightning
	them		e lightning	g bolt and	died ab	out 7 ho	ours la		vo youths were sitting. One of lightning melted a 2-inch hole
City of Chesapeake	22	1530EST			0	2	3	0	Thunderstorm Winds
Northwest	The mobi	police reporte le home suffe	d telepho red minor	ne poles c injuries.	lowned Report	and a ts of a t	mobile ornade	home o	collapsed. Two people in the ot confirmed.
City of Virginia Beach	22	1530EST- 1830EST			0	0	5	0	Flash Flood
		e northern par iderable floodi							in a couple of hours produced oded.
Caroline and Spotsylvania Counties	May	and June		•	0	0	0	6	Drought

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	Da	mated mage ty Crops	Character of Storm
VIRGINIA Cont'd									
		cials estimate ral disaster ai		ses at abo	ut \$2,0	000,000	in each	county	and were preparing to ask fo
WASHINGTON									
Walia Walia County	06	Evening	•		0	0	5	?	Flash Flood
	Airp flood	ort recorded	1.14 incheith other s	es of rain treets arou	in a 4. ınd Wa	5-hour p Ila Wall	period.	State R	evening of the 6th. Walla Wall oute 125 was closed due to th nt at City Hall had some mino
Whitman County	11	1230PDT		•	0	0	0	0	Funnel Cloud
	A ba	and of convec e heavy show	tion orgar vers, a fur	nized over nnel cloud	the eas	stern thir	d of th 10 mile	e state i	midday on the 11th. In addition of Pullman.
Ferry County	11	1300PDT			0.	0	0	0	Flash Flood
	The rains Pass	showers in the	nvection e northeast	that create corner of	ed the Washi	funnel ngton. T	clound he heav	near y rain	Pullman also produced heav caused a mudslide near Sherman
Pacific County	13	1200PDT	.3	30	0	0	0	0	Tornado (F0)
	A to	rnado touche ne ground foi	d down br a minute	iefly near or two be	the tove fore re	vn of Me eturning	egler in to the	Pacific	County. The tornado was only No damage was reported.
Benton County	24	1300PDT- 1600PDT		0	0	5	0	Flash	Flood
	in ea but o	stern Washin caused little o	gton. A 3 lamage. A ads and u	l- to 4-foo t 1545 PE ndermined	t wall o T, a h a cou	of water eavy thu ple of p	came of inderstoo aved r	ut of Zi orm in (ed heavy rain and flash flooding ntel Canyon around 1300 PDT the Horse Heaven Hills washed the area. Two vechicles were
Grant County	24	1400PDT- 1800PDT		0	0	5	0	Flash	Flood
	Thur	nderstorms w e minor urba	ith heavy n flooding	rain washe was repo	ed out a	road in Moses I	Sagebi Lake.	rush Fla	ats west of Ephrata. In addition
Yakima County	24	1700PDT- 2000PDT		0	0	4	0	Flash	Flood
•	Thur mile	nderstorms w s east of Yak	ith heavy i ima) and	rain, 0.71 washed ou	of an in t three	nch in lea roads n	ss than orth of	1 hour, Sunnys	closed roads around Moxee (15 side.
Benton County	28	1600PDT- 1800PDT		0	0	4	0	Flash	Flood
	Heav road	y thundersto in Badger C	orms once anyon, an	again cau d from a i	sed flo nudslic	oding in le in We	Zintel aver C	Canyon,	n. Damages from a washed ou was also reported.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage y Crops	Character of Storm
WEST VIRGINA									
Wyoming County Cyclone Putnam County	01	1500EST			0	0	0	0	Hail (0.75)
2 NW Eleanor	02	1655EST			0	0	0	0	Thunderstorm Winds
	Thur	nderstorm win	ds broke o	off 4-inch-	thick b	ranches	s.		
Fayette County									
Glen Ferris Ansted	02 02	1750EST 1800EST			0	0	0 ?	0	Thunderstorm Winds Thunderstorm Winds
Allsted					•	_	-	•	
	Larg disru	e tree limbs wanting electrica	vere blown il power.	across a	road i	n Glen	Ferris.	Sever	al trees were fallen in Ansted,
Mason County Point Pleasant	16	1900EST			٥	Λ	2	0	Lightning
Leon	16	1915EST			0	0	3 3	ŏ	Lightning Lightning
	Hom	e appliances w	ere damas	ged in Poi	nt Plea	sant. F	our her	eford ca	attle were electrocuted in Leon.
Ohio County				,					
Bethlehem .	16	2230EST			.0	0	3	0	Urban Flood
	Base	ments were flo	ooded and	sewers ba	acked-ı	ıp in Be	thleher	n.	
Mercer County						r			
Princeton	18	1900EST- 2100EST			0	0	4	0	Urban Flood
	abou	Lilly Grove ar t 1 hour. Sev ded basements	eral home	s sustaine	of the	city wa r damag	as dren e, incli	ched by ading th	3.00 to 4.00 inches of rain in the East River Fire Department.
Hancock County Chester	30	1415EST		•	0	0	0	0	Thunderstorm Winds
	Thun	derstorm wind	ds blew a	large tree	down	in Ches	ter.		
WVZ005-007-008-009				Ü					
010-011-012 Northern and	30				0	0	0	?	Drought
Eastern Counties	since and e River By th	the start of the eastern countier r levels in the	e growing es. Fair Monongal month, liv	season. I mont, in I nela and G vestock we	Drough Marion reenbra ere mo	t condit County ier basin ved or	tions de y, recor ns were water h	veloped ded on three-qual auled to	ther pattern dominated the state d in June, mainly over northern ly 0.59 inches of rain in June. uarters below seasonal normal. to them, due to the short water
WISCONSIN									
Dodge County 1 NW Portland 2 E Watertown	01 01	2240CDT 2250CDT			0	0	5 4	0	Thunderstorm Winds Thunderstorm Winds
		se winds from silo near Wa		evere thu	ndersto	rms flat	tened a	barn ne	ear Portland, and damaged trees

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of rsons Injured	Da	mated mage y Crops	Character of Storm
WISCONSIN Cont	'd								
Douglas County Solon Springs	13	1650CDT			1	0	0	0	Lightning
Washburn County 3 S Spooner	13	1825CDT			0	0	5	0	Lightning
Buffalo County Alma	13	1850CDT			0	0	3	0	Thunderstorm Winds
Rock County Orfordville	13	2056CDT			0	0	4	0	Lightning
	barn	vere thundersto fires near Spo by lightning.	oner and	d minor pi Orfordvil	roperty lle. A	damage Solon S	in Aln Springs	na in Bu man w	ffalo County. Lightning caused as struck and killed in an open
Lincoln County 8 WNW Merrill	14	1255CST	0.5	50	0	0	5	?	Tornado (F1)
Ozaukee County Mequon Fond Du Lac County	14	1330CDT			0	0	?	?	Hail (2.00)
Brandon 3 E Lamartine	14 14	1630CDT 1655CDT			0	0	?	?	Hail (2.75) Thunderstorm Winds
Dodge County Randolph	14	1715CDT			0	0	?	0	Thunderstorm Winds (G52)
Randolph	14	1715CDT			0	1	0	0	Lightning
Lowell Lowell	14 14	1830CDT 1922CDT			0	0	?	0 0	Hail (1.00) Hail (1.00)
Dane County 1 S Sun Prairie Marshall	14 14	1900CDT 1937CDT			0	0	4 ?	0	Thunderstorm Winds Hail (0.75)
Waushara County Hancock	14	1937CDT			0	0	; 5	0 "	Lightning
I IAIROOK					_	-			
	to 60 Linco man) mph and de oln County, d	positing u estroying y lightning	p to base several tr g while at	ball-siz ees, a temptii	ze hail. barn, ar ng to se	A toral nd dama cure a t	nado bi aging a ent flar	Wisconsin generating winds up riefly set down near Merrill in roof and porch of a house. A during a thunderstorm. Other hine sheds.
Iowa County Arena	21	1459CDT			0	0	?	?	Hail (1.75)
Sauk County 10 ENE Spring Green		1459CDT			0	0	?	?	Hail (1.75)
, . .			orm drop	ped hail u	p to go	olf ball-	size in	the Are	na/Spring Green areas.
Bayfield County						_	_	_	
Ino 6 SW Bayfield	27 27	0345CDT 0350CDT			0	0	?	?	Thunderstorm Winds Thunderstorm Winds
Ashland County LaPoint	27	0400CDT			0	0	5	?	Thunderstorm Winds (G90)
(Madeline Island) Ashland	27	0405CDT			0	0	?	?	Thunderstorm Winds
	Seve	re thunderstor	ms, packi	ng winds	up to	104 mp	h, topp	led larg	e power lines and hundreds of

Severe thunderstorms, packing winds up to 104 mph, toppled large power lines and hundreds of trees across far northern Wisconsin. The hardest hit area was LaPointe on Madeline Island Ashland County where the wind gauge hit 103 mph before it was torn from the Yacht Club building. Trees crashed into cars and buildings, a house was lifted from its foundation, and dry-docked sailboats were knocked over.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	nber of rsons Injured	Da	imated image ty Crops	Character of Storm
WISCONSIN Cont	t'd								
Oneida County 12 WSW Minocqua	27	1920CDT- 1930CDT	6.0	400	0	0	5	5	Tornado (F2)
Minocqua	27	1950CDT	0.0	700	ŏ	ŏ	?	?	Thunderstorm Winds
Price County 20 E Park Falls	27	2100CDT			0	0	?	?	Thunderstorm Winds (G52)
	mph swat 1 car	. A tornado (h from near Pi	ouched do ine Lake to the with do	own west o Franklii amage est	-southw n Lake imated	est of Notes to Mario at \$350	Minocq on Lak	ua in O e. The	in with winds gusting up to 60 meida County and cut a 6-mile tornado damaged 13 homes and tion, 1,600 acres of industrial
Douglas County 1 SW Wascott	28	2330CDT			0	0	?	?	Thunderstorm Winds
Sawyer County 10 N Hayward	29	0015CDT			0	0	?	?	Thunderstorm Winds
Vilas County Boulder Junction	29	0135CDT			0	0	?	?	Thunderstorm Winds
	locat	ted severe thu ions over nor son Lake near	thern Wi	sconsin.	The w	inds als	ds whi o thre	ich knoo wafew	ked down large trees at a few boats out of the water along
WYOMING									
Laramie County 3 N Cheyenne 4 SE Cheyenne Sweetwater County	01 01	1710MST 1720MST			0	0	0	0	Funnel Cloud Hail (0.75)
Green River Albany County	01	1800MST			0	0	0	0	Street Flood
Laramie Laramie County	01	1830MST			0	0	0	. 0	Hail (1.00)
2 N Cheyenne	01	1830MST			0	0 -	0 .	0 .	Hail (1.00)
	of C Chey heavy	heyenne at 17	710 MST. 1800 MST 0-inch hai	At 172, street fl at 1830	o mst	`, 0.75-	inch h	ail was	nt funnel clouds to 3 miles north reported 4 miles southeast of n River, and Laramie reported a diameter was reported 2 miles
Platte County Guernsey	02	0900MST- 0902MST	1.0	50- 90	0	0	5	0	Tornado (F1)
	A mo dama	orning tornade ged and one v	in Gueri vas destro	ney dama yed at 09	ged five 00 MS	e homes T.	and n	umerou	s trees. Several vehicles were
Sweetwater County Rock Springs	02	1600MST			0	0	0	0	Street Flood
	An e	arly afternoon	heavy ra	in brough	t floodi	ng to th	ie stree	ets of Ro	ock Springs at 1600 MST.
Platte County 10 W Wheatland	02	1658MST			0	0	0	0	Funnel Cloud

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	mber of rsons I Injured	Da	imated image ity Crops	Character of Storm
WYOMING Cont'	d								
•		eral thundersto niles west of V				stern Wy	yoming	g. One t	hunderstorm produced a funnel
7 NW Wheatland	03	1230MST			0	0	0	0	Funnel Cloud
		early afternoo eatland.	n thunde	rstorm at	1230	MST pr	oduced	l a funn	nel cloud 7 miles northwest of
Sweetwater County 20 W Warnsutter	03	1440MST			0	0	0	0	Funnel Cloud
		understorm in 0 MST.	south ce	ntral Wyo	ming s	pawned	a funn	el cloud	20 miles west of Wamsutter at
Natrona County 3 E Midwest	03	1550MST			0	0	0	0	Funnel Cloud
	At Mid	1550 MST, a west.	thunders	torm in o	central	Wyomir	ng pro	duced a	funnel cloud 3 miles east of
Park County Powell	03	1500MST- 1630MST			0	0	5	0	Heavy Rain
		500 MST and flooded basen		ST, 2.00 i	nches o	f rain an	nd smal	ll hail fe	ell in Powell and damaged crops
Goshen County Jay Em Weston County	04	1115MST	•		0	0	0	0	Funnel Cloud
Upton	04	1140MST			0	0	0	0	Funnel Cloud
	Late and	morning thun near Upton at	derstorms 1140 MS	s in easter ST.	n Wyor	ning spa	wned	funnel c	louds near Jay Em at 1115 MST
Campbell County 45 SE Gillette 8 N Gillette	04 04	1308MST 1308MST			0	0	0	0.0	Funnel Cloud Funnel Cloud
		understorm in 8 MST.	northeast	tern Wyon	ning pr	oduced f	funnel	clouds a	round Gillette at 1305 MST and
Natrona County 5 E Casper Midwest	04 04	1508MST 1510MST			0	0	0	0	Funnel Cloud Funnel Cloud
	Thu MS	nderstorms in Γ. A funnel c	east-cent loud was	ral Wyon noted nea	ning pro ir Midp	oduced foint at	funnel 1510 N	clouds : AST.	5 miles east of Casper at 1508
Albany County 2 N Laramie	06	1710MST- 1718MST	0.5	25-50	0	0	0	0	Tornado (F0)
	A to	ornado toucheo	down 2	miles nor	th of L	aramie a	at 1710	MST.	
Platte County Wheatland	06	1830MST- 1908MST			0	0	4	0	Heavy Rain

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	Da	mated mage ty Crops	Character of Storm
		·							
WYOMING Cont	'd								
•	Stree	et and baseme ites. Some pe	nt floodin eople in n	g occurred obile hon	l when nes wer	1.50 in e evacu	ches of ated fo	f rain fe r a shor	ll in Wheatland in just over 30 t period of time.
30 NW Riverton	06	1559MST			0	0	0	0	Funnel Cloud
		understorm in	central \	Wyoming :	at 1559	MST s	showed	a funn	el cloud 30 miles northwest of
Freemont County Riverton	07	Unknown			0	0	5	4	Flood
	Floo the r	ding of the W iver. High w	ind River ater due t	at Riverto o past raii	n resul	ted in 1: snow m	2 home elt.	s being	flooded and loss to crops along
Goshen County	07	Unknown			0	0	6	5	Flood
	More agric	e than 7.00 in culture loss.	iches of ra	in in the	past 10	days re	sulted	in flood	d damage to roads, bridges and
Natrona County 15 W Casper 10 W Casper 3 E Casper 5 E Casper	07 07 07 07	1310MST 1515MST 1530MST 1543MST	0.5	25-50	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	Tornado (F0) Funnel Cloud Funnel Cloud Funnel Cloud
	toucl	nderstorms in ned down 15 MST, 1530	miles wes	t of Caspe	er at 15	tornado 10 MS	es and Γ. Fu	funnel nnel clo	clouds near Casper. A tornado auds were noted near Casper at
Albany County 10 SE Laramie Laramie County	09	1250MST			0	0	0	0	Funnel Cloud
Carpenter 2 SE Carpenter	09 09	1450MST 1454MST-			0	0	0	0	Funnel Cloud
10 SE Pine Bluffs	09	1456MST 1456MST-	0.1	20-40	0	0	0	0	Tornado (F0)
3 S Burns		1459MST 1457MST-	0.1	25-50	0	0	0	0	Torando (F0)
	09	1459MST	0.2	25-50	0	0	0	0	Tomado (F0)
1.5 SE Burns 20 N Pine Bluffs	09 09	1510MST 1515MST			0	0	0	0	Funnel Cloud Funnel Cloud
2 S Pine Bluffs	09	1524MST- 1526MST	0.2	20-40	0	0	0	0	Tornado (F0)
· .	torna Carp Carp Bluff 1510	ries of thund does. A fi enter, a funn enter at 1454 s. A tornado MST, 1.5 mi	lerstorms unnel cloudel was re MST. A was repo	in the soud was no ported at nother tororted 3 miles as to f Burn	itheaste ted at 1450 nado w les sout	ern corn 1250 M MST. vas spott th of Bu 1515 M	ner of IST, 1 A torn ted at 1 Irns at IST, a 1	Wyomi 0 miles nado wa 1456 M 1457 M funnel c	ng brought funnel clouds and southeast of Laramie. Near as noted 2 miles southeast of ST, 10 miles southeast of Pine IST. A funnel was reported at loud was logged 20 miles north outh of Pine Bluffs.

0

An early afternoon thunderstorm spawned a funnel cloud at 1256 MST, 3 miles of south of Laramie.

0

Funnel Cloud

Albany County 3 S Laramie

1256MST

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Per	nber of sons Injured	D	timated amage rty Crops	Character of Storm
WYOMING Cont'd	i								
Laramie County 2 S Cheyenne	13	1239MST			0	0	0	0	Funnel Cloud
	A fu	nnel cloud wa	s noted in	n a thunde	rstorm	over C	heyeni	ne at 123	9 MST.
Goshen County 20 S Torrington	13	1255MST			0	0	0	0	Funnel Cloud
	A th	understorm sp	awned a	funnel clo	ud at 1	255 MS	T, 20	miles so	outh of Torrington.
Crook County Sundance	13	1515MST- 1600MST			0	0	0	0	Flood
		understorm ov ment flooding		nce produ	ced nea	rly 2.72	2 inch	es of rain	n in 45 minutes with street and
Big Horn County 10 W Greybull	14	1345MST			0	0	0	0	Funnel Cloud
	An e	arly afternoon	thunders	storm spaw	med a f	unnel c	loud 1	0 miles	west of Greybull at 1345 MST.
Goshen County 3 NE Hawk Springs	14	1415MST			0	0	0	0	Hail (0.75)
	Thur	nderstorms in	southeast	ern Wyom	ing wi	h 0.75-	inch h	ail in H	awk Springs at 1415 MST.
Laramie County 25 NE Cheyenne	18	1425MST		·	0	0	0	0	Hail (0.75)
	A th	understorm at	1425 MS	ST contain	ed 0.75	i-inch h	ail 25	miles no	orthwest of Cheyenne.
20 W Albin	18	1530MST	•		0	0	0	0	Hail (1.00)
	A th	understorm co	ontained 1	.00-inch h	ail at 1	530 M	ST, 20) miles v	vest of Albin.
Goshen County 35 N Torrington	19	1414MST			0	0	0	0	Funnel Cloud
	A th	understorm pr	oduced a	funnel clo	oud 35	miles n	orth o	f Torring	gton at 1414 MST.
Converse County 1.5 E Douglas 20 S Douglas	20 20	1940MST 2020MST			0	0	0	0	Hail (1.75) Wind
	Wine 1.75	d gusts to 65 inch in diame	mph from eter was r	a thunder eported 1.	storm ? 5 miles	20 miles east of	s soutl Doug	of Dou glas at 19	glas at 2020 MST. Hail up to 40 MST.
Natrona County 20 SW Casper	21	1420MST			0	0	0	0	Funnel Cloud
	A th	understorm at	1420 MS	ST spawne	d a fun	nel clou	id 20	miles so	uthwest of Casper.
Albany County 4 W Basler	21	1410MST	?	?	0	0	0	0	Tornado (F0)
Laramie County 5 S Cheyenne	21	1458MST	?	?	0	0	0	0	Funnel Cloud

Lauren	Data	Time Local/	Path Length	Path Width	Per	mber of	D	timated	Character of Storm
Location	Date	Standard	(Miles)	(Yards)	Killed	injurea	Prope	ну Сторв	Character of Storm
WYOMING Cont'	d								
	Thur At 1	nderstorms in 458 MST, a f	southeaste	ern Wyomi ud was rep	ing pro ported	duced a 5 miles	torna south	do 4 mile of Chey	es west of Busler at 1410 MST.
Platte County Sybille Canyon	21	1900MST	•		0	0	4	0	Flash Flood
	By 1 becar	990 MST, he use of bridge	avy rains and road	from a the damage.	underst	orm in	Sybill	e Canyo	n had closed State Highway 34
Washakie County Worland	21	1545MST			0	0	6	0	Hail (1.75)
	An a	fternoon thun	derstorm	caused ove	er \$1 n	nillion is	n prop	erty dan	nage in Worland at 1545 MST.
Park County 2 N Cody 15 NE Cody 15 SE Cody	22 22 22	1330MST 1400MST 1400MST			0 0 0	0 0 0	0	0 0 0	Funnel Cloud Funnel Cloud Funnel Cloud
10 12 000)		derstorms in	Park Cou	nty spawno	ed at le	east three	e funr	nel clouds	s between 1830 MST and 1400
Natrona County 20 N Casper	22	1830MST		•	0	0	0	. 0	Wind Gust
	A the 22nd	understorm pr	oduced w	ind gusts	to 60 r	nph and	20 m	iles nort	h of Casper the evening of the
Park County 1.5 W Ralston	22	1428MST			0	0	0	0	Funnel Cloud
	An a Ralst		derstorm	with a fu	nnel cl	oud wa	s геро	orted at :	1428 MST, 1.5 miles west of
I americ Country			•	•					
Laramie County 15 SW Cheyenne	22	1305MST- 1309MST	?	?	0	0	0	0	Tornado (F0)
	A tor	rnado was siglage resulted.	hted 15 m	iles southy	vest of	Cheyen	ne, ai	nd was or	n the ground for 4 minutes; no
5 S Cheyenne	22	1345MST			0	0	0	0	Funnel Cloud
	A th	anderstorm pr	oduced a	funnel clo	ud 5 m	iles sou	th of	Cheyenn	e Airport at 1345 MST.
3 W Cheyenne 18 W Cheyenne 15 W Cheyenne	23 23 23	1928MST 2020MST 2033MST			0 0 0	0 0 0	0 0 0	0 0 0	Wind Gust Hail (1.50) Hail (1.50)
	durin	derstorms in a g the evening ort at 2030 M	of the 231	rn Wyomi rd. Wind	ng bro gusts to	ught gus o 60 mpl	sty wi h were	nds and l e reported	arge hail to the Cheyenne area 13 miles west of the Cheyenne
Big Horn County Basin Shell	25 25	1443MST 1510MST			0	0	4	0	Hail (1.75) Hail (1.75)

June 1991

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pe	umber of ersons d Injured	. D	timated amage rty Crops	Character of Storm
WYOMING Cont'	'd								
		rnoon thunder and trees.	rstorms w	ith hail at	Basin	and Shel	l in tl	ne Big H	orn county did damage to some
Sheridan County Tie Flume Camp	25	1400MST- 1403MST			0	0	4	6	High Winds
	Strai and	ight-line wind destroyed a ca	s out of a amp area	thunderstonear 1400	orm in MST.	the Big l	Horn were	Mountair estimate	n, downed several acres of trees d near 80 mph.
Niobrara County Lusk	26	1717MST	?	?	0	0	0	0	Tomado (F0)
	A to	rnado touchec	down b	riefly with	no da	mage ne	ar Lu	sk, at 17	17 MST.
Crook County 20 NW Sundance Campbell County	26	1912MST			0	0	0	0	Hail (0.75)
Gillette 15 E Gillette	26 26	1922MST 1922MST			0	0	0	0	Wind Gust Hail (1.75)
	At 1 of G	922 MST, a t illette.	hundersto	orm broug	ht wind	ds gustin	g to 6	2 mph a	t Gillette and hail 15 miles east
Crook County Colony Laramie County	26	2000MST			0	0	0	0	Hail (1.75)
25 Albin Goshen County	27	1822MST			0	0	0	0	Hail (0.75)
5 S Torrington Laramie County	27	1828MST			0	0	0	0	Funnel Cloud
2 NE Cheyenne Cheyenne 0.5 E Cheyenne	27 27 27	1920MST 1920MST 1926MST			0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (0.75) Hail (1.00)
Goshen County Yoder	27	1920MST			0	0	0	0	Hail (1.00)
Laramie County 7 N Cheyenne 7 NE Cheyenne 6 N Cheyenne 0.5 E Cheyenne	27 27 27 27	1935MST 1945MST 1955MST 2000MST			0 0 0	0 0 0	0 0 0 0	0 0 0	Hail (0.75) Hail (.75) Hail (1.25) Hail (1.50)
Goshen County LaGrange	27	2045MST			0	0	0	0	Hail (1.00)
Laramie County 2 NE Albin	27	2055MST	0.5	80	0	0	4	0	Tornado (F0)
	A th The	understorm o tornado, 2 m	utbreak in iles north	n southeas east of All	tern W	yoming wned po	prodo wer l	iced hail ines.	, strong winds, and tornadoes.
30 N Cheyenne	28	2110MST			0	0	0	0	Hail (0.75)
	At 2	110 MST, th	understor	ms brough	t 0.75	-inch hai	l to 3	0 miles r	north of Cheyenne.
Niobrara Lusk	29	1717MST- 1718MST	0.2	40	0	0	0	0	Tornado (F0)

A tornado was reported near Lusk at 1717 MST, with no damage.

June 1991

Path Path Number of Time Estimated Length (Miles) Width Local/ Persons Damage Date Location Standard (Yards) Killed Injured Property Crops Character of Storm ALASKA, Southeastern None reported. HAWAII None reported. **PACIFIC** None reported. **PUERTO RICO** Waterspout Rincon 18 1430AST 15 Tornado (F0) A waterspout moved on shore and affected the coastal area of Playa Corcega. Two cars and a house garage sustained damage, and several tree branches and power lines were downed. Naguabo 30 Mudslide Afternoon A tropical wave combined with an upper level trough produced heavy showers over the eastern half of the island. Rainfall amounts of 1.00 to 3.00 inches fell in Humacao, Yabucoa, Naguabo, San Lorenzo, Las Piedras and Cayey, and localized street flooding was reported in these towns. Road 3 at the interaction of 192 was affected by two major landslides, which made this portion of the road completely impassable. U.S. VIRGIN ISLANDS

None reported.

June 1991

Location

Time Local/ Standard Path Length (Miles)

Path Width (Yards) Number of Persons Cilled Injured Estimated
Damage

Killed Injured Property Crops Character of Storm

ADDITIONS

APRIL 1991

TENNESSEE - Page 189

Hamilton County Chattanooga

15 0115CST

0 0

2

Flash Flood

Several roads were closed due to flooding.

CORRECTIONS

JANUARY 1991

UTAH - Page 52

UTZ001-002-003-006-010 Western Valleys and Northwest Mountains 07 2100MST-08 1200MST

3 3 4

0 Heavy Snow Dense Fog

A weak but moist storm located over northern Nevada intensified over the northwestern portion of the state. The most snow reported was over the northwestern portion with lighter amounts received across the remainder of the state. The valleys received 6 to 12 inches and mountains 10 to 14 inches. Because of the storm, roads in the northwestern portion were snowpacked and slick which caused numerous accidents. Three separate accidents along the Wasatch Front resulted in three deaths and three injuries. The heavy snow also caused power outages in several areas along the Wasatch Front. After the snow ended and skies cleared, dense fog formed in all the western valleys. (F35V)(M54V)(M29V)

	,									,													,				
ТҮРЕ	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	このいままのてこのひて	DELANARE	FLORIDA	GEORGIA	OHADI	ILLINOIS	INDIANA	IOJA	KANSAS	大名のに上述用力	LOUISIANA	MAINE	TARY-JAZO & OU	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	≽ C> <m≠< th=""><th>MA-KODENE</th></m≠<>	MA-KODENE
TORNADOES Number Days Deaths Injuries Property Damage Crop Damage			1 10002	0	31 11 00 50			660050	1 10040	330040		21000?	640054	540040		440050	110000			1 1 0 1 4 0	11500??	1 10000	320043	15 600 555	2580074	0	
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AND BLIZZARDS a Deaths Injuries Property Damage Crop Damage							! ! !																				
ICE STORMS # Deaths Injuries Property Damage Crop Damage											;			,													
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ALL OTHERS Deaths Injuries Property Damage Crop Damage					0040					1000		i						0400						00064			

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TYPE	NEW JERSEY	NEW WEXT-CO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	ORWGON	PENNSYLVANIA	UZDE HOLEN	SOUTH CAROLINA	SOUTH DAKOTA	HESSERT	TEXAS	UTAH	>======================================	>-RG-2-4	3401-2G-OZ	DEST VIRGINIA	ZHOZODOHE	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO		& INJURY TOTALS
TORNADOES Number Days Deaths Injuries Property Damage Crop Damage		2140552	111040	110000	1040055	220050	420000					960042	1100000	36 11 0 25 2				110000		220055	200050	#	0	0	110000	0	1 8
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Injuries Property Damage Crop Damage						0050	42 0 0										0000		004?			,					87

REFERENCE NOTES

<pre>1 Less than \$50 2 \$50 to \$500 3 \$500 to \$5,000 4 \$5,000 to \$50,000 5 \$50,000 to \$500,000 6 \$500,000 to \$5 Million 7 \$5 Million to \$50 Million 8 \$50 Million to \$500 Million 9 \$500 Million to \$5 Billion</pre>	0/Blank * ** @ # # # p/c	None reported. Miles instead of yards. Yards instead of miles. Includes heavy sleet storm. Freezing drizzle and freezing rain, commonly known as glaze. Report incomplete. Report not received. Indicates Crop Damage amount is included in the value given for property damage.
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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)

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

STORM DAMAGE CATAGORIES

(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.

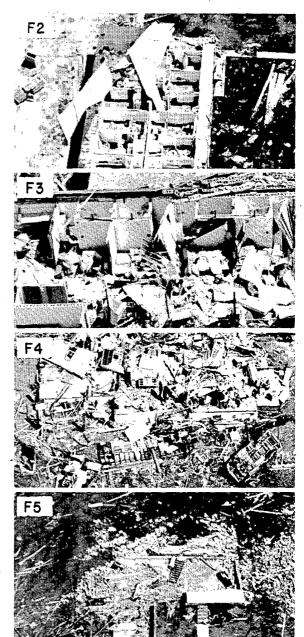
(F4) Devastating tornado (207-260 mph): Devastating damage Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

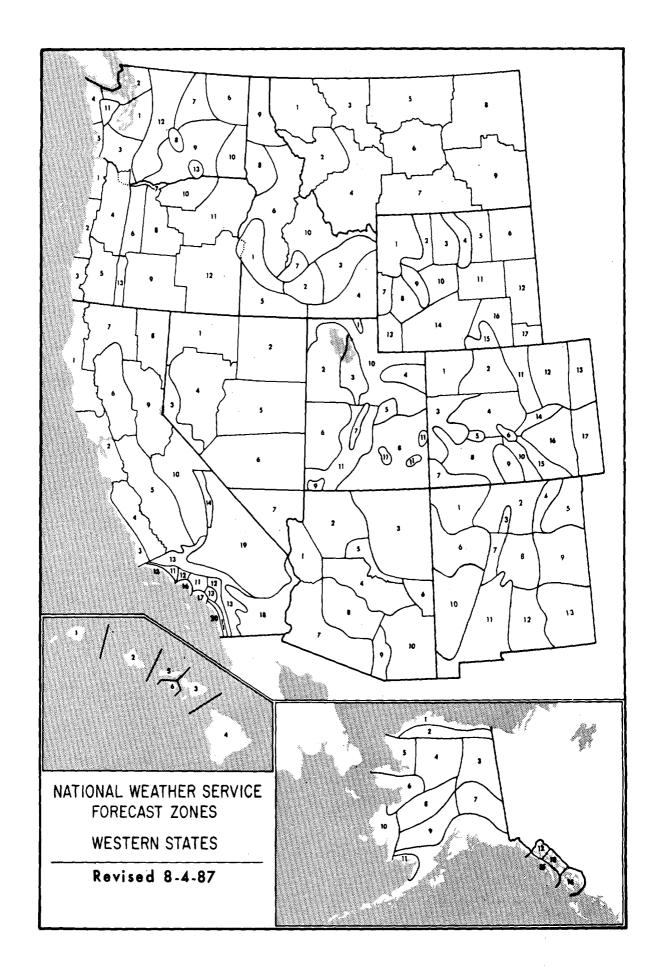
(F5) Incredible tornado (261-318 mph): Incredible damage Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

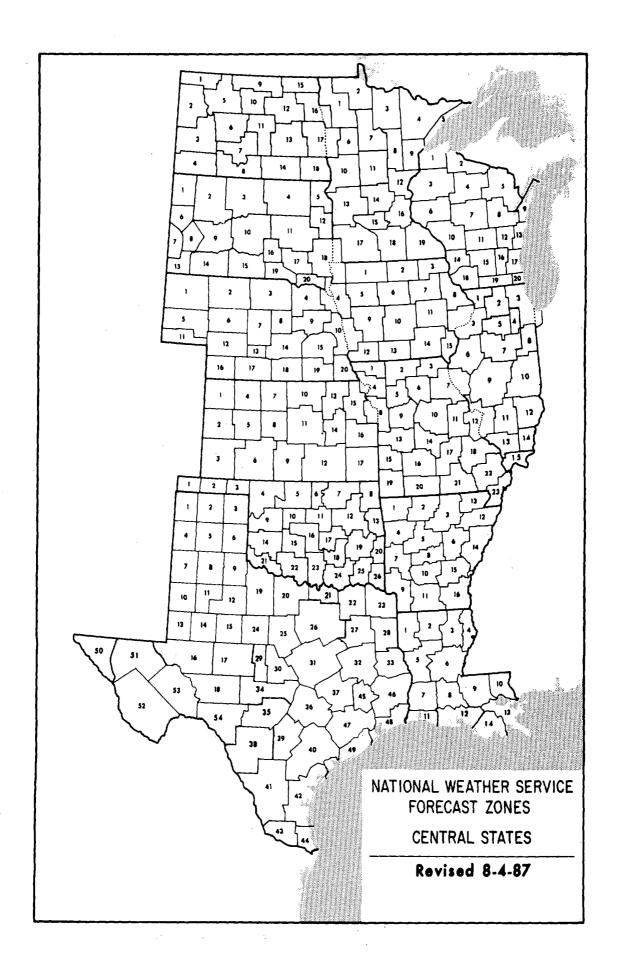
(F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

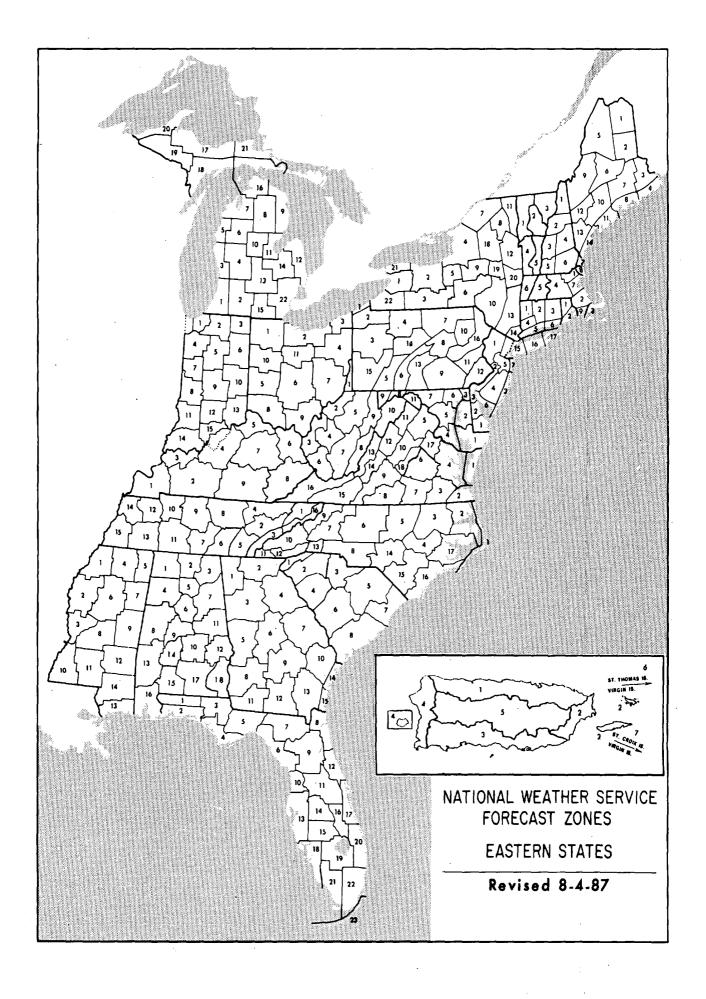
(F0+F1) Weak Tornado (F2+F3) Strong Tornado (F4+F5) Violent Tornado

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









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STORM DATA

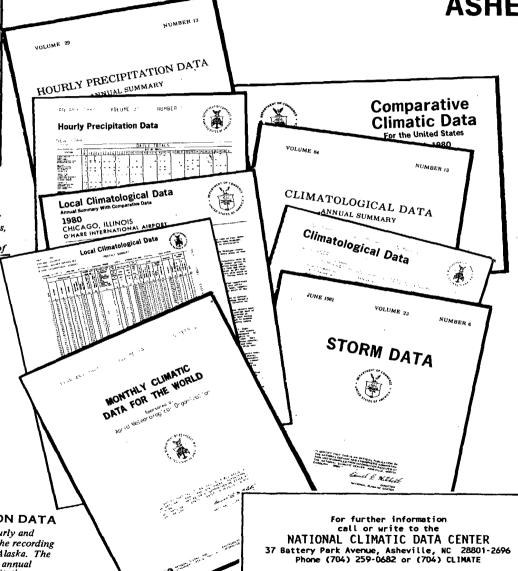
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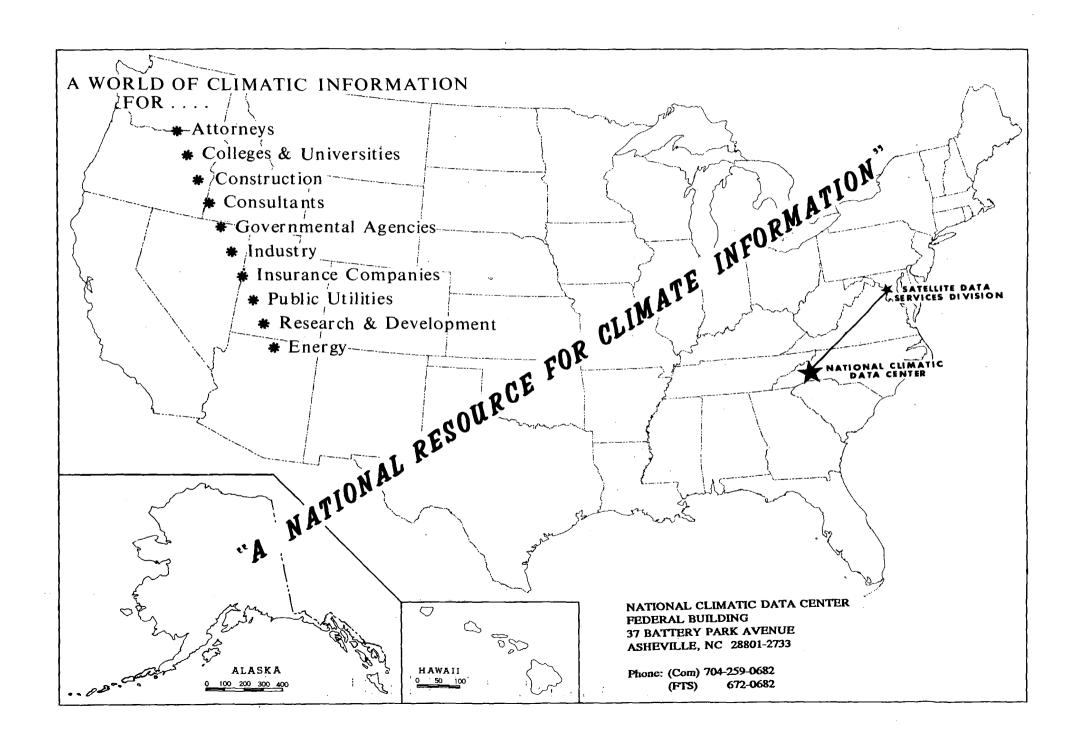
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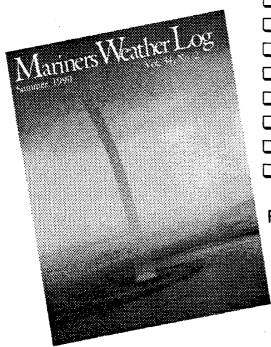
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